PHASE II ENVIRONMENTAL SITE ASSESSMENT

NE 8th & 106th Ave Property
10605 to 10635 NE 8th Street
Bellevue, Washington

Prepared for: Schnitzer West, LLC

Project No. 190298 • November 15, 2019 FINAL

Aspect CONSULTING

earth + water

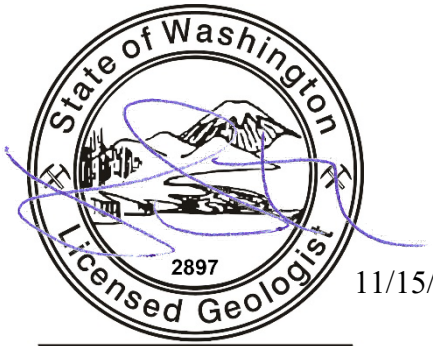
PHASE II ENVIRONMENTAL SITE ASSESSMENT

NE 8th & 106th Ave Property
10605 to 10635 NE 8th Street
Bellevue, Washington

Prepared for: Schnitzer West, LLC

Project No. 190298 • November 15, 2019 FINAL

Aspect Consulting, LLC



11/15/2019

Jessica A. Smith

Jessica Smith, LG
Associate Geologist
jsmith@aspectconsulting.com

Dave Cook, LG, CPG
Principal Geologist
dcook@aspectconsulting.com

V:\190298 Schnitzer - NE 8th and 106th Development\Deliverables\Phase II ESA\NE8 Phase II ESA Report_Final.docx

Contents

List of Tables

List of Figures

List of Appendices

Executive Summary

Aspect Consulting, LLC (Aspect Consulting) has prepared this report to present the findings of the Phase II Environmental Site Assessment (ESA) completed on behalf of Schnitzer West, LLC (Schnitzer) for the NE 8th & 106th Ave Property located at 10605, 10629, and 10635 NE 8th Street in Bellevue, Washington (Subject Property; Figure 1). The Subject Property comprises three parcels (King County tax parcel numbers 154410-0215, -0216, and -0221) totaling approximately 1.5 acres and is currently developed with two retail complexes (circa 1958 and 1963) and a gravel parking lot. The Subject Property is currently owned by Bosa Development Washington Inc. (Bosa Properties), who purchased it in 2016 from Sterling Reality Organization (SRO).

We understand that Schnitzer is considering purchase and redevelopment of the Subject Property as an office tower with below-grade parking requiring property-wide mass excavation extending up to elevation 91 feet mean sea level (amsl) (approximately 70 feet below the ground surface). Aspect prepared a Phase I ESA for the Subject Property (Aspect, 2019), which identified Recognized Environmental Conditions (RECs) pertaining to suspect and known releases associated with the historical use of the Subject Property as an auto service station and the documented presence of chlorinated solvent contamination below the Subject Property that is emanating from an adjacent, upgradient property and/or unknown sources.

The Phase II ESA consisted of drilling and installing seven new groundwater monitoring wells and chemical analysis of soil and groundwater samples (Figure 3). The results of the Phase II ESA confirm that soil and groundwater at the Subject Property has been impacted by releases associated with the RECs identified in the Phase I ESA. The Phase II ESA is generally consistent with the results of prior sampling by others and confirms the presence of the chlorinated solvents in soil and groundwater; however, Phase II ESA data provides new information regarding lateral and vertical extent, fate and transport mechanisms, and potential sources/release areas. Key findings of the Phase II ESA are summarized below:

1. **Confirmed Impacts from Thinker Toys Plume.** As documented in prior studies by others, soil and shallow groundwater (elevation 134 to 130 feet amsl or approximately 25 to 30 feet bgs) in the western portion of the Subject Property has been impacted by the chlorinated solvent plume emanating from the north-adjacent and upgradient Thinker Toys site. Phase II ESA data indicates that the vertical extent of the chlorinated solvent-impacted area located on the Subject Property extends deeper than previously indicated in studies by others but confirms that the deeper groundwater zone below the northern portion of the Subject Property does not appear to be affected. We recommended additional drilling and soil sampling be completed before construction to attempt to delineate the southern and western extent of on-Property impacts related to the release from the Thinker Toys site.
2. **Possible New Potential Chlorinated Solvent Source near Southern Property Boundary.** The Phase II ESA data confirmed chlorinated solvent impacts to soil near

the southern Subject Property boundary, and identified chlorinated solvent impacts at both shallower and deeper depths than were previously identified in this area:

a. In shallow soil, elevated PCE was identified at 5 feet at AMW-4S and previous studies identified PCE at 12.5 feet and 30 feet bgs in the nearby well, URS-MW-4. Soil at these depths is too shallow to be attributed to the Thinker Toys solvent plume and is likely attributable to a previously unidentified on-Property source (such as, a release into one of the nearby catch basins) or an off-site source to the south (such as the Onni/Barnes and Noble Property, where there is also a catch basin very close to the Subject Property boundary). We recommend additional drilling and soil sampling before construction in the vicinity of the on-Property catchbasins and southern Property boundary to attempt to delineate the most-likely source (catchbasin or other) of these impacts.

b. In deeper soil, elevated PCE was identified at 60 feet bgs in AMW-4D, and in the deep zone groundwater sample obtained from AMW-4D. Based on the results of this study and the prior studies by others, it is not clear whether the source of these deep chlorinated solvent impacts is the Thinker Toys plume discussed in Finding 1 (Section 2.2 of this report's main text), or a separate on-Property source (such as localized dumping into a catch basin on the Subject Property), or an off-site source to the south (such as the Onni/Barnes and Noble Property). We recommend additional drilling and soil and groundwater sampling north of these impacts and south of the documented impacts associated with the Thinker Toys site release to attempt to identify the most-likely source of these deep impacts (borings completed for this recommendation would be dual purpose with the borings recommended under Finding 1 above).

3. **Groundwater Implications for Redevelopment.** Groundwater is present between the Subject Property in "deep" and "shallow" zones. The deep groundwater zone is present between approximate elevations 83 feet and 80 feet amsl, which is 8 to 10 feet below the potential maximum excavation depth of elevation 91 feet amsl. Shallow groundwater appears to be present generally in the west portion of the Subject Property between approximate elevations 134 feet and 130 feet amsl but is discontinuous and may be subject to significant seasonal variation.

   Aquifer testing conducted in the shallow groundwater zone indicated an average hydraulic conductivity of 0.6 feet per day, indicating that it is unlikely that significant quantities of shallow groundwater will be generated during mass excavation dewatering of the shallow groundwater zone.

   Because the Phase II ESA data and prior studies show that the shallow and deep groundwater are affected by chlorinated solvent plume(s), consideration of the impact of dewatering on the chlorinated solvent plumes will be needed during dewatering/construction planning.

4. **Petroleum-Contamination Associated with Former Gasoline Station.** Groundwater data obtained during the Phase II ESA did not show impacts from petroleum hydrocarbons, indicating that the petroleum-contaminated soil that remains in-place at the Subject Property does not appear to be leaching to groundwater. It should be noted that the petroleum-contaminated soil will require special handling

and disposal requirements during construction, and additional sampling will be needed to confirm the lateral and vertical extents in some areas to comply with the requirements of MTCA. We do not recommend any additional pre-construction actions pertaining to this condition.

5. **No Identified Impacts Associated with Corner Court Property to North-Northeast of Subject Property.** Explorations intended to evaluate possible Subject Property impacts associated with the former Corner Court dry cleaner on the property located north-northeast of the Subject Property (discussed in REC 2 in Aspect's Phase I ESA) did not identify chlorinated solvents in soil and or groundwater. No additional action is recommended pertaining to this REC.

Ahead of redevelopment, additional soil and groundwater data is needed to understand the source(s) of the chlorinated solvents identified in shallow and deep soil and groundwater beneath the Subject Property. Further, additional soil characterization data will be needed prior to start of construction to support the conceptual site model per MTCA, and to obtain a Contained In Determination from Ecology to support soil disposal.

Additionally, due to the significant fluctuations in groundwater flow direction and water table elevation, particularly in the shallow aquifer, continued groundwater monitoring ahead of redevelopment is recommended to provide data to support the conceptual site model and to support construction planning. We further recommend that a groundwater monitoring program be designed and implemented during mass excavation dewatering of the Subject Property and adjacent properties (including the south-adjacent Onni/Barnes and Noble Property) to monitor dewatering impacts to groundwater elevations and possible movement of contaminated groundwater plumes in the area.

1 Introduction

Aspect Consulting, LLC (Aspect Consulting) has prepared this report to present the findings of the Phase II Environmental Site Assessment (ESA) completed on behalf of Schnitzer West, LLC (Schnitzer) for the NE 8th & 106th Ave Property located at 10605, 10629, and 10635 NE 8th Street in Bellevue, Washington (Subject Property; Figure 1). The Subject Property comprises three parcels (King County tax parcel numbers 154410-0215, -0216, and -0221) totaling approximately 1.5 acres and is currently developed with two retail complexes (circa 1958 and 1963) and a gravel parking lot. The Subject Property is currently owned by Bosa Development Washington Inc. (Bosa Properties), who purchased it in 2016 from Sterling Reality Organization (SRO).

We understand that Schnitzer is considering purchase and redevelopment of the Subject Property as an office tower with below-grade parking requiring property-wide mass excavation extending to elevation 101 to 91 feet above mean sea level (amsl) or approximately 60 to 70 feet below the ground surface (bgs). Aspect prepared a Phase I ESA for the Subject Property (Aspect, 2019), which identified Recognized Environmental Conditions (RECs) pertaining to suspect and known releases associated with the historical use of the Subject Property as an auto service station and the documented presence of chlorinated solvent contamination below the Subject Property that is emanating from an adjacent, upgradient property and/or unknown sources. This report provides an abbreviated discussion of previous investigation work conducted at the Subject Property, summarizes the RECs identified in the Phase I ESA, and describes the scope and results of the Phase II ESA.

2 Background

The information in this section summarizes key environmental findings, based on research conducted for the Phase I ESA (Aspect, 2019). For a comprehensive description of the current and historic uses of the Subject Property, as well as a review of previous investigations completed on the Subject Property, refer to the Phase I ESA and cited reports.

2.1 Historical Uses

The Subject Property is located in an area that has been commercially developed since the 1960s and in the past two decades is experiencing abundant redevelopment with mixed-use high-rise retail, commercial, and residential space.

Historical development of the western parcel of the Subject Property included two generations of a gasoline and automotive service station from 1958 to 1991, which resulted in petroleum contamination of soil at concentrations exceeding the Model Toxics Control Act (MTCA). Demolition of the service station in 1992 included remedial

excavation of most of the petroleum-contaminated soil. However, petroleum-contaminated soil was identified during later investigations and remains on the Subject Property at present. Since 1992, the parcel has been used as a gravel lot for parking.

The center and eastern lots were historically developed for residential and agricultural use before the existing multi-unit retail buildings were constructed in 1958 and 1963. Occupancy of the commercial buildings includes retail, office space, and printing services. Current occupancy includes piano and clothing retailers, fitness center, FedEx, consulting office, a pizza restaurant, nail salon, hair salon, tarot card reader, tailors, tobacco smoke house, and used piano showroom.

2.1.1 Adjacent Properties of Potential Concern

Adjacent and adjoining properties to the Subject Property have been developed with commercial uses since as early as the 1950s, and several adjacent properties have documented releases of contaminants and are known contaminated sites to the Washington State Department of Ecology (Ecology). Most pertinent to this Phase II ESA are the north-northwest adjacent Thinker Toys site and the south-adjoining Onni/Barnes and Noble Property.

The Thinker Toys site was developed as a service station in the 1950s and then subsequently operated as a dry cleaner until 2007 when the property was paved for use as a parking lot. A release of total petroleum hydrocarbons (TPH) and chlorinated solvents, including tetrachlorethylene (PCE), trichloroethylene (TCE) and other associated daughter compounds, to soil, groundwater, and soil gas occurred as a result of these former operations. The chlorinated solvent contamination has migrated to the south, across NE 8th Street to the Subject Property and is present in Subject Property soil and groundwater. The extent of the Thinker Toys Site has been defined to include at least the northwest portion of the Subject Property and extends beyond the Subject Property boundary to the west, and possibly to the south.

The Onni/Barnes and Noble Property was originally developed as a bowling alley and theater. Chlorinated solvents have been confirmed in soil and groundwater beneath the site. The source has been debated during previous studies by others, and presumed to be either attributed to the release at the upgradient Thinker Toys site (EPI, 2019) and/or an alternate PCE source located elsewhere (G-Logics, 2019).

2.2 Previous Investigations

The Subject Property has been the focus of numerous environmental investigations and studies occurring between the 1990s and 2019. Environmental investigations have identified impacts to soil by petroleum-associated constituents associated with the former auto service station on the western parcel, and to soil and groundwater by chlorinated solvent-associated constituents presumed to be related to upgradient releases at the Thinker Toys site that have migrated to beneath the Subject Property. Limited remedial actions have occurred at the Subject Property, but both petroleum-associated and chlorinated solvent-associated contamination remains in place. Historical data tables summarizing the soil and groundwater testing by others are included as Appendix A.

Aspect's Phase I ESA identified four RECs (Figure 2), as follows:

1. **Former Service Station and Remaining Petroleum-Contaminated Soil.** The historical use of the Subject Property's west parcel as a service station and documented remaining petroleum-contaminated soil represents a REC. It does not appear that the remaining petroleum in soil has leached to groundwater, but it is prudent to verify this data gap.
2. **Solvent Plume Beneath the Subject Property from Historical Dry Cleaner (aka Thinker Toys Site).** The presence of chlorinated solvents, primarily PC) and to a lesser degree trichloroethene (TCE), above MTCA Method A cleanup levels, in groundwater and saturated soil at the Subject Property are a REC.This contamination has been documented as part of the upgradient Thinker Toys Site north of NE 8th Street. The distal/downgradient end of this plume at the south boundary of the Subject Property has not been established and represents a data gap.
3. **Historical Dry Cleaner North-Northeast of Subject Property (Corner Court Property).** PCE, as well as TCE and degredation compounds, above MTCA Method A cleanup levels have been reported in soil, groundwater, and soil gas from a historical dry cleaner that historically operated at the Corner Court property, located at 10644 NE 8th Street (across the the NE 8th Street right-of-way [ROW]) and is considered a REC to the Subject Property. The historical development of a dry cleaner and a service station resulted in the release of petroleum products, as well as PCE, TCE, and associated degredation compounds at this property. Remediation and delineation of the Site is ongoing. Based on the Phase I ESA research, it was unclear if contaminant migration across NE 8th Street had occurred, and this was targeted during the Phase II ESA (Section 3).
4. **Known Solvent-Contaminated Site with Unconfirmed Source South-Adjoining to Subject Property.** Chlorinated solvents are present in soil and groundwater above MTCA Method A cleanup levels at the south-adjoining Onni/Barnes and Noble Property, which is a known contaminated site registered with Ecology. The source of the solvent contamination is being disputed between the environmental consultants for the Thinker Toys Site and Onni Property. PCE is documented along the southern Subject Property boundary that is shared with the Onni/Barnes and Noble Property, and there is insufficient groundwater and soil data to understand if this PCE is attributable to the documented solvent contamination at the south-adjoining Onni/Barnes and Noble Property or if it is a component of the Thinker Toys solvent plume. For this reason, this condition is included as a separate, standalone REC.

Based on the results of the Phase I ESA, Aspect conducted a Phase II ESA investigation to evaluate known and potential impacts to the Subject Property associated with the RECs and data gaps listed above. The investigation activities and results are described in the following sections.

3 Phase II Environmental Site Assessment

The Phase II ESA consisted of drilling and installation of seven new groundwater monitoring wells and chemical analysis of soil and groundwater samples (Figure 3). The locations and depths of each new well were designed to address the RECs identified by the Phase I ESA and to provide data that can be utilized for high-level construction planning. The implemented scope and results are presented in the following sections.

3.1 Field Program

On September 26 to 30, 2019, a total of seven new groundwater monitoring wells were constructed in soil borings drilled across the Subject Property. Two-inch-diameter wells were constructed in soil borings advanced to maximum depths of 45 feet bgs for shallow wells and 90 feet bgs for deep wells, using either hollow stem auger drilling equipment operated by Cascade Drilling of Woodinville, Washington or sonic drilling equipment operated by Anderson Environmental Contractors of Kelso, Washington. During drilling, soil samples were obtained continuously (from sonic borings) or at 2.5- to 5-foot intervals (from auger borings) for lithologic classification and field screening by an Aspect geologist. Soils observed were classified in accordance with the Unified Soil Classification System (USCS) and recorded on boring logs. Field screening methods utilized included measurement of headspace volatiles using a photoionization detector (PID), water sheen, and visual and olfactory observation. Boring and well construction logs are included in Appendix B.

Based on the results of field screening, observed lithology, and proximity to REC or data gap areas, a total of 33 soil samples were submitted to the analytical laboratory, Friedman and Bruya, Inc. of Seattle, Washington for analysis one or more of gasoline-, diesel-, and oil-range TPH and chlorinated solvents.

Newly installed and pre-existing groundwater monitoring wells were gauged and sampled using low flow sampling methods during the Phase II ESA. Pre-existing groundwater monitoring wells were sampled on August 14 and 15, 2019. Following installation and well development, each new groundwater monitoring well was sampled on September 30 or October 1, 2019. A total of 13 groundwater samples, including 8 from shallow wells and 5 from deep wells, were submitted to Friedman and Bruya, Inc. for analysis of one or more of gasoline-, diesel-, and oil-range TPH and chlorinated solvents.

Newly installed groundwater monitoring wells were surveyed relative to the pre-existing well network on October 3, 2019 and fitted with pressure transducers to allow for evaluation of groundwater flow direction. Survey and water level data, as well as construction details, are summarized on Tables 1 and 4.

On October 3 and 4, 2019, aquifer testing was conducted by an Aspect geologist in order to estimate hydraulic conductivity of the soil profile beneath the Subject Property. Wells selected for testing included B-3/MW-3 and URS-MW-1 based on the representativeness of soils in the screened intervals. Aquifer testing was conducted using slug test methods, in which water was rapidly evacuated from each well and the rate of water level rise monitored using an electronic water level indicator.

All soil cuttings, well purge water, and decontamination water generated by the investigation were placed into labeled U.S. Department of Transportation-approved drums and temporarily stored at the Subject Property as investigation-derived waste (IDW). Immediately upon receipt of the analytical results, Aspect subcontractor, DH Environmental Inc., prepared profiles, manifests, and removed the IDW to an appropriate waste facility. All IDW was removed from the Subject Property on October 10, 2019.

3.2 Results

3.2.1 Geology and Hydrogeology

Soil observed during drilling consisted primarily of imported fill material, overlying glacial till. The fill was encountered to depths ranging from 2 to 10 feet bgs and consisted primarily of sand and gravel with varying amounts of silt. The fill was underlain by glacial till observed to the maximum drilled depths of 90 feet bgs, consisting of alternating layers and interbeds of silty sands, sandy silts, and sands with varying amounts of gravel (Figures 7 and 8). Previous investigations encountered advance outwash deposits below the glacial till identified at depths ranging from 25 to 50 feet bgs in select areas (Sweet-Edwards/EMCON, 1992; URS, 2000); however, this unit was not readily observed in the boring locations for the Phase II ESA.

Groundwater was encountered in two water bearing zones (a shallow and a deep zone), which is consistent with observations from previous investigations by others (Terra, 2008; SES, 2011; URS, 2011; Aspect, 2019), shallow groundwater was encountered inconsistently in sandy layers from 22 to 45 feet bgs, corresponding to elevations of approximately 136 to 115 feet amsl. Groundwater in the deep aquifer was encountered from 71 to 73 feet bgs corresponding to elevations of 83 to 82 feet amsl. Interpreted groundwater flow in the shallow zone is to the south and in the deep zone is to the southeast (Figure 4). This is consistent with historical trends interpreted and mapped by others.

3.2.2 Chemical Analytical Results

This section summarizes the results of chemical analytical testing of soil and groundwater samples obtained during this study. Chemical analytical results are summarized in Tables 2 and 3. Full laboratory reports are included as Appendix C.

3.2.2.1 Soil Data

The chemical analytical results for soil samples were evaluated against the MTCA Method A cleanup levels for Unrestricted Land Use or, where Method A cleanup levels have not been established, data were evaluated against the Method B cleanup levels. The analytical soil results for this study are summarized on Table 2 and shown relative to current features and historical exploration locations on Figures 5, 7, and 8.

- PCE was detected in 5 of the 33 samples analyzed, at concentrations above and below the MTCA Method A cleanup level of 0.05 mg/kg. Concentrations exceeding the cleanup level are as follows:
    - In AMW-2, PCE was detected at 0.13 mg/kg in the sample obtained from 65 feet bgs (elevation 92.17 feet amsl), which exceeds the MTCA Method A

cleanup level of 0.05 mg/kg. A degradation product, cis-1,2-DCE was also detected in this sample at 0.035 mg/kg. There is no established MTCA cleanup level for this compound.

- In AMW-4D, PCE was detected at 0.12 mg/kg in the sample obtained from 63.5 feet bgs (elevation89.75 feet amsl), above the MTCA cleanup level of 0.05 mg/kg.

- PCE was detected at concentrations less than the MTCA cleanup level in the following 3 soil samples:
  - In AMW-3D, PCE was detected at 0.019 mg/kg at 45 feet bgs (elevation 92.17 feet amsl)
  - In AMW-4D, PCE was detected at 0.014 mg/kg at 60 feet bgs (elevation 93.25 feet amsl)
  - In AMW-4S, PCE was detected at 0.014 mg/kg at 5 feet bgs (elevation 148.36 feet amsl)
- Gasoline-, diesel-, and oil-range TPH were not detected in any of the 4 soil samples submitted for analysis.

Additionally, detections of methylene chloride were indicated in 8 of the 33 samples analyzed; however, the data were flagged as resulting from laboratory cross contamination, and the concentrations are not considered representative of actual occurrences of methylene chloride in soil at the Subject Property.

3.2.2.2 Groundwater Data

The chemical analytical results for groundwater samples were evaluated against the MTCA Method A cleanup levels. The analytical groundwater results are summarized on Table 3 and shown graphically on Figures 6, 7 and 8.

PCE and its degradation products were detected in 7 of the 13 groundwater samples analyzed. Of these, 6 samples were obtained from the shallow groundwater zone, and one was obtained from the deep groundwater zone, as follows:

- **Shallow Groundwater Zone.** PCE is the only constituent identified at concentrations that exceed the MTCA Method A cleanup level of 5 ug/L, and the exceedances were only detected in shallow groundwater samples obtained from monitoring wells B3/MW-3, MW-17, MW-18, MW-19, and URS-MW-1, at concentrations ranging from 5.8 ug/L to 58 ug/L

  PCE, TCE, or cis-1,2-DCE were detected at concentrations below the MTCA Method A cleanup levels in the samples obtained from MW-17, MW-18, and MW-20.

  Additionally, diesel-range TPH was detected in the sample obtained from MW-20 at 70 ug/L. The laboratory flagged the diesel-range detection as a poor match to the fuel standard and unlikely representative of a diesel release at this location.

- **Deep Groundwater Zone.** In deep groundwater, PCE was detected at a concentration below the MTCA Method A cleanup level in the sample obtained

from AMW-4D. No additional contaminants were detected in the samples analyzed.

3.2.3 Aquifer Testing Results

The Bouwer and Rice method (1976) was applied to the aquifer test data. Table 1 summarizes well construction data, Table 4 shows water level data, and Table 5 presents the field measurements and testing input parameters for each test and the associated hydraulic conductivity estimates. The resulting hydraulic conductivity estimates for the two wells tested range from 0.5 to 0.8 ft/day, with an average of 0.6 ft/day. This value represents relatively slow groundwater flow and is within the typical range for dense geologic till deposits like those below the Subject Property vicinity.

4 Conclusions

4.1 Investigation Findings

The results of the Phase II ESA confirm that soil and groundwater at the Subject Property has been impacted by releases associated with the RECs identified in the Phase I ESA (Aspect, 2019). The Phase II ESA is generally consistent with the results of prior sampling by others and confirms the presence of the chlorinated solvents in soil and groundwater; however, Phase II ESA data provides new information regarding lateral and vertical extent, fate and transport mechanisms, and potential sources/release areas. Key findings of the Phase II ESA are summarized below:

1. **Confirmed Impacts from Thinker Toys Plume.** As documented in prior studies by others, soil and shallow groundwater (elevation 134 to 130 feet amsl or approximately 25 to 30 feet bgs) in the western portion of the Subject Property has been impacted by the chlorinated solvent plume emanating from the north-adjacent and upgradient Thinker Toys site. Phase II ESA data indicates that the vertical extent of the chlorinated solvent-impacted area located on the Subject Property extends deeper than previously indicated in studies by others but confirms that the deeper groundwater zone below the Subject Property does not appear to be affected. We recommended additional drilling and soil sampling be completed before construction to attempt to delineate the southern and western extent of on-Property impacts related to the release from the Thinker Toys site.

2. **Possible New Potential Chlorinated Solvent Source near Southern Property Boundary.** The Phase II ESA data confirmed chlorinated solvent impacts to soil near the southern Subject Property boundary, and identified chlorinated solvent impacts at both shallower and deeper depths than were previously identified in this area:

    a. In shallow soil, elevated PCE was identified at 5 feet at AMW-4S and previous studies identified PCE at 12.5 feet and 30 feet bgs in the nearby well, URS-MW-4. Soil at these depths is too shallow to be attributed to the Thinker Toys solvent plume and is likely attributable to a previously unidentified on-Property source (such as, a release into one of the nearby catch basins), or an off-site source to the south (such as the Onni/Barnes and Noble Property, where there is also a catch basin very close to the Subject Property boundary). We recommend additional drilling and soil sampling before construction in the vicinity of the on-Property catchbasins and southern Property boundary to attempt to delineate the most-likely source (catchbasin or other) of these impacts.

    b. In deeper soil, elevated PCE was identified at 60 feet bgs in AMW-4D, and in the deep zone groundwater sample obtained from AMW-4D. Based on the results of this study and the prior studies by others, it is not clear whether the source of these deep chlorinated solvent impacts is the Thinker Toys plume discussed in Finding 1 (summarized in Section 2.2 above), or a separate on-Property source (such as localized dumping into a catch basin), or an off-site source to the south (such as the Onni/Barnes and Noble Property). We recommend additional drilling and soil and groundwater sampling north of these impacts and south of the documented impacts associated with the Thinker Toys

site release to attempt to identify the most-likely source of these deep impacts (borings completed for this recommendation would be dual purpose with the borings recommended under Finding 1 above).

3. **Groundwater Implications for Redevelopment.** The deep groundwater zone is present between approximate elevations 83 feet and 80 feet amsl, which is 8 to 10 feet below the potential maximum excavation depth of 91 feet amsl or approximated 70 feet bgs. Shallow groundwater appears to be present generally in the west portion of the Subject Property between approximate elevations 134 feet and 130 feet amsl but is discontinuous and may be subject to significant seasonal variation. Aquifer testing indicated an average hydraulic conductivity of 0.6 feet per day for the shallow groundwater zone, indicating that it is unlikely that significant quantities of shallow groundwater will be generated during mass excavation dewatering. Because the Phase II ESA data and prior studies show that the shallow and deep groundwater are affected by chlorinated solvent plume(s), consideration of the impact of dewatering on the chlorinated solvent plumes will be needed during dewatering/construction planning.

4. **Petroleum-Contamination Associated with Former Gasoline Station.** Groundwater data obtained during the Phase II ESA did not show impacts from petroleum hydrocarbons, indicating that the petroleum-contaminated soil that remains in-place at the Subject Property does not appear to be leaching to groundwater. It should be noted that the petroleum-contaminated soil will require special handling and disposal requirements during construction, and additional sampling will be needed to confirm the lateral and vertical extents in some areas to comply with the requirements of MTCA.

5. **No Identified Impacts Associated with Corner Court Property to North-Northeast of Subject Property.** Explorations intended to evaluate possible impacts to the Subject Property associated with the former Corner Court dry cleaner on the property located north-northeast of the Subject Property (discussed in REC 2) did not identify chlorinated solvents in soil and or groundwater.

4.2 Recommendations

Ahead of redevelopment, additional soil and groundwater data is needed to understand the source(s) of the chlorinated solvents identified in shallow and deep soil and groundwater beneath the Subject Property, specifically near the southern property boundary. Further, additional soil characterization data will be needed prior to the start of construction to support the conceptual site model per MTCA, and to obtain a Contained In Determination from Ecology to support soil disposal.

Additionally, due to the significant fluctuations in groundwater flow direction and water table elevation, particularly in the shallow aquifer, continued groundwater monitoring ahead of redevelopment is recommended to provide data to support the conceptual site model and to support construction planning. We further recommend that a monitoring program be designed and implemented during mass excavation dewatering to monitor possible movement of contaminated groundwater plumes in the area.

As stated in Section 4.1, petroleum-contaminated soil will require additional sampling at the boundaries and special handling/disposal during construction. We do not recommend any additional pre-construction actions pertaining to this condition.

References

Aspect Consulting, LLC (Aspect), 2019, Phase I Environmental Site Assessment, 10605, 10619, 10635 NE 8th Street, Bellevue, Washington, October 14, 2019

Limitations

Work for this project was performed for the Schnitzer West, LLC (Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Please refer to Appendix D titled "Report Limitations and Guidelines for Use" for additional information governing the use of this report.

TABLES

Table 1. Well Construction and Groundwater Elevations

Project No. 190298, NE 8th and 106th Ave NE, Bellevue, Washington

Well ID	Date	Well Screen Interval (ft bgs)	TOC elevation (ft)	Well Screen Elevation (88)	Water Level (ft bTOC)	Groundwater Elevation (ft)
Shallow Monitoring Wells						
URS-MW-1	10/22/2019	20-30	157.87	137.87 - 127.87	27.26	130.61
URS-MW-2	10/22/2019	20-30	160.22	140.22 - 130.22	Dry	--
URS-MW-3*	10/22/2019	20-30	153.98	133.98 - 123.98	23.25	130.73
URS-MW-4	10/22/2019	20-30	152.99	132.99 - 122.99	Dry	--
B3/MW-3*	10/22/2019	20-30	158.89	138.89 - 128.89	24.94	133.95
MW-17	10/22/2019					
MW-18	10/22/2019					
MW-19	10/22/2019	20-30	156.31	146.31 - 126-31	Dry	--
MW-20*	10/22/2019	15-30	152.63	137.63 - 122.63	22.69	129.94
AMW - 1	10/22/2019	35-45	170.41	135.41 - 125.41	Dry	--
AMW - 3S	10/22/2019	20-40	156.61	136.61 - 116.61	39.48	117.13
AMW - 4S	10/22/2019	30-40	153.36	123.36 - 113.36	Dry	--
AMW - 5	10/22/2019	30-40	154.25	124.25 - 114.25	Dry	--
Deep Monitoring Wells						
URS-MW-8*	10/22/2019	70-80	152.35	82.35 - 72.35	69.14	83.21
B1/MW-1	10/22/2019	70-90	169.63	99.63 - 79.63	87.92	81.71
B2/MW-2*	10/22/2019	70-90	159.02	89.02 - 69.02	75.78	83.24
B4/MW-4*	10/22/2019	70-90	157.06	87.06 - 67.06	76.38	80.68
AMW-2	10/22/2019	70-90	157.17	87.17 - 67.17	74.11	83.06
AMW-3D	10/22/2019	70-90	156.14	86.14 - 66.14	74.78	81.36
AMW-4D	10/22/2019	70-90	153.25	83.25 - 63.25	71.48	81.77

Notes:

Well casing elevations surveyed by Bush, Roed, and Hitchings on September 10 and November 24, 2008
AMW well casing elevations surveyed by PLS on October 3, 2019
Vertical datum based on City of Bellevue - NAVD 88
* Transducer deployed by Aspect Consulting in 3 shallow and 3 deep wells on 08/15/19
ft = feet
bTOC = below top of casing
bgs = below ground surface
Wells labeled "URS" were completed by URS Corporation
Wells labeled "B1/MW" were completed by Terra Associates
Wells labeled MW-19 and MW-20 were completed by Farallon

Table 2. Summary of Soil Chemical Analytical Results

Project No. 190298, NE 8th and 106th Ave NE, Bellevue, Washington

Boring ID	Sample ID	Sample Date	Depth(ft bgs)	Elevation(ft msl)	Volatile Organic Compounds					Total Petroleum Hydrocarbons		
					PCE mg/kg	TCE mg/kg	cDCE mg/kg	Methylene Chloride mg/kg	VC mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg
AMW-1	AMW-1-15.0	9/26/2019	15 ft	155.41	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	< 5 U	< 50 U	< 250 U
	AMW-1-37.5	9/26/2019	37.5 ft	132.91	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	< 5 U	< 50 U	< 250 U
	AMW-1-45.0	9/26/2019	45 ft	125.41	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	< 5 U	< 50 U	< 250 U
AMW-2	AMW-2-19	9/26/2019	19 ft	138.17	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	< 5 U	--	--
	AMW-2-54	9/26/2019	54 ft	103.17	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-2-65	9/26/2019	65 ft	92.17	**0.13**	< 0.003 U	**0.034**	< 0.05 U	< 0.005 U	--	--	--
	AMW-2-72	9/26/2019	72 ft	85.17	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-2-81	9/26/2019	81 ft	76.17	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
AMW-3D	AMW-3D-35.0	9/30/2019	35 ft	121.14	< 0.005 U	< 0.003 U	< 0.005 U	**0.15 J***	< 0.005 U	--	--	--
	AMW-3D-45.0	9/30/2019	45 ft	111.14	**0.019**	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-3D-55.0	9/30/2019	55 ft	101.14	< 0.005 U	< 0.003 U	< 0.005 U	**0.11 J***	< 0.005 U	--	--	--
	AMW-3D-75.0	9/30/2019	75 ft	81.14	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
AMW-3S	AMW-3S-27.5	9/27/2019	27.5 ft	129.11	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-3S-35	9/27/2019	35 ft	121.61	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
AMW-4D	AMW-4D-5.5	9/27/2019	5.5 ft	147.75	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-4D-20.0	9/27/2019	20 ft	133.25	< 0.005 U	< 0.003 U	< 0.005 U	**0.065 J***	< 0.005 U	--	--	--
	AMW-4D-30.0	9/27/2019	30 ft	123.25	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-4D-35.0	9/27/2019	35 ft	118.25	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-4D-50.0	9/27/2019	50 ft	103.25	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-4D-55.0	9/27/2019	55 ft	98.25	< 0.005 U	< 0.003 U	< 0.005 U	**0.18 J***	< 0.005 U	--	--	--
	AMW-4D-60.0	9/27/2019	60 ft	93.25	**0.014**	< 0.003 U	< 0.005 U	**0.21 J***	< 0.005 U	--	--	--
	AMW-4D-63.5	9/27/2019	63.5 ft	89.75	**0.12**	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-4D-69.5	9/27/2019	69.5 ft	83.75	< 0.005 U	< 0.003 U	< 0.005 U	**0.064 J***	< 0.005 U	--	--	--
	AMW-4D-80.0	9/27/2019	80 ft	73.25	< 0.005 U	< 0.003 U	< 0.005 U	**0.056 J***	< 0.005 U	--	--	--
	AMW-4D-89.0	9/27/2019	89 ft	64.25	< 0.005 U	< 0.003 U	< 0.005 U	**0.076 J***	< 0.005 U	--	--	--
AMW-4S	AMW-4S-5.0	9/26/2019	5 ft	148.36	**0.014**	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-4S-10.0	9/26/2019	10 ft	143.36	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-4S-15.0	9/26/2019	15 ft	138.38	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
AMW-5	AMW-5-5	9/27/2019	5 ft	149.25	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-5-10	9/27/2019	10 ft	144.25	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-5-15	9/27/2019	15 ft	139.25	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
	AMW-5-20	9/27/2019	20 ft	134.25	< 0.005 U	< 0.003 U	< 0.005 U	**0.14 J***	< 0.005 U	--	--	--
	AMW-5-35	9/27/2019	35 ft	119.25	< 0.005 U	< 0.003 U	< 0.005 U	< 0.05 U	< 0.005 U	--	--	--
MTCA Method A cleanup Level					**0.05**	**0.03**		**0.02**		**100**	**2000**	**2000**

Notes

Bold - Analyte Detected

Blue Shaded - Detected result exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

X - Chromatographic pattern does not match fuel standard used for quantitation

* = detected concentration has been flagged by the laboratory as the result of laboratory cross contamination and does not represent actual presence of the compound in the sample.

1. Locations surveyed on October 3, 2019 by PLC, Inc. relative to NAVD 88.

PCE - Tetrachloroethene

TCE - Trichloroethene

cDCE - cis-1,2-Dichloroethene

VC - Vinyl Chloride

GRO - Gasoline range organics

DRO - Diesel range organics

MRO - Motor oil range organics

VOCs analyzed by EPA Method 8260C. Only contaminants of concern (chlorinated VOCs) are shown on the table. See laboratory reports for full list of compounds analyzed.

Table 3. Summary of Groundwater Chemical Analytical Results

Project No. 190298, NE 8th and 106th Ave NE, Bellevue, Washington

Well ID	Sample Date	Volatile organic compounds (VOCs)					Petroleum Hydrocarbons (TPHs)		
		PCE ug/L	TCE ug/L	cDCE ug/L	VC ug/L	Methylene Chloride ug/L	GRO ug/L	DRO ug/L	ORO ug/L
Shallow Wells									
AMW-2	9/30/2019	< 1 U	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
AMW-3S	10/3/2019	**1.3***	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
B3-MW-3	8/14/2019	**33**	< 1 U	< 1 U	< 0.2 U	< 5 U	< 100 U	< 50 U	< 250 U
MW-17	10/9/2019	**41**	**2.5**	**3.3**	< 0.2 U	< 5 U	--	--	--
MW-18	10/9/2019	**58**	**1.4**	< 1 U	< 0.2 U	< 5 U	--	--	--
MW-19	8/15/2019	**5.8**	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
MW-20	8/15/2019	**2.9**	< 1 U	< 1 U	< 0.2 U	< 5 U	< 100 U	**70 X**	< 250 U
URS-MW-1	8/14/2019	**45**	< 1 U	< 1 U	< 0.2 U	< 5 U	< 100 U	< 50 U	< 250 U
URS-MW-3	8/14/2019	< 1 U	< 1 U	< 1 U	< 0.2 U	< 5 U	< 100 U	< 50 U	< 250 U
Deep Wells									
AMW-3D	10/8/2019	< 1 U	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
AMW-4D	10/8/2019	**1.3**	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
B2/MW-2	8/15/2019	< 1 U	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
B4/MW-4	8/15/2019	< 1 U	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
URS-MW-8	8/15/2019	< 1 U	< 1 U	< 1 U	< 0.2 U	< 5 U	--	--	--
MTCA Method A Cleanup Level		**5**	**5**		**0.2**	**5**	**1000**	**500**	**500**

Notes

ug/L = micrograms per liter

Bold - Analyte Detected

Blue Shaded - Detected result exceeded screening level

* - Result is likely biased low due to lab handling error of the sample and should be considered an estimate

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

X - Chromatographic pattern does not match fuel standard used for quantitation

PCE - Tetrachloroethene

TCE - Trichloroethene

cDCE - cis-1,2-Dichloroethene

VC - Vinyl Chloride

GRO - Gasoline range organics

DRO - Diesel range organics

ORO - Oil-range organics

VOCs analyzed by EPA Method 8260C. Only contaminants of concern (chlorinated VOCs) are shown on the table. See lab reports for full list of compoun

Table 4. Hydrographs

Project No. 190298, NE 8th and 106th Ave NE, Bellevue, Washington

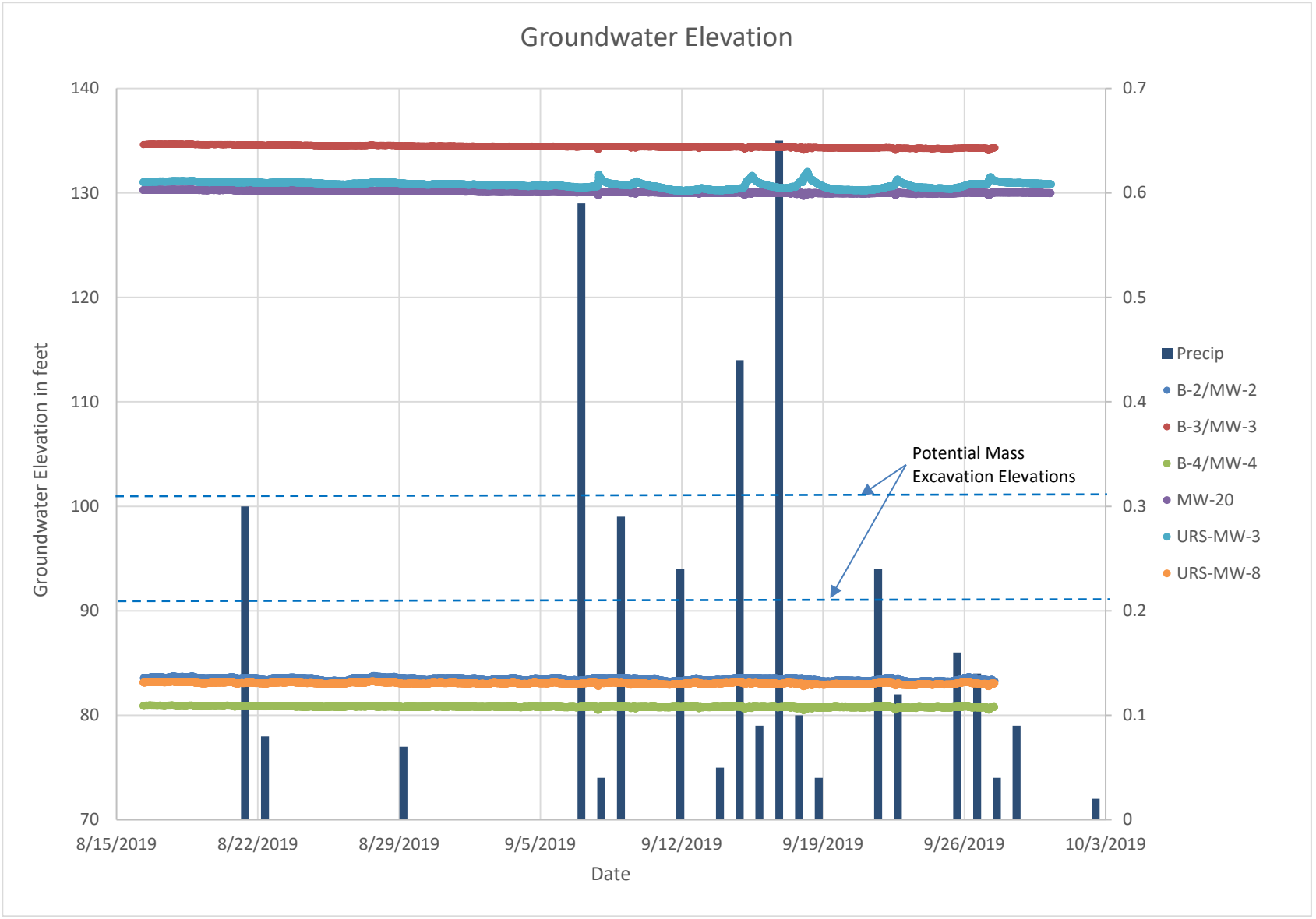


Table 5 - Aquifer Hydraulic Conductivity Estimates from Slug Tests

190298 NE 8th and 106th, Bellevue, Washington

Monitoring Well	B-3/MW-3			URS-MW-1		
Well Depth in Feet	30.0			30.1		
Screen Length in Feet	10.0			10.0		
Depth to Screen in Feet	20.0			20.1		
Depth to Aquitard in Feet	35			35		
Depth to Water in Feet	24.63			26.95		
Depth to Sandpack in Feet	17.0			18.0		
Slug Displacement (Ho) in Feet	0.49	0.69	1.08	0.69	0.60	0.59
Porosity (n)	0.20			0.20		
Radius of Casing (rc) in Feet	0.08			0.08		
Radius of Borehole (rw) in Feet	0.33			0.33		
Saturated Aquifer Thickness (H) in Feet	10.4			8.1		
Saturated Well Thickness (Lw) in Feet	5.4			3.2		
Effective Radius (reff) in Feet	0.167			0.167		
Effective Screen Length (Le) in Feet	5.4			3.2		
Slug Size	1' x1"	1' x1"	3' x1"	1' x1"	1' x1"	1' x1"
Rising/Falling Head Test	Rising	Rising	Rising	Rising	Rising	Rising
Fully Submerged Sandpack	No	No	No	No	No	No
Transiently Exposed Sandpack	Yes	Yes	Yes	Yes	Yes	Yes
Transiently Exposed Screen	Yes	Yes	Yes	Yes	Yes	Yes
Partially Submerged Screen	Yes	Yes	Yes	Yes	Yes	Yes
Bouwer and Rice Analysis Parameters						
Normalized Head at t1 (y1) in Feet	0.18	0.13	0.14	0.15	0.19	0.18
Time - t1 in Seconds	60	61	60	62	66	64
Normalized Head at t2 (y2) in Feet	0.14	0.10	0.12	0.11	0.14	0.13
Time - t2 in Seconds	257	245	261	255	254	261
Le/rw	16.1			9.5		
Calculated K in cm/sec	1.9E-04	2.1E-04	1.4E-04	2.9E-04	2.9E-04	2.7E-04
Calculated K in ft/day	0.5	0.6	0.4	0.8	0.8	0.8
Geometric Mean K in ft/day	0.5			0.8		
Screened Interval Soil Type	Silty Sand			Silty Sand		
Aquifer Geometric Mean K in ft/day	0.6					

Notes

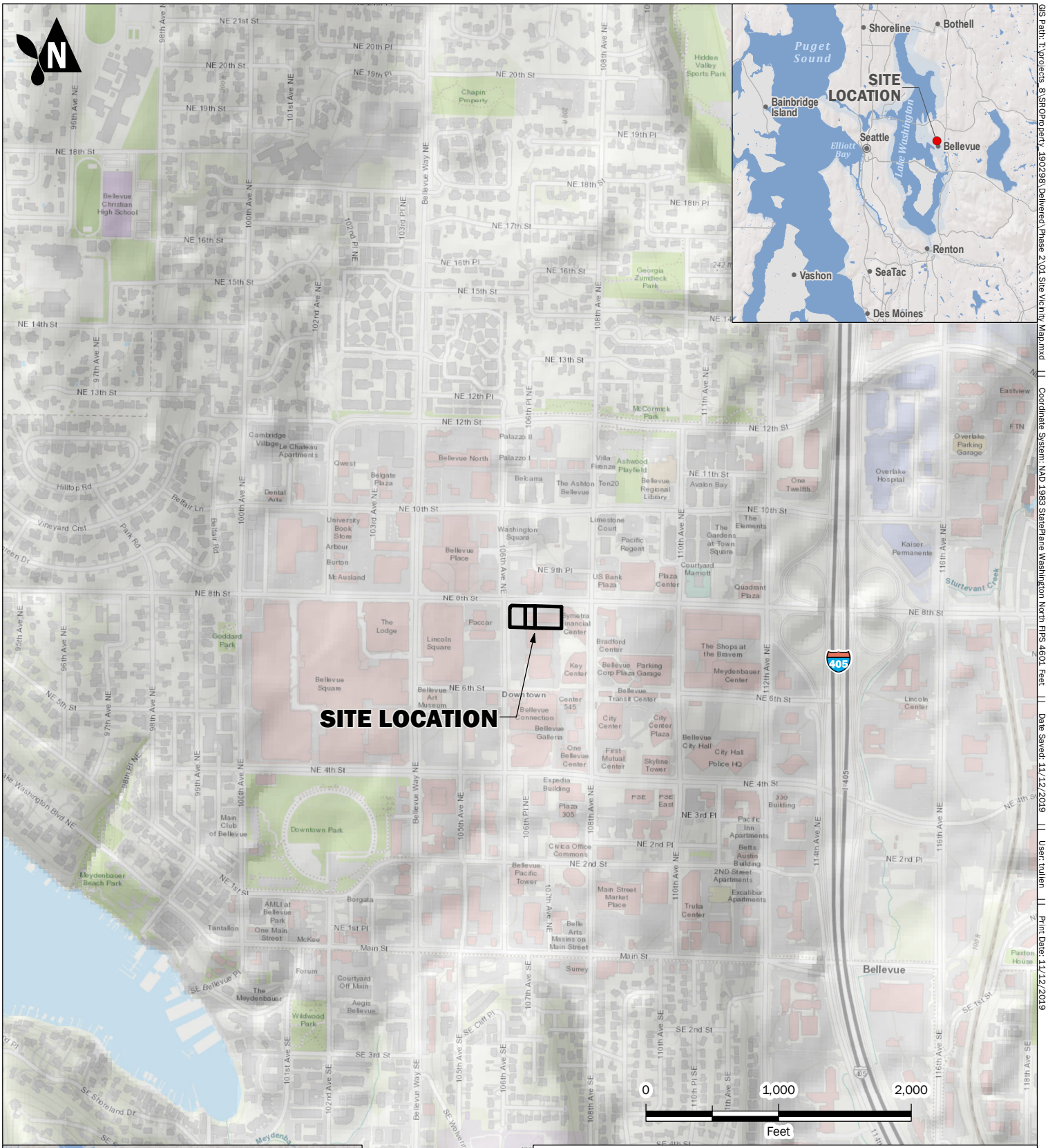
Data analysis by method of Bouwer and Rice (1976; 1989) or Springer-Gelhar (1991).

All depths are below ground surface

[a] The Bouwer and Rice A, B, and C coefficients are calculated using regression equations of Van Rooy (1988).

[b] R_e/r_w is the effective radial distance over which y is dissipated, divided by the radial distance of well development.

FIGURES

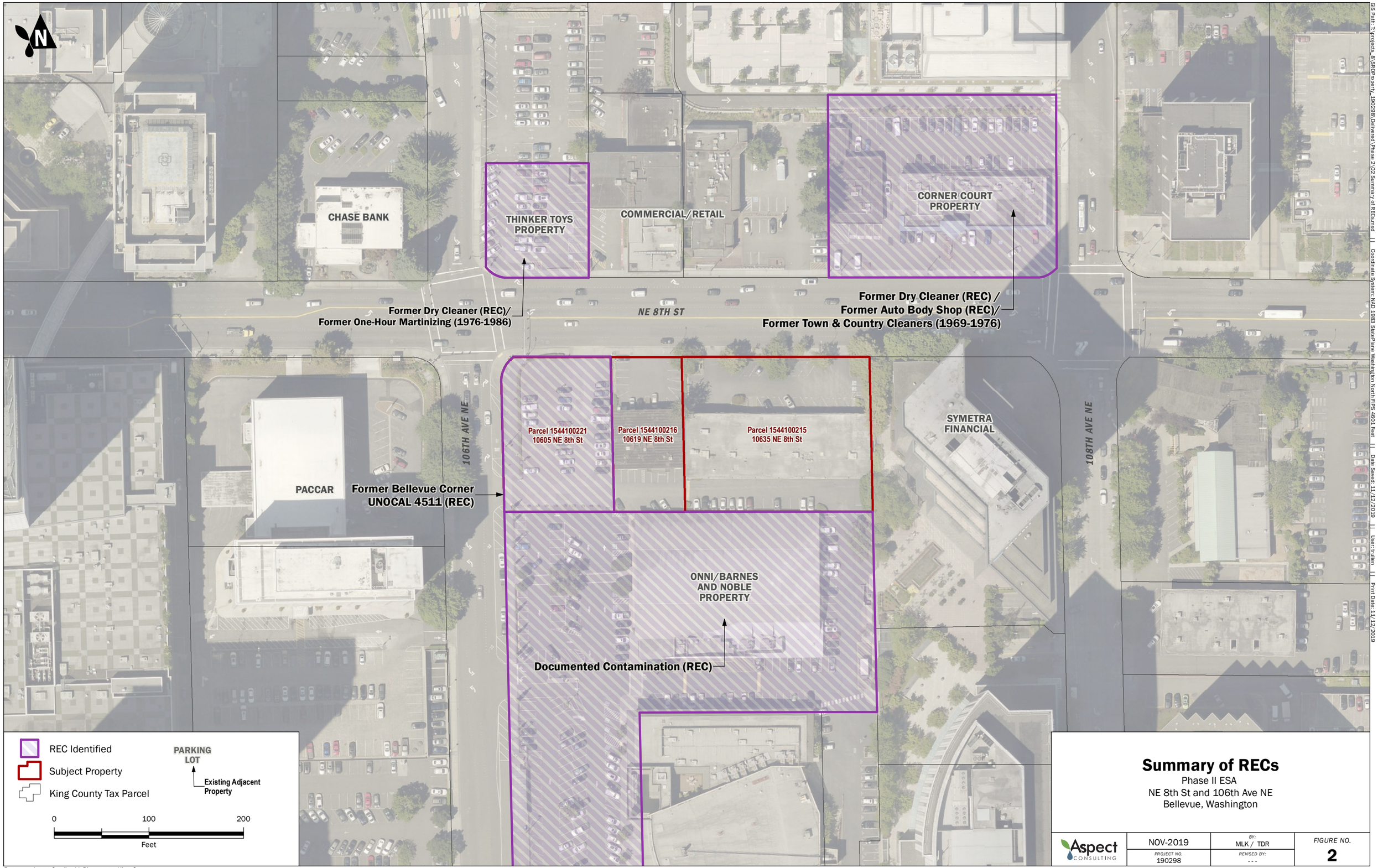


Site Vicinity Map

Phase II ESA
NE 8th St and 106th Ave NE
Bellevue, Washington

Aspect CONSULTING	NOV-2019	BY: MLK / TDR	FIGURE NO. 1
	PROJECT NO. 190298	REVISED BY: ---	

GIS Path: T:\projects_8\SROP\property_190298\Delivered\Phase 2\01 Site Vicinity Map.mxd || Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet || Date Saved: 11/12/2019 || User: trulien || Print Date: 11/12/2019

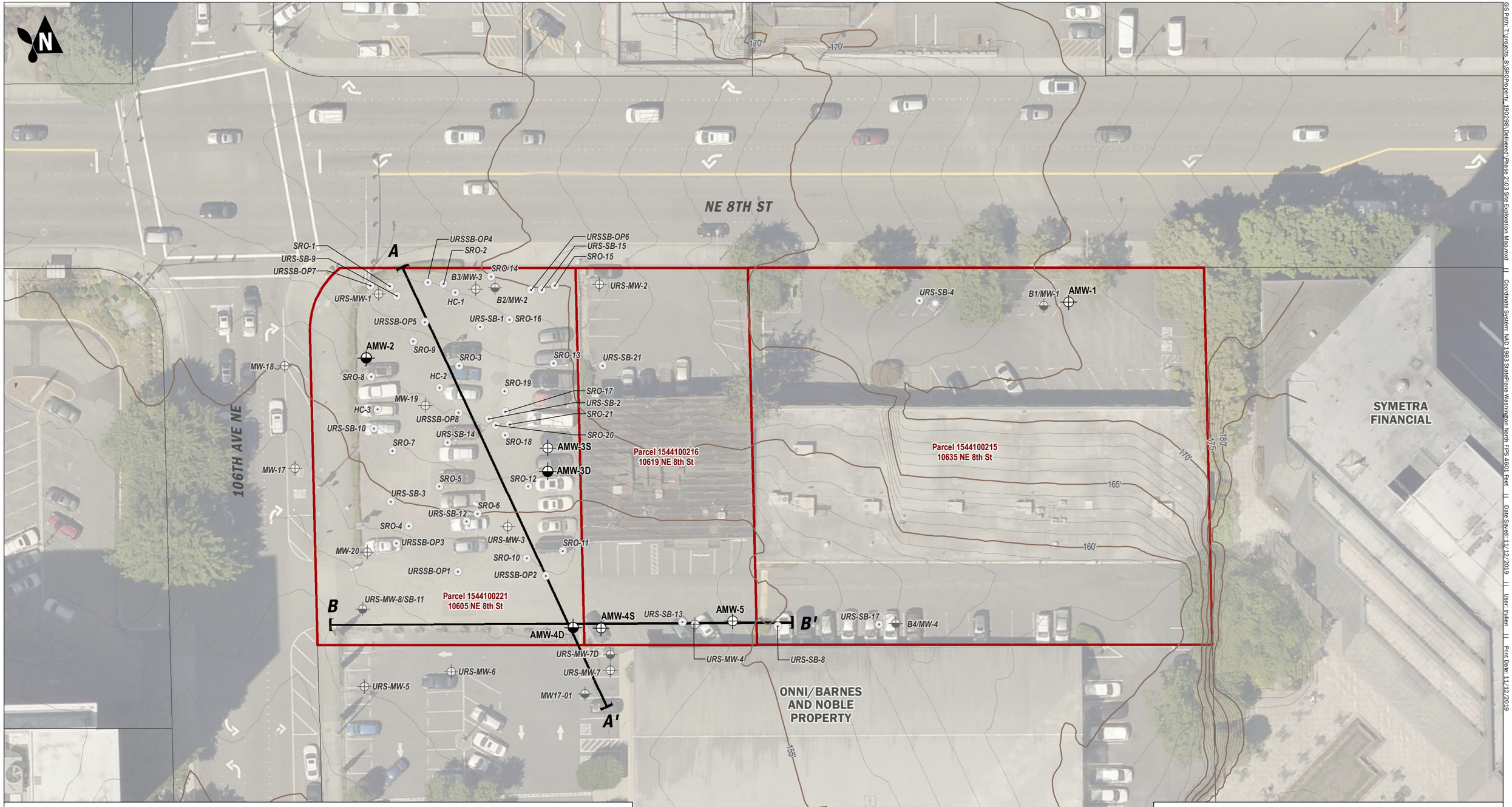


Basemap Layer Credits || *Pictometry, King County*

Summary of RECs

Phase II ESA
NE 8th St and 106th Ave NE
Bellevue, Washington

Aspect CONSULTING	NOV-2019	BY: MLK / TDR	FIGURE NO. 2
	PROJECT NO. 190298	REVISED BY: ---	



- Deep Monitoring Well, Aspect (screened from 70-90 ft bgs)
- Shallow Monitoring Well, Aspect (screened above 45 ft bgs)
- Historical Deep Monitoring Well
- Shallow Historical Monitoring Well
- Historical Soil Boring
- CrossSection
- 5-ft Ground Surface Contour Line
- 1-ft Ground Surface Contour Line
- Subject Property
- King County Tax Parcel

Notes:
1) Site features are approximate.
2) Contour lines created from King County 2016 lidar dataset from DNR Lidar Portal.
3) Historical features were installed by others from 2000 to 2011.

bgs = Below ground surface

0 40
Feet

Site Exploration Plan

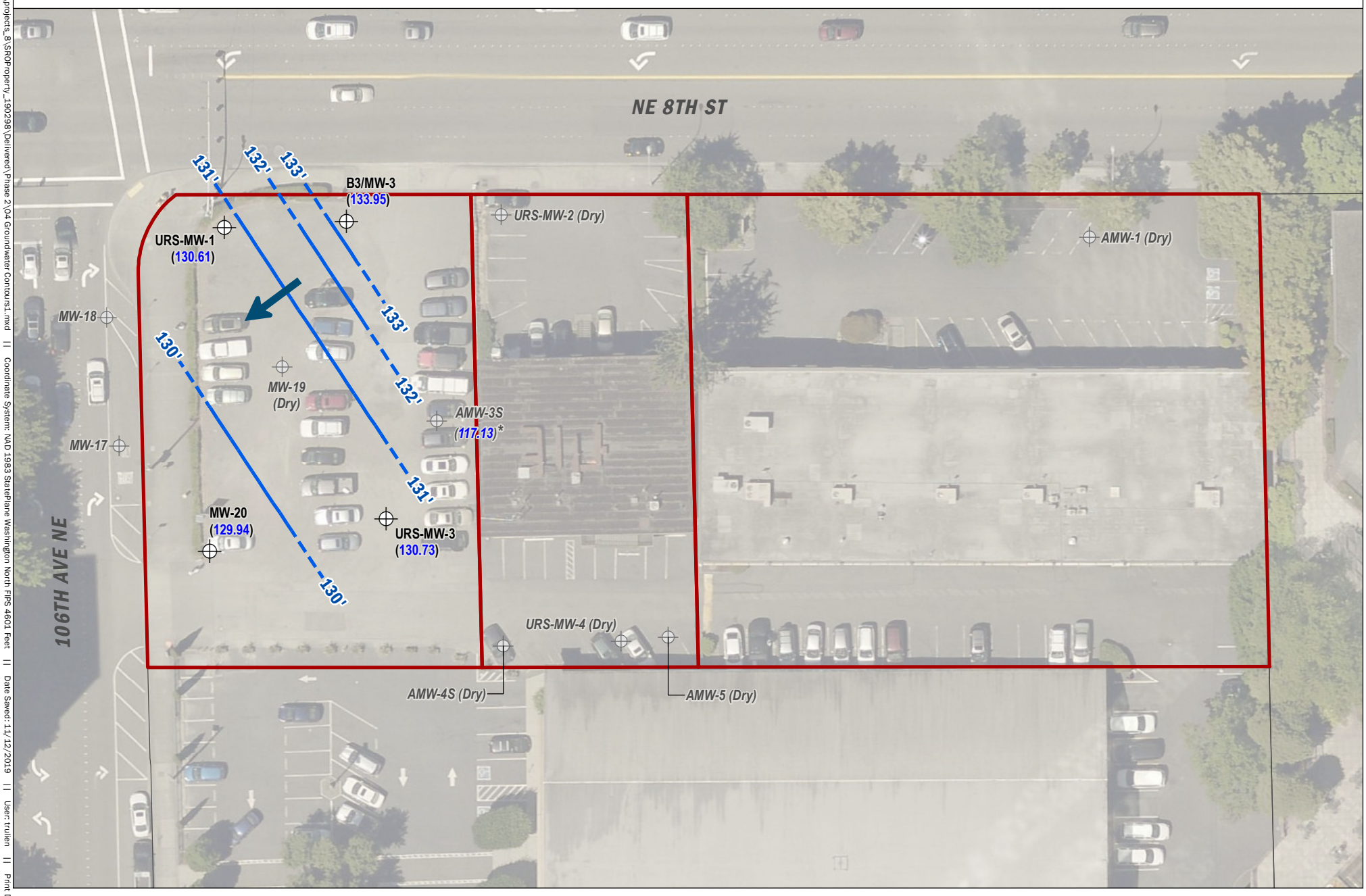
Phase II ESA
NE 8th St and 106th Ave NE
Bellevue, Washington

Aspect CONSULTING	NOV-2019	BY: MLK / TDR	FIGURE NO. 3
	PROJECT NO. 190298	REVISED BY: ---	

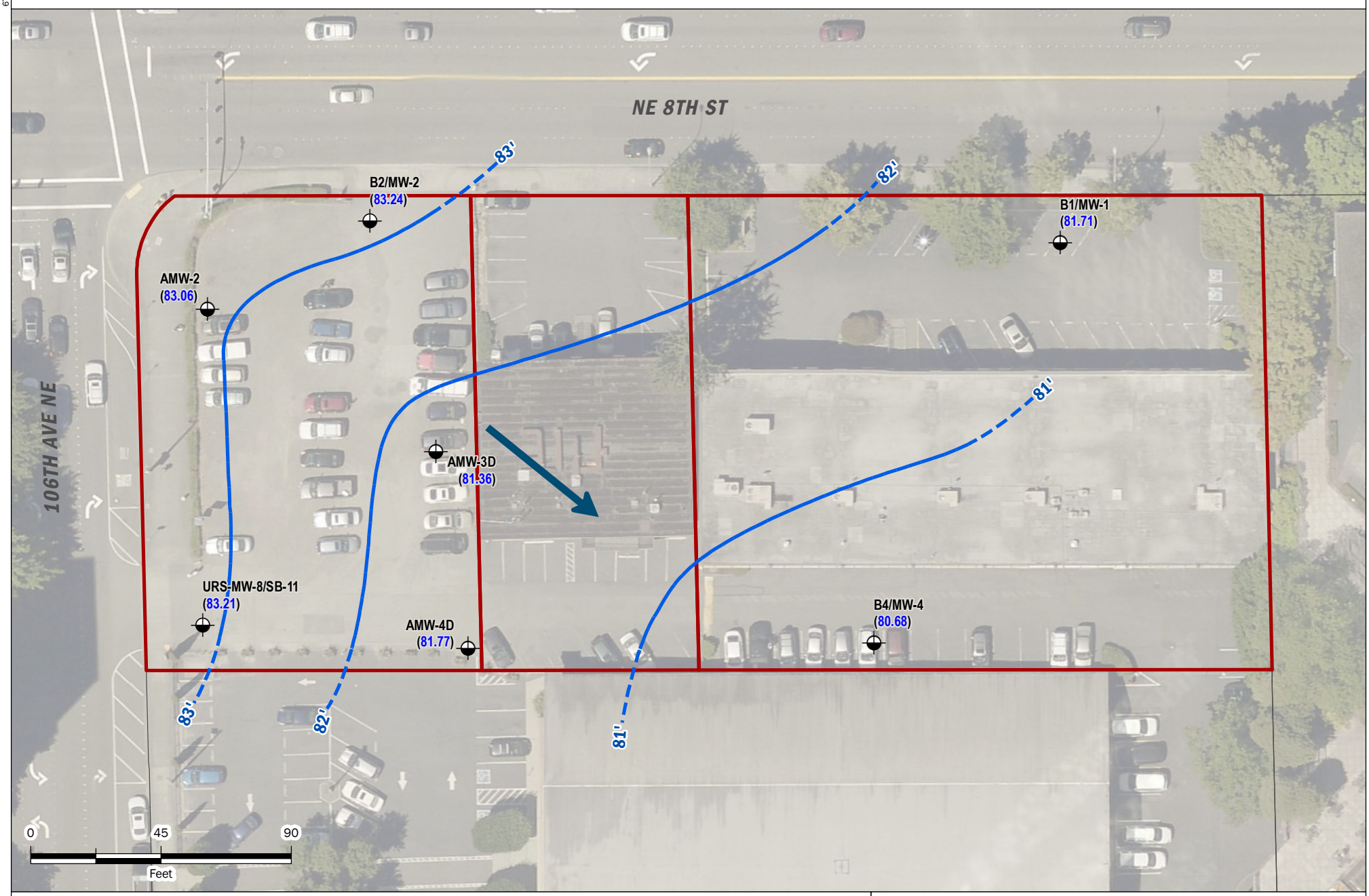
Basemap Layer Credits || Pictometry, King County

GIS Path: T:\projects_8\SRO\Property_190298\Deliverect\Phase 2\03 Site Exploration Map.mxd || Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet || Date Saved: 11/12/2019 || User: tullien || Print Date: 11/12/2019

SHALLOW GROUNDWATER CONTOURS, AUGUST 2019 (134 to 130 FT MSL)



DEEP GROUNDWATER CONTOURS, AUGUST 2019 (83 to 80 FT MSL)



Shallow Monitoring Well
Deep Monitoring Well
Shallow Monitoring Well Not Sampled in August 2019
Interpreted Groundwater Flow Direction
Groundwater Contour Line (dashed where inferred)
Subject Property
King County Tax Parcel

Exploration name
B4/MW-4
(80.84)
Groundwater Elevation (msl)

Notes:
1) Site features are approximate.
*Groundwater elevation not used in contour interpretation.

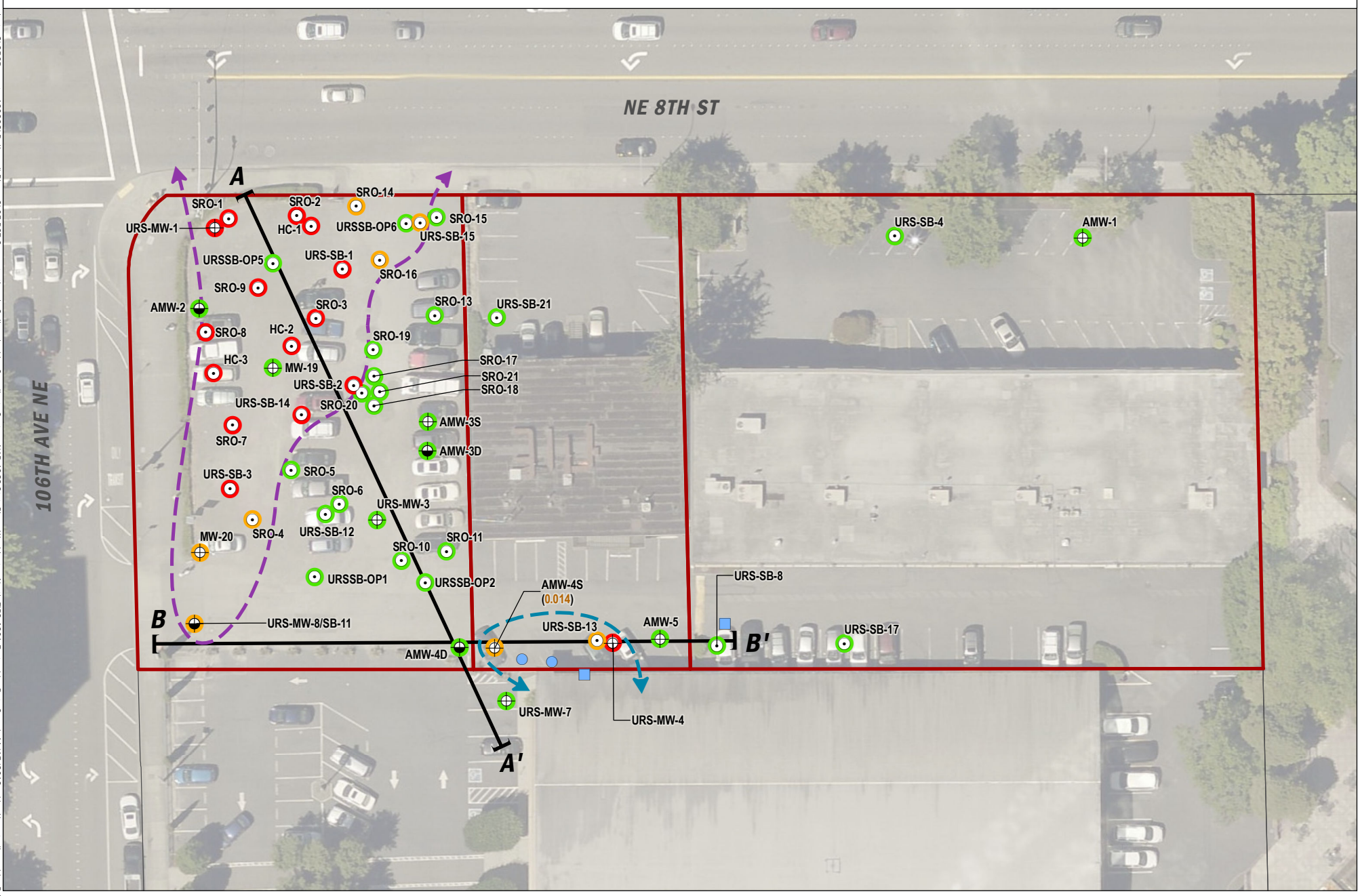
msl = Mean sea level

Groundwater Contour Map

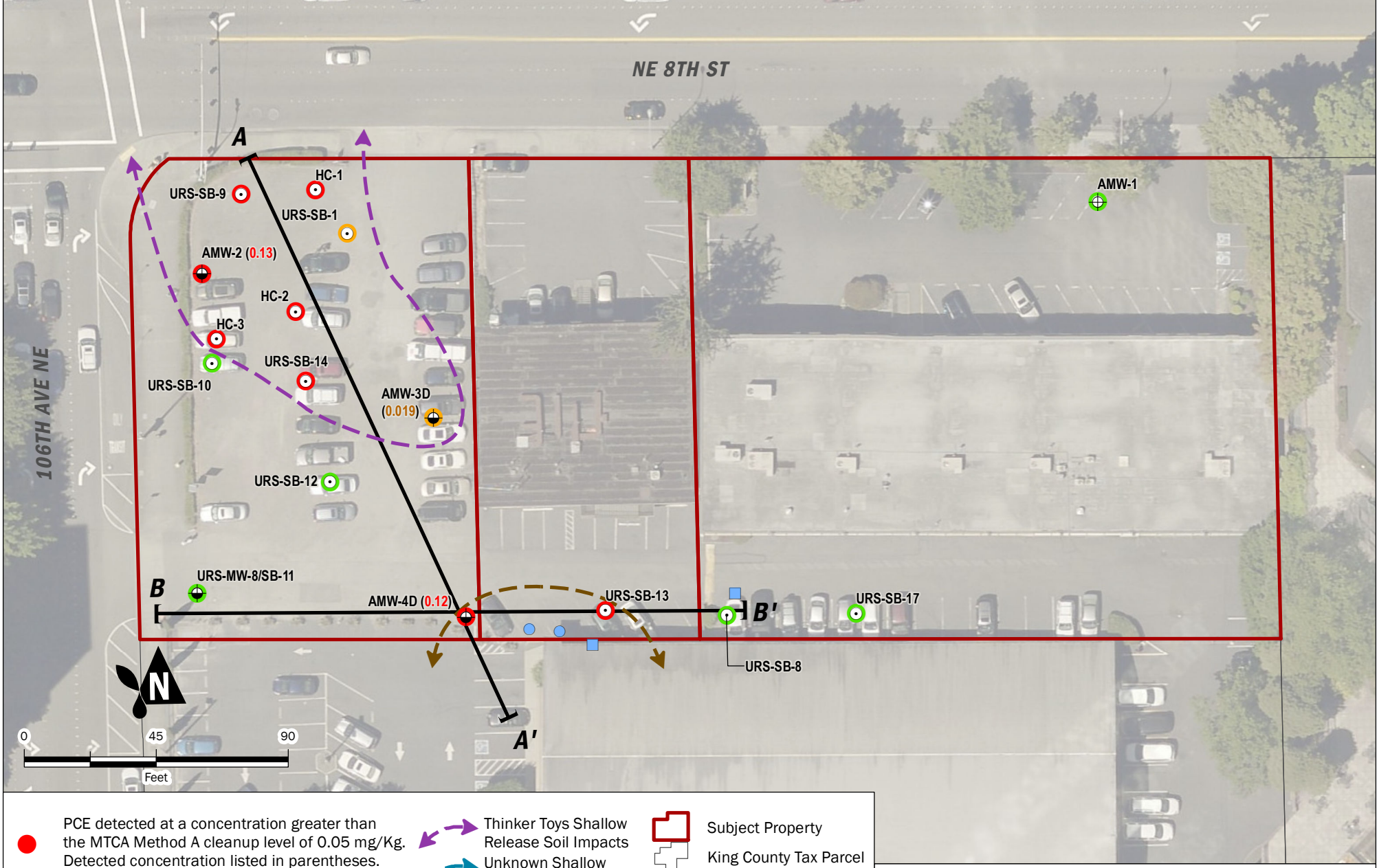
Phase II ESA
NE 8th St and 106th Ave NE
Bellevue, Washington

Aspect Consulting	NOV-2019	BY: MLK / TDR	FIGURE NO. 4
	PROJECT NO. 190298	REVISED BY: ---	

PCE IN SHALLOW SOIL (0 TO 40 FT BGS)



PCE IN DEEP SOIL (>40 FT BGS)



PCE detected at a concentration greater than the MTCA Method A cleanup level of 0.05 mg/Kg. Detected concentration listed in parentheses.

PCE detected at a concentration less than the MTCA Method A cleanup level of 0.05 mg/Kg. Detected concentration listed in parentheses.

PCE not detected.

Monitoring Well

Deep Monitoring Well

Soil Boring

Thinker Toys Shallow Release Soil Impacts

Unknown Shallow Release Soil Impacts

Unknown Deep Release Soil Impacts

Catch Basin

Manhole

Cross Section

Subject Property

King County Tax Parcel

Exploration name → AMW-4D (0.12) ← PCE concentration in mg/Kg

Notes:
1) Site features are approximate.
2) Concentrations are only listed for Aspect monitoring wells.

PCE = Tetrachloroethene
mg/Kg = Milligrams per kilogram
bgs = Below ground surface
J = Result value estimated

PCE Concentrations in Soil

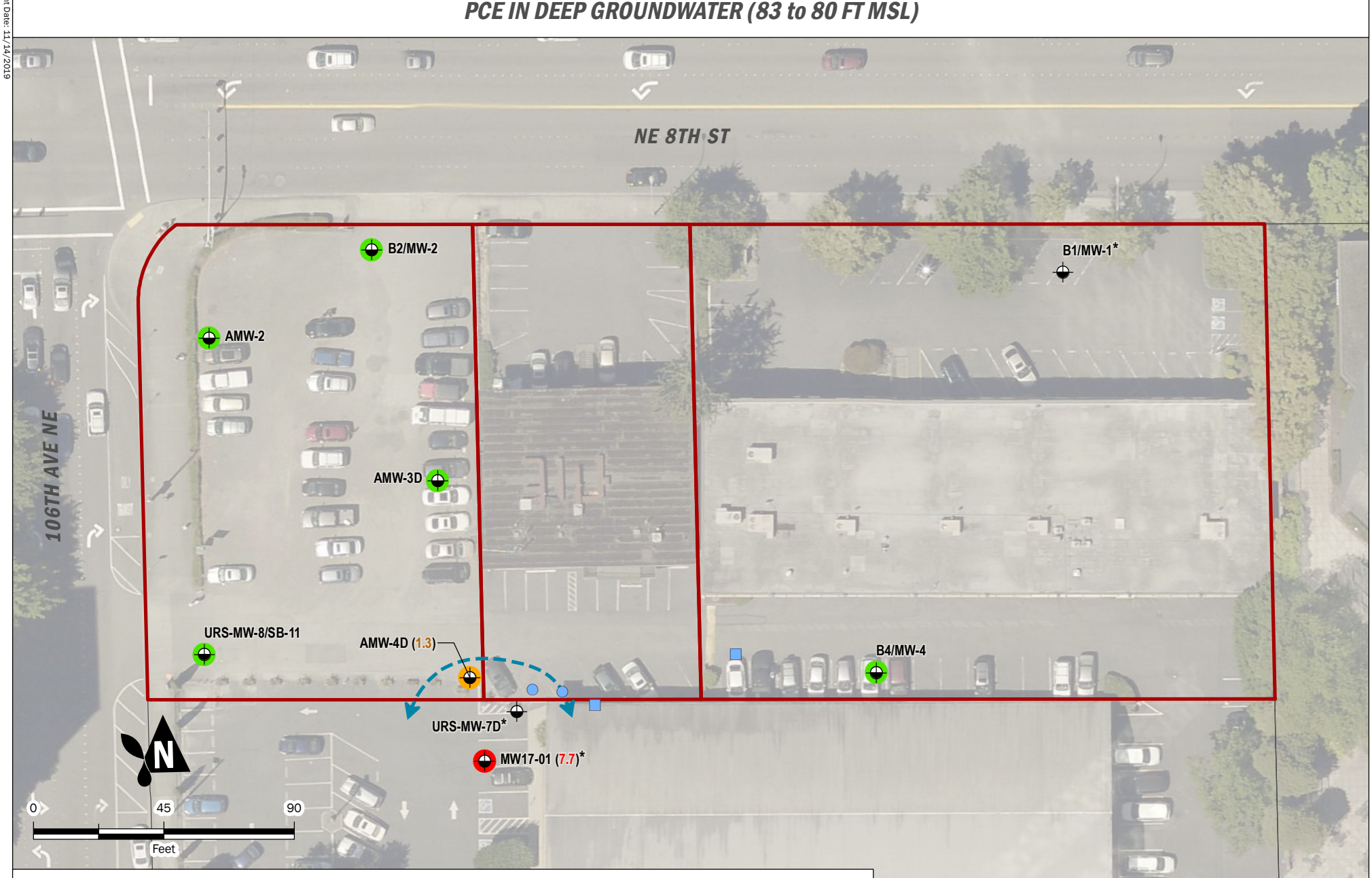
Phase II ESA
NE 8th St and 106th Ave NE
Bellevue, Washington

Aspect Consulting	NOV-2019	BY: MLK / TDR	FIGURE NO. 5
	PROJECT NO. 190298	REVISED BY: ---	

Basemap Layer Credits || Pictometry, King County

PCE IN SHALLOW GROUNDWATER (134 to 130 FT MSL)

PCE IN DEEP GROUNDWATER (83 to 80 FT MSL)



- PCE detected at a concentration greater than the MTCA Method A cleanup level of 5 ug/L. Detected concentration listed in parentheses.
- PCE detected at a concentration less than the MTCA Method A cleanup level of 5 ug/L. Detected concentration listed in parentheses.
- PCE not detected.
- Dry monitoring well during all monitoring events.
- Monitoring Well
- Deep Monitoring Well
- Thinker Toys Release Groundwater Plume
- Unknown Release Groundwater Plume
- Catch Basin
- Manhole
- Subject Property
- King County Tax Parcel

Exploration name — MW-19 (31) — PCE concentration in mg/Kg

Notes:
1) Site features are approximate.
2) All monitoring wells without a colored dot beneath it was not sampled.
*This well was not sampled by Aspect in 2019. Halo reflects historical data.

PCE = Tetrachloroethene
bgs = Below ground surface
ug/L = Micrograms per liter
msl = Mean sea level

PCE Concentrations in Groundwater

Phase II ESA
NE 8th St and 106th Ave NE
Bellevue, Washington

Aspect Consulting	NOV-2019	BY: MLK / TDR	FIGURE NO. 6
	PROJECT NO. 190298	REVISED BY: ---	

A — Northwest

A' — Southeast

Historical UST Removal Excavation

Subject Property

Intersection with B-B'

Manhole

Manhole

Catch Basin

Catch Basins and Manholes Observed Near Shallow Impacted Area

URS-SB-9 (Offset 7' NW)
SRO-2 (Offset 13' E)
HC-1 (Offset 16' E)
AMW-2D (Offset 31' W)
SRO-9 (Offset 9' W)
URS-SB-1 (Offset 19' E)
SRO-8 (Offset 32' W)
SRO-3 (Offset 4' E)
HC-3 (Offset 36' W)
HC-2 (Offset 8' W)
URS-SB-2 (Offset 6' E)
URS-SB-14 (Offset 15' W)
AMW-3S (Offset 24' E)
AMW-3D (Offset 19' E)
SRO-12 (Offset 9' E)
URS-SB-12 (Offset 22' W)
URS-MW-3 (Offset 6' W)
SRO-10 (Offset 4' W)
SRO-11 (Offset 11' E)
AMW-4D (Offset 0')
AMW-4S (Offset 11' E)
URS-SB-13 (Offset 44' E)
URS-MW-4 (Offset 27' E)
URS-MW-7[1] (Offset 7' E)
MW17-01[1] (Offset 28' W)

Fill

Glacial Till (SM to SP-SM to ML)

1.3

ND

ND

ND

21

7.7

Potential Mass Excavation Elevations

Elevation in Feet

180
165
150
135
120
105
90
75
60
45

0
20
40
60
80
100
120
140
160
180
200
210

Distance in Feet

Legend

(Offset 19' E) — Offset Distance and Direction from Profile

AMW-3D — Boring Identification

Analytical Sample Location

Water Level at Time of Drilling

7/31/18 — Water Level and Date Measured

21 — Screened Interval

PCE Groundwater Concentration in µg/L. Red represents concentrations that exceed the MTCA cleanup level.[2]

[1] Explorations are located on the southeast-adjoining Barnes and Noble Property

[2] See Figure 6 and Table 3 for Details

Estimated Geologic Contact

Inferred Groundwater Level

Glacial Till with Higher Sand Content Observed

Thinker Toys Release Soil Impacts

Unknown Shallow Release Soil Impacts

Unknown Deep Release Soil Impacts

Catch Basin

Manhole

Analytical Results

One or more of contaminants of concern detected at a concentration greater than the MTCA Method A cleanup level.

One or more of contaminants of concern detected at a concentration less than the MTCA Method A cleanup level.

Contaminants of concern not detected.

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 15'
Vertical Exaggeration 1.33x

0 20 40 Feet

Cross Section A-A'

Phase II ESA
NE 8th Street and 106th Avenue NE
Bellevue, Washington

Aspect Consulting	Nov-2019	BY: MLK/SCC	FIGURE NO. 7
	PROJECT NO. 190298	REVISED BY: -	

B West — **B'** East

Intersection with A-A' | Manhole | Manhole | Catch Basin

Subject Property

Catch Basins and Manholes Observed Near Shallow Impacted Area

URS-SB-11/MW-8 (Offset 7' N) | AMW-4D (Offset 2' S) | MW17-01[1] (Offset 31' S) | AMW-4S (Offset 2' S) | URS-MW-7[1] (Offset 21' S) | URS-SB-13 (Offset 0') | URS-MW-4 (Offset 1' S) | AMW-5 (Offset 1' N) | URS-SB-8 (Offset 2' S)

Fill

Glacial Till (SM to SP-SM to ML)

21

7.7

ND

Potential Mass Excavation Elevations

Elevation in Feet: 180, 165, 150, 135, 120, 105, 90, 75, 60, 45

Distance in Feet: 0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200

Legend

- (Offset 19' E) AMW-3D — Offset Distance and Direction from Profile
- Boring Identification
- Analytical Sample Location
- Water Level at Time of Drilling
- 7/31/18 — Water Level and Date Measured
- 21 — Screened Interval
- PCE Groundwater Concentration in µg/L. Red represents concentrations that exceed the MTCA cleanup level.[2]

[1] Explorations are located on the southeast-adjoining Barnes and Noble Property
[2] See Figure 6 and Table 3 for Details

- Estimated Geologic Contact
- Inferred Groundwater Level
- Glacial Till with Higher Sand Content Observed
- Thinker Toys Release Soil Impacts
- Unknown Shallow Release Soil Impacts
- Unknown Deep Release Soil Impacts
- Catch Basin
- Manhole

Analytical Results

- One or more of contaminants of concern detected at a concentration greater than the MTCA Method A cleanup level.
- One or more of contaminants of concern detected at a concentration less than the MTCA Method A cleanup level.
- Contaminants of concern not detected.

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 15'
Vertical Exaggeration 1.33x

0 — 20 — 40 Feet

Cross Section B-B'

Phase II ESA
NE 8th Street and 106th Avenue NE
Bellevue, Washington

Aspect Consulting	Nov-2019	BY: MLK/SCC	FIGURE NO. 8
	PROJECT NO. 190298	REVISED BY: -	

CAD Path: Q:\Schnitzer West\190298 SRO Property\2019-10 Phase II ESA\190298 BB.dwg 11x17 Landscape || Date Saved: Nov 15, 2019 12:28pm || User: scudd

APPENDIX A

Historical Analytical Data Tables

Table 1

Monitoring Well Groundwater Elevation Data, 2008 - 2011

Sterling Realty Organization Property at 10605 and 10619 NE 8th Street
Bellevue, Washington

SRO Property Well ID	Well Screen Interval (feet, bgs)	Top of Casing Elevation (feet above datum)	Well Screen Elevation (feet above datum)	Groundwater Depth (feet, bgs)										Groundwater Elevation (feet, msl)									
				6/26/08	7/7/08	9/10/08	11/21/08	3/16/10	3/17/10	5/3/10	8/23/10	10/19/11	10/21/11	6/26/08	7/7/08	9/10/08	11/21/08	3/16/10	3/17/10	5/3/10	8/23/10	10/19/2011	10/21/2011
URS-MW-1	20-30	157.87	137.87 - 127.87	NM	NM	26.41	27.21	22.50	22.66	22.49	22.95	NM	24.53	NM	NM	131.46	130.66	135.37	135.21	135.38	134.92	NM	133.34
URS-MW-2	20-30	160.22	140.22 - 130.22	NM	NM	Dry	Dry	24.64	25.05	24.45	25.89	NM	28.61	NM	NM	Dry	Dry	135.58	135.17	135.77	134.33	NM	131.61
URS-MW-3	20-30	153.98	133.98 - 123.98	NM	NM	27.36	28.75	22.28	22.54	22.40	23.24	NM	25.52	NM	NM	126.62	125.23	131.70	131.44	131.58	NM	NM	128.46
URS-MW-4	20-30	152.99	132.99 - 122.99	NM	NM	Dry	Dry	NM	29.87	29.85	30.08	NM	29.89	NM	NM	Dry	Dry	NM	123.12	123.14	122.91	NM	123.10
URS-MW-8	70-80	152.35	82.35 - 72.35	NM	NM	NM	NM	NM	NM	NM	NM	68.62	68.40	NM	NM	NM	NM	NM	NM	NM	NM	83.73	83.95
B1/MW-1	70-90	169.63	99.63 - 79.63	NM	NM	NM	NM	90.77	92.81	NM	NM	NM	85.49	NM	NM	NM	NM	78.86	76.82	NM	NM	NM	84.14
B2/MW-2	70-90	159.02	89.02 - 69.02	74.30	74.62	NM	74.95	75.90	75.97	75.69	75.50	NM	73.15	84.72	84.40	NM	84.07	83.12	83.05	83.33	83.52	NM	85.87
B3/MW-3	20-30	158.89	138.89 - 128.89	23.89	23.93	24.68	28.93	23.45	23.40	23.43	23.70	NM	23.79	135	134.96	134.21	129.96	135.44	135.49	135.46	135.19	NM	135.10
B4/MW-4	70-90	157.06	87.06-67.06	82.31	82.29	NM	79.30	76.58	76.58	76.60	76.61	NM	75.12	123.14	122.91	NM	77.76	80.48	80.48	80.46	80.45	NM	81.94
MW-19	10-30	156.31	146.31-126.31	NM	NM	NM	NM	NM	NM	NM	27.21	NM	29.18	NM	NM	NM	NM	NM	NM	NM	129.10	NM	127.13
MW-20	15-30	152.63	137.63 - 122.63	NM	NM	NM	NM	NM	NM	NM	21.93	NM	23.40	NM	NM	NM	NM	NM	NM	NM	130.70	NM	129.23
Data Source	Farallon[1]	Farallon[1]	Farallon[1]	Farallon[1]	Farallon[1]	URS[2]	URS[2]	URS[2]	URS[2]	Farallon[1]	Farallon[1]	URS[2]	URS[2]	Farallon[1]	Farallon[1]	URS[2]	URS[2]	URS[2]	URS[2]	Farallon[1]	Farallon[1]	URS[2]	URS[2]

Notes:

[1]As reported (SES, 2011)

[2]As reported (URS, 2011B)

bgs = below ground surface

msl = mean sea level

NM = not measured

Vertical datum based on City of Bellevue - NAVD 88

Wells labeled "URS" were completed by URS Corporation.

Wells B1/MW-1, B2/MW-2, B3/MW-3, and B4/MW-4 were completed by Terra Associates.

Wells MW-19 and MW-20 were completed by Farallon.

May 3, 2010 groundwater elevations in perched zone are shown on Figure 7.

Table 2

1990 Soil and Groundwater Data, Preliminary Environmental Site Assessment, Unocal Station Number 4511

Sterling Realty Organization Property at 10605 and 10619 NE 8th Street
Bellevue, Washington

Soil Quality Data[1]									
Boring Number	Sample Number	Depth Collected	Benzene[2]	Toluene[2]	Ethyl-Benzene[2]	Total Xylenes[2]	TPH[3]	Purgeable Halogenated Volatile Organics[4]	Sample Jar Headspace Organic Vapor Concentrations[5]
		(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(ppm)
MW-1	MW-1, S-2	7.5	< 0.050	< 0.050	< 0.050	< 0.050	**7.5**	NA	25.2
MW-2	MW-2, S-1	2.5	< 0.050	< 0.050	< 0.050	**0.090**	**810**	NA	28
MW-2	MW-2, S-2	7.5	< 0.050	< 0.050	< 0.050	**0.240**	**203**	NA	20
MW-3	MW-3, S-1	2.5	< 0.050	< 0.050	< 0.050	**0.900**	**87.9**	NA	22
MW-4	MW-4, S-2	7.5	< 0.050	< 0.050	< 0.050	< 0.050	**65.3**	NA	169
MW-5	MW-5, S-2	7.5	< 0.050	< 0.050	< 0.050	< 0.050	**95.0**	< 0.05	255
MTCA Method A Cleaunup Level			**0.03**	**7**	**6**	**9**	**2,000**	**See Table 3**	**--**

Water Quality Data[6]							
Boring Well/ Number	Sample Number	Benzene[7]	Toluene[7]	Ethyl-Benzene[7]	Total Xylenes[7]	TPH[3]	Well Headspace Organic Vapor Concentrations[5]
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ppm)
MW-1	U4511-79-1	< 1	< 1	< 1	< 1	< 1,000	NA[8]
MW-2	U4511-79-2	< 1	< 1	< 1	< 1	< 1,000	
MW-3	U4511-79-3	**3**	< 1	**15**	**14**	< 1,000	
MW-4	U4511-79-4	< 1	< 1	< 1	< 1	< 1,000	
MW-5	Not sampled	--	--	--	--	--	
MTCA Method A Cleaunup Level		**5**	**1,000**	**700**	**1,000**	**500**	**--**

Notes:

[1]Soil samples collected July 12, 13, and 17, 1990 by Sweet-Edwards/EMCON, Inc. Analyses by Sound Analytical, Tacoma, Washington.

[2]Analysis by EPA Method 8020.

[3]TPH = Total Petroleum Hydrocarbons, EPA Method 418.1.

[4]Analysis by EPA Method 8010.

[5]Volatile organic vapor concentrations measured with a photoionization detector (Photovac MP-100 microtip) calibrated to 100 ppm isobutylene. Background reading = < 1 ppm.

[6]Water samples collected July 31, 1990 by Sweet-Edwards/EMCON, Inc. Analyses by Sound Analytical, Tacoma, Washington.

[7]Analysis by EPA Method 8020.

[8]Due to high water vapor (moisture) concentrations in the wellheads, PID measurements were not obtained.

< = Analyte Not Detected at or above the Method Reporting Limit
ft bgs = feet below the ground surface
mg/kg = milligrams per kilogram
MTCA = Model Toxics Cleanup Act
NA = Not Analyzed
ppm = parts per million
µg/L = micrograms per liter
Bolded value indicates analyte detected at the listed concentration.

Table 3

1991-1992 Soil Analytical Data, Underground Storage Tank Closure Assessment, Unocal Station Number 4511

Sterling Realty Organization Property at 10605 and 10619 NE 8th Street
Bellevue, Washington

Sample ID	Date Collected	Benzene[1]	Toluene[1]	Ethyl-benzene[1]	Total Xylenes[1]	TPH as Gasoline[2]	TPH as Diesel[3]	TPH as Other[3]	TPH[4]	Total Lead[5]	Total PCBs[7]	Benzo(a) pyrene[8]	PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Acetone	Methylene Chloride	Sampling Location
													(VOCs)[9]									
		(mg/kg)																				
GTW-N1 Comp.	6/19/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	N wall gas tank excavation
GTW-S1 Comp.	6/19/1991	< 0.05	< 0.1	< 0.1	**0.3**	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	S wall gas tank excavation
GTW-E1 Comp.	6/19/1991	< 0.05	**0.3**	**0.5**	**4.7**	**101**	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	E wall gas tank excavation
GTW-W1 Comp.	6/19/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	W wall gas tank excavation
GTF-TA	6/19/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	below east tank fill
GTF-TB	6/19/1991	< 0.05	**0.2**	< 0.1	**0.2**	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	below west tank fill
ET-1	6/19/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	E product line trench
ST-1	6/19/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	S product line trench
NPI-1	6/20/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	--	< 3	--	--	--	--	--	--	--	--	--	--	--	below N pump island
NUHOW-1	6/20/1991	--	--	--	--	< 10	< 10	**17,400**	**35,400**	--	--	--	--	--	--	--	--	--	--	--	--	N wall HO/WO tank excavation
EUHOW-1	6/20/1991	ND[11]	ND[11]	ND[11]	ND[11]	< 10	< 10	< 40	**26**	--	--	--	--	--	--	--	--	--	--	--	--	E wall HO/WO tank excavation
W/SUHOW-1	6/20/1991	--	--	--	--	< 10	< 10	< 40	**90**	--	--	--	--	--	--	--	--	--	--	--	--	Comp. W,S walls HO/WO exc.
UOF-1[10]	6/20/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	< 10	< 40	< 25	--	< 1	--	--	--	--	--	--	--	--	--	--	below WO tank fill
UOF-2[10]	6/20/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	< 10	< 40	**90**	--	< 1	--	--	--	--	--	--	--	--	--	--	below WO tank fill - duplicate
HOF-1[10]	6/20/1991	ND[11]	ND[11]	ND[11]	ND[11]	< 10	< 10	< 40	< 25	--	--	--	--	--	--	--	--	--	--	--	--	below HO tank fill
DW-1[10]	6/20/1991	< 0.05	< 0.05	**0.12**	**2.08**	**1,940**	< 10	< 40	**1,260**	--	< 1	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.5	< 1	< 0.5	W wall dry well excavation
DW-2[10]	6/20/1991	< 0.05	< 0.05	< 0.05	**1.45**	**2,050**	< 10	< 40	**1,690**	--	< 1	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.5	< 1	< 0.5	base of dry well excavation
GTW-E2A	6/26/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	< 25	--	--	--	--	--	--	--	--	--	--	--	--	N end of E wall g.t. excavation
GTW-E2B	6/26/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	< 25	--	--	--	--	--	--	--	--	--	--	--	--	S end of E wall g.t. excavation
TP-1A	6/26/1991	<0.005	<0.005	<0.005	0.0072	< 10	< 10	< 40	< 25	--	--	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.082**	**0.022**	test pit S of dry well excav.
TP-1B	6/26/1991	<0.005	<0.005	<0.005	<0.005	< 10	< 10	< 40	< 25	--	--	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.058**	**0.023**	test pit S of dry well excav.
TP-2A	6/26/1991	<0.005	<0.005	<0.005	<0.005	< 10	< 10	< 40	< 25	--	--	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.061**	**0.019**	test pit SW of dry well excav.
TP-3A	6/26/1991	< 0.05	< 0.1	< 0.1	**0.1**	**17**	--	--	< 25	--	--	--	--	--	--	--	--	--	--	--	--	near SW corner of building
TP-3B	6/26/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	**32**	--	--	--	--	--	--	--	--	--	--	--	--	near SW corner of building
TP-4A	6/26/1991	< 0.05	**0.3**	**6.3**	**30.7**	**740**	--	--	**363**	--	--	--	--	--	--	--	--	--	--	--	--	W end of former tank complex
TP-5A	6/26/1991	< 0.05	< 0.1	< 0.1	**0.3**	< 5	--	--	< 25	--	--	--	--	--	--	--	--	--	--	--	--	N of NW corner of building
TP-5B	6/26/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	< 25	--	--	--	--	--	--	--	--	--	--	--	--	N of NW corner of building
TP-6A	6/26/1991	< 0.05	< 0.1	**0.3**	**3.0**	**25**	--	--	**86**	--	--	--	--	--	--	--	--	--	--	--	--	between N pump islands
TP-6B	6/26/1991	< 0.05	< 0.1	< 0.1	< 0.1	< 5	--	--	**74**	--	--	--	--	--	--	--	--	--	--	--	--	between N pump islands
U/D-SS-1[10]	6/26/1991	< 0.014	< 0.014	< 0.014	**0.029**	**77**	< 10	**154**	**431**	--	< 1	--	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	< 0.136	**0.055**	stockpile sample
SS-1C	6/27/1991	**0.20**	**7.8**	**5.2**	**55.4**	**996**	--	--	**616**	**6**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
SS-2C	6/27/1991	< 0.05	**0.4**	**0.3**	**10**	**174**	--	--	**307**	**12**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #1	8/8/1991	< 0.05	< 0.05	< 0.05	**0.06**	< 1	--	--	--	**7**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #2	8/8/1991	**0.10**	**0.63**	**2.16**	**18.7**	**406**	--	--	--	**5**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #3	8/8/1991	< 0.05	< 0.05	< 0.05	**0.20**	**5**	--	--	--	**5**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #4	8/8/1991	**5.08**	**110**	**20.2**	**239**	**3,260**	--	--	--	**6**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #5	8/8/1991	< 0.05	< 0.05	**0.16**	**0.61**	**130**	--	--	--	**7**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #6	8/8/1991	**0.24**	**4.07**	**4.50**	**33.1**	**436**	--	--	--	**8**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #7	8/8/1991	< 0.05	**2.35**	**3.56**	**35.9**	**1,350**	--	--	--	**8**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
STOCKPILE #8	8/8/1991	< 0.05	< 0.05	< 0.05	**0.06**	**23**	--	--	--	**5**	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
HYD-1	8/16/1991	< 0.005	< 0.005	< 0.005	< 0.005	< 10	< 10	< 40	< 25	--	--	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.01	base of hoist #1 (alignment)
HYD-2	8/16/1991	< 0.5	< 0.5	**0.8**	**9.0**	**394**	< 10	**261**	**495**	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 10	< 5	sidewall of hoist excavation
HYD-3A	8/19/1991	< 0.005	< 0.005	< 0.005	< 0.005	< 10	< 10	< 40	< 25	--	--	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.01	below E hoist (alignment)
HYD-3B	8/19/1991	< 0.005	< 0.005	< 0.005	< 0.005	< 10	< 10	< 40	< 25	--	--	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	**0.014**	below E hoist (alignment)
HYD-4	8/19/1991	**1.44**	**18.8**	**5.21**	**23.8**	**162**	< 10	**26,700**	**61,200**	--	--	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.5	< 1	< 0.5	below middle hoist
HYD-4B	8/19/1991	< 0.5	< 0.5	**1.0**	**8.6**	**899**	< 10	**326**	**1,450**	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 10	< 5	below middle hoist
HYD-6	8/19/1991	< 0.5	**4.9**	**4.4**	**34**	**6,670**	< 10	**1,030**	**6,460**	--	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 10	< 5	below west hoist
HYD-6B	8/19/1991	< 0.05	< 0.05	**0.28**	**2.76**	**115**	< 10	**238**	**377**	--	--	--	< 0.05	< 0.05	< 0.05	< 0.05	< 0.1	< 0.05	< 0.5	< 1	< 0.5	below west hoist
MTCA Cleanup Levels		**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**30 (A)**	**2,000 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**	**1.0 (A)**	**0.1 (A)**	**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**29 (B)**	**0.02 (A)**	--

Sample ID	Date Collected	Benzene[1]	Toluene[1]	Ethyl-benzene[1]	Total Xylenes[1]	TPH as Gasoline[2]	TPH as Diesel[3]	TPH as Other[3]	TPH[4]	Total Lead[5]	Total PCBs[7]	Benzo(a) pyrene[8]	PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Acetone	Methylene Chloride	Sampling Location
		(mg/kg)											(VOCs)[9]									
MW-11-12.5	8/27/1991	< 0.05	< 0.05	**2.03**	**6.31**	**216**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	sample from boring MW-11
NPUMPE[6]	2/17/1992	< 0.05	< 0.05	< 0.05	**0.06**	**1.0**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	E end of N pump island
NPUMPW[6]	2/17/1992	< 0.05	< 0.05	< 0.05	< 0.05	< 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	W end of N pump island
OH20	2/17/1992	--	--	--	--	< 10	< 10	< 40	--	--	--	--	--	--	--	--	--	--	--	--	--	below oil/water separator
SS-2	2/17/1992	< 0.05	**0.43**	**0.53**	**4.84**	**202**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
SS-3	2/17/1992	**0.19**	**2.63**	**3.91**	**20.6**	**541**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
SS-4	2/17/1992	**0.26**	**2.90**	**3.71**	**20.9**	**481**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
SS-5	2/17/1992	**1.13**	**11.0**	**7.90**	**26.0**	**900**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	stockpile sample
WPUMPN[6]	2/18/1992	< 0.05	< 0.05	< 0.05	**0.23**	**3**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N end of W pump island
WPUMPS[6]	2/18/1992	< 0.05	< 0.05	< 0.05	< 0.05	< 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	S end of W pump island
WPUMPE[6]	2/24/1992	< 0.05	< 0.05	< 0.05	< 0.05	< 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	base of W pump island excav.
WPUMPEW[6]	2/24/1992	< 0.05	< 0.05	< 0.05	< 0.05	< 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	E wall of W pump island excav.
BHOISE[6]	2/28/1992	--	--	--	--	ND[11]	ND[11]	ND[11]	--	--	--	--	--	--	--	--	--	--	--	--	--	base of hoist excavation
SHOISW[6]	2/28/1992	--	--	--	--	ND[11]	ND[11]	ND[11]	--	--	--	--	--	--	--	--	--	--	--	--	--	S wall of hoist excavation
WHOISB[6]	3/2/1992	--	--	--	--	ND[11]	ND[11]	ND[11]	--	--	--	--	--	--	--	--	--	--	--	--	--	W wall of hoist excavation
SPILE1	3/2/1992	--	--	--	--	ND[11]	ND[11]	**120**	--	--	< 1	**0.04**	--	--	--	--	--	--	--	--	--	stockpile sample
SPILE2	3/2/1992	--	--	--	--	ND[11]	ND[11]	**40**	--	--	< 1	< 0.01	--	--	--	--	--	--	--	--	--	stockpile sample
SPILE3	3/2/1992	--	--	--	--	ND[11]	ND[11]	**60**	--	--	< 1	< 0.01	--	--	--	--	--	--	--	--	--	stockpile sample
BASE-0421-01[6]	4/21/1992	--	--	--	--	--	< 25	< 100	--	--	--	--	--	--	--	--	--	--	--	--	--	base of dry well excavation
WWALL13-0421-02[6]	4/21/1992	--	--	--	--	--	< 25	< 100	--	--	--	--	--	--	--	--	--	--	--	--	--	W wall of dry well excavation
WWALL17-0421-03[6]	4/21/1992	--	--	--	--	--	< 25	< 100	--	--	--	--	--	--	--	--	--	--	--	--	--	W wall of dry well excavation
NWALL-0421-04[6]	4/21/1992	--	--	--	--	--	< 25	< 100	--	--	--	--	--	--	--	--	--	--	--	--	--	N wall of dry well excavation
MTCA Cleanup Levels		**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**30 (A)**	**2,000 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**	**1.0 (A)**	**0.1 (A)**	**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**29 (B)**	**0.02 (A)**	**--**

Notes:

[1]Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 5030/8020 or EPA Method 8240 (low level)

[2]Volatile fuel hydrocarbons (TPH as gasoline) by EPA Method 5030/8015 Modified

[3]Semi volatile fuel hydrocarbons (TPH as diesel, other) by EPA Method 3550/8015 Modified

[4]Total Petroleum Hydrocarbons (TPH) by EPA Method 418.1

[5]Total lead by EPA Method 7420

[6]Confirmation soil sample collected following soil excavation

[7]Total Polychlorinated Biphenyls (PCBs) by EPA Methods 3540/8080

[8]Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Methods 3540/8310. Additional low level detections of several PAH analytes for samples SPILE 1 and SPILE 3. See lab reports for additional information.

[9]Volatile Organic Compounds (VOCs) by EPA Method 8240. Additional low level detections of several VOC analytes for sample HYD-4. See lab reports for additional information.

[10]Sample analyzed for Toxicity Characteristic Leaching Procedure (TCLP) by EPA Method 1311

[11]Based on our review of the 1992 laboratory data report obtained from Ecology on-line document repository for the Site, data sheets were not available for samples shown as Non Detect (ND) in this table. ND results are from the original data table in EMCON's 1992 report.

-- = analyte not tested

< = Analyte not detected at or above method reporting limit

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act (WAC 173-340).

(A) = MTCA Method A Cleanup Level

(B) = MTCA Method B cleanup for the protection of groundwater. See Table 8 for information on basis for cleanup levels.

DCA = dichloroethane

DCE = dichloroethene

PCE = perchloroethene (tetrachloroethene)

TCE = trichloroethene

Bolded value indicates analyte detected at the listed concentration.

Shaded value represents concentration that exceeded the MTCA cleanup level.

Table 4

Chemical Analytical Data for Soil Samples

Sterling Realty Organization Property at 10605 and 10619 NE 8th Street
Bellevue, Washington

Sample ID	Sample Collected By	Sample Date	Depth (ft bgs)	VOCs (mg/kg)[1]											Gasoline-range Petroleum Hydrocarbons (mg/kg)[2]	Diesel-range Petroleum Hydrocarbons (mg/kg)[3]	Oil-range Petroleum Hydrocarbons (mg/kg)[3]	Lead (mg/kg)
				PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Benzene	Toluene	Ethyl-benzene	Xylenes, total				
Soil samples collected in 2000 (URS, 2000)																		
URSSB-OP1	URS	3/11/2000	6	--	--	--	--	--	--	--	< 0.056	< 0.056	< 0.056	< 0.112	< 5.6	< 28	< 56	--
		3/11/2000	18	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	<0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.112	< 5.6	< 28	< 56	--
URSSB-OP2		3/11/2000	12	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	<0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.108	< 5.4	< 27	< 56	--
URSSB-OP3		3/11/2000	6	--	--	--	--	--	--	--	< 0.059	< 0.059	< 0.059	< 0.118	< 5.9	< 29	< 59	--
		3/11/2000	18	--	--	--	--	--	--	--	< 0.056	< 0.056	< 0.056	< 0.112	< 5.6	< 28	< 56	--
URSSB-OP4		3/11/2000	8	--	--	--	--	--	--	--	< 0.054	< 0.054	< 0.054	< 0.108	< 5.4	< 27	< 54	--
URSSB-OP5		3/11/2000	12	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	<0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.108	< 5.4	< 27	< 54	--
URSSB-OP6		3/11/2000	20	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	<0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.108	< 5.4	< 27	< 54	<5.4
URSSB-OP7		3/11/2000	16	--	--	--	--	--	--	--	< 0.054	< 0.054	< 0.054	< 0.108	< 5.4	< 28	**88**	--
URSSB-OP8		3/11/2000	8	--	--	--	--	--	--	--	< 0.056	< 0.056	< 0.056	< 0.112	< 5.6	< 28	< 56	--
		3/11/2000	18	--	--	--	--	--	--	--	< 0.055	< 0.055	< 0.055	< 0.110	< 5.5	< 28	< 55	<5.5
Soil samples collected in 2008 (Terra, 2008; URS, 2008)																		
B2/MW-2	Terra Associates	6/23/2008	5	--	--	--	--	--	--	--	--	--	--	--	<22	<56	<110	--
		6/23/2008	15	--	--	--	--	--	--	--	--	--	--	--	<22	<55	<110	--
		6/23/2008	25	--	--	--	--	--	--	--	--	--	--	--	<22	<54	<110	--
URS-MW-1	URS	8/25/2008	15	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/25/2008	27.5	**0.41**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-MW-2	URS	8/27/2008	15	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/27/2008	27.5	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-MW-3	URS	8/26/2008	17.5	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/26/2008	27.5	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-MW-4	URS	8/26/2008	12.5	**0.17**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/26/2008	30	**0.12**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-SB-1	URS	8/25/2008	10	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/25/2008	30	**0.22**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/25/2008	45	**0.05**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/25/2008	75	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-SB-2	URS	8/25/2008	10	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/25/2008	27.5	**0.07**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-SB-3	URS	8/26/2008	17.5	**0.05**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/26/2008	22.5	**0.07**	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-SB-4	URS	8/27/2008	17.5	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
		8/27/2008	30	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	<10	--	--	--
URS-SB-8	URS	11/19/2008	21.5	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	--	--	--	--
		11/19/2008	29	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	--	--	--	--
		11/19/2008	41.5	< 0.02	<0.03	<0.02	<0.02	<0.05	<0.03	<0.002	< 0.02	< 0.02	< 0.03	< 0.03	--	--	--	--
Soil samples collected in 2010 (Farallon, 2010)																		
MW-19	Farallon	8/5/2010	4.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	9	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	24	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.1	<2	<50	<250	--
		8/5/2010	29	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
MTCA Method A or B Cleanup Levels				**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**100 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**

Sample ID	Sample Collected By	Sample Date	Depth (ft bgs)	VOCs (mg/kg)[1]											Gasoline-range Petroleum Hydrocarbons (mg/kg)[2]	Diesel-range Petroleum Hydrocarbons (mg/kg)[3]	Oil-range Petroleum Hydrocarbons (mg/kg)[3]	Lead (mg/kg)
				PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Benzene	Toluene	Ethyl-benzene	Xylenes, total				
MW-20	Farallon	8/6/2010	4.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	10	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	14.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	19.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	25	**0.026**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/6/2010	29.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-1	Farallon	8/5/2010	1	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	6	--	--	--
		8/5/2010	11	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	16	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	20	**0.28**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/5/2010	22	**0.43**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/5/2010	26	**0.25**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-2	Farallon	8/5/2010	1	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	**3**	**67**	**760**	--
		8/5/2010	5.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	9	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	14	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	19	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	23.5	**0.12**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/5/2010	27	**0.34**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-3	Farallon	8/5/2010	1	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	**610**	**140**	**270**	**5.79**
		8/5/2010	3	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/5/2010	7	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	13	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	18	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	21	**0.057**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/5/2010	22.5	**0.06**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	27	**0.17**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/5/2010	30	**0.16**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-4	Farallon	8/6/2010	6	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	12	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	17	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	22	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/6/2010	27	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	30	**0.038**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-5	Farallon	8/6/2010	3	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	6	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	11	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	**7**	<50	<250	--
		8/6/2010	16	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	21	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	30	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-6	Farallon	8/6/2010	5.2	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/6/2010	12	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/6/2010	15	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	**610**	--
		8/6/2010	17	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	**70**	**870**	--
		8/6/2010	20.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/6/2010	25	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	30	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
MTCA Method A or B Cleanup Levels				**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**100 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**

Sample ID	Sample Collected By	Sample Date	Depth (ft bgs)	VOCs (mg/kg)[1]											Gasoline-range Petroleum Hydrocarbons (mg/kg)[2]	Diesel-range Petroleum Hydrocarbons (mg/kg)[3]	Oil-range Petroleum Hydrocarbons (mg/kg)[3]	Lead (mg/kg)
				PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Benzene	Toluene	Ethyl-benzene	Xylenes, total				
SRO-7	Farallon	8/6/2010	9	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	**1,100**	<50	<250	--
		8/6/2010	12.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/6/2010	19	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	22.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/6/2010	26	**0.046**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	30	**0.080**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-8	Farallon	8/6/2010	4	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	8	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	13.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	**4**	--	--	--
		8/6/2010	14.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2.0	<50	<250	--
		8/6/2010	18	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2.0	-	-	--
		8/6/2010	22	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	**0.1**	**0.21**	**3**	<50	<250	--
		8/6/2010	23.5	**0.15**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	26	**0.16**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/6/2010	29	**0.19**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-9	Farallon	8/9/2010	3	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	8	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	13	<0.625	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	17.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	21.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	26	**0.037**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	29.5	**0.057**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
SRO-10	Farallon	8/9/2010	1	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	7	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	10	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	16	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	21	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	23.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	29	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
SRO-11	Farallon	8/9/2010	1	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	10	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	15	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	20	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	25	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	28	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
SRO-12	Farallon	8/9/2010	5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	8	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	13	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	17	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	21	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	--	--	--
		8/9/2010	23.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	29.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.0.5	<0.15	<2	--	--	--
SRO-13	Farallon	8/9/2010	0.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	**280**	**3,100**	--
		8/9/2010	5.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/9/2010	11	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<S0	<250	--
		8/9/2010	15.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	**400**	--
		8/9/2010	20.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<S0	<250	--
		8/9/2010	24.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/9/2010	29.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
MTCA Method A or B Cleanup Levels				**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**100 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**

Sample ID	Sample Collected By	Sample Date	Depth (ft bgs)	VOCs (mg/kg)[1]											Gasoline-range Petroleum Hydrocarbons (mg/kg)[2]	Diesel-range Petroleum Hydrocarbons (mg/kg)[3]	Oil-range Petroleum Hydrocarbons (mg/kg)[3]	Lead (mg/kg)
				PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Benzene	Toluene	Ethyl-benzene	Xylenes, total				
SRO-14	Farallon	8/10/2010	1.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	6.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	12	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	17	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	22	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	25.2	**0.035**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	29.8	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-15	Farallon	8/10/2010	1	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	10	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	15	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	20	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	25	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	29.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-16	Farallon	8/10/2010	2	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	7	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	12	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	17	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	22	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	25.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	29.5	**0.039**	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-17	Farallon	8/10/2010	1.8	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	**0.55**	**0.77**	**2,800**	**130**	<250	--
		8/10/2010	5.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	2	<50	<250	--
		8/10/2010	10.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/10/2010	16	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/10/2010	21	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/10/2010	25	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.15	<2	<50	<250	--
		8/10/2010	30	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-18	Farallon	8/10/2010	2	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	5.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-19	Farallon	8/10/2010	2	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	5.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-20	Farallon	8/10/2010	2	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
		8/10/2010	6	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
SRO-21	Farallon	8/10/2010	6.5	<0.025	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	--	--	--	--	--	--	--	--
Soil samples collected in 2011 (Hart Crowser, 2011; URS, 2011b)																		
HC-1-1	Hart Crowser	8/13/2011	20	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-2		8/13/2011	22.5	**0.092**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-3		8/13/2011	25	**0.36**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-4		8/13/2011	27.5	**0.46**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-5		8/13/2011	30	**0.43**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-6		8/13/2011	32.5	**0.74**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-7		8/13/2011	35	**0.38**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-8		8/13/2011	37.5	**0.92**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-9		8/13/2011	40	**1.10**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<5	<20	<50	1.3
HC-1-10		8/13/2011	42.5	**0.41**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-11		8/13/2011	45	**2.30**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-12		8/13/2011	47.5	**1.80**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-1-13		8/13/2011	50	**0.07**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
MTCA Method A or B Cleanup Levels				**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**100 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**

Sample ID	Sample Collected By	Sample Date	Depth (ft bgs)	VOCs (mg/kg)[1]											Gasoline-range Petroleum Hydrocarbons (mg/kg)[2]	Diesel-range Petroleum Hydrocarbons (mg/kg)[3]	Oil-range Petroleum Hydrocarbons (mg/kg)[3]	Lead (mg/kg)
				PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Benzene	Toluene	Ethyl-benzene	Xylenes, total				
HC-2-1	Hart Crowser	8/13/2011	20	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-2		8/13/2011	22.5	**0.11**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-3		8/13/2011	25	**0.29**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-4		8/13/2011	27.5	**0.33**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-5		8/13/2011	30	**0.31**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-6		8/13/2011	32.5	**0.22**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-7		8/13/2011	35	**0.23**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-8		8/13/2011	37.5	**0.46**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-9		8/13/2011	40	**0.60**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<5	<20	<50	<1
HC-2-10		8/13/2011	42.5	**1.20**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-11		8/13/2011	45	**0.58**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-12		8/13/2011	47.5	**2.00**	**0.044**	**0.061**	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-2-13		8/13/2011	50	**0.11**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-1	Hart Crowser	8/13/2011	20	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-2		8/13/2011	22.5	**0.13**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-3		8/13/2011	25	**0.16**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-4		8/13/2011	27.5	**0.061**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-5		8/13/2011	30	**0.18**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-6		8/13/2011	32.5	**0.13**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-7		8/13/2011	35	**0.10**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-8		8/13/2011	37.5	**0.37**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-9		8/13/2011	40	**0.27**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<5	<20	<50	1.3
HC-3-10		8/13/2011	42.5	**0.17**	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-11		8/13/2011	45	**0.05**	<0.02	**0.067**	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-12		8/13/2011	47.5	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
HC-3-13		8/13/2011	50	**0.91**	**0.087**	**0.059**	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	--	--	--	--
URS-SB-9	URS	10/10/2011	50	**0.0218**	<0.0213	**0.00217 J**	<0.0142	<0.0355	<0.0213	<0.00142	<0.0142	<0.0142	<0.0213	<0.0284	--	--	--	--
		10/10/2011	55	**0.276**	**0.00624 J**	**0.00708 J**	<0.0139	<0.0347	<0.0208	<0.00139	<0.0139	<0.0139	<0.0208	<0.0278	--	--	--	--
		10/10/2011	60	**0.000720 J**	<0.0204	<0.0136	<0.0136	<0.0340	<0.0204	<0.00136	<0.0136	<0.0136	<0.0204	<0.0272	--	--	--	--
		10/10/2011	65	<0.0126	<0.0189	<0.0126	<0.0126	<0.0315	<0.0189	<0.00126	<0.0126	<0.0126	<0.0189	<0.0252	--	--	--	--
		10/10/2011	70	<0.0143	<0.0214	<0.0143	<0.0143	<0.0357	<0.0214	<0.00143	<0.0143	<0.0143	<0.0214	<0.0286	--	--	--	--
		10/10/2011	75	<0.0151	<0.0226	<0.0151	<0.0151	<0.0376	<0.0226	<0.00151	<0.0151	<0.0151	<0.0226	<0.0302	--	--	--	--
		10/10/2011	80	<0.0142	<0.0213	<0.0142	<0.0142	<0.0354	<0.0213	<0.00142	<0.0142	<0.0142	<0.0213	<0.0284	--	--	--	--
URS-SB-10	URS	10/11/2011	50	<0.0117	<0.0175	<0.0117	<0.0117	<0.0292	<0.0175	<0.00117	<0.0117	<0.0117	<0.0175	<0.0234	--	--	--	--
		10/11/2011	55	<0.0111	<0.0167	<0.0111	<0.0111	<0.0278	<0.0167	<0.00111	<0.0111	<0.0111	<0.0167	<0.0222	--	--	--	--
		10/11/2011	60	**0.00160 J**	<0.00145	<0.00967	<0.00967	<0.0242	<0.00145	<0.000967	<0.00967	<0.00967	<0.00145	<0.01934	--	--	--	--
		10/11/2011	65	<0.0142	<0.0213	<0.0142	<0.0142	<0.0355	<0.0213	<0.00142	<0.0142	<0.0142	<0.0213	<0.0284	--	--	--	--
		10/11/2011	70	<0.0148	<0.0221	<0.0148	<0.0148	<0.0369	<0.0221	<0.00148	**0.000413 J**	**0.000546 J**	<0.0221	<0.0296	--	--	--	--
		10/11/2011	75	<0.00952	<0.0143	<0.00952	<0.00952	<0.0238	<0.0143	<0.000952	<0.00952	**0.000438 J**	<0.0143	<0.01904	--	--	--	--
URS-MW8 (SB-11)	URS	10/12/2011	35	**0.00148 J**	<0.0190	<0.0126	<0.0126	<0.0316	<0.0190	<0.00126	<0.0126	<0.0126	<0.0190	<0.0252	--	--	--	--
		10/12/2011	40	**0.000383 J**	<0.0164	<0.0109	<0.0109	<0.0273	<0.0164	<0.00109	<0.0109	<0.0109	<0.0164	<0.0218	--	--	--	--
		10/12/2011	45	<0.0112	<0.0168	<0.0112	<0.0112	<0.0280	<0.0168	<0.00112	<0.0112	<0.0112	<0.0168	<0.0224	--	--	--	--
		10/12/2011	50	<0.0124	<0.0186	**0.000497 J**	<0.0124	<0.0311	<0.0186	<0.00124	<0.0124	<0.0124	<0.0186	<0.0248	--	--	--	--
		10/12/2011	55	<0.0124	<0.0186	**0.000867 J**	<0.0124	<0.0310	<0.0186	<0.00124	<0.0124	<0.0124	<0.0186	<0.0248	--	--	--	--
		10/12/2011	60	<0.0105	<0.0158	<0.0105	<0.0105	<0.0264	<0.0158	<0.00105	<0.0105	<0.0105	<0.0158	<0.021	--	--	--	--
		10/12/2011	65	<0.0104	<0.0156	<0.0104	<0.0104	<0.0259	<0.0156	<0.00104	<0.0104	<0.0104	<0.0156	<0.0208	--	--	--	--
		10/12/2011	70	<0.0105	<0.0158	<0.0105	<0.0105	<0.0263	<0.0158	<0.00105	<0.0105	<0.0105	<0.0158	<0.021	--	--	--	--
		10/12/2011	75	<0.0138	<0.0207	<0.0138	<0.0138	<0.0345	<0.0207	<0.00138	<0.0138	<0.0138	<0.0207	<0.0276	--	--	--	--
		10/12/2011	80	<0.0113	<0.0170	<0.0113	<0.0113	<0.0283	<0.0170	<0.00113	<0.0113	<0.0113	<0.0170	<0.0226	--	--	--	--
MTCA Method A or B Cleanup Levels				**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**100 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**

Sample ID	Sample Collected By	Sample Date	Depth (ft bgs)	VOCs (mg/kg)[1]											Gasoline-range Petroleum Hydrocarbons (mg/kg)[2]	Diesel-range Petroleum Hydrocarbons (mg/kg)[3]	Oil-range Petroleum Hydrocarbons (mg/kg)[3]	Lead (mg/kg)
				PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1-DCE	1,2-DCA	Vinyl Chloride	Benzene	Toluene	Ethyl-benzene	Xylenes, total				
URS-SB-12	URS	10/12/2011	35	<0.0129	<0.0193	<0.0129	<0.0129	<0.0322	**0.000399 J**	<0.00129	<0.0129	<0.0129	<0.0193	<0.0258	--	--	--	--
		10/12/2011	40	**0.00436 J**	<0.0192	**0.000641 J**	<0.0128	<0.0321	**0.000667 J**	<0.00128	<0.0128	<0.0128	<0.0192	<0.0256	--	--	--	--
		10/12/2011	45	**0.00479 J**	**0.000403 J**	**0.000749 J**	<0.0115	<0.0288	**0.000645 J**	<0.00115	<0.0115	<0.0115	<0.0173	<0.023	--	--	--	--
		10/12/2011	55	**0.00606 J**	**0.000460 J**	**0.000393 J**	<0.00667	<0.0167	<0.0100	<0.000667	<0.00667	<0.00667	<0.0100	<0.01334	--	--	--	--
		10/12/2011	60	**0.00901 J**	**0.00120 J**	**0.00102 J**	<0.00982	<0.0246	<0.0147	<0.000982	<0.00982	<0.00982	<0.0147	<0.01964	--	--	--	--
		10/12/2011	65	<0.0151	<0.0227	**0.00153 J**	<0.0151	<0.0378	<0.0227	<0.00151	<0.0151	<0.0151	<0.0227	<0.0302	--	--	--	--
		10/12/2011	70	<0.0159	<0.0239	<0.0159	<0.0159	<0.0398	<0.0239	<0.00159	<0.0159	<0.0159	<0.0239	<0.0318	--	--	--	--
		10/12/2011	75	<0.0156	<0.0235	<0.0156	<0.0156	<0.0391	<0.0235	<0.00156	<0.0156	<0.0156	<0.0235	<0.0312	--	--	--	--
URS-SB-13	URS	10/13/2011	35	**0.0142**	<0.0175	<0.0117	<0.0117	<0.0292	**0.000548 J**	<0.00117	<0.0117	<0.0117	<0.0175	<0.0234	--	--	--	--
		10/13/2011	40	**0.0140 J**	<0.0210	<0.0140	<0.0140	<0.0351	**0.000842 J**	<0.00140	<0.0140	<0.0140	<0.0210	<0.028	--	--	--	--
		10/13/2011	45	**0.00347 J**	<0.0213	<0.0142	<0.0142	<0.355	**0.00128 J**	<0.00142	<0.0142	<0.0142	<0.0213	<0.0284	--	--	--	--
		10/13/2011	60	**0.0647**	**0.000382 J**	<0.0116	<0.0116	<0.290	**0.000858 J**	<0.00116	<0.0116	**0.000394 J**	<0.0174	<0.0232	--	--	--	--
		10/13/2011	65	**0.0861**	<0.0204	<0.0136	<0.0136	<0.339	<0.0204	<0.00136	<0.0136	<0.0136	<0.0204	<0.0272	--	--	--	--
		10/13/2011	70	<0.0145	<0.0218	<0.0145	<0.0145	<0.0364	<0.0218	<0.00145	<0.0145	<0.0145	<0.0218	<0.029	--	--	--	--
		10/13/2011	75	<0.0149	<0.0223	<0.0149	<0.0149	<0.0372	<0.0223	<0.00149	<0.0149	<0.0149	<0.0223	<0.0298	--	--	--	--
URS-SB-14	URS	10/11/2011	35	<0.00954	<0.0143	<0.00954	<0.00954	<0.0239	<0.0143	<0.000954	<0.00954	<0.00954	<0.0143	<0.01908	--	--	--	--
		10/11/2011	40	**0.0541**	**0.000659 J**	<0.0112	<0.0112	0.0279	<0.0168	<0.00112	<0.0112	<0.0112	<0.0168	<0.0224	--	--	--	--
		10/11/2011	45	**0.0712**	**0.00114 J**	**0.00172 J**	<0.0117	<0.0293	<0.0176	<0.00117	<0.0117	<0.0117	<0.0176	<0.0234	--	--	--	--
		10/11/2011	50	**0.166**	**0.00164 J**	**0.00346 J**	<0.0101	<0.0253	<0.0152	<0.00101	<0.0101	<0.0101	<0.0152	<0.0202	--	--	--	--
		10/11/2011	55	**0.105**	**0.00119 J**	**0.00475 J**	<0.0126	<0.0314	<0.0189	<0.00126	<0.0126	<0.0126	<0.0189	<0.0252	--	--	--	--
		10/11/2011	60	**0.000312 J**	<0.0142	<0.00946	<0.00946	<0.0237	<0.0142	<0.000946	<0.00946	<0.00946	<0.0142	<0.01898	--	--	--	--
		10/11/2011	65	<0.00915	<0.0137	<0.00915	<0.00915	<0.0229	<0.0137	<0.00915	<0.00915	<0.00915	<0.0137	<0.0183	--	--	--	--
		10/11/2011	70	<0.0137	<0.0206	<0.0137	<0.0137	<0.0343	<0.0206	<0.00137	<0.0137	<0.0137	<0.0206	<0.0274	--	--	--	--
		10/11/2011	75	<0.0104	<0.0156	<0.0104	<0.0104	<0.0260	<0.0156	<0.00104	<0.0104	<0.0104	<0.0156	<0.0208	--	--	--	--
URS-SB-15	URS	10/11/2011	35	**0.0331**	<0.0189	<0.0126	<0.0126	<0.0316	<0.0189	<0.00126	<0.0126	<0.0126	<0.0189	<0.0252	--	--	--	--
		10/11/2011	40	**0.00263 J**	<0.0138	<0.00921	<0.00921	<0.0230	<0.0138	<0.000921	<0.00921	<0.00921	<0.0138	<0.01842	--	--	--	--
		10/11/2011	45	<0.0128	<0.0191	<0.0128	<0.0128	<0.0319	<0.0191	<0.00128	<0.0128	<0.0128	<0.0191	<0.0256	--	--	--	--
		10/10/2011	50	<0.0128	<0.0192	<0.0128	<0.0128	<0.0321	<0.0192	<0.00128	<0.0128	<0.0128	<0.0192	<0.0256	--	--	--	--
		10/10/2011	55	<0.00851	<0.0128	<0.00851	<0.00851	<0.0213	<0.0128	<0.000851	<0.00851	<0.00851	<0.0128	<0.01702	--	--	--	--
		10/10/2011	60	<0.0101	<0.0151	<0.0101	<0.0101	<0.0252	<0.0151	<0.00101	<0.0101	<0.0101	<0.0151	<0.0202	--	--	--	--
		10/10/2011	65	<0.0140	<0.0210	<0.0140	<0.0140	<0.0349	<0.0210	<0.00140	<0.0140	<0.0140	<0.0210	<0.028	--	--	--	--
		10/10/2011	70	<0.0127	<0.0190	<0.0127	<0.0127	<0.0317	<0.0190	<0.00127	<0.0127	<0.0127	<0.0190	<0.0254	--	--	--	--
		10/10/2011	75	<0.0119	<0.0179	<0.0119	<0.0119	<0.0298	<0.0179	<0.000119	<0.0119	<0.0119	<0.0179	<0.0238	--	--	--	--
URS-SB-17	URS	11/15/2011	40	<0.00937	<0.0141	<0.00937	<0.00937	<0.0234	<0.0141	<0.000937	--	--	--	--	--	--	--	--
		11/15/2011	45	<0.00915	<0.0137	<0.00915	<0.00915	<0.0229	<0.0137	<0.000915	--	--	--	--	--	--	--	--
		11/15/2011	65	<0.0122	<0.0183	<0.0122	<0.0122	<0.0304	<0.0183	<0.00122	--	--	--	--	--	--	--	--
		11/15/2011	70	<0.0124	<0.0186	<0.0124	<0.0124	<0.0309	<0.0186	<0.00124	--	--	--	--	--	--	--	--
		11/15/2011	75	<0.0156	<0.0234	<0.0156	<0.0156	<0.0390	<0.0234	<0.00156	--	--	--	--	--	--	--	--
URS-SB-21	URS	11/17/2011	30	**0.00590 J**	<0.0218	<0.0145	<0.0145	<0.0364	<0.0218	<0.00145	--	--	--	--	--	--	--	--
		11/17/2011	35	**0.00560 J**	<0.0174	<0.0116	<0.0116	<0.0290	<0.0174	<0.00116	--	--	--	--	--	--	--	--
		11/17/2011	40	<0.0116	<0.0174	<0.0116	<0.0116	<0.290	<0.0174	<0.00116	--	--	--	--	--	--	--	--
		11/17/2011	45	<0.0159	<0.0238	<0.0159	<0.0159	<0.0397	<0.0238	<0.00159	--	--	--	--	--	--	--	--
		11/17/2011	50	<0.0157	<0.0235	<0.0157	<0.0157	<0.0392	<0.0235	<0.00157	--	--	--	--	--	--	--	--
		11/17/2011	60	<0.0104	<0.0156	<0.0104	<0.0104	<0.259	<0.0156	<0.00104	--	--	--	--	--	--	--	--
		11/17/2011	65	<0.0192	<0.0288	<0.0192	<0.0192	<0.0480	<0.0288	<0.00192	--	--	--	--	--	--	--	--
		11/17/2011	70	<0.0203	<0.0304	<0.0203	<0.0203	<0.0507	<0.0304	<0.00203	--	--	--	--	--	--	--	--
		11/17/2011	71.5	<0.0170	<0.0255	<0.0170	<0.0170	<0.0425	<0.0255	<0.00170	--	--	--	--	--	--	--	--
		11/17/2011	73	<0.0156	<0.0234	<0.0156	<0.0156	<0.0391	<0.0234	<0.00156	--	--	--	--	--	--	--	--
		11/17/2011	74.5	<0.0196	<0.0294	<0.0196	<0.0196	<0.0490	<0.0294	<0.00196	--	--	--	--	--	--	--	--
		11/17/2011	80	<0.0143	<0.0214	<0.0143	<0.0143	<0.0356	<0.0214	<0.00143	--	--	--	--	--	--	--	--
MTCA Method A or B Cleanup Levels				**0.05 (A)**	**0.03 (A)**	**0.076 (B)**	**0.48 (B)**	**0.037 (B)**	**0.0023 (B)**	**0.0012 (B)**	**0.03 (A)**	**7 (A)**	**6 (A)**	**9 (A)**	**100 (A)**	**2,000 (A)**	**2,000 (A)**	**250 (A)**

Notes:

Table contains data from 2000 to 2011. Chemical data from the 1990 EMCON PESA and 1992 EMCON UST Closure Report are presented in Table 2 and 3.

Compounds including methylene chloride, chloroform, chloromethane, and MTBE were analyzed for in numerous samples from the Property. These compounds either were not detected, were detected at J-flagged estimated values less than laboratory reporting limits, or detected at concentrations less than cleanup levels.

[1]VOCs = Volatile organic compounds; analyzed by EPA Method 8260B.

[2] Gasoline-range petroleum hydrocarbons were analyzed by Ecology Method NWTPH-Gx

[3] Diesel- and oil-range petroleum hydrocarbons were analyzed by Ecology Method NWTPH-Dx

-- = constituent not analyzed.

< = constituent not detected at or above the stated laboratory practical quantitation limit.

1,1-DCE = 1,1-Dichloroethene

1,1,1-DCE = 1,1,1-dichloroethene

1,2-DCA = 1,2-dichloroethane

bgs = below ground surface

cis-1,2-DCE = cis-1,2-dichloroethene

J = estimated value below laboratory Practical Quantitation Limit (PQL); for purpose of this report J-flagged values are considered not detected.

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act (WAC 173-340).

(A) = MTCA Method A Cleanup Level

(B) = MTCA Method B cleanup for the protection of groundwater. See Table 8 for information on basis for cleanup levels.

PCE = Tetrachloroethene

TCE = Trichloroethene

trans 1,2-DCE = trans-1,2-dichloroethene

VOCs = Volatile organic compounds

Bold font indicates that the constituent was detected.

Shading indicates that the concentration exceeds the MTCA cleanup level.

Table 5

Chemical Analytical Data for Groundwater Samples

Sterling Realty Organization Property at 10605 and 10619 NE 8th Street
Bellevue, Washington

Sample ID	Sample Date	Depth (feet bgs)	VOCs (µg/L)[1] PCE	TCE	cis-1,2-DCE	1,1,1-TCA	1,2-DCA	Benzene	Toluene	Ethyl-benzene	Xylenes, total	Gasoline-range Petroleum Hydrocarbons (µg/L)[2]	Diesel-range Petroleum Hydrocarbons (µg/L)[3]	Oil-range Petroleum Hydrocarbons (µg/L)[3]
Samples collected in 2000 (URS, 2000)														
URSSB-OP1	03/11/2000	NA	**2.1**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<100	<25	<50
URSSB-OP3	03/11/2000	NA	**1.7**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<100	<25	<50
Samples collected in 2008 and 2010 (Terra, 2008; URS, 2009; URS, 2010; SES, 2011)														
URS-SB-3	08/27/2008	NA	**21**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<100	--	--
URS-MW-1	09/10/2008	NA	**340**	**3.5**	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<100	--	--
	11/21/2008	NA	**210**	**3.4**	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	--	--	--
	03/17/2010	NA	**460**	**22**	**11**	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	06/17/2010	NA	**320**	**9.6**	**1.2**	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	08/24/2010	NA	**430**	**10**	**6.1**	--	--	--	--	--	--	--	--	--
URS-MW-2	03/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	06/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	08/25/2010	NA	<1.0	<1.0	<1.0	--	--	--	--	--	--	--	--	--
URS-MW-3	09/10/2008	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<100	--	--
	11/21/2008	NA	**3.9**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	--	--	--
	03/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	06/17/2010	NA	<1.0	<0.2	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	08/23/2010	NA	<1.0	<0.2	<1.0	--	--	--	--	--	--	--	--	--
MW-19	08/25/2010	NA	**33**	**1.1**	<1.0	--	--	<0.35	<1	<1	<3	<100	<50	<250
MW-20	08/25/2010	NA	**4.6**	<1.0	<1.0	--	--	<0.35	<1	<1	<3	<100	<50	<250
B1/MW1	03/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
B-2/MW-2	07/07/2008	NA	<0.2	<0.2	--	--	--	<0.2	<0.2	<1.0	<0.6	<100	<250	<500
	11/21/2008	NA	**2.0**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	--	--	--
	03/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	06/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
B-3/MW-3	07/07/2008	NA	**80**	**0.42**	--	--	--	<0.4	<0.4	<2.0	<1.2	<100	<250	<500
	09/10/2008	NA	**88**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<100	--	--
	11/21/2008	NA	**20**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	--	--	--
	03/17/2010	NA	**68**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	06/17/2010	NA	**44**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	08/23/2010	NA	**50**	<1.0	<1.0	--	--	--	--	--	--	--	--	--
B-4/MW-4	07/07/2008	NA	<0.2	<0.2	--	--	--	<0.2	<0.2	<1.0	<0.6	<100	<250	<500
	11/21/2008	NA	**1.9**	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	--	--	--
	03/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
	06/17/2010	NA	<1.0	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<50	--	--
Samples collected in 2011 (URS, 2011b)														
URS-MW-1	11/22/2011	29	**114**	**4.36**	**1.47**	<1.0	<1.0	--	--	--	--	--	--	--
URS-MW-2	11/21/2011	28.6	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
URS-MW-3	11/22/2011	28	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
URS-MW-8	10/19/2011	73	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	10/19/2011	77	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	11/22/2011	70	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	11/22/2011	73	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	11/22/2011	75.5	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
MW-19	11/21/2011	29.2	**31.0**	**1.08**	**0.140 J**	<1.0	<1.0	--	--	--	--	--	--	--
MW-20	11/22/2011	25	**1.03**	**0.140 J**	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
B1/MW-1	11/29/2011	90	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	11/29/2011	95	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
B2/MW-2	11/29/2011	75	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	11/29/2011	80	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
B3/MW-3	11/22/2011	27	**23.7**	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
B4/MW-4	11/29/2011	75	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
	11/29/2011	80	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
URS-SB-9	10/10/2011	77	**0.270 J**	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
URS-SB-15[4]	10/10/2011	75	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
URS-SB-21	11/17/2011	74	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--
MTCA Method A or B Cleanup Level			5 (A)	5 (A)	16 (B)	200 (A)	5 (A)	5 (A)	1,000 (A)	700 (A)	1,000 (A)	800 / 1,000[5] (A)	500 (A)	500 (A)

Notes:

Table contains data from 2000 to 2011. Chemical data from the 1990 EMCON PESA is presented in Table 2.

[1]VOCs = Volatile organic compounds; analyzed by EPA Method 8260B.

[2]Gasoline-range petroleum hydrocarbons were analyzed by Ecology Method NWTPH-Gx

[3]Diesel- and oil-range petroleum hydrocarbons were analyzed by Ecology Method NWTPH-Dx

[4]Naphthalene was detected at a trace concentration of 0.23 µg/L (J-flagged estimated value less than PQL). The cleanup level for naphthalenes is 160 µg/L.

[5]The groundwater cleanup level is 1,000 µg/L if benzene is not present. If benzene is present, the cleanup level is 800 µg/L.

-- = constituent not analyzed.

< = constituent not detected at or above the stated laboratory practical quantitation limit.

1,1,1-TCA = 1,1,1-trichloroethane

1,2-DCA = 1,2-dichloroethane

bgs = below ground surface

cis-1,2-DCE = cis-1,2-dichloroethene

DCE = Dichloroethene.

J = estimated value

MTCA = Model Toxics Control Act (WAC 173-340).

(A) = MTCA Method A Cleanup Level

(B) = Standard Method B cleanup levels from CLARC tables. See Table 8 for information on basis for cleanup levels.

NA = not available

PCE = Tetrachloroethene

TCE = Trichloroethene

µg/L = micrograms per liter

Bold font indicates that the constituent was detected.

Shading indicates that the concentration exceeds the MTCA cleanup level.

Groundwater data from the Thinker Toys (source) property shown on Figures 14 and 15 are not included in this table.

Table 6

Low Level Detections–Chemical Analytical Data for Soil Samples

Sterling Realty Organization Property at 10605 and 10619 NE 8th Street

Bellevue, Washington

Sample ID	Sample Collected By	Sample Date	Depth (feet bgs)	Methylene Chloride (mg/kg)	Chloroform (mg/kg)	Chloromethane (mg/kg)	Methyl Tert-Butyl Ether (MTBE) (mg/kg)
URS-SB-9	URS	10/10/2011	50	0.00128 J	< 0.0142	< 0.0426	< 0.0355
		10/10/2011	55	0.00128 J	< 0.0139	< 0.0417	< 0.0347
		10/10/2011	60	0.00122 J	< 0.0136	< 0.0408	< 0.0340
		10/10/2011	65	0.000933 J	< 0.0126	< 0.0378	< 0.0315
		10/10/2011	70	0.00158 J	< 0.0143	< 0.0428	< 0.0357
		10/10/2011	75	0.00129 J	< 0.0151	< 0.0452	< 0.0376
		10/10/2011	80	0.00200 J	< 0.0142	< 0.0425	< 0.0354
URS-SB-10	URS	10/11/2011	50	0.000583 J	< 0.0117	0.000723 J	< 0.0292
		10/11/2011	55	0.000933 J	< 0.0111	< 0.0333	< 0.0278
		10/11/2011	60	0.000803 J	< 0.00967	< 0.0290	< 0.0242
		10/11/2011	65	0.00224 J	< 0.0142	< 0.0426	< 0.0355
		10/11/2011	70	0.00156 J	< 0.0148	< 0.0443	< 0.0369
		10/11/2011	75	0.00106 J	< 0.00952	0.000400 J	< 0.0238
URS-MW8 (SB-11)	URS	10/12/2011	35	0.00152 J	< 0.0126	< 0.0379	< 0.0316
		10/12/2011	40	0.000765 J	< 0.0109	< 0.0328	< 0.0273
		10/12/2011	45	0.000672 J	< 0.0112	< 0.0336	< 0.0280
		10/12/2011	50	0.00116 J	< 0.0124	< 0.0373	< 0.0311
		10/12/2011	55	0.000892 J	< 0.0124	< 0.0372	< 0.0310
		10/12/2011	60	0.000918 J	< 0.0105	< 0.0316	< 0.0264
		10/12/2011	65	0.000633 J	< 0.0104	< 0.0311	< 0.0259
		10/12/2011	70	0.000735 J	< 0.0105	< 0.0315	< 0.0263
		10/12/2011	75	0.00131 J	< 0.0138	< 0.0414	0.000870 J
		10/12/2011	80	0.00102 J	< 0.0113	< 0.0340	< 0.0283
URS-SB-12	URS	10/12/2011	35	0.000952 J	< 0.0129	< 0.0386	< 0.0322
		10/12/2011	40	0.00126 J	< 0.0128	< 0.0385	< 0.0321
		10/12/2011	45	0.00101 J	< 0.0115	< 0.0346	< 0.0288
		10/12/2011	55	0.000393 J	< 0.00667	< 0.0200	< 0.0167
		10/12/2011	60	0.000756 J	< 0.00982	< 0.0295	< 0.0246
		10/12/2011	65	0.00193 J	< 0.0151	< 0.0453	< 0.0378
		10/12/2011	70	0.00199 J	< 0.0159	< 0.0477	< 0.0398
		10/12/2011	75	0.00141 J	< 0.0156	< 0.0469	< 0.0391
URS-SB-13	URS	10/13/2011	35	0.00106 J	< 0.0117	< 0.0350	< 0.0292
		10/13/2011	40	0.00132 J	< 0.0140	< 0.0421	< 0.0351
		10/13/2011	45	0.00108 J	< 0.0142	< 0.0426	< 0.0355
		10/13/2011	60	0.000834 J	< 0.0116	< 0.0348	< 0.0290
		10/13/2011	65	0.00121 J	< 0.0136	< 0.0407	< 0.0339
		10/13/2011	70	0.00156 J	< 0.0145	< 0.0436	< 0.0364
		10/13/2011	75	0.00155 J	< 0.0149	< 0.0447	< 0.0372
URS-SB-14	URS	10/11/2011	35	0.000783 J	< 0.00954	< 0.0286	< 0.0239
		10/11/2011	40	0.00136 J	< 0.0112	< 0.0335	< 0.0279
		10/11/2011	45	0.000468 J	< 0.0117	< 0.0351	< 0.0293
		10/11/2011	50	0.000658 J	< 0.0101	< 0.0304	< 0.0253
		10/11/2011	55	0.000906 J	< 0.0126	< 0.0377	< 0.0314
		10/11/2011	60	0.000662 J	< 0.00946	< 0.0284	< 0.0237
		10/11/2011	65	0.000522 J	< 0.00915	< 0.0275	< 0.0229
		10/11/2011	70	0.00152 J	< 0.0137	< 0.0411	< 0.0343
		10/11/2011	75	0.00128 J	< 0.0104	< 0.0312	< 0.0260
URS-SB-15	URS	10/11/2011	35	0.00121 J	< 0.0126	< 0.0379	< 0.0316
		10/11/2011	40	0.000782 J	< 0.00921	< 0.0276	< 0.0230
		10/11/2011	45	0.00105 J	< 0.0128	< 0.0383	< 0.0319
		10/10/2011	50	0.00106 J	< 0.0128	< 0.0385	< 0.0321
		10/10/2011	55	0.000706 J	< 0.00851	< 0.0255	< 0.0213
		10/10/2011	60	0.000806 J	< 0.0101	< 0.0302	< 0.0252
		10/10/2011	65	0.00112 J	< 0.0140	< 0.0419	< 0.0349
		10/10/2011	70	0.00191 J	< 0.0127	< 0.0380	< 0.0317
		10/10/2011	75	0.00344 J	< 0.0119	< 0.0358	< 0.0298
URS-SB-17	URS	11/15/2011	40	0.000328 J	< 0.00937	< 0.0281	--
		11/15/2011	45	0.000329 J	< 0.00915	< 0.0274	--
		11/15/2011	65	0.000462 J	< 0.0122	< 0.0365	--
		11/15/2011	70	0.000829 J	< 0.0124	< 0.0371	--
		11/15/2011	75	0.00136 J	< 0.0156	< 0.0468	--
URS-SB-21	URS	11/17/2011	30	0.000393 J	< 0.0145	< 0.0436	--
		11/17/2011	35	0.000290 J	0.000290 J	< 0.0348	--
		11/17/2011	40	0.000766 J	0.000290 J	< 0.0348	--
		11/17/2011	45	0.000461 J	0.000270 J	< 0.0477	--
		11/17/2011	50	0.00113 J	< 0.0157	< 0.0470	--
		11/17/2011	60	0.000674 J	< 0.0104	< 0.0311	--
		11/17/2011	65	0.00127 J	< 0.0192	< 0.0576	--
		11/17/2011	70	0.00150 J	< 0.0203	< 0.0608	--
		11/17/2011	71.5	0.00121 J	< 0.0170	< 0.0510	--
		11/17/2011	73	0.00141 J	< 0.0156	< 0.0469	--
		11/17/2011	74.5	0.00192 J	< 0.0196	< 0.0588	--
		11/17/2011	80	0.00117 J	< 0.0143	< 0.0428	--
MTCA Method A or B Cleanup Levels				0.02 (A)	0.0071 (B)	none	0.1 (A)

Notes:

-- = constituent not analyzed.

< = constituent not detected at or above the stated laboratory practical quantitation limit.

bgs = below the ground surface

J = estimated value below laboratory Practical Quantitation Limit (PQL).

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act (WAC 173-340).

(A) = MTCA Method A Cleanup Level

(B) = MTCA Method B cleanup for the protection of groundwater. See Table 8 for information on basis for cleanup levels.

Table 7

Low Level Detections–Chemical Analytical Data for Groundwater Samples

Sterling Realty Organization Property at 10605 and 10619 NE 8th Street
Bellevue, Washington

Sample ID	Sample Date	Depth (feet bgs)	Naphthalene (µg/L)	Methylene Chloride (µg/L)	Chloroform (µg/L)	Chlorobenzene (µg/L)
Samples collected in 2011 (URS, 2011b)						
URS-MW-1	11/22/2011	29	< 1.00	< 1.00	< 1.00	0.120 J
URS-MW-2	11/21/2011	28.6	< 1.00	< 1.00	2.38	< 1.00
URS-MW-8 [1]	11/22/2011	75.5	< 1.00	0.190 J	< 1.00	< 1.00
B3/MW-3	11/22/2011	27	< 1.00	< 1.00	0.920 J	< 1.00
URS-SB-15	10/10/2011	75	0.23 J	< 1.00	< 1.00	< 1.00
MTCA Method A or B Cleanup Level			**160 (A)**	**5 (A)**	**14.1 (B)**	**160 (B)**

Notes:

[1] Sample from URS-MW-8 on 10/19/2011 was tested for Methyl Tert-Butyl Ether (MTBE). MTBE was detected at a concentration of 1.0 µg/L (MTCA Method A cleanup level is 20 µg/L).

< = constituent not detected at or above the stated laboratory practical quantitation limit.

bgs = below ground surface

J = estimated value

MTCA = Model Toxics Control Act (WAC 173-340).

(A) = MTCA Method A Cleanup Level

(B) = Standard Method B cleanup levels from CLARC tables. See Table 8 for information on basis for cleanup levels.

µg/L = micrograms per liter

Groundwater data from the Thinker Toys (source) property shown on Figures 15 and 16 are not included in this table.

APPENDIX B

Boring and Well Construction Logs

Coarse-Grained Soils - More than 50%[1] Retained on No. 200 Sieve	Gravels - More than 50%[1] of Coarse Fraction Retained on No. 4 Sieve	≤5% Fines	GW	Well-graded GRAVEL Well-graded GRAVEL WITH SAND
			GP	Poorly-graded GRAVEL Poorly-graded GRAVEL WITH SAND
		≥15% Fines	GM	SILTY GRAVEL SILTY GRAVEL WITH SAND
			GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND
	Sands - 50%[1] or More of Coarse Fraction Passes No. 4 Sieve	≤5% Fines	SW	Well-graded SAND Well-graded SAND WITH GRAVEL
			SP	Poorly-graded SAND Poorly-graded SAND WITH GRAVEL
		≥15% Fines	SM	SILTY SAND SILTY SAND WITH GRAVEL
			SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL
Fine-Grained Soils - 50%[1] or More Passes No. 200 Sieve	Silts and Clays Liquid Limit Less than 50%		ML	SILT SANDY or GRAVELLY SILT SILT WITH SAND SILT WITH GRAVEL
			CL	LEAN CLAY SANDY or GRAVELLY LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL
			OL	ORGANIC SILT SANDY or GRAVELLY ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL
	Silts and Clays Liquid Limit 50% or More		MH	ELASTIC SILT SANDY or GRAVELLY ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL
			CH	FAT CLAY SANDY or GRAVELLY FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL
			OH	ORGANIC CLAY SANDY or GRAVELLY ORGANIC CLAY ORGANIC CLAY WITH SAND ORGANIC CLAY WITH GRAVEL
Highly Organic Soils			PT	PEAT and other mostly organic soils

"WITH SILT" or "WITH CLAY" means 5 to 15% silt and clay, denoted by a "-" in the group name; e.g., SP-SM • "SILTY" or "CLAYEY" means >15% silt and clay • "WITH SAND" or "WITH GRAVEL" means 15 to 30% sand and gravel. • "SANDY" or "GRAVELLY" means >30% sand and gravel. • "Well-graded" means approximately equal amounts of fine to coarse grain sizes • "Poorly graded" means unequal amounts of grain sizes • Group names separated by "/" means soil contains layers of the two soil types; e.g., SM/ML.

Soils were described and identified in the field in general accordance with the methods described in ASTM D2488. Where indicated in the log, soils were classified using ASTM D2487 or other laboratory tests as appropriate. Refer to the report accompanying these exploration logs for details.

1. Estimated or measured percentage by dry weight
2. (SPT) Standard Penetration Test (ASTM D1586)
3. Determined by SPT, DCPT (ASTM STP399) or other field methods. See report text for details.

GEOTECHNICAL LAB TESTS

MC	=	Natural Moisture Content
GS	=	Grain Size Distribution
FC	=	Fines Content (% < 0.075 mm)
GH	=	Hydrometer Test
AL	=	Atterberg Limits
C	=	Consolidation Test
Str	=	Strength Test
OC	=	Organic Content (% Loss by Ignition)
Comp	=	Proctor Test
K	=	Hydraulic Conductivity Test
SG	=	Specific Gravity Test

CHEMICAL LAB TESTS

Organic Chemicals

BTEX	=	Benzene, Toluene, Ethylbenzene, Xylenes
TPH-Dx	=	Diesel and Oil-Range Petroleum Hydrocarbons
TPH-G	=	Gasoline-Range Petroleum Hydrocarbons
VOCs	=	Volatile Organic Compounds
SVOCs	=	Semi-Volatile Organic Compounds
PAHs	=	Polycyclic Aromatic Hydrocarbon Compounds
PCBs	=	Polychlorinated Biphenyls

Metals

RCRA8	=	As, Ba, Cd, Cr, Pb, Hg, Se, Ag, (d = dissolved, t = total)
MTCA5	=	As, Cd, Cr, Hg, Pb (d = dissolved, t = total)
PP-13	=	Ag, As, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn (d=dissolved, t=total)

FIELD TESTS

PID	=	Photoionization Detector
Sheen	=	Oil Sheen Test
SPT[2]	=	Standard Penetration Test
NSPT	=	Non-Standard Penetration Test
DCPT	=	Dynamic Cone Penetration Test

COMPONENT DEFINITIONS

Descriptive Term		*Size Range and Sieve Number*
Boulders	=	Larger than 12 inches
Cobbles	=	3 inches to 12 inches
Coarse Gravel	=	3 inches to 3/4 inches
Fine Gravel	=	3/4 inches to No. 4 (4.75 mm)
Coarse Sand	=	No. 4 (4.75 mm) to No. 10 (2.00 mm)
Medium Sand	=	No. 10 (2.00 mm) to No. 40 (0.425 mm)
Fine Sand	=	No. 40 (0.425 mm) to No. 200 (0.075 mm)
Silt and Clay	=	Smaller than No. 200 (0.075 mm)

ESTIMATED[1] PERCENTAGE

% by Weight		*Modifier*	*% by Weight*		*Modifier*
<1	=	Subtrace	15 to 25	=	Little
1 to <5	=	Trace	30 to 45	=	Some
5 to 10	=	Few	>50	=	Mostly

MOISTURE CONTENT

Dry	=	Absence of moisture, dusty, dry to the touch
Slightly Moist	=	Perceptible moisture
Moist	=	Damp but no visible water
Very Moist	=	Water visible but not free draining
Wet	=	Visible free water, usually from below water table

RELATIVE DENSITY

Non-Cohesive or Coarse-Grained Soils

Density[3]		*SPT*[2] *Blows/Foot*	*Penetration with 1/2" Diameter Rod*
Very Loose	=	0 to 4	≥ 2'
Loose	=	5 to 10	1' to 2'
Medium Dense	=	11 to 30	3" to 1'
Dense	=	31 to 50	1" to 3"
Very Dense	=	> 50	< 1"

CONSISTENCY

Cohesive or Fine-Grained Soils

Consistency[3]		*SPT*[2] *Blows/Foot*	*Manual Test*
Very Soft	=	0 to 1	Penetrated >1" easily by thumb. Extrudes between thumb & fingers.
Soft	=	2 to 4	Penetrated 1/4" to 1" easily by thumb. Easily molded.
Medium Stiff	=	5 to 8	Penetrated >1/4" with effort by thumb. Molded with strong pressure.
Stiff	=	9 to 15	Indented ~1/4" with effort by thumb.
Very Stiff	=	16 to 30	Indented easily by thumbnail.
Hard	=	> 30	Indented with difficulty by thumbnail.

GEOLOGIC CONTACTS

Observed and Distinct — Observed and Gradual — Inferred

Aspect CONSULTING

Exploration Log Key

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Northeastern corner of property		*Coordinates (SPN NAD83 ft)* E:1304000 N:228140	*Exploration Number* **AMW-1**
Contractor Cascade Drilling, Inc.	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 170.41'	Ecology Well Tag No. BLK382
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/26/2019	*Top of Casing Elev. (NAVD88)* 170.05'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	170	8 inch diam. monument in concrete					ASPHALT; with base course; 6 inches thick	0
							FILL SILT WITH SAND (ML); hard, slightly moist, light brown; non-plastic; trace fine sand; trace coarse gravel	
		2 inch diam. Sch. 40 PVC riser						
5	165	3/8 inch bentonite chips, hydrated			Blows (non-SPT)=14, 24, 43 PID=0.0 Sheen=None Chem or petro odor*=None		**GLACIAL TILL** SANDY SILT WITH GRAVEL (ML); hard, moist, light gray-brown; non-plastic; fine sand; fine to coarse gravel	5
10	160				Blows (non-SPT)=23, 50/6" PID=0.0 Sheen=None Chem or petro odor*=None			10
15	155			AMW-1-15.0 cVOCs, NWTPH-Dx, NWTPH-Gx	Blows (non-SPT)=43, 50/6" PID=0.0 Sheen=None Chem or petro odor*=None		Local rusty staining	15
20	150				Blows (non-SPT)=50/6" PID=0.0 Sheen=None Chem or petro odor*=None			20
					Blows (non-SPT)=50/6" PID=0.0 Sheen=None Chem or petro odor*=None		Becomes slightly moist; trace medium sand	

Legend

Sample Type
- No Soil Sample Recovery
- Split Barrel 3.25" X 2.375" (D&M)

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-1

Sheet 1 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Northeastern corner of property		*Coordinates (SPN NAD83 ft)* E:1304000 N:228140	*Exploration Number* **AMW-1**
Contractor Cascade Drilling, Inc.	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 170.41'	Ecology Well Tag No. BLK382
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/26/2019	*Top of Casing Elev. (NAVD88)* 170.05'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
	145				Blows (non-SPT)=31, 50/6" PID=0.0 Sheen=None Chem or petro odor*=None		**GLACIAL TILL** SANDY SILT WITH GRAVEL (ML); hard, moist, light gray-brown; non-plastic; fine sand; fine to coarse gravel (continued)	
					Blows (non-SPT)=50/6" PID=0.0 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); very dense, slightly moist, light gray; fine sand; fine to coarse gravel	
30	140				Blows (non-SPT)=50/6" PID=0.0 Sheen=None Chem or petro odor*=None			30
					Blows (non-SPT)=50/6" PID=0.0 Sheen=None Chem or petro odor*=None		Becomes dark gray, diamict fabric	
		2x12 silica sand filter pack						
35	135				Blows (non-SPT)=50/6" PID=1.0 Sheen=None Chem or petro odor*=None		SILT WITH SAND (ML); hard, moist, dark graynon-plastic; fine sand; trace fine gravel	35
		2 inch diam Sch 40 PVC slotted screen, 0.01 inch slot		AMW-1-37.5 cVOCs, NWTPH-Dx, NWTPH-Gx	Blows (non-SPT)=50/6" PID=5.7 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); very dense, very moist, light brown; medium to coarse sand; fine to coarse gravel; local rusty staining	
40	130				Blows (non-SPT)=50/6" PID=5.5 Sheen=Slight Chem or petro odor*=None		Becomes moist.	40
					Blows (non-SPT)=50/5" PID=5.6 Sheen=None Chem or petro odor*=None		Beomes slightly moist, gray	
45	125	Threaded cap		AMW-1-45.0 cVOCs, NWTPH-Dx, NWTPH-Gx	Blows (non-SPT)=50/6" PID=7.5 Sheen=None Chem or petro odor*=None		Bottom of exploration at 45.5 ft. bgs. Note: *Chemical-like or petroleum-like odor	45

Legend

Sample Type
- No Soil Sample Recovery
- Split Barrel 3.25" X 2.375" (D&M)

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-1
Sheet 2 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Northwestern corner of property		*Coordinates (SPN NAD83 ft)* E:1303700 N:228120	*Exploration Number* **AMW-2**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 157.17'	Ecology Well Tag No. BLT534
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/26/2019	*Top of Casing Elev. (NAVD88)* 156.52'	*Depth to Water (Below GS)* 75' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	157	8 inch diam. monument in concrete			PID=>1 Sheen=None Chem or petro odor*=None		**FILL** GRAVEL WITH SILT AND SAND (GP-GM); moist, gray; fine to coarse sand; fine angular (parking lot)	0
							GLACIAL TILL SAND WITH SILT AND GRAVEL (SP-SM); moist, light brown; fine to medium sand; trace fine to coarse gravel	
5	155	2 inch diam. Sch 40 PVC riser 0.5 to 70 ft	S1		PID=>1 Sheen=None Chem or petro odor*=None			5
	150	3/8 inch bentonite chips, hydrated, 4 to 68 ft						
10					PID=1250 Sheen=Slight Chem or petro odor*=Slight		Becomes gray	10
	145						SANDY SILT WITH GRAVEL (ML); moist, gray; fine to medium sand; fine gravel	
							SAND WITH SILT (SP-SM); moist, gray; medium to coarse sand	
15			S2				SANDY SILT WITH GRAVEL (ML); moist, brown; fine to coarse sand; fine to coarse gravel; diamict fabric	15
	140			AMW-2-19 cVOCs	PID=>15,000 Sheen=Moderate Chem or petro odor*=Strong			
20								20
					PID=3.5 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); moist, brown; fine to coarse sand; fine to coarse gravel; diamict fabric	
	135		S3					

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-2
Sheet 1 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Northwestern corner of property		*Coordinates (SPN NAD83 ft)* E:1303700 N:228120	*Exploration Number* **AMW-2**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 157.17'	Ecology Well Tag No. BLT534
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/26/2019	*Top of Casing Elev. (NAVD88)* 156.52'	*Depth to Water (Below GS)* 75' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
30	130		S3		PID=2.5 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); moist, brown; fine to coarse sand; fine to coarse gravel; diamict fabric (continued)	30
35	125		S4		PID=>1 Sheen=None Chem or petro odor*=None		Becomes brown and gray; with blobs of sandy silt Becomes wet	35
40	120		S5		PID=>1 Sheen=None Chem or petro odor*=None		Becomes moist	40
45	115	8 inch diam. conductor casing sealed with bentonite 42 to 45 ft 6 inch casing to 45 to 90 ft	S6		PID=>1 Sheen=None Chem or petro odor*=None		SANDY SILT WITH GRAVEL (ML); moist, gray brown; fine to coarse sand; fine to coarse gravel	45
	110							

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-2

Sheet 2 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location: 10605 NE 8th Street, Bellevue, Washington, Northwestern corner of property		Coordinates (SPN NAD83 ft): E:1303700 N:228120	Exploration Number: **AMW-2**
Contractor: AEC	Equipment: Sonic	Sampling Method: Rotary core	Ground Surface Elev. (NAVD88): 157.17'	Ecology Well Tag No. BLT534
Operator: Jeffrey Johnson	Exploration Method(s): Sonic	Work Start/Completion Dates: 9/26/2019	Top of Casing Elev. (NAVD88): 156.52'	Depth to Water (Below GS): 75' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
					PID=>1 Sheen=None Chem or petro odor*=None		SILTY SAND (SM); moist, gray brown; fine sand; trace gravel	
	105			AMW-2-54 cVOCs				
55			S7				SILTY SAND WITH GRAVEL (SM); moist, gray; fine to coarse sand; fine to coarse gravel; with few cobbles	55
	100				PID=>1 Sheen=None Chem or petro odor*=None		Becomes gray brown	
60								60
	95				PID=>1 Sheen=None Chem or petro odor*=None			
65			S8	AMW-2-65 cVOCs			SANDY SILT (ML); moist, gray; low plasticity; fine sand	65
	90				PID=>1 Sheen=None Chem or petro odor*=None			
		12x20 silica sand filter pack 68 to 90 ft					Becomes very moist	
70								70
	85	2 inch diam. Sch 40 PVC slotted screen, 0.010 inch slot, 70 to 90 ft	S9	AMW-2-72 cVOCs	PID=>1 Sheen=None Chem or petro odor*=None		Driller reports easy drilling	
		▽ 9/26/2019						

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-2

Sheet 3 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Northwestern corner of property		*Coordinates (SPN NAD83 ft)* E:1303700 N:228120	*Exploration Number* **AMW-2**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 157.17'	Ecology Well Tag No. BLT534
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/26/2019	*Top of Casing Elev. (NAVD88)* 156.52'	*Depth to Water (Below GS)* 75' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							GLACIAL OUTWASH SILTY SAND (SM); very moist, gray; fine sand	
	80		S9		PID=>1 Sheen=None Chem or petro odor*=None			
80				AMW-2-81 cVOCs			Becomes wet, dark gray; fine to medium sand	80
	75				PID=>1 Sheen=None Chem or petro odor*=None			
							Becomes fine sand; rapid dilatency	
85			S10					85
	70				PID=>1 Sheen=None Chem or petro odor*=None			
90		Threaded cap					Bottom of exploration at 90 ft. bgs. Note: *Chemical-like or petroleum-like odor	90
	65							
95								95
	60							

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-2
Sheet 4 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Eastern portion of gravel parking lot		*Coordinates (SPN NAD83 ft)* E:1303800 N:228070	*Exploration Number* **AMW-3D**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 156.14'	Ecology Well Tag No. BLT536
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/30/2019	*Top of Casing Elev. (NAVD88)* 155.76'	*Depth to Water (Below GS)* 72.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0	155	8 inch diam. flush monument in concrete			PID=<1 Sheen=Slight Chem or petro odor*=None		SILTY GRAVEL WITH SAND (GM); ; moist, gray; angular gravel (parking lot)	0
							FILL SILTY SAND WITH GRAVEL (SM); slightly moist, dark brown; fine to medium sand; fine to coarse gravel; orange-brown laminae	
							GLACIAL TILL SILTY SAND WITH GRAVEL (SM); moist, gray; fine sand; fine to coarse gravel	
		2 inch diam. Sch 40 PVC riser 0 to 70 ft						
5	150				PID=<1 Sheen=Slight Chem or petro odor*=None			5
		3/8 inch bentonite chips, hydrated, 4 to 68 ft					Becomes medium to coarse sand	
10	145				PID=<1 Sheen=Slight Chem or petro odor*=None		Becomes brown gray	10
							Thin bed coarse sand	
15	140				PID=<1 Sheen=Slight Chem or petro odor*=None		Becomes more competent	15
				AMW-2-19 cVOCs				
20	135				PID=1.3 Sheen=Slight Chem or petro odor*=None		Becomes moist; waxy sheen	20

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-3D
Sheet 1 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Eastern portion of gravel parking lot		*Coordinates (SPN NAD83 ft)* E:1303800 N:228070	*Exploration Number* **AMW-3D**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 156.14'	Ecology Well Tag No. BLT536
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/30/2019	*Top of Casing Elev. (NAVD88)* 155.76'	*Depth to Water (Below GS)* 72.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							GLACIAL TILL SILTY SAND WITH GRAVEL (SM); moist, gray; fine sand; fine to coarse gravel (continued)	
	130				PID=1.4 Sheen=Slight Chem or petro odor*=None		Becomes slightly moist	
30								30
	125				PID=1.4 Sheen=None Chem or petro odor*=None		SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, light gray-brown; fine to medium sand; fine to coarse gravel; trace fine sand, trace cobbles; less competent	
35							Becomes moist	35
	120				PID=2.6 Sheen=None Chem or petro odor*=None			
40								40
	115				PID=2 Sheen=None Chem or petro odor*=None		SILTY SAND (SM); very moist, gray; fine to medium sand; fine gravel; trace coarse sand Becomes slightly moist	
		8 inch diam. conductor casing sealed with bentonite 42 to 45 ft					SILTY SAND WITH GRAVEL (SM); slightly moist, gray-brown; fine to coarse sand; fine to coarse gravel	
45								45
	110	6 inch casing to 45 to 90 ft			PID=1.5 Sheen=Slight Chem or petro odor*=None		Sand and gravel become subangular	

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-3D
Sheet 2 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Eastern portion of gravel parking lot		*Coordinates (SPN NAD83 ft)* E:1303800 N:228070	*Exploration Number* **AMW-3D**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 156.14'	Ecology Well Tag No. BLT536
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/30/2019	*Top of Casing Elev. (NAVD88)* 155.76'	*Depth to Water (Below GS)* 72.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							SILTY SAND WITH GRAVEL (SM); slightly moist, gray-brown; fine to coarse sand; fine to coarse gravel (continued)	
	105				PID=3.4 Sheen=None Chem or petro odor*=None			
				AMW-2-54 cVOCs			Becomes dry, dusty, light brown	
55							Becomes very moist	55
	100				PID=9.6 Sheen=None Chem or petro odor*=None			
							Becomes slightly moist	
60								60
	95				PID=5.5 Sheen=None Chem or petro odor*=None			
				AMW-2-65 cVOCs				
65								65
	90				PID=1.7 Sheen=None Chem or petro odor*=None		**GLACIAL OUTWASH** SANDY SILT (ML); very moist to wet, brown; low plasticity; fine to medium sand; slow dilatancy; trace gravel	
		12x20 silica sand filter pack 68 to 90 ft					Rusty staining	
70							Becomes dark gray	70
	85				PID=3.9 Sheen=None Chem or petro odor*=None			
		▽ 9/30/2019		AMW-2-72 cVOCs			Becomes medium to coarse sand, no gravel	
		2 inch diam. Sch 40 PVC slotted screen, 0.010 inch slot, 70 to 90 ft						

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-3D
Sheet 3 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Eastern portion of gravel parking lot		*Coordinates (SPN NAD83 ft)* E:1303800 N:228070	*Exploration Number* **AMW-3D**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 156.14'	Ecology Well Tag No. BLT536
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/30/2019	*Top of Casing Elev. (NAVD88)* 155.76'	*Depth to Water (Below GS)* 72.5' (ATD)

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
80	80				PID=3 Sheen=Slight Chem or petro odor*=None		**GLACIAL OUTWASH** SANDY SILT (ML); very moist to wet, brown; low plasticity; fine to medium sand; slow dilatancy; trace gravel (continued) Becomes fine to coarse sand	80
85	75			AMW-2-81 cVOCs	PID=2.5 Sheen=Moderate Chem or petro odor*=None		SILT WITH SAND (ML); wet, dark gray; low pasticity; fine sand; rapid dilatancy	85
90	70	Threaded cap			PID=3.9 Sheen=Moderate Chem or petro odor*=None		Bottom of exploration at 90 ft. bgs. Note: *Chemical-like or petroleum-like odor	90
95	65							95
	60							

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- ▽ Water Level ATD

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-3D
Sheet 4 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Eastern portion of gravel parking lot		*Coordinates (SPN NAD83 ft)* E:1303800 N:228080	*Exploration Number* **AMW-3S**
Contractor Cascade	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 156.61'	Ecology Well Tag No. BLK385
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/27/2019	*Top of Casing Elev. (NAVD88)* 156.17'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8 inch diam. flush monument in concrete					SILTY GRAVEL WITH SAND (GM); ; moist, gray; angular gravel (parking lot)	
	155	2 inch diam. Sch. 40 PVC riser					**FILL** SILTY GRAVEL (GM); moist, gray-brown(from cuttings)	
5		3/8 inch bentonite chips, hydrated			Blows (non-SPT)=3,10,20 PID=>1 Sheen=None Chem or petro odor*=None		**WEATHERED GLACIAL TILL** SAND WITH SILT AND GRAVEL (SP-SM); dense, moist, mottled gray brown; fime to medium sand; fine gravel Thin bed dark brown silty sand with organics	5
	150							
10					Blows (non-SPT)=19,50/5" PID=>1 Sheen=None Chem or petro odor*=None		**GLACIAL TILL** SILTY SAND (SM); very dense, moist, gray; fine to medium sand; trace gravel	10
	145							
15					Blows (non-SPT)=25,50/5" PID=>1 Sheen=None Chem or petro odor*=None		Thin bed orange-brown	15
	140							
20					Blows (non-SPT)=22,30,50/4" PID=>1 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); very dense, moist, gray brown; fine to medium sand; fine to coarse gravel Becomes wet	20
	135				Blows (non-SPT)=32,50/5" PID=>1 Sheen=None Chem or petro odor*=None		Becomes moist	

Legend

Sample Type: Split Barrel 3.25" X 2.375" (D&M)

Water Level: No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-3S

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Eastern portion of gravel parking lot		*Coordinates (SPN NAD83 ft)* E:1303800 N:228080	*Exploration Number* **AMW-3S**
Contractor Cascade	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 156.61'	Ecology Well Tag No. BLK385
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/27/2019	*Top of Casing Elev. (NAVD88)* 156.17'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
					Blows (non-SPT)=30,34,40 PID=>1 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); very dense, moist, gray brown; fine to medium sand; fine to coarse gravel (continued) Thin bed orange-brown	
	130			AMW-3S-27.5 cVOC's	Blows (non-SPT)=26,54/6" PID=>1 Sheen=None Chem or petro odor*=None			
30					Blows (non-SPT)=50/6" PID=>1 Sheen=None Chem or petro odor*=None		Becomes very moist, mottled orange-brown and gray	30
	125	2x12 silica sand filter pack			Blows (non-SPT)=39,50/4" PID=>1 Sheen=None Chem or petro odor*=None			
35		2 inch diam Sch 40 PVC slotted screen, 0.01 inch slot		AMW-3S-35.0 cVOC's	Blows (non-SPT)=37,50/4" PID=>1 Sheen=None Chem or petro odor*=None		Moist, gray with thin bed orange-brown	35
	120				Blows (non-SPT)=38,54/5" PID=>1 Sheen=None Chem or petro odor*=None		Becomes very moist; fine to coarse sand	
40		Threaded cap			Blows (non-SPT)=50/6" PID=>1 Sheen=None Chem or petro odor*=None		Bottom of exploration at 40.5 ft. bgs. Note: *Chemical-like or petroleum-like odor	40
	115							
45								45
	110							

Legend

Sample Type: Split Barrel 3.25" X 2.375" (D&M)

Water Level: No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-3S
Sheet 2 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Southern portion of property		*Coordinates (SPN NAD83 ft)* E:1303800 N:228000	*Exploration Number* **AMW-4D**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 153.25'	Ecology Well Tag No. BLT535
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/27/2019	*Top of Casing Elev. (NAVD88)* 152.89'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
0		8 inch diam. flush monument in concrete					ASPHALT; with base course	
							FILL SILTY SAND (SM); loose, slightly moist, dark brown; fine sand; trace fine gravel; asphalt debris	
	150	2 inch diam. Sch 40 PVC riser 0 to 70 ft					Vacuum excavated to 5 ft	
5							**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); slightly moist, light gray; fine to medium sand; fine gravel	5
	145	3/8 inch bentonite chips, hydrated, 4 to 68 ft			PID=6.6 Sheen=Moderate Chem or petro odor*=None			
10							Becomes siltier, fine to coarse gravel	10
					PID=8.2 Sheen=Moderate Chem or petro odor*=None		SILTY SAND (SM); moist, gray; fine sand; fine gravel	
	140							
15					PID=6.6 Sheen=Slight Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); very moist, light brown; medium to coarse sand; fine to coarse gravel	15
					PID=3.4 Sheen=Slight Chem or petro odor*=None			
	135						Becomes moist	
					PID=2.5 Sheen=Slight Chem or petro odor*=None			
20							Becomes siltier, fine to medium sand	20
	130				PID=5.8 Sheen=Slight Chem or petro odor*=None		Becomes fine to coarse sand	

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-4D

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Southern portion of property		*Coordinates (SPN NAD83 ft)* E:1303800 N:228000	*Exploration Number* **AMW-4D**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 153.25'	Ecology Well Tag No. BLT535
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/27/2019	*Top of Casing Elev. (NAVD88)* 152.89'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
					PID=4 Sheen=Moderate Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); very moist, light brown; medium to coarse sand; fine to coarse gravel (continued)	
							SAND WITH SILT AND GRAVEL (SP-SM); slightly moist, gray-brown; medium to coarse sand; fine to coarse gravel	
					PID=3.7 Sheen=None Chem or petro odor*=None			
	125						SILTY SAND WITH GRAVEL (SM); very moist, gray; medium to coarse sand; fine gravel; local rusty staining	
30					PID=3.7 Sheen=Slight Chem or petro odor*=None			30
					PID=28.5 Sheen=Moderate Chem or petro odor*=None			
	120						SANDY SILT (ML); moist, dark gray; non-plastic; fine sand	
35				AMW-4D-35 cVOCs	PID=0.7 Sheen=Slight Chem or petro odor*=None			35
							SILTY SAND WITH GRAVEL (SM); moist, gray-brown; medium to coarse sand; fine to coarse gravel	
					PID=0.7 Sheen=None Chem or petro odor*=None			
	115							
40					PID=1.1 Sheen=None Chem or petro odor*=None		Becomes fine to coarse sand	40
	110	8 inch diam. conductor casing sealed with bentonite 42 to 45 ft					Becomes fine to medium sand	
45		6 inch casing to 45 to 90 ft			PID=3.1 Sheen=Slight Chem or petro odor*=None			45
					PID=5.1 Sheen=Slight Chem or petro odor*=None			
	105						Becomes fine to coarse sand	

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-4D
Sheet 2 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Southern portion of property		*Coordinates (SPN NAD83 ft)* E:1303800 N:228000	*Exploration Number* **AMW-4D**
Contractor AEC	*Equipment* Sonic	*Sampling Method* Rotary core	*Ground Surface Elev. (NAVD88)* 153.25'	Ecology Well Tag No. BLT535
Operator Jeffrey Johnson	*Exploration Method(s)* Sonic	*Work Start/Completion Dates* 9/27/2019	*Top of Casing Elev. (NAVD88)* 152.89'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
				AMW-4D-50 cVOCs	PID=5.8 Sheen=Slight Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); moist, gray-brown; medium to coarse sand; fine to coarse gravel (continued)	
					PID=4.4 Sheen=Moderate Chem or petro odor*=None			
	100							
55				AMW-4D-55 cVOCs	PID=4 Sheen=Moderate Chem or petro odor*=None			55
							SILTY GRAVEL WITH SAND (GM); slightly moist, light gray; fine to coarse sand; fine to coarse gravel	
					PID=5.7 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); moist, dark gray; fine to coarse sand; fine to coarse gravel	
	95							
							SILTY SAND (SM); slightly moist, gray; fine to medium sand; local rusty staining	
60				AMW-4D-60 cVOCs	PID=5.9 Sheen=None Chem or petro odor*=None			60
							Becomes dark brown	
					PID=4.8 Sheen=Slight Chem or petro odor*=None			
	90							
				AMW-4D-63.5 cVOCs	PID=5.3 Sheen=None Chem or petro odor*=None			
							Becomes light brown	
65					PID=2.8 Sheen=Slight Chem or petro odor*=None		SANDY SILT (ML); moist, dark gray; non-plastic; fine sand; trace gravel	65
					PID=5.2 Sheen=Slight Chem or petro odor*=None			
	85	12x20 silica sand filter pack 68 to 90 ft						
				AMW-4D-69.5 cVOCs	PID=5.6 Sheen=None Chem or petro odor*=None			
70							**GLACIAL OUTWASH** SILTY SAND (SM); moist, dark gray; fine to medium sand; trace coarse sand	70
					PID=3.5 Sheen=None Chem or petro odor*=None			
	80	2 inch diam. Sch 40 PVC slotted screen, 0.010 inch slot, 70 to 90 ft						

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-4D
Sheet 3 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING

NE 8th & 106th - 190298

Monitoring Well Log

Project Address & Site Specific Location	Coordinates (SPN NAD83 ft)	Exploration Number
10605 NE 8th Street, Bellevue, Washington, Southern portion of property	E:1303800 N:228000	**AMW-4D**

Contractor	Equipment	Sampling Method	Ground Surface Elev. (NAVD88)	
AEC	Sonic	Rotary core	153.25'	Ecology Well Tag No. BLT535
Operator	**Exploration Method(s)**	**Work Start/Completion Dates**	**Top of Casing Elev. (NAVD88)**	**Depth to Water (Below GS)**
Jeffrey Johnson	Sonic	9/27/2019	152.89'	No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
					PID=5.3 Sheen=Slight Chem or petro odor*=None		SILT (ML); very moist, dark gray; non-plastic; trace fine sand; rapid dilatancy	
80	75			AMW-4D-80 cVOCs	PID=3.9 Sheen=Moderate Chem or petro odor*=None			80
	70							
85					PID=0 Sheen=Slight Chem or petro odor*=None		SILT WITH SAND (ML); moist, gray; non-plastic; fine sand	85
	65							
90		Threaded cap			PID=5 Sheen=Slight Chem or petro odor*=None		Bottom of exploration at 90 ft. bgs.	90
	60						Note: *Chemical-like or petroleum-like odor	
95								95
	55							

Legend

Sample Type
- Continuous core 7" ID
- Continuous core 4" ID

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-4D

Sheet 4 of 4

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Southern portion of property		*Coordinates (SPN NAD83 ft)* E:1303800 N:228000	*Exploration Number* **AMW-4S**
Contractor Cascade	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 153.36'	Ecology Well Tag No. BLK383
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/26/2019	*Top of Casing Elev. (NAVD88)* 153'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8 inch diam. flush monument set in concrete					ASPHALT; with base course	
							FILL SILTY SAND (SM); loose, slightly moist, dark brown; fine sand; trace fine gravel; asphalt debris	
	150	2 inch diam. Sch. 40 PVC riser					Vacuum excavated to 5 ft	
5					Blows (non-SPT)=4,4,5 PID=36.5 Sheen=Moderate Chem or petro odor*=Moderate		**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); dense, slightly moist, light brown; fine to medium sand; fine to coarse gravel	5
		3/8 inch bentonite chips, hydrated						
	145							
10				AMW-4S-10.0 cVOCs	Blows (non-SPT)=22, 50/6" PID=28.8 Sheen=Moderate Chem or petro odor*=Slight			10
	140							
15				AMW-4S-15.0 cVOCs	Blows (non-SPT)=34, 50/6" PID=36.4 Sheen=Moderate Chem or petro odor*=Slight			15
	135							
20					Blows (non-SPT)=50/6" PID=26.8 Sheen=Moderate Chem or petro odor*=Slight		Becomes slightly moist	20
	130				Blows (non-SPT)=50/6" PID=42.4 Sheen=Moderate Chem or petro odor*=Moderate			

Legend

Sample Type
- No Soil Sample Recovery
- Split Barrel 3.25" X 2.375" (D&M)

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-4S
Sheet 1 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Southern portion of property		*Coordinates (SPN NAD83 ft)* E:1303800 N:228000	*Exploration Number* **AMW-4S**
Contractor Cascade	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 153.36'	Ecology Well Tag No. BLK383
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/26/2019	*Top of Casing Elev. (NAVD88)* 153'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
					Blows (non-SPT)=50/6" PID=48.2 Sheen=Moderate Chem or petro odor*=Moderate		**GLACIAL TILL** SILTY SAND WITH GRAVEL (SM); dense, slightly moist, light brown; fine to medium sand; fine to coarse gravel (continued) Becomes dark gray brown	
	125				Blows (non-SPT)=30, 50/6" PID=48.5 Sheen=Slight Chem or petro odor*=None			
30					Blows (non-SPT)=30, 50/6" PID=41.1 Sheen=Slight Chem or petro odor*=None		Becomes very moist; fine sand, trace medium sand	30
	120	2x12 silica sand filter pack			Blows (non-SPT)=22, 50/6" PID=30.2 Sheen=Slight Chem or petro odor*=None			
35					Blows (non-SPT)=29,30,33 PID=34.3 Sheen=None Chem or petro odor*=None		Becomes moist	35
		2 inch diam Sch 40 PVC slotted screen, 0.01 inch slot			Blows (non-SPT)=36, 50/6" PID=35.0 Sheen=None Chem or petro odor*=None		Becomes slightly moist	
	115							
40					Blows (non-SPT)=50/6" PID=39.6 Sheen=None Chem or petro odor*=None		SILTY SAND (SM); very dense, very moist, gray; fine to medium sand; trace gravel	40
					Blows (non-SPT)=50/6" PID=34.0 Sheen=None Chem or petro odor*=None		Becomes moist	
	110							
45		Threaded cap			Blows (non-SPT)=50/6" PID=26.7 Sheen=None Chem or petro odor*=None		Bottom of exploration at 45.5 ft. bgs. Note: *Chemical-like or petroleum-like odor	45
	105							

Legend

Sample Type
- No Soil Sample Recovery
- Split Barrel 3.25" X 2.375" (D&M)

Water Level
- No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: ACO
Approved by: Mv 2019-11-07

Exploration Log AMW-4S
Sheet 2 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Southeastern portion of property		*Coordinates (SPN NAD83 ft)* E:1303800 N:228000	*Exploration Number* **AMW-5**
Contractor Cascade	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 154.25'	Ecology Well Tag No. BLK384
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/27/2019	*Top of Casing Elev. (NAVD88)* 153.85'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		8 inch diam. flush monument set in concrete					ASPHALT; with base course	
							FILL SILTY SAND WITH GRAVEL (SM); moist, light brown-gray; fine to coarse sand; fine to coarse gravel; massive	
		2 inch diam. Sch. 40 PVC riser						
	150							
5		3/8 inch bentonite chips, hydrated		AMW-5S-5.0 cVOCs	Blows (non-SPT)=23, 30, 45 PID=0.0 Sheen=None Chem or petro odor*=None		**GLACIAL TILL** SILTY SAND (SM); moist, light brown; fine to medium sand; trace fine gravel; faint stratification	5
	145							
10				AMW-5S-10.0 cVOCs	Blows (non-SPT)=20, 30, 34 PID=0.0 Sheen=None Chem or petro odor*=None			10
	140							
15				AMW-5S-15.0 cVOCs	Blows (non-SPT)=46, 50/5" PID=0.0 Sheen=None Chem or petro odor*=None			15
	135							
20				AMW-5S-20.0 cVOCs	Blows (non-SPT)=50/6" PID=0.0 Sheen=None Chem or petro odor*=None			20
					Blows (non-SPT)=50/5" PID=0.0 Sheen=None Chem or petro odor*=None		Few thin horizontal orange-brown bands; no gravel	
	130							

Legend

Sample Type: Split Barrel 3.25" X 2.375" (D&M)

Water Level: No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-5

Sheet 1 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

Aspect CONSULTING	NE 8th & 106th - 190298		Monitoring Well Log	
	Project Address & Site Specific Location 10605 NE 8th Street, Bellevue, Washington, Southeastern portion of property		*Coordinates (SPN NAD83 ft)* E:1303800 N:228000	*Exploration Number* **AMW-5**
Contractor Cascade	*Equipment* Mobile B-59 truck-mount	*Sampling Method* 300 lb downhole hammer	*Ground Surface Elev. (NAVD88)* 154.25'	Ecology Well Tag No. BLK384
Operator James Goble	*Exploration Method(s)* 8.5" OD X 4.25" ID Hollow-Stem Auger	*Work Start/Completion Dates* 9/27/2019	*Top of Casing Elev. (NAVD88)* 153.85'	*Depth to Water (Below GS)* No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
					Blows (non-SPT)=50/5" PID=0.0 Sheen=None Chem or petro odor*=None		**GLACIAL TILL** SILTY SAND (SM); moist, light brown; fine to medium sand; trace fine gravel; faint stratification (continued)	
30	125	12x20 silica sand filter pack			Blows (non-SPT)=45, 50/3" PID=0.0 Sheen=None Chem or petro odor*=None		SANDY SILT WITH GRAVEL (ML); moist, brown; non-plastic; fine to medium sand; fine gravel	30
		2 inch diam Sch 40 PVC slotted screen, 0.01 inch slot			Blows (non-SPT)=40, 50/4" PID=0.0 Sheen=None Chem or petro odor*=None		SILTY SAND (SM); very moist, brown; fine to medium sand; thin horizontal orange-brown beds	
35	120			AMW-5S-35.0 cVOCs	Blows (non-SPT)=37, 50/4" PID=1.0 Sheen=None Chem or petro odor*=None			35
					Blows (non-SPT)=44, 52/5" PID=5.7 Sheen=None Chem or petro odor*=None		SILTY SAND WITH GRAVEL (SM); moist, gray, brown, red-brown; fine to coarse sand; fine to coarse gravel	
40	115	Threaded cap			Blows (non-SPT)=44, 50/5" PID=5.5 Sheen=Slight Chem or petro odor*=None		Becomes slightly moist	40
							Bottom of exploration at 40.9 ft. bgs. Note: *Chemical-like or petroleum-like odor	
45	110							45
	105							

Legend

Sample Type: Split Barrel 3.25" X 2.375" (D&M)

Water Level: No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: MVA
Approved by: Mv 2019-11-07

Exploration Log AMW-5
Sheet 2 of 2

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINTW\PROJECTS\SCHNITZER NE 8TH - 190298.GPJ February 7, 2020

APPENDIX C

Laboratory Reports

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 21, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

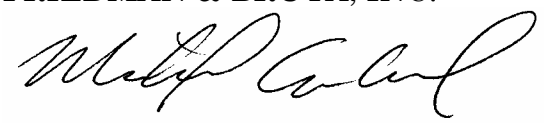
Dear Ms Smith:

Included are the results from the testing of material submitted on August 16, 2019 from the NE 8th & 106 PO 160298, F&BI 908335 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP0821R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 16, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th & 106 PO 160298, F&BI 908335 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
908335 -01	B4/MW-4-081519
908335 -02	URS-MW-8-081519
908335 -03	MW-20-081519
908335 -04	MW-19-081519
908335 -05	B2/MW-2-081519
908335 -06	Trip Blank

All quality control requirements were acceptable.

Date of Report: 08/21/19
Date Received: 08/16/19
Project: NE 8th & 106 PO 160298, F&BI 908335
Date Extracted: 08/19/19
Date Analyzed: 08/19/19

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
MW-20-081519 908335-03	<100	107
Method Blank 09-1962 MB	<100	110

Date of Report: 08/21/19
Date Received: 08/16/19
Project: NE 8th & 106 PO 160298, F&BI 908335
Date Extracted: 08/19/19
Date Analyzed: 08/19/19

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 47-140)
MW-20-081519 908335-03	70 x	<250	106
Method Blank 09-2048 MB	<50	<250	106

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B4/MW-4-081519	Client:	Aspect Consulting, LLC
Date Received:	08/16/19	Project:	NE 8th & 106 PO 160298
Date Extracted:	08/16/19	Lab ID:	908335-01
Date Analyzed:	08/16/19	Data File:	081638.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	92	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	URS-MW-8-081519	Client:	Aspect Consulting, LLC
Date Received:	08/16/19	Project:	NE 8th & 106 PO 160298
Date Extracted:	08/16/19	Lab ID:	908335-02
Date Analyzed:	08/16/19	Data File:	081639.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	94	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-20-081519	Client:	Aspect Consulting, LLC
Date Received:	08/16/19	Project:	NE 8th & 106 PO 160298
Date Extracted:	08/16/19	Lab ID:	908335-03
Date Analyzed:	08/16/19	Data File:	081640.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	94	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	2.9
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-19-081519	Client:	Aspect Consulting, LLC
Date Received:	08/16/19	Project:	NE 8th & 106 PO 160298
Date Extracted:	08/16/19	Lab ID:	908335-04
Date Analyzed:	08/16/19	Data File:	081641.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	92	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	5.8
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B2/MW-2-081519	Client:	Aspect Consulting, LLC
Date Received:	08/16/19	Project:	NE 8th & 106 PO 160298
Date Extracted:	08/16/19	Lab ID:	908335-05
Date Analyzed:	08/16/19	Data File:	081642.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	93	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th & 106 PO 160298
Date Extracted:	08/16/19	Lab ID:	09-1883 mb
Date Analyzed:	08/16/19	Data File:	081625.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	95	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Date of Report: 08/21/19
Date Received: 08/16/19
Project: NE 8th & 106 PO 160298, F&BI 908335

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 908315-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	94	69-134

Date of Report: 08/21/19
Date Received: 08/16/19
Project: NE 8th & 106 PO 160298, F&BI 908335

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	80	88	61-133	10

Date of Report: 08/21/19
Date Received: 08/16/19
Project: NE 8th & 106 PO 160298, F&BI 908335

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 908315-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<1	107	10-172
Chloromethane	ug/L (ppb)	50	<10	109	25-166
Vinyl chloride	ug/L (ppb)	50	<0.2	115	36-166
Bromomethane	ug/L (ppb)	50	<1	115	47-169
Chloroethane	ug/L (ppb)	50	<1	106	46-160
Trichlorofluoromethane	ug/L (ppb)	50	<1	116	44-165
Acetone	ug/L (ppb)	250	<50	56	10-182
1,1-Dichloroethene	ug/L (ppb)	50	<1	118	60-136
Hexane	ug/L (ppb)	50	<1	93	52-150
Methylene chloride	ug/L (ppb)	50	<5	105	67-132
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	115	74-127
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	113	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	109	70-128
2,2-Dichloropropane	ug/L (ppb)	50	<1	96	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	113	71-127
Chloroform	ug/L (ppb)	50	<1	109	65-132
2-Butanone (MEK)	ug/L (ppb)	250	<10	68	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	102	48-149
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	111	60-146
1,1-Dichloropropene	ug/L (ppb)	50	<1	108	69-133
Carbon tetrachloride	ug/L (ppb)	50	<1	114	56-152
Benzene	ug/L (ppb)	50	<0.35	102	76-125
Trichloroethene	ug/L (ppb)	50	<1	108	66-135
1,2-Dichloropropane	ug/L (ppb)	50	<1	100	78-125
Bromodichloromethane	ug/L (ppb)	50	<1	105	61-150
Dibromomethane	ug/L (ppb)	50	<1	104	66-141
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	105	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	100	72-132
Toluene	ug/L (ppb)	50	<1	96	76-122
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	94	76-130
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	100	68-131
2-Hexanone	ug/L (ppb)	250	<10	75	10-185
1,3-Dichloropropane	ug/L (ppb)	50	<1	97	71-128
Tetrachloroethene	ug/L (ppb)	50	<1	101	10-226
Dibromochloromethane	ug/L (ppb)	50	<1	103	70-139
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	96	69-134
Chlorobenzene	ug/L (ppb)	50	<1	99	77-122
Ethylbenzene	ug/L (ppb)	50	<1	99	69-135
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	107	73-137
m,p-Xylene	ug/L (ppb)	100	<2	100	69-135
o-Xylene	ug/L (ppb)	50	<1	101	60-140
Styrene	ug/L (ppb)	50	<1	99	71-133
Isopropylbenzene	ug/L (ppb)	50	<1	101	65-142
Bromoform	ug/L (ppb)	50	<1	107	65-142
n-Propylbenzene	ug/L (ppb)	50	<1	98	58-144
Bromobenzene	ug/L (ppb)	50	<1	99	75-124
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	98	66-137
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	99	51-154
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	95	53-150
2-Chlorotoluene	ug/L (ppb)	50	<1	97	66-127
4-Chlorotoluene	ug/L (ppb)	50	<1	98	65-130
tert-Butylbenzene	ug/L (ppb)	50	<1	97	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	97	59-146
sec-Butylbenzene	ug/L (ppb)	50	<1	97	64-140
p-Isopropyltoluene	ug/L (ppb)	50	<1	98	65-141
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	104	72-123
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	101	69-126
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	104	69-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	103	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	116	66-136
Hexachlorobutadiene	ug/L (ppb)	50	<1	100	60-143
Naphthalene	ug/L (ppb)	50	<1	110	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	113	69-148

Date of Report: 08/21/19
Date Received: 08/16/19
Project: NE 8th & 106 PO 160298, F&BI 908335

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	97	97	25-158	0
Chloromethane	ug/L (ppb)	50	101	101	45-156	0
Vinyl chloride	ug/L (ppb)	50	103	107	50-154	4
Bromomethane	ug/L (ppb)	50	104	108	55-143	4
Chloroethane	ug/L (ppb)	50	97	101	58-146	4
Trichlorofluoromethane	ug/L (ppb)	250	108	112	50-150	4
Acetone	ug/L (ppb)	250	56	56	53-131	0
1,1-Dichloroethene	ug/L (ppb)	50	109	113	67-136	4
Hexane	ug/L (ppb)	50	97	97	57-137	0
Methylene chloride	ug/L (ppb)	50	98	100	39-148	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	110	111	64-147	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	107	109	68-128	2
1,1-Dichloroethane	ug/L (ppb)	50	104	107	79-121	3
2,2-Dichloropropane	ug/L (ppb)	50	102	107	55-143	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	107	111	80-123	4
Chloroform	ug/L (ppb)	50	104	107	80-121	3
2-Butanone (MEK)	ug/L (ppb)	250	73	73	57-149	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	101	104	73-132	3
1,1,1-Trichloroethane	ug/L (ppb)	50	107	109	81-125	2
1,1-Dichloropropene	ug/L (ppb)	50	106	107	77-129	1
Carbon tetrachloride	ug/L (ppb)	50	108	112	75-158	4
Benzene	ug/L (ppb)	50	100	102	69-134	2
Trichloroethene	ug/L (ppb)	50	106	108	79-113	2
1,2-Dichloropropane	ug/L (ppb)	50	101	103	77-123	2
Bromodichloromethane	ug/L (ppb)	50	105	107	81-133	2
Dibromomethane	ug/L (ppb)	50	105	108	82-125	3
4-Methyl-2-pentanone	ug/L (ppb)	250	109	111	65-138	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	104	107	82-132	3
Toluene	ug/L (ppb)	50	95	97	72-122	2
trans-1,3-Dichloropropene	ug/L (ppb)	50	100	101	80-136	1
1,1,2-Trichloroethane	ug/L (ppb)	50	100	103	75-124	3
2-Hexanone	ug/L (ppb)	250	80	81	60-136	1
1,3-Dichloropropane	ug/L (ppb)	50	99	100	76-126	1
Tetrachloroethene	ug/L (ppb)	50	100	102	76-121	2
Dibromochloromethane	ug/L (ppb)	50	104	105	84-133	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	97	99	82-115	2
Chlorobenzene	ug/L (ppb)	50	99	100	83-114	1
Ethylbenzene	ug/L (ppb)	50	99	101	77-124	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	103	106	84-127	3
m,p-Xylene	ug/L (ppb)	100	99	101	81-112	2
o-Xylene	ug/L (ppb)	50	98	101	81-121	3
Styrene	ug/L (ppb)	50	101	104	84-119	3
Isopropylbenzene	ug/L (ppb)	50	100	102	80-117	2
Bromoform	ug/L (ppb)	50	106	109	74-136	3
n-Propylbenzene	ug/L (ppb)	50	100	101	74-126	1
Bromobenzene	ug/L (ppb)	50	100	101	80-121	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	99	99	78-123	0
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	101	102	66-126	1
1,2,3-Trichloropropane	ug/L (ppb)	50	96	96	67-124	0
2-Chlorotoluene	ug/L (ppb)	50	98	98	77-127	0
4-Chlorotoluene	ug/L (ppb)	50	100	101	78-128	1
tert-Butylbenzene	ug/L (ppb)	50	97	99	80-123	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	97	98	79-122	1
sec-Butylbenzene	ug/L (ppb)	50	99	100	80-116	1
p-Isopropyltoluene	ug/L (ppb)	50	99	100	81-123	1
1,3-Dichlorobenzene	ug/L (ppb)	50	103	105	83-113	2
1,4-Dichlorobenzene	ug/L (ppb)	50	100	102	83-107	2
1,2-Dichlorobenzene	ug/L (ppb)	50	102	103	84-112	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	100	102	57-141	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	110	112	72-130	2
Hexachlorobutadiene	ug/L (ppb)	50	98	100	53-141	2
Naphthalene	ug/L (ppb)	50	105	108	64-133	3
1,2,3-Trichlorobenzene	ug/L (ppb)	50	108	109	65-136	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

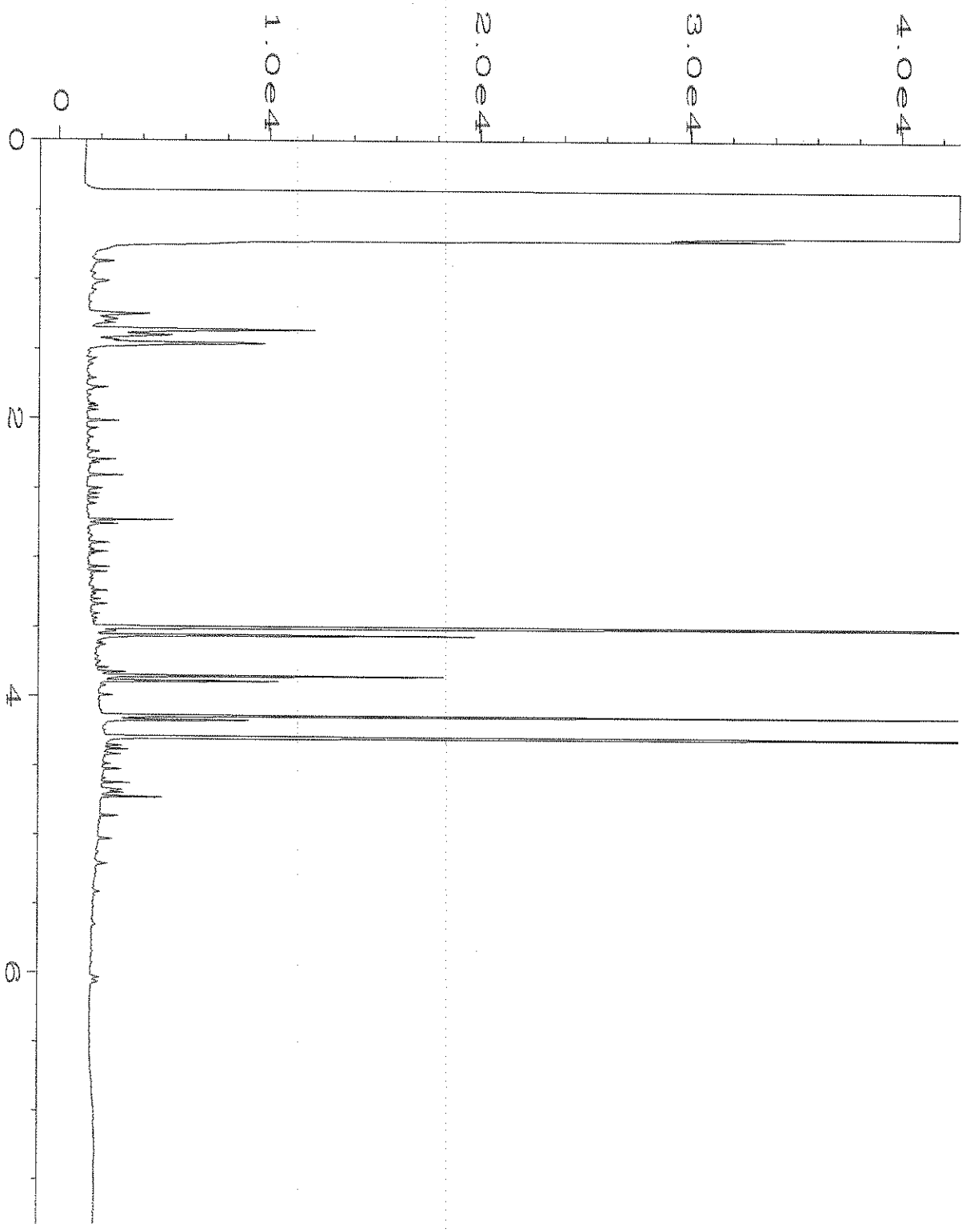
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

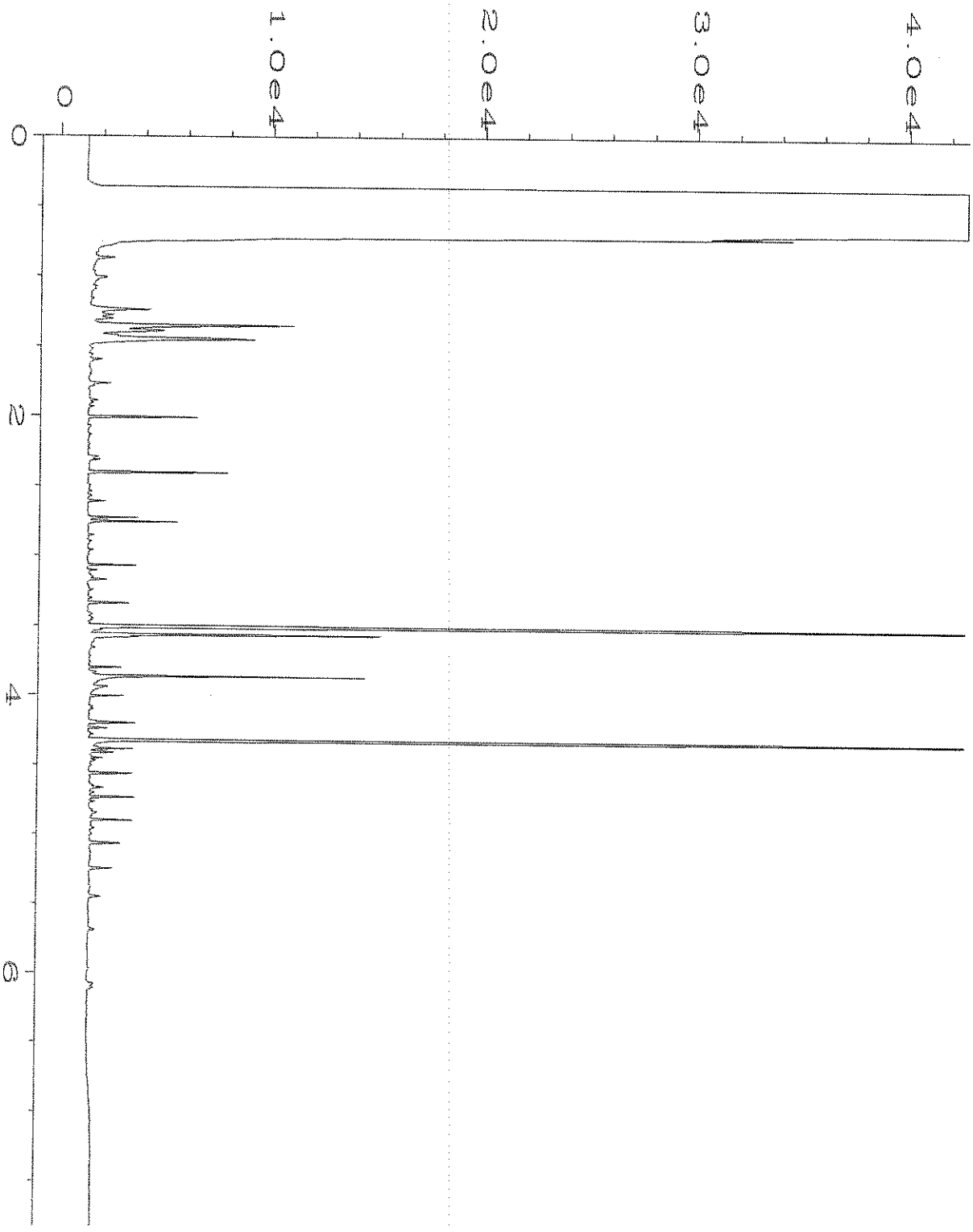
vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



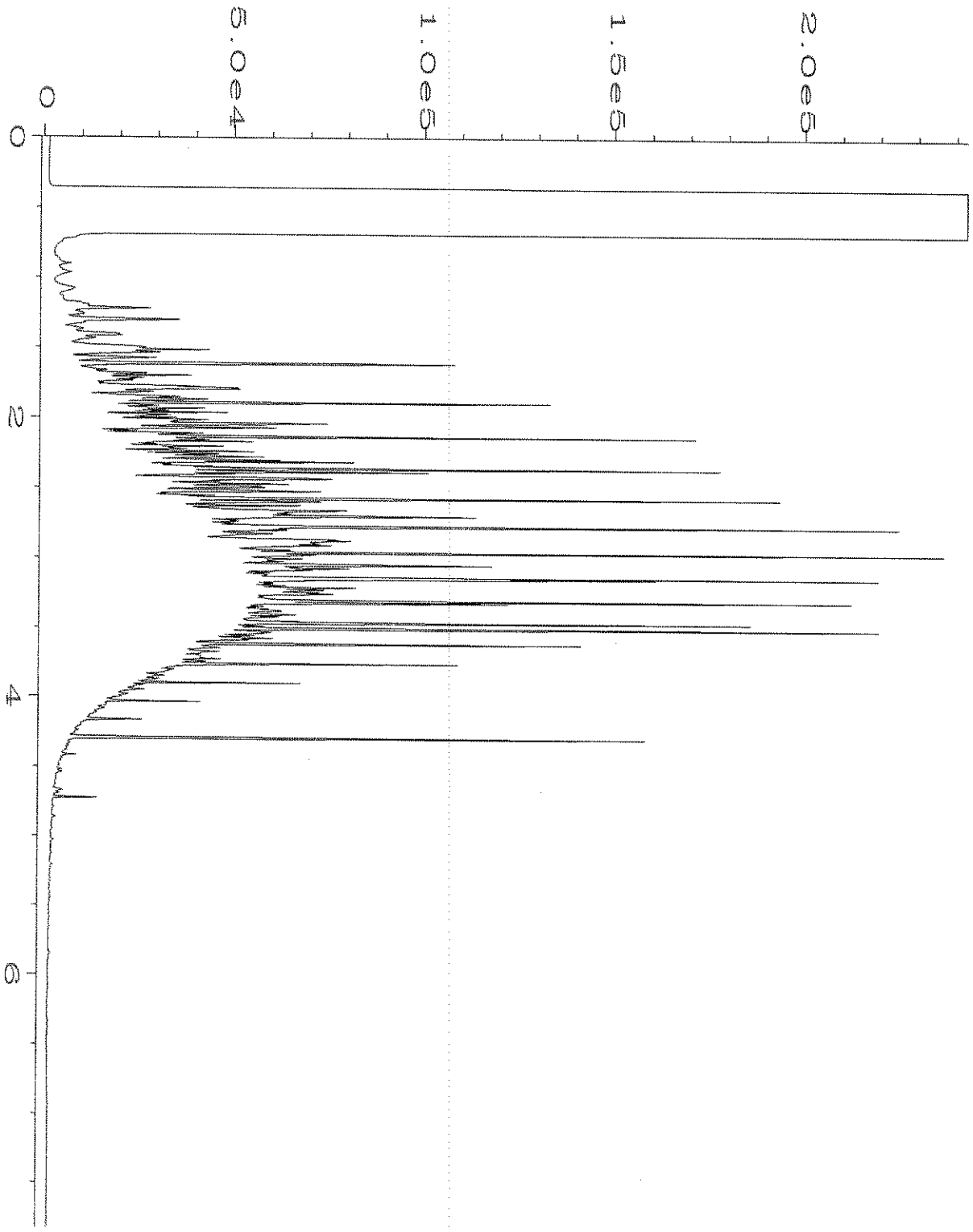
Data File Name : C:\HPCHEM\4\DATA\08-19-19\035F0601.D
Operator : TL
Instrument : GC#4
Sample Name : 908335-03
Run Time Bar Code:
Acquired on : 19 Aug 19 02:46 PM
Report Created on: 20 Aug 19 07:46 AM

Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 6
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name : C:\HPCHEM\4\DATA\08-19-19\027F0601.D
Operator : TL
Instrument : GC#4
Sample Name : 09-2048 mb
Run Time Bar Code:
Acquired on : 19 Aug 19 01:08 PM
Report Created on: 20 Aug 19 07:42 AM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 6
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name : C:\HPCHEM\4\DATA\08-19-19\005F0901.D
Operator : TL
Instrument : GC#4
Sample Name : 1000 Dx 57-78B
Run Time Bar Code:
Acquired on : 19 Aug 19 03:49 PM
Report Created on: 20 Aug 19 07:46 AM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH

908335

SAMPLE CHAIN OF CUSTODY

ME 08/16/19 VS3/GC, D22 VM3

Page # ____ of ____

Report To Jessica Smith; Meikani Lanier-Kaanehoa

Company Aspect Consulting

Address 710 2nd Ave, Suite 550

City, State, ZIP Seattle WA 98104

Phone ____ Email jsmith@aspectconsulting.com

SAMPLERS (signature)

PROJECT NAME: NE 8th +106

PO #: 190298

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☑ Standard Turnaround
- ☐ RUSH 3 DAY TAT
- Rush charges authorized by: ____

SAMPLE DISPOSAL
- ☑ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other ____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260 (*)	SVOCs by 8270D	PAHs 8270D SIM					Notes
B4 MW-4-081519	01 A-C	8/15/19	1040	water	3					X							(*) 3 day TAT
URS-MW-8-081519	02 A-C		1225		3					X							
MW-20-081519	03 A-G		1335		7		X	X		X							
MW-19-081519	04 A-C		1455		3					X							
B2 MW-2-081519	05 A-C		1650		3					X							
Trip Blank	06 A-D	—	—	water	4											*	added at kb (NP) 8/16/19

Samples received at 2 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amelia C. Gates	Aspect	8/16/19	1049
Received by:	Liza Radford	FBI	8/16/19	1049
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 21, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

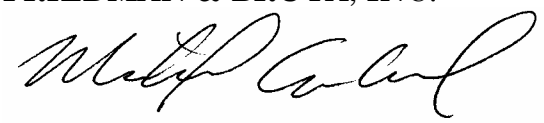
Dear Ms Smith:

Included are the results from the testing of material submitted on August 15, 2019 from the NE 8th Ave Bellevue 190298, F&BI 908315 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP0821R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 15, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th Ave Bellevue 190298, F&BI 908315 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
908315 -01	URS-MW-1-081419
908315 -02	URS-MW-3-081419
908315 -03	B3-MW-3-081419
908315 -04	MW-100-081419

All quality control requirements were acceptable.

Date of Report: 08/21/19
Date Received: 08/15/19
Project: NE 8th Ave Bellevue 190298, F&BI 908315
Date Extracted: 08/19/19
Date Analyzed: 08/19/19

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
URS-MW-1-081419 908315-01	<100	111
URS-MW-3-081419 908315-02	<100	109
B3-MW-3-081419 908315-03	<100	110
MW-100-081419 908315-04	<100	108
Method Blank 09-1962 MB	<100	110

Date of Report: 08/21/19
Date Received: 08/15/19
Project: NE 8th Ave Bellevue 190298, F&BI 908315
Date Extracted: 08/16/19
Date Analyzed: 08/16/19 and 08/19/19

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
URS-MW-1-081419 908315-01	<50	<250	109
URS-MW-3-081419 908315-02	<50	<250	113
B3-MW-3-081419 908315-03	<50	<250	95
MW-100-081419 908315-04	<50	<250	100
Method Blank 09-2001 MB2	<50	<250	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	URS-MW-1-081419	Client:	Aspect Consulting, LLC
Date Received:	08/15/19	Project:	NE 8th Ave Bellevue 190298, F&BI 908315
Date Extracted:	08/16/19	Lab ID:	908315-01
Date Analyzed:	08/16/19	Data File:	081634.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	99	63	127
4-Bromofluorobenzene	94	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	45
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	URS-MW-3-081419	Client:	Aspect Consulting, LLC
Date Received:	08/15/19	Project:	NE 8th Ave Bellevue 190298, F&BI 908315
Date Extracted:	08/16/19	Lab ID:	908315-02
Date Analyzed:	08/16/19	Data File:	081635.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	94	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	B3-MW-3-081419	Client:	Aspect Consulting, LLC
Date Received:	08/15/19	Project:	NE 8th Ave Bellevue 190298, F&BI 908315
Date Extracted:	08/16/19	Lab ID:	908315-03
Date Analyzed:	08/16/19	Data File:	081636.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	94	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	33
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-100-081419	Client:	Aspect Consulting, LLC
Date Received:	08/15/19	Project:	NE 8th Ave Bellevue 190298, F&BI 908315
Date Extracted:	08/16/19	Lab ID:	908315-04
Date Analyzed:	08/16/19	Data File:	081637.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	94	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	32
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th Ave Bellevue 190298, F&BI 908315
Date Extracted:	08/16/19	Lab ID:	09-1883 mb
Date Analyzed:	08/16/19	Data File:	081625.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	95	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Date of Report: 08/21/19
Date Received: 08/15/19
Project: NE 8th Ave Bellevue 190298, F&BI 908315

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 908315-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	94	69-134

Date of Report: 08/21/19
Date Received: 08/15/19
Project: NE 8th Ave Bellevue 190298, F&BI 908315

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	80	84	61-133	5

Date of Report: 08/21/19
Date Received: 08/15/19
Project: NE 8th Ave Bellevue 190298, F&BI 908315

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 908315-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<1	107	10-172
Chloromethane	ug/L (ppb)	50	<10	109	25-166
Vinyl chloride	ug/L (ppb)	50	<0.2	115	36-166
Bromomethane	ug/L (ppb)	50	<1	115	47-169
Chloroethane	ug/L (ppb)	50	<1	106	46-160
Trichlorofluoromethane	ug/L (ppb)	50	<1	116	44-165
Acetone	ug/L (ppb)	250	<50	56	10-182
1,1-Dichloroethene	ug/L (ppb)	50	<1	118	60-136
Hexane	ug/L (ppb)	50	<1	93	52-150
Methylene chloride	ug/L (ppb)	50	<5	105	67-132
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	115	74-127
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	113	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	109	70-128
2,2-Dichloropropane	ug/L (ppb)	50	<1	96	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	113	71-127
Chloroform	ug/L (ppb)	50	<1	109	65-132
2-Butanone (MEK)	ug/L (ppb)	250	<10	68	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	102	48-149
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	111	60-146
1,1-Dichloropropene	ug/L (ppb)	50	<1	108	69-133
Carbon tetrachloride	ug/L (ppb)	50	<1	114	56-152
Benzene	ug/L (ppb)	50	<0.35	102	76-125
Trichloroethene	ug/L (ppb)	50	<1	108	66-135
1,2-Dichloropropane	ug/L (ppb)	50	<1	100	78-125
Bromodichloromethane	ug/L (ppb)	50	<1	105	61-150
Dibromomethane	ug/L (ppb)	50	<1	104	66-141
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	105	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	100	72-132
Toluene	ug/L (ppb)	50	<1	96	76-122
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	94	76-130
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	100	68-131
2-Hexanone	ug/L (ppb)	250	<10	75	10-185
1,3-Dichloropropane	ug/L (ppb)	50	<1	97	71-128
Tetrachloroethene	ug/L (ppb)	50	<1	101	10-226
Dibromochloromethane	ug/L (ppb)	50	<1	103	70-139
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	96	69-134
Chlorobenzene	ug/L (ppb)	50	<1	99	77-122
Ethylbenzene	ug/L (ppb)	50	<1	99	69-135
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	107	73-137
m,p-Xylene	ug/L (ppb)	100	<2	100	69-135
o-Xylene	ug/L (ppb)	50	<1	101	60-140
Styrene	ug/L (ppb)	50	<1	99	71-133
Isopropylbenzene	ug/L (ppb)	50	<1	101	65-142
Bromoform	ug/L (ppb)	50	<1	107	65-142
n-Propylbenzene	ug/L (ppb)	50	<1	98	58-144
Bromobenzene	ug/L (ppb)	50	<1	99	75-124
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	98	66-137
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	99	51-154
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	95	53-150
2-Chlorotoluene	ug/L (ppb)	50	<1	97	66-127
4-Chlorotoluene	ug/L (ppb)	50	<1	98	65-130
tert-Butylbenzene	ug/L (ppb)	50	<1	97	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	97	59-146
sec-Butylbenzene	ug/L (ppb)	50	<1	97	64-140
p-Isopropyltoluene	ug/L (ppb)	50	<1	98	65-141
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	104	72-123
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	101	69-126
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	104	69-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	103	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	116	66-136
Hexachlorobutadiene	ug/L (ppb)	50	<1	100	60-143
Naphthalene	ug/L (ppb)	50	<1	110	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	113	69-148

Date of Report: 08/21/19
Date Received: 08/15/19
Project: NE 8th Ave Bellevue 190298, F&BI 908315

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	97	97	25-158	0
Chloromethane	ug/L (ppb)	50	101	101	45-156	0
Vinyl chloride	ug/L (ppb)	50	103	107	50-154	4
Bromomethane	ug/L (ppb)	50	104	108	55-143	4
Chloroethane	ug/L (ppb)	50	97	101	58-146	4
Trichlorofluoromethane	ug/L (ppb)	250	108	112	50-150	4
Acetone	ug/L (ppb)	250	56	56	53-131	0
1,1-Dichloroethene	ug/L (ppb)	50	109	113	67-136	4
Hexane	ug/L (ppb)	50	97	97	57-137	0
Methylene chloride	ug/L (ppb)	50	98	100	39-148	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	110	111	64-147	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	107	109	68-128	2
1,1-Dichloroethane	ug/L (ppb)	50	104	107	79-121	3
2,2-Dichloropropane	ug/L (ppb)	50	102	107	55-143	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	107	111	80-123	4
Chloroform	ug/L (ppb)	50	104	107	80-121	3
2-Butanone (MEK)	ug/L (ppb)	250	73	73	57-149	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	101	104	73-132	3
1,1,1-Trichloroethane	ug/L (ppb)	50	107	109	81-125	2
1,1-Dichloropropene	ug/L (ppb)	50	106	107	77-129	1
Carbon tetrachloride	ug/L (ppb)	50	108	112	75-158	4
Benzene	ug/L (ppb)	50	100	102	69-134	2
Trichloroethene	ug/L (ppb)	50	106	108	79-113	2
1,2-Dichloropropane	ug/L (ppb)	50	101	103	77-123	2
Bromodichloromethane	ug/L (ppb)	50	105	107	81-133	2
Dibromomethane	ug/L (ppb)	50	105	108	82-125	3
4-Methyl-2-pentanone	ug/L (ppb)	250	109	111	65-138	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	104	107	82-132	3
Toluene	ug/L (ppb)	50	95	97	72-122	2
trans-1,3-Dichloropropene	ug/L (ppb)	50	100	101	80-136	1
1,1,2-Trichloroethane	ug/L (ppb)	50	100	103	75-124	3
2-Hexanone	ug/L (ppb)	250	80	81	60-136	1
1,3-Dichloropropane	ug/L (ppb)	50	99	100	76-126	1
Tetrachloroethene	ug/L (ppb)	50	100	102	76-121	2
Dibromochloromethane	ug/L (ppb)	50	104	105	84-133	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	97	99	82-115	2
Chlorobenzene	ug/L (ppb)	50	99	100	83-114	1
Ethylbenzene	ug/L (ppb)	50	99	101	77-124	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	103	106	84-127	3
m,p-Xylene	ug/L (ppb)	100	99	101	81-112	2
o-Xylene	ug/L (ppb)	50	98	101	81-121	3
Styrene	ug/L (ppb)	50	101	104	84-119	3
Isopropylbenzene	ug/L (ppb)	50	100	102	80-117	2
Bromoform	ug/L (ppb)	50	106	109	74-136	3
n-Propylbenzene	ug/L (ppb)	50	100	101	74-126	1
Bromobenzene	ug/L (ppb)	50	100	101	80-121	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	99	99	78-123	0
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	101	102	66-126	1
1,2,3-Trichloropropane	ug/L (ppb)	50	96	96	67-124	0
2-Chlorotoluene	ug/L (ppb)	50	98	98	77-127	0
4-Chlorotoluene	ug/L (ppb)	50	100	101	78-128	1
tert-Butylbenzene	ug/L (ppb)	50	97	99	80-123	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	97	98	79-122	1
sec-Butylbenzene	ug/L (ppb)	50	99	100	80-116	1
p-Isopropyltoluene	ug/L (ppb)	50	99	100	81-123	1
1,3-Dichlorobenzene	ug/L (ppb)	50	103	105	83-113	2
1,4-Dichlorobenzene	ug/L (ppb)	50	100	102	83-107	2
1,2-Dichlorobenzene	ug/L (ppb)	50	102	103	84-112	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	100	102	57-141	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	110	112	72-130	2
Hexachlorobutadiene	ug/L (ppb)	50	98	100	53-141	2
Naphthalene	ug/L (ppb)	50	105	108	64-133	3
1,2,3-Trichlorobenzene	ug/L (ppb)	50	108	109	65-136	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

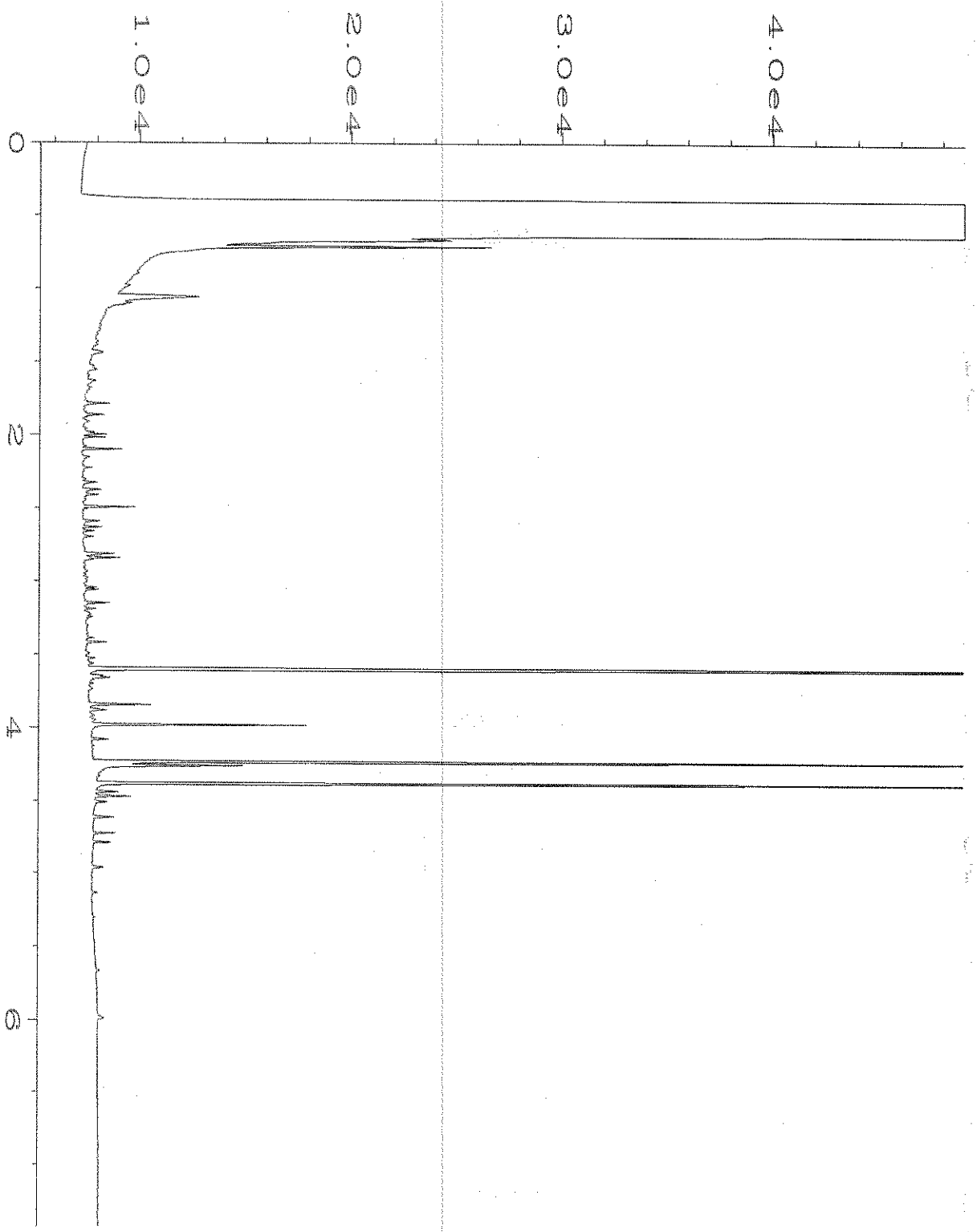
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

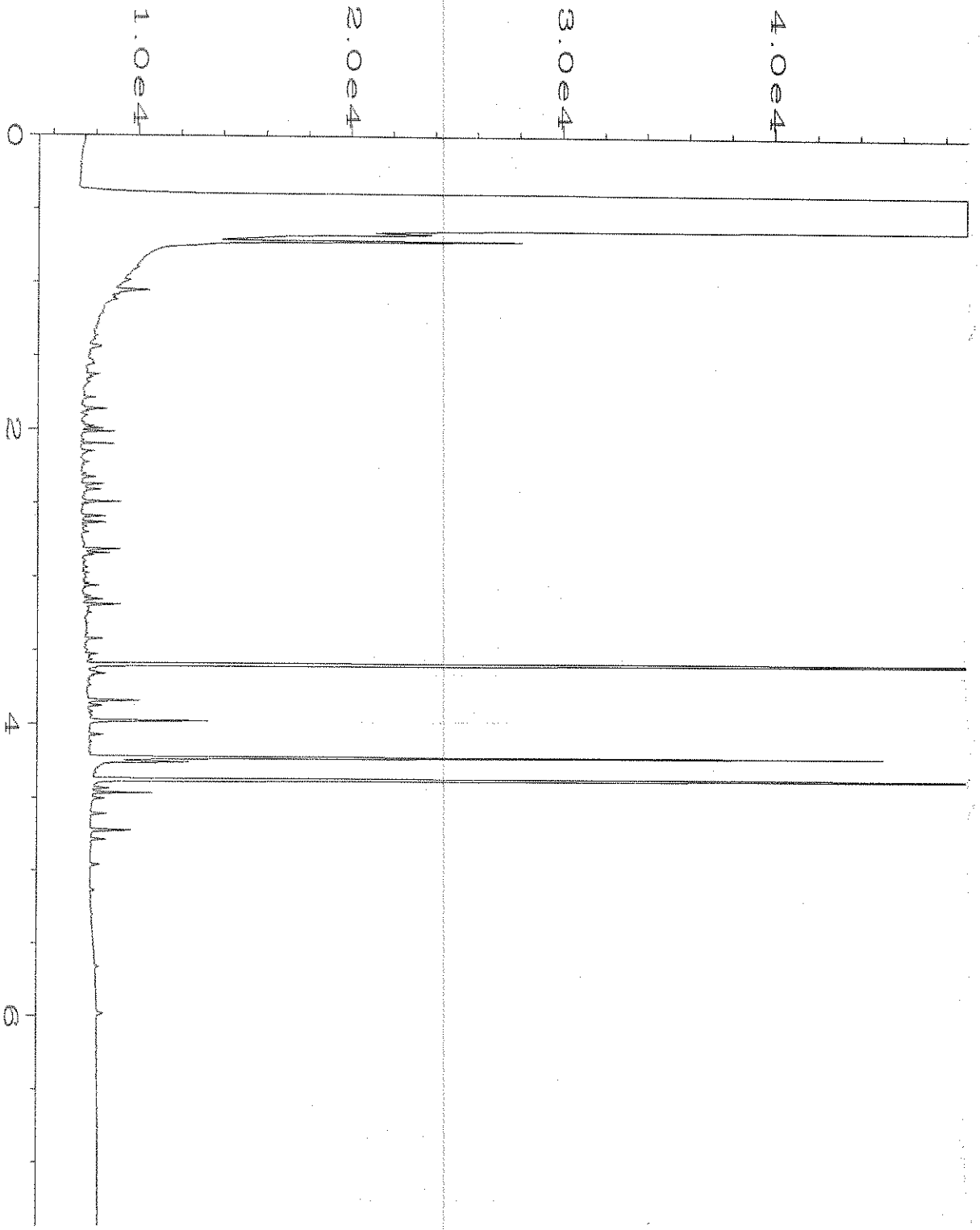
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

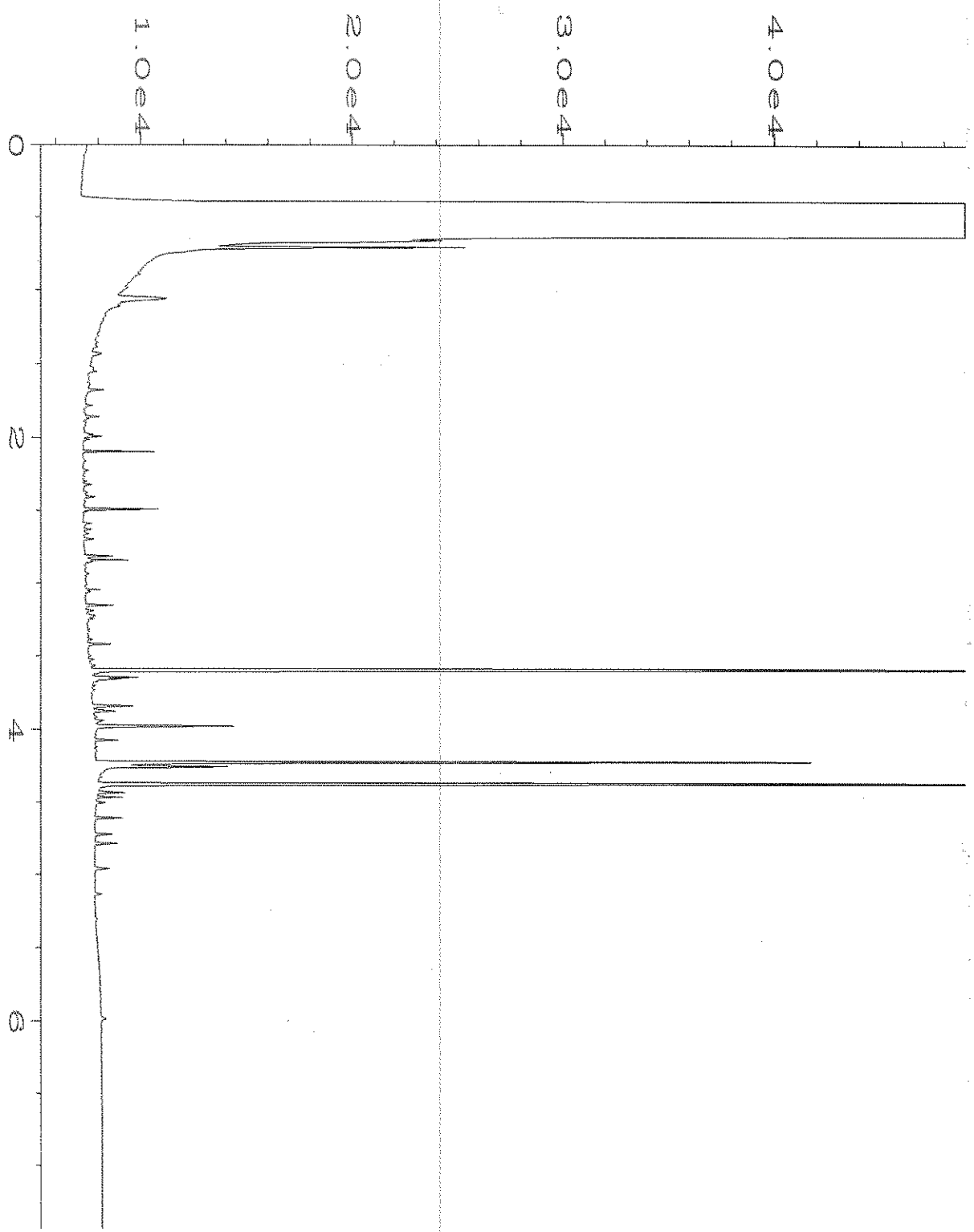
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



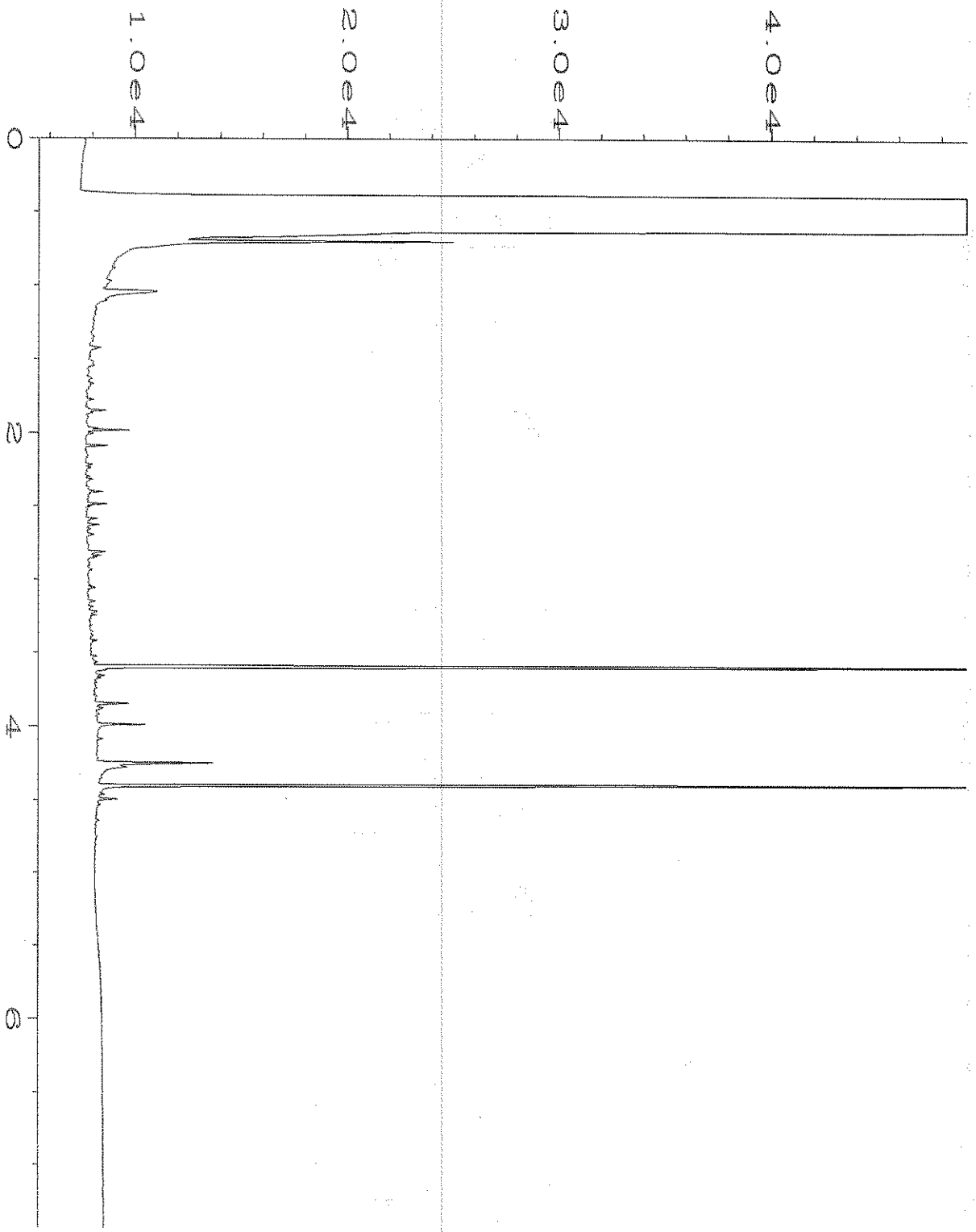
Data File Name	: C:\HPCHEM\1\DATA\08-16-19\031F0901.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 31
Sample Name	: 908315-01	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 16 Aug 19 05:16 PM	Instrument Method	: DX.MTH
Report Created on	: 19 Aug 19 10:21 AM	Analysis Method	: DEFAULT.MTH



Data File Name	: C:\HPCHEM\1\DATA\08-16-19\032F0901.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 32
Sample Name	: 908315-02	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 16 Aug 19 05:27 PM	Instrument Method	: DX.MTH
Report Created on	: 19 Aug 19 10:21 AM	Analysis Method	: DEFAULT.MTH

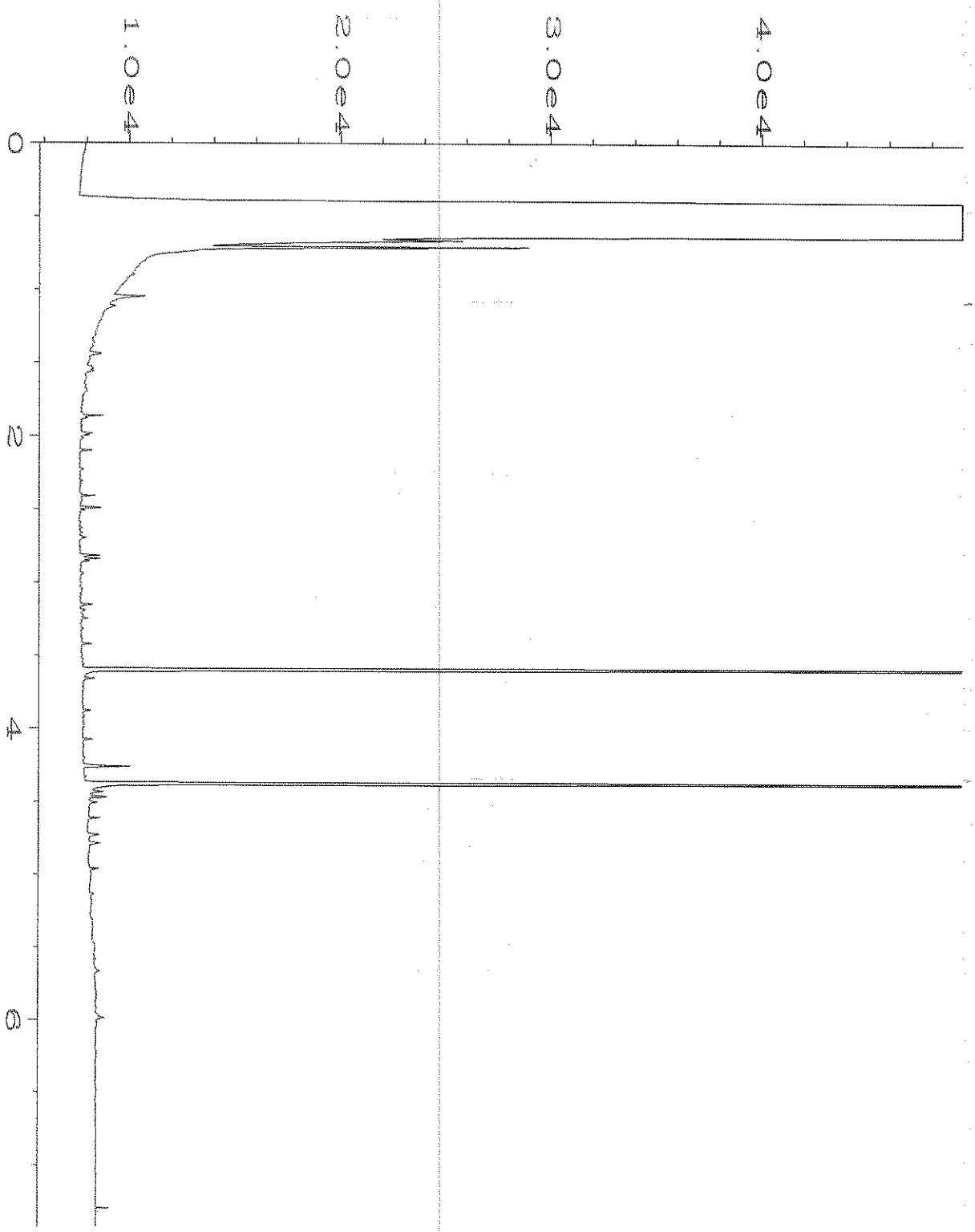


Data File Name	: C:\HPCHEM\1\DATA\08-16-19\033F0901.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 33
Sample Name	: 908315-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 16 Aug 19 05:39 PM	Instrument Method	: DX.MTH
Report Created on	: 19 Aug 19 10:22 AM	Analysis Method	: DEFAULT.MTH



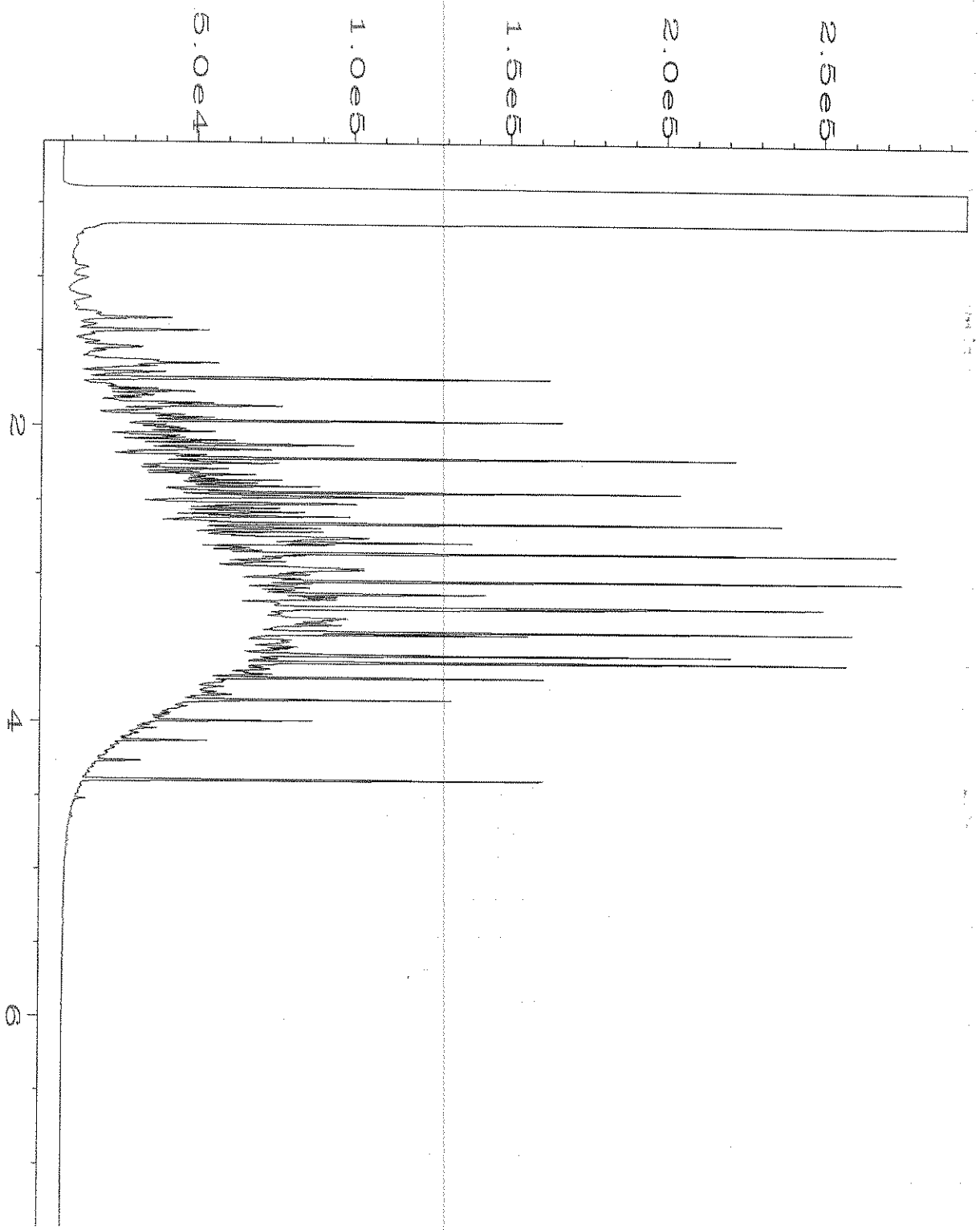
Data File Name : C:\HPCHEM\1\DATA\08-19-19\033F0301.D
Operator : TL
Instrument : GC1
Sample Name : 908315-04 rr
Run Time Bar Code:
Acquired on : 19 Aug 19 02:16 PM
Report Created on: 20 Aug 19 08:58 AM

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 3
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name : C:\HPCHEM\1\DATA\08-16-19\016F0701.D
Operator : TL
Instrument : GC1
Sample Name : 09-2001 mb2
Run Time Bar Code:
Acquired on : 16 Aug 19 01:37 PM
Report Created on: 19 Aug 19 10:20 AM

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name	: C:\HPCHEM\1\DATA\08-16-19\005F0801.D		
Operator	: TL	Page Number	: 1
Instrument	: GC1	Vial Number	: 5
Sample Name	: 1000 Dx 57-78B	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 16 Aug 19 02:57 PM	Instrument Method	: DX.MTH
Report Created on	: 19 Aug 19 10:21 AM	Analysis Method	: DEFAULT.MTH

908315

SAMPLE CHAIN OF CUSTODY

ME 08/15/19 VW3/COC 1

Page # 1 of 1

Report To Jessica Smith; Meilani Lanter-Kamahao

Company Aspect

Address 710 2nd AVE Suite 550

City, State, ZIP Seattle WA 98104

Phone 585-613-5158 Email jsmith mlkamahao@aspectconsulting.com

SAMPLERS (*signature*) Amelia Oates

PROJECT NAME: NE 8th AVE - Bellevue

PO #: 190298

REMARKS

INVOICE TO: A.P.

TURNAROUND TIME
- ☑ Standard Turnaround + 3 DAY TAT
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☑ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
URS-MW-1-081419	01A-6	8/14/19	0955	water	7		X	X		X							(*) Please run
URS-MW-3-081419	02		1215		7		X	X		X							VOCs on
B3/MW-3-081419	03		1340		7		X	X		X							3day TAT
MW-100-081419	04		1400		7		X	X		X							

(*) VOCs by 8260C

Samples received at 6 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Amelia C. Oates	Amelia C. Oates	Aspect	8/14/19	1515
Received by: Wes Herring	WES HERRING	Fed Ex	8/15/19	1504
Relinquished by:				
Received by: Liza Radford	Liza Radford	FBI	8/15/19	1625

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 10, 2019

Meilani Lanier-Kamaha'o, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

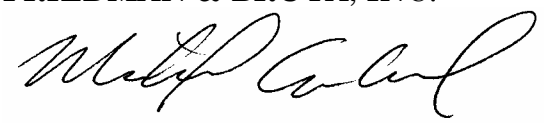
Dear Ms Lanier-Kamaha'o:

Included are the results from the testing of material submitted on October 8, 2019 from the NE 8th Bellevue 190298, F&BI 910154 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Jessica Smith
ASP1010R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 8, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th Bellevue 190298, F&BI 910154 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
910154 -01	AMW-4D-100819
910154 -02	AMW-3D-100819
910154 -03	Decon-composite

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	AMW-4D-100819	Client:	Aspect Consulting, LLC
Date Received:	10/08/19	Project:	NE 8th Bellevue 190298, F&BI 910154
Date Extracted:	10/08/19	Lab ID:	910154-01
Date Analyzed:	10/09/19	Data File:	100854.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	1.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	AMW-3D-100819	Client:	Aspect Consulting, LLC
Date Received:	10/08/19	Project:	NE 8th Bellevue 190298, F&BI 910154
Date Extracted:	10/08/19	Lab ID:	910154-02
Date Analyzed:	10/09/19	Data File:	100855.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Decon-composite	Client:	Aspect Consulting, LLC
Date Received:	10/08/19	Project:	NE 8th Bellevue 190298, F&BI 910154
Date Extracted:	10/08/19	Lab ID:	910154-03
Date Analyzed:	10/09/19	Data File:	100856.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th Bellevue 190298, F&BI 910154
Date Extracted:	10/08/19	Lab ID:	09-2447 mb
Date Analyzed:	10/08/19	Data File:	100810.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	99	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 10/10/19
Date Received: 10/08/19
Project: NE 8th Bellevue 190298, F&BI 910154

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 910002-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	110	36-166
Chloroethane	ug/L (ppb)	50	<1	113	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	110	60-136
Methylene chloride	ug/L (ppb)	50	<5	106	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	103	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	105	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	105	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	99	48-149
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	107	60-146
Trichloroethene	ug/L (ppb)	50	<1	97	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	98	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	121	126	50-154	4
Chloroethane	ug/L (ppb)	50	128	130	58-146	2
1,1-Dichloroethene	ug/L (ppb)	50	118	123	67-136	4
Methylene chloride	ug/L (ppb)	50	119	125	39-148	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	113	118	68-128	4
1,1-Dichloroethane	ug/L (ppb)	50	110	114	79-121	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	111	115	80-123	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	98	96	73-132	2
1,1,1-Trichloroethane	ug/L (ppb)	50	115	120	81-125	4
Trichloroethene	ug/L (ppb)	50	98	96	79-113	2
Tetrachloroethene	ug/L (ppb)	50	105	103	76-121	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

910154

SAMPLE CHAIN OF CUSTODY

ME 10/8/19

UW3

Page # 1 of 1

Report To Meilani Lanier-Kamahele cc Jess Smith

Company Aspect Consulting

Address 710 2nd Ave, Ste. 550

City, State, ZIP Seattle, WA, 98104

Phone (206) 413-5408 Email mlKamahele@aspectconsulting.com

SAMPLERS (*signature*) David Unruh

PROJECT NAME NE 8th Bellevue 190298

PO #

REMARKS 24-hour TAT

Project specific RLs? - Yes / No

INVOICE TO AP

TURNAROUND TIME
- ☐ Standard turnaround
- ☒ RUSH 24 hour
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	cVOCs				Notes
AMW-4D-100819	01 A-C	10/8/19	1245	Water	3								X				
AMW-3D-100819	02 A-C	↓	1125		4								X				
~~AMW-3S-100819~~ DUP													X	DU			
Decon-composite	03 A-C	10/8/19	1335	↓	3								X				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: David Unruh	David Unruh	Aspect Consulting	10/8/19	1436
Received by: Nhan Phan	Nhan Phan	FCBT	10/8/19	1435
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 24, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included is the amended report from the testing of material submitted on October 3, 2019 from the NE 8th St, F&BI 910083 project. Per your request, sample ID AMW-35-100219 was changed to AMW-3S-100219.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1023R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 23, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the results from the testing of material submitted on October 3, 2019 from the NE 8th St, F&BI 910083 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1023R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 3, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th St, F&BI 910083project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
910083 -01	AMW-4D-100219
910083 -02	AMW-3D-100219
910083 -03	AMW-17-100219
910083 -04	AMW-18-100219
910083 -05	AMW-3S-100219

Upon receipt, the 40 ml VOA vials were placed in the freezer, cracking the containers. Fresh VOAs were decanted from the provided amber liter and the data were flagged accordingly.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	AMW-3S-100219 pc	Client:	Aspect Consulting, LLC
Date Received:	10/03/19	Project:	NE 8th St, F&BI 910083
Date Extracted:	10/04/19	Lab ID:	910083-05
Date Analyzed:	10/04/19	Data File:	100426.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	93	107
Toluene-d8	102	87	110
4-Bromofluorobenzene	106	85	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	1.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th St, F&BI 910083
Date Extracted:	10/04/19	Lab ID:	09-2401 mb
Date Analyzed:	10/04/19	Data File:	100418.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	93	107
Toluene-d8	101	91	108
4-Bromofluorobenzene	112 vo	90	108

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 10/23/19
Date Received: 10/03/19
Project: NE 8th St, F&BI 910083

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 910032-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	106	61-139
Chloroethane	ug/L (ppb)	50	<1	107	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	98	71-123
Methylene chloride	ug/L (ppb)	50	<5	72	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	89	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	93	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	101	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	90	75-121
Trichloroethene	ug/L (ppb)	50	<1	93	73-122
Tetrachloroethene	ug/L (ppb)	50	5.5	97	40-155

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	112	107	70-128	5
Chloroethane	ug/L (ppb)	50	113	112	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	107	109	72-121	2
Methylene chloride	ug/L (ppb)	50	92	94	63-132	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	95	94	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	99	98	77-119	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	96	76-119	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	108	107	75-116	1
1,1,1-Trichloroethane	ug/L (ppb)	50	96	96	80-116	0
Trichloroethene	ug/L (ppb)	50	99	98	72-119	1
Tetrachloroethene	ug/L (ppb)	50	101	102	78-109	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

910083

SAMPLE CHAIN OF CUSTODY

ME 10/3/19 VW1/ C05

Page # 1 of 1

Report To Jessica Smith
Company Aspect Consulting
Address Seattle
City, State, ZIP
Phone Email On File

SAMPLERS (*signature*) Matthew M. Lewis
PROJECT NAME N 85th St
PO #
REMARKS Hold Dx+Gx per ML 10/4/19 ME
INVOICE TO

TURNAROUND TIME
☐ Standard Turnaround
☒ RUSH 24 hr
Rush charges authorized by: Jessica Smith

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Archive Samples
☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	~~Hold~~ TPH-Diesel	~~Hold~~ TPH-Gasoline	BTEX by 8021B	~~cVOCs~~ VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-4D-100219	01 A-C	10/2/19	1040	GW	6		X	X		X							
AMW-3D-100319	02	10/3/19	1210														~~800~~ NTUs turbid
MW-17-100319	03		1330														
MW-18-100319	04		1440														
AMW-3S-100319	05		1530							⊗							71000 NTUs
																	⊗ - only report cVOCs in -05 10/23/19 per MLK ME

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Matthew M. Lewis	Matthew M. Lewis	Aspect	10/03/19	1700
Received by: Khoi Hoang	Khoi Hoang	FBI	10/03/19	17:00
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

~~Samples received at~~ 2 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 1, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the results from the testing of material submitted on September 27, 2019 from the 190298, F&BI 909485 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1001R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC 190298, F&BI 909485 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
909485 -01	AMW-2-88
909485 -02	AMW-2-81
909485 -03	AMW-2-78
909485 -04	AMW-2-72
909485 -05	AMW-2-69
909485 -06	AMW-2-65
909485 -07	AMW-2-59
909485 -08	AMW-2-54
909485 -09	AMW-2-46
909485 -10	AMW-2-43
909485 -11	AMW-2-34
909485 -12	AMW-4S-5.0
909485 -13	AMW-4S-10.0
909485 -14	AMW-4S-15.0
909485 -15	AMW-4S-20.0
909485 -16	AMW-4S-22.5
909485 -17	AMW-4S-25.0
909485 -18	AMW-4S-27.5
909485 -19	AMW-4S-30.0
909485 -20	AMW-4S-32.5
909485 -21	AMW-4S-35.0
909485 -22	AMW-4S-37.5
909485 -23	AMW-4S-40
909485 -24	AMW-4S-42.5
909485 -25	AMW-4S-45.0
909485 -26	AMW-2-37

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-2-81	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909485
Date Extracted:	09/30/19	Lab ID:	909485-02
Date Analyzed:	09/30/19	Data File:	093013.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	90	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-2-72	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909485
Date Extracted:	09/30/19	Lab ID:	909485-04
Date Analyzed:	09/30/19	Data File:	093014.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	121 J	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-2-65	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909485
Date Extracted:	09/30/19	Lab ID:	909485-06
Date Analyzed:	09/30/19	Data File:	093015.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	118 J	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	0.034
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	0.13

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-2-54	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909485
Date Extracted:	09/30/19	Lab ID:	909485-08
Date Analyzed:	09/30/19	Data File:	093016.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	190298, F&BI 909485
Date Extracted:	09/30/19	Lab ID:	09-2357 mb
Date Analyzed:	09/30/19	Data File:	093010.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Date of Report: 10/01/19
Date Received: 09/27/19
Project: 190298, F&BI 909485

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909484-07 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	<0.05	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	96	98	50-158	2
Chloroethane	mg/kg (ppm)	0.05	101	96	48-179	5
1,1-Dichloroethene	mg/kg (ppm)	0.05	98	96	63-144	2
Methylene chloride	mg/kg (ppm)	0.05	97	85	17-179	13
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	101	96	70-130	5
1,1-Dichloroethane	mg/kg (ppm)	0.05	98	95	70-130	3
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	98	95	70-130	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	96	96	69-137	0
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	100	97	71-140	3
Trichloroethene	mg/kg (ppm)	0.05	96	95	70-130	1
Tetrachloroethene	mg/kg (ppm)	0.05	102	100	35-176	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

909485

SAMPLE CHAIN OF CUSTODY ME 09/27/19

Page # 1 of 2 3

Report To Aspect

Company Jessica Smith

Address jsmith@aspectconsulting.com

City, State, ZIP

Phone Email

SAMPLERS (*signature*) NP

PROJECT NAME

PO # 190298

REMARKS

INVOICE TO

TURNAROUND TIME

☐ Standard Turnaround

☒ RUSH 24 hr TAT per ML ME

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Archive Samples

☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type NP 9/27	# of Jars	ANALYSES REQUESTED: TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	cVOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes: X - per ML 9/27/19 ME
AMW-2-88	01 A-E		14:45	Soil	5												HOLD
AMW-2-81	02		14:40		5					X							
AMW-2-78	03		14:05		5												
AMW-2-72	04		1400		5					X							
AMW-2-69	05		1335		5												
AMW-2-65	06		1330		5					X							
AMW-2-59	07		1300		5												
AMW-2-54	08		1240		5					X							
AMW-2-46	09		1225		5												
AMW-2-43	10		1135		5												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Matthew VanderAa	Aspect	9/27/19	1105
Received by:	~~FBI~~ VNH	FBI	9/27/19	1105
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

(NP) 408-909485

SAMPLE CHAIN OF CUSTODY ME 09/27/19

BOA / USS

Page # 2 of 3

Report To Jessica Smith

Company jsmith@aspetconsulting.com

Address

City, State, ZIP

Phone Email

SAMPLERS (signature) MC

PROJECT NAME

PO # 190298

REMARKS

INVOICE TO

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-2-34	11 AE	9/26	11:00	Soil	5												HOLD
AMW-45-5.0	12		1335		5												
AMW-45-10.0	13		1345		5												
AMW-45-15.0	14		1355		5												
AMW-45-20.0	15		1405		5												
AMW-45-22.5	16		1410		5												
AMW-45-25.0	17		1415		5												
AMW-45-27.5	18		1425		5												
AMW-45-30.0	14		1435		5												
AMW-45-32.5	20		1440		5												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Matthew Vinda-Ahe	Aspect	9/27/19	1405
Received by:	VINTA	FBI	9/27/19	1105
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

909485

SAMPLE CHAIN OF CUSTODY

ME 09/27/19

DOE/USS

Page # 3 of 3

Report To Jessica Smith

Company Aspect

Address

City, State, ZIP

Phone Email JSmith@aspectconsulting.com

SAMPLERS (*signature*)

PROJECT NAME: NE 8th + 106th

PO #: 190298

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-45-35.0	21 A-E	9/26/19	1450	Soil	5												HOLD
AMW-45-37.5	22		1500		5												
AMW-45-40	23		1505		5												
AMW-45-42.5	24		1525		5												
AMW-45-45.0	25		1530		5												
AMW-2-37	26	9/26/19	11:10	Soil	5												Added at lab (NP) 9/27

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Matthew Vandenberg	Aspect	9/27/19	11:05
Received by:	~~FBI~~ VINH	FBI	9/27/19	11:05
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 14, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the additional results from the testing of material submitted on September 27, 2019 from the 190298, F&BI 909492 project. There are 8 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1014R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC 190298, F&BI 909492 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
909492 -01	AMW-3S-5
909492 -02	AMW-3S-10
909492 -03	AMW-3S-15
909492 -04	AMW-3S-20
909492 -05	AMW-3S-22.5
909492 -06	AMW-3S-25
909492 -07	AMW-3S-27.5
909492 -08	AMW-3S-30
909492 -09	AMW-3S-32.5
909492 -10	AMW-3S-35
909492 -11	AMW-3S-37.5
909492 -12	AMW-3S-40
909492 -13	AMW-5-40
909492 -14	AMW-5-37.5
909492 -15	AMW-5-35
909492 -16	AMW-5-32.5
909492 -17	AMW-5-30
909492 -18	AMW-5-25
909492 -19	AMW-5-22.5
909492 -20	AMW-5-20
909492 -21	AMW-5-15
909492 -22	AMW-5-10
909492 -23	AMW-5-5
909492 -24	AMW-4D-50.0
909492 -25	AMW-4D-55.0
909492 -26	AMW-4D-60.0
909492 -27	AMW-4D-63.5
909492 -28	AMW-4D-69.5
909492 -29	AMW-4D-75.0
909492 -30	AMW-4D-80.0
909492 -31	AMW-4D-85.0
909492 -32	AMW-4D-89.0

Methylene chloride was detected in sample AMW-4D-89.0. The data were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-5-15	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/10/19	Lab ID:	909492-21
Date Analyzed:	10/10/19	Data File:	101027.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-5-5	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/09/19	Lab ID:	909492-23
Date Analyzed:	10/10/19	Data File:	100965.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-89.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/09/19	Lab ID:	909492-32
Date Analyzed:	10/10/19	Data File:	100966.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	94	50	150
4-Bromofluorobenzene	112	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.076 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	190298, F&BI 909492
Date Extracted:	10/10/19	Lab ID:	09-2454 mb2
Date Analyzed:	10/10/19	Data File:	101024.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	90	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	190298, F&BI 909492
Date Extracted:	10/09/19	Lab ID:	09-2454 mb
Date Analyzed:	10/10/19	Data File:	100959.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Date of Report: 10/14/19
Date Received: 09/27/19
Project: 190298, F&BI 909492

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909517-07 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	0.13 lc	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	90	87	60-136	3
Chloroethane	mg/kg (ppm)	0.05	96	80	65-132	18
1,1-Dichloroethene	mg/kg (ppm)	0.05	92	87	70-130	6
Methylene chloride	mg/kg (ppm)	0.05	81	83	52-150	2
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	92	92	70-130	0
1,1-Dichloroethane	mg/kg (ppm)	0.05	94	95	70-130	1
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	91	92	70-130	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	92	96	70-130	4
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	97	96	70-130	1
Trichloroethene	mg/kg (ppm)	0.05	94	94	70-130	0
Tetrachloroethene	mg/kg (ppm)	0.05	93	93	70-130	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

909492

SAMPLE CHAIN OF CUSTODY

ME 09/27/19 VSS/BOP

Page # 1 of 1

Report To Jessica Smith

Company Aspect Consulting

Address jsmith@aspectconsulting.com

City, State, ZIP

Phone Email

SAMPLERS (signature)

PROJECT NAME

PO # 190198

REMARKS

INVOICE TO

TURNAROUND TIME
- ☐ Standard Turnaround
- ☒ RUSH 24h TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C Chlorinated	SVOCs by 8270D	PAHs 8270D SIM					Notes
						ANALYSES REQUESTED											
AMW-3S-5	01A-B	9/27/19	1210	Soil	5												Hold
AMW-3S-10	02		1215														
-15	03		1230														
-20	04		1245														
-22.5	05		1250														
-25	06		1300														
-27.5	07		1305							X							
-30	08		1310														
-32.5	09		1315														
-35	10		1335							X							

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Andrea Quist	Aspect	9/27/19	1700
Received by:		Evan Cowan	F&B	9/27/19	1720
Relinquished by:					
Received by:			Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

9094972

SAMPLE CHAIN OF CUSTODY

MK 09/27/19

VSS / BCS

Page # 2 of 4

Report To Jessica Smith

Company Aspect

Address jsmith@aspectconsulting.com

City, State, ZIP

Phone Email

SAMPLERS (signature) MK

PROJECT NAME

PO # 190228

REMARKS

INVOICE TO

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C (chlor. list)	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-3 5'-37.5	11A-E	9/27/19	1340	soil	5												1 to 11
-40	12	"	1350														
AMW-5 -40	13		0915														
-37.5	14		0910														
-35	15		0905							X							
-32.5	16		0900														
-30	17		0855														
-25	18		0835														
-22.5	19		0830														
-20	20		0825							X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: MK	Matthew Kaufman	Aspect	9/27/19	1700
Received by:	Eric Lim	FCS	9/27/19	1750
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

9094982

SAMPLE CHAIN OF CUSTODY

ME 09/27/19 VSS/BDS

Page # 3 of 4

Report To Jessica Smith

Company Aspect

Address JSmith@aspectconsulting.com

City, State, ZIP

Phone Email

SAMPLERS (*signature*)

PROJECT NAME

PO # 190298

REMARKS

24-hr TAT

INVOICE TO

TURNAROUND TIME

☐ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days
☐ Archive Samples
☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	Halogenated VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-5 -15	21A-E	9/27/19	0815	Soil	5					X							~~HOLD~~
-10	22		0810		1					X							↓
AMW-5 -5	23		0805		1					X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amelia Conroy	Aspect	9/27/19	1700
Received by:	Eric Flom	FEB	9/27/19	17
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

909492

SAMPLE CHAIN OF CUSTODY ME 09/27/19 USS/BPS

Page # 4 of 4

Report To Jessica Smith

Company Aspect

Address

City, State, ZIP

Phone Email jsmith@aspectconsulting.com 24hr TAT

SAMPLERS (signature)

PROJECT NAME: NE 8th + 10th

PO #: 190298

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	Chlorinated VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-4D-[redacted]50.0	24A-E	9/27/19	1215	Soil	5												HOLD
AMW-4D-55.0	25		1230		5												
AMW-4D-60.0	26		1255		5					X							
AMW-4D-63.5	27		1310		5												
AMW-4D-69.5	28		1315		5					X							
AMW-4D-75.0	29		1320		5												
AMW-4D-80.0	30		1410		5					X							
AMW-4D-85.0	31		1425		5												
AMW-4D-89.0	32		1435		5					X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Anne C. Park	Aspect	9/27/19	1700
Received by:	Eric Nam	FSP	9/27/19	1700
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 4, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the results from the testing of material submitted on September 27, 2019 from the 190298, F&BI 909492 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1004R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC 190298, F&BI 909492 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
909492 -01	AMW-3S-5
909492 -02	AMW-3S-10
909492 -03	AMW-3S-15
909492 -04	AMW-3S-20
909492 -05	AMW-3S-22.5
909492 -06	AMW-3S-25
909492 -07	AMW-3S-27.5
909492 -08	AMW-3S-30
909492 -09	AMW-3S-32.5
909492 -10	AMW-3S-35
909492 -11	AMW-3S-37.5
909492 -12	AMW-3S-40
909492 -13	AMW-5-40
909492 -14	AMW-5-37.5
909492 -15	AMW-5-35
909492 -16	AMW-5-32.5
909492 -17	AMW-5-30
909492 -18	AMW-5-25
909492 -19	AMW-5-22.5
909492 -20	AMW-5-20
909492 -21	AMW-5-15
909492 -22	AMW-5-10
909492 -23	AMW-5-5
909492 -24	AMW-4D-50.0
909492 -25	AMW-4D-55.0
909492 -26	AMW-4D-60.0
909492 -27	AMW-4D-63.5
909492 -28	AMW-4D-69.5
909492 -29	AMW-4D-75.0
909492 -30	AMW-4D-80.0
909492 -31	AMW-4D-85.0
909492 -32	AMW-4D-89.0

Methylene chloride was detected in samples AMW-5-20, AMW-4D-55.0, AMW-4D-60.0, AMW-4D-69.5, and AMW-4D-80.0. The data were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-3S-27.5	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-07
Date Analyzed:	10/02/19	Data File:	100216.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	104	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-3S-35	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-10
Date Analyzed:	10/02/19	Data File:	100217.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	50	150
Toluene-d8	108	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-5-35	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-15
Date Analyzed:	10/02/19	Data File:	100218.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	50	150
Toluene-d8	113	50	150
4-Bromofluorobenzene	110	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-5-20	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-20
Date Analyzed:	10/02/19	Data File:	100219.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	115	50	150
Toluene-d8	120	50	150
4-Bromofluorobenzene	114	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.14 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-5-10	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-22
Date Analyzed:	10/02/19	Data File:	100225.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	84	50	150
4-Bromofluorobenzene	94	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-50.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/03/19	Lab ID:	909492-24
Date Analyzed:	10/03/19	Data File:	100269.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	90	50	150
4-Bromofluorobenzene	71	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-55.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/03/19	Lab ID:	909492-25
Date Analyzed:	10/03/19	Data File:	100270.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	65	50	150
4-Bromofluorobenzene	117 J	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.18 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-60.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-26
Date Analyzed:	10/02/19	Data File:	100221.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	134	50	150
Toluene-d8	135	50	150
4-Bromofluorobenzene	131 J	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.21 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	0.014

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-63.5	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/03/19	Lab ID:	909492-27
Date Analyzed:	10/03/19	Data File:	100271.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	90	50	150
4-Bromofluorobenzene	82	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	0.12

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-69.5	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-28
Date Analyzed:	10/02/19	Data File:	100226.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	88	50	150
4-Bromofluorobenzene	80	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.064 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-80.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	909492-30
Date Analyzed:	10/03/19	Data File:	100227.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	92	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.056 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	190298, F&BI 909492
Date Extracted:	10/02/19	Lab ID:	09-2393 mb
Date Analyzed:	10/02/19	Data File:	100224.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	93	50	150
4-Bromofluorobenzene	85	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	190298, F&BI 909492
Date Extracted:	10/03/19	Lab ID:	09-2393 mb2
Date Analyzed:	10/03/19	Data File:	100268.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	95	50	150
4-Bromofluorobenzene	70	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Date of Report: 10/04/19
Date Received: 09/27/19
Project: 190298, F&BI 909492

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909517-07 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	0.13	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	90	87	60-136	3
Chloroethane	mg/kg (ppm)	0.05	96	80	65-132	18
1,1-Dichloroethene	mg/kg (ppm)	0.05	92	87	70-130	6
Methylene chloride	mg/kg (ppm)	0.05	81	83	52-150	2
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	92	92	70-130	0
1,1-Dichloroethane	mg/kg (ppm)	0.05	94	95	70-130	1
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	91	92	70-130	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	92	96	70-130	4
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	97	96	70-130	1
Trichloroethene	mg/kg (ppm)	0.05	94	94	70-130	0
Tetrachloroethene	mg/kg (ppm)	0.05	93	93	70-130	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

909492

SAMPLE CHAIN OF CUSTODY

ME 09/27/19 VSS/BOP

Page # 1 of 3

Report To Jessica Smith

Company Aspect Consulting

Address jsmith@aspectconsulting.com

City, State, ZIP

Phone Email

SAMPLERS (signature)

PROJECT NAME

PO # 190298

REMARKS

INVOICE TO

TURNAROUND TIME
- ☐ Standard Turnaround
- ☒ RUSH 24hr TAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C (chlorinated)	SVOCs by 8270D	PAHs 8270D SIM				Notes
						ANALYSES REQUESTED										
AMW-3S-5	01A-E	9/27/19	1210	Soil	5											Hold
AMW-3S-10	02		1215													
-15	03		1230													
-20	04		1245													
-22.5	05		1250													
-25	06		1300													
-27.5	07		1305							X						
-30	08		1310													
-32.5	09		1315													
-35	10		1335							X						

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amelia Quinn	Aspect	9/27/19	1700
Received by:	Ellen Bruya	F&B	9/27/19	1720
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

9094972

SAMPLE CHAIN OF CUSTODY

ME 09/27/19

VSS / BDS

Page # 2 of 4

Report To Jessica Smith

Company Aspect

Address jsmith@aspectconsulting.com

City, State, ZIP

Phone Email

SAMPLERS (*signature*)

PROJECT NAME

PO # 190298

REMARKS

INVOICE TO

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	chlor. hyd. VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-3 5'-37.5	11A-E	9/27/19	1340	soil	5												~~1 to 1~~
-40	12	"	1350														
AMW-5 -40	13		0915														
-37.5	14		0910														
-35	15		0905							X							
-32.5	16		0900														
-30	17		0855														
-25	18		0835														
-22.5	19		0830														
-20	20		0825							X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Matthew Vanderhoek	Aspect	9/27/19	1700
Received by:	Eric Flom	FCS	9/27/19	1750
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

9094982

SAMPLE CHAIN OF CUSTODY

ME 09/27/19 VSS/BOS

Page # 3 of 3

Report To Jessie Smith

Company Aspect

Address JSmith@Aspectconsulting.com

City, State, ZIP

Phone Email

SAMPLERS (*signature*)

PROJECT NAME

PO # 190276

REMARKS

INVOICE TO

TURNAROUND TIME

☐ Standard Turnaround

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Archive Samples

☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	Chlorinated VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-5-15	21A-E	9/21/19	0815	SOIL	5												HOLD
-10	22		0810		1					X							↓
-5	23		0805		1												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amelia Cd	Aspect	9/27/19	1700
Received by:	Eric Fan	FedEx	9/27/19	
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

909492

SAMPLE CHAIN OF CUSTODY

ME 09/27/19 USS/DOS

Page # 4 of 4

Report To Jessica Smith

Company Aspect

Address

City, State, ZIP

Phone Email jsmith@aspectconsulting.com

SAMPLERS (*signature*)

PROJECT NAME: NE 8th + 10th

PO #: 190298

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C Chlorinated	SVOCs by 8270D	PAHs 8270D SIM	Notes
AMW-4D-[redacted]50.0	24A-E	9/27/19	1215	Soil	5					(X)			HOLD
AMW-4D-55.0	25		1230		5					(X)			
AMW-4D-60.0	26		1255		5					X			
AMW-4D-63.5	27		1310		5					(X)			
AMW-4D-69.5	28		1315		5					X			
AMW-4D-75.0	29		1320		5								
AMW-4D-80.0	30		1410		5					X			
AMW-4D-85.0	31		1425		5								
AMW-4D-89.0	32		1435		5								

ANALYSES REQUESTED

(X) - per ML 10/2/19

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amel C. Post	Aspect	9/27/19	1700
Received by:	Eric Carr	TRC	9/27/19	1700
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 14, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the additional results from the testing of material submitted on September 27, 2019 from the NE 8th + 106th 190298, F&BI 909484 project. There are 9 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect
ASP1014R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th + 106th 190298, F&BI 909484 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
909484 -01	AMW-4D-5.5
909484 -02	AMW-4D-10.0
909484 -03	AMW-4D-15.0
909484 -04	AMW-4D-20.0
909484 -05	AMW-4D-25.0
909484 -06	AMW-4D-30.0
909484 -07	AMW-4D-35.0
909484 -08	AMW-4D-40.0
909484 -09	AMW-4D-45.0

Methylene chloride was detected in sample AMW-4D-20.0. The data were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-5.5	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	NE 8th + 106th 190298, F&BI 909484
Date Extracted:	10/10/19	Lab ID:	909484-01
Date Analyzed:	10/10/19	Data File:	101026.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	50	150
Toluene-d8	92	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-20.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	NE 8th + 106th 190298, F&BI 909484
Date Extracted:	10/09/19	Lab ID:	909484-04
Date Analyzed:	10/10/19	Data File:	100961.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	50	150
Toluene-d8	94	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.065 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-30.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	NE 8th + 106th 190298, F&BI 909484
Date Extracted:	10/09/19	Lab ID:	909484-06
Date Analyzed:	10/10/19	Data File:	100962.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th + 106th 190298, F&BI 909484
Date Extracted:	10/10/19	Lab ID:	09-2454 mb2
Date Analyzed:	10/10/19	Data File:	101024.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	90	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th + 106th 190298, F&BI 909484
Date Extracted:	10/09/19	Lab ID:	09-2454 mb
Date Analyzed:	10/10/19	Data File:	100959.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Date of Report: 10/14/19
Date Received: 09/27/19
Project: NE 8th + 106th 190298, F&BI 909484

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909484-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	0.059 lc	0.060 lc	2
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	96	94	60-136	2
Chloroethane	mg/kg (ppm)	0.05	94	94	65-132	0
1,1-Dichloroethene	mg/kg (ppm)	0.05	94	95	70-130	1
Methylene chloride	mg/kg (ppm)	0.05	74	75	52-150	1
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	96	97	70-130	1
1,1-Dichloroethane	mg/kg (ppm)	0.05	96	97	70-130	1
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	95	96	70-130	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	91	92	70-130	1
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	95	96	70-130	1
Trichloroethene	mg/kg (ppm)	0.05	94	92	70-130	2
Tetrachloroethene	mg/kg (ppm)	0.05	94	93	70-130	1

Date of Report: 10/14/19
Date Received: 09/27/19
Project: NE 8th + 106th 190298, F&BI 909484

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909484-04 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	0.059 lc	0.060 lc	2
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	96	94	60-136	2
Chloroethane	mg/kg (ppm)	0.05	94	94	65-132	0
1,1-Dichloroethene	mg/kg (ppm)	0.05	94	95	70-130	1
Methylene chloride	mg/kg (ppm)	0.05	74	75	52-150	1
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	96	97	70-130	1
1,1-Dichloroethane	mg/kg (ppm)	0.05	96	97	70-130	1
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	95	96	70-130	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	91	92	70-130	1
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	95	96	70-130	1
Trichloroethene	mg/kg (ppm)	0.05	94	92	70-130	2
Tetrachloroethene	mg/kg (ppm)	0.05	94	93	70-130	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

909484

SAMPLE CHAIN OF CUSTODY ME 9/27/19 B03/US3

Report To Jessica Smith

Company Aspect

Address

City, State, ZIP

Phone Email jsmith@aspectconsulting.com

SAMPLERS (*signature*)

PROJECT NAME: NE 8th + 106th

PO #: 190298

REMARKS

INVOICE TO: AP

Page # of

TURNAROUND TIME
- ☐ Standard Turnaround
- ☒ RUSH 24hr TAT
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
						ANALYSES REQUESTED											X-per ML 9/27/19 ME
AMW-4D-5.5	01 AE	9/27/19	0845	Soil	5					⊗							HOLD
AMW-4D-10.0	02		0850		5												
AMW-4D-15.0	03		0900		5												
AMW-4D-20.0	04		0910		5					⊗							
AMW-4D-25.0	05		0930		5												
AMW-4D-30.0	06		0940		5					⊗							
AMW-4D-35.0	07		1025		5					X							
AMW-4D-40.0	08		1030		5												
AMW-4D-45.0	09		1040		5												
												Samples received at 3 °C					

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Matthew Worden	Aspect	9/27/19	11:05
Received by:	VINT	FBI	9/27/19	11:05
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 1, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

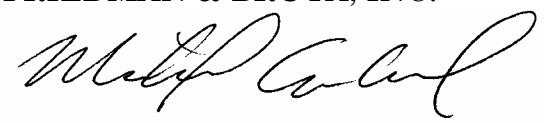
Dear Ms Smith:

Included are the results from the testing of material submitted on September 27, 2019 from the NE 8th + 106th 190298, F&BI 909484 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1001R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 27, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th + 106th 190298, F&BI 909484 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
909484 -01	AMW-4D-5.5
909484 -02	AMW-4D-10.0
909484 -03	AMW-4D-15.0
909484 -04	AMW-4D-20.0
909484 -05	AMW-4D-25.0
909484 -06	AMW-4D-30.0
909484 -07	AMW-4D-35.0
909484 -08	AMW-4D-40.0
909484 -09	AMW-4D-45.0

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-4D-35.0	Client:	Aspect Consulting, LLC
Date Received:	09/27/19	Project:	NE 8th + 106th 190298, F&BI 909484
Date Extracted:	09/30/19	Lab ID:	909484-07
Date Analyzed:	09/30/19	Data File:	093011.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th + 106th 190298, F&BI 909484
Date Extracted:	09/30/19	Lab ID:	09-2357 mb
Date Analyzed:	09/30/19	Data File:	093010.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Date of Report: 10/01/19
Date Received: 09/27/19
Project: NE 8th + 106th 190298, F&BI 909484

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909484-07 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	<0.05	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	96	98	50-158	2
Chloroethane	mg/kg (ppm)	0.05	101	96	48-179	5
1,1-Dichloroethene	mg/kg (ppm)	0.05	98	96	63-144	2
Methylene chloride	mg/kg (ppm)	0.05	97	85	17-179	13
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	101	96	70-130	5
1,1-Dichloroethane	mg/kg (ppm)	0.05	98	95	70-130	3
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	98	95	70-130	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	96	96	69-137	0
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	100	97	71-140	3
Trichloroethene	mg/kg (ppm)	0.05	96	95	70-130	1
Tetrachloroethene	mg/kg (ppm)	0.05	102	100	35-176	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

909484

SAMPLE CHAIN OF CUSTODY ME 9/27/19 B03/LS3

Page # ___ of ___

Report To Jessica Smith

Company Aspect

Address

City, State, ZIP

Phone ___ Email jsmith@aspectconsulting.com

SAMPLERS (*signature*)

PROJECT NAME: NE 8th + 106th

PO #: 190298

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☐ Standard Turnaround
- ☒ RUSH 24hTAT

Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
						ANALYSES REQUESTED											X-perML 9/27/19 NC
AMW-4D-5.5	01 AE	9/27/19	0845	Soil	5												HOLD
AMW-4D-10.0	02		0850		5												
AMW-4D-15.0	03		0900		5												
AMW-4D-20.0	04		0910		5												
AMW-4D-25.0	05		0930		5												
AMW-4D-30.0	06		0940		5												
AMW-4D-35.0	07		1025		5					X							
AMW-4D-40.0	08		1030		5												
AMW-4D-45.0	09		1040		5												
												Samples received at 3 °C					

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Matthew Ardery	Aspect	9/27/19	11:05
Received by:	VINT	FBI	9/27/19	11:05
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 1, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the results from the testing of material submitted on September 26, 2019 from the NE 8th and 106th 190298, F&BI 909450 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1001R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 26, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th and 106th 190298, F&BI 909450 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
909450 -01	AMW-1-5.0
909450 -02	AMW-1-10.0
909450 -03	AMW-1-15.0
909450 -04	AMW-1-20.0
909450 -05	AMW-1-22.5
909450 -06	AMW-1-25.0
909450 -07	AMW-1-27.5
909450 -08	AMW-1-30.0
909450 -09	AMW-1-32.5
909450 -10	AMW-1-35.0
909450 -11	AMW-1-37.5
909450 -12	AMW-1-40.0
909450 -13	AMW-1-42.5
909450 -14	AMW-1-45.0
909450 -15	AMW-2-5
909450 -16	AMW-2-11
909450 -17	AMW-2-14
909450 -18	AMW-2-19
909450 -19	AMW-2-24
909450 -20	AMW-2-29

All quality control requirements were acceptable.

Date of Report: 10/01/19
Date Received: 09/26/19
Project: NE 8th and 106th 190298, F&BI 909450
Date Extracted: 09/26/19
Date Analyzed: 09/26/19

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
AMW-1-15.0 909450-03	<5	93
AMW-1-37.5 909450-11	<5	91
AMW-1-45.0 909450-14	<5	90
AMW-2-19 909450-18	<5	89
Method Blank 09-2315 MB	<5	92

Date of Report: 10/01/19
Date Received: 09/26/19
Project: NE 8th and 106th 190298, F&BI 909450
Date Extracted: 09/26/19
Date Analyzed: 09/26/19

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
AMW-1-15.0 909450-03	<50	<250	95
AMW-1-37.5 909450-11	<50	<250	99
AMW-1-45.0 909450-14	<50	<250	94
Method Blank 09-2375 MB	<50	<250	105

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-1-15.0	Client:	Aspect Consulting, LLC
Date Received:	09/26/19	Project:	NE 8th and 106th 190298
Date Extracted:	09/26/19	Lab ID:	909450-03
Date Analyzed:	09/26/19	Data File:	092622.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	96	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-1-37.5	Client:	Aspect Consulting, LLC
Date Received:	09/26/19	Project:	NE 8th and 106th 190298
Date Extracted:	09/26/19	Lab ID:	909450-11
Date Analyzed:	09/26/19	Data File:	092623.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-1-45.0	Client:	Aspect Consulting, LLC
Date Received:	09/26/19	Project:	NE 8th and 106th 190298
Date Extracted:	09/26/19	Lab ID:	909450-14
Date Analyzed:	09/26/19	Data File:	092624.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-2-19	Client:	Aspect Consulting, LLC
Date Received:	09/26/19	Project:	NE 8th and 106th 190298
Date Extracted:	09/26/19	Lab ID:	909450-18
Date Analyzed:	09/26/19	Data File:	092625.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	111	50	150
4-Bromofluorobenzene	135	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th and 106th 190298
Date Extracted:	09/27/19	Lab ID:	09-2347 mb
Date Analyzed:	09/27/19	Data File:	092710.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	MS/AEN

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Date of Report: 10/01/19
Date Received: 09/26/19
Project: NE 8th and 106th 190298, F&BI 909450

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 909450-11 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	85	61-153

Date of Report: 10/01/19
Date Received: 09/26/19
Project: NE 8th and 106th 190298, F&BI 909450

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: 909440-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	102	64-133	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	100	58-147

Date of Report: 10/01/19
Date Received: 09/26/19
Project: NE 8th and 106th 190298, F&BI 909450

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909450-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	<0.05	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	99	89	50-158	11
Chloroethane	mg/kg (ppm)	0.05	99	97	48-179	2
1,1-Dichloroethene	mg/kg (ppm)	0.05	95	98	63-144	3
Methylene chloride	mg/kg (ppm)	0.05	99	97	17-179	2
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	96	99	70-130	3
1,1-Dichloroethane	mg/kg (ppm)	0.05	94	97	70-130	3
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	94	97	70-130	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	93	99	69-137	6
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	97	100	71-140	3
Trichloroethene	mg/kg (ppm)	0.05	93	101	70-130	8
Tetrachloroethene	mg/kg (ppm)	0.05	98	101	35-176	3

9

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

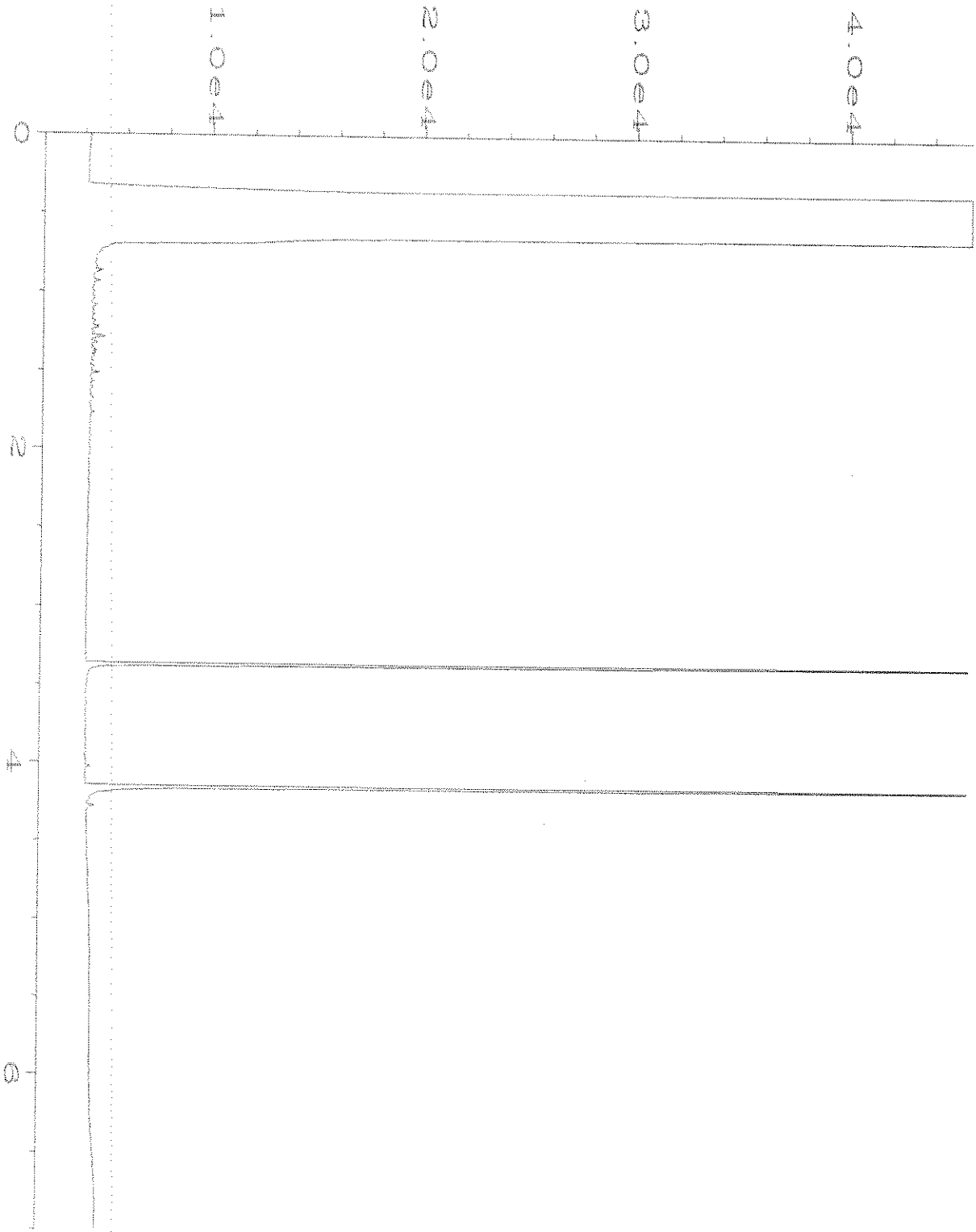
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

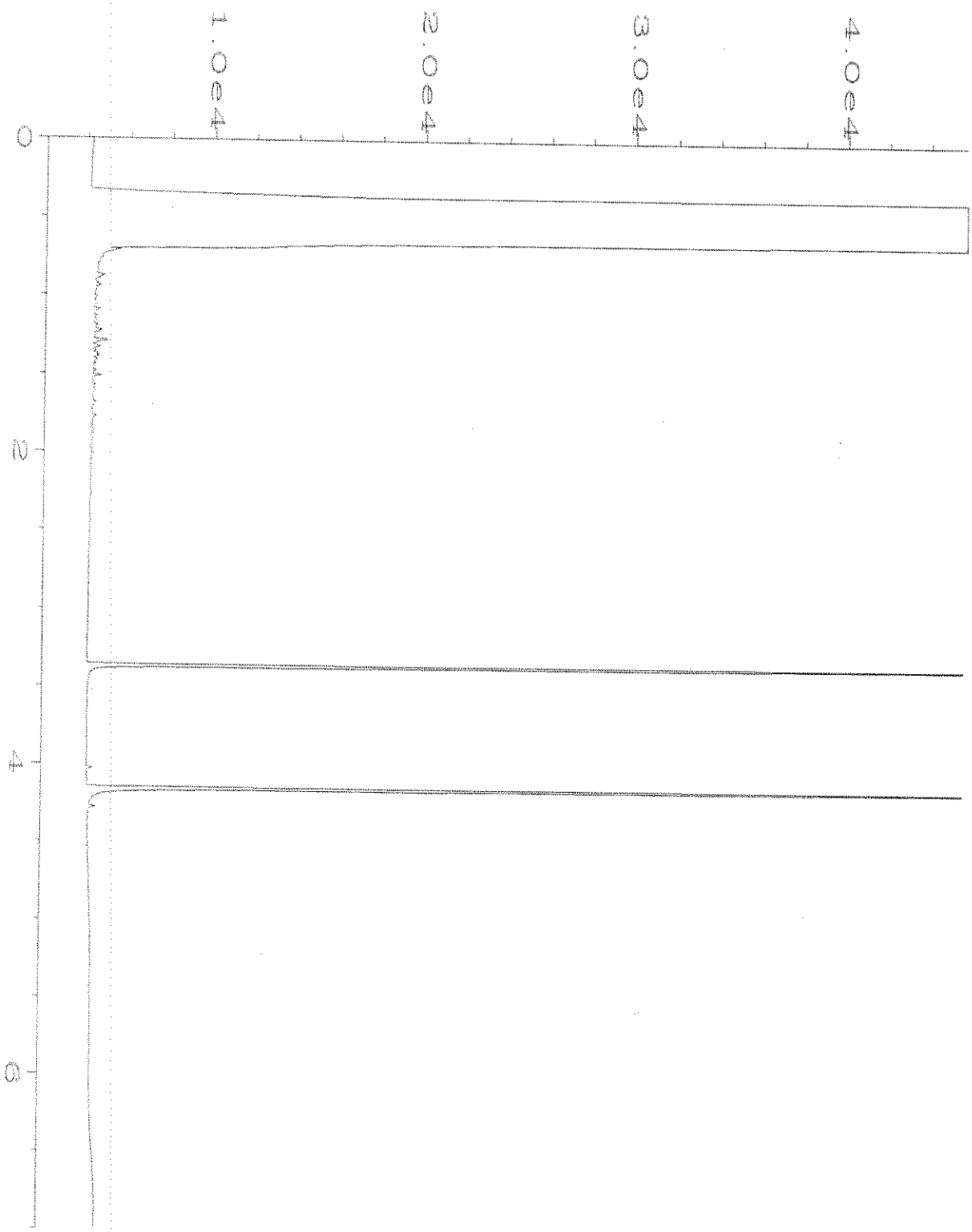
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

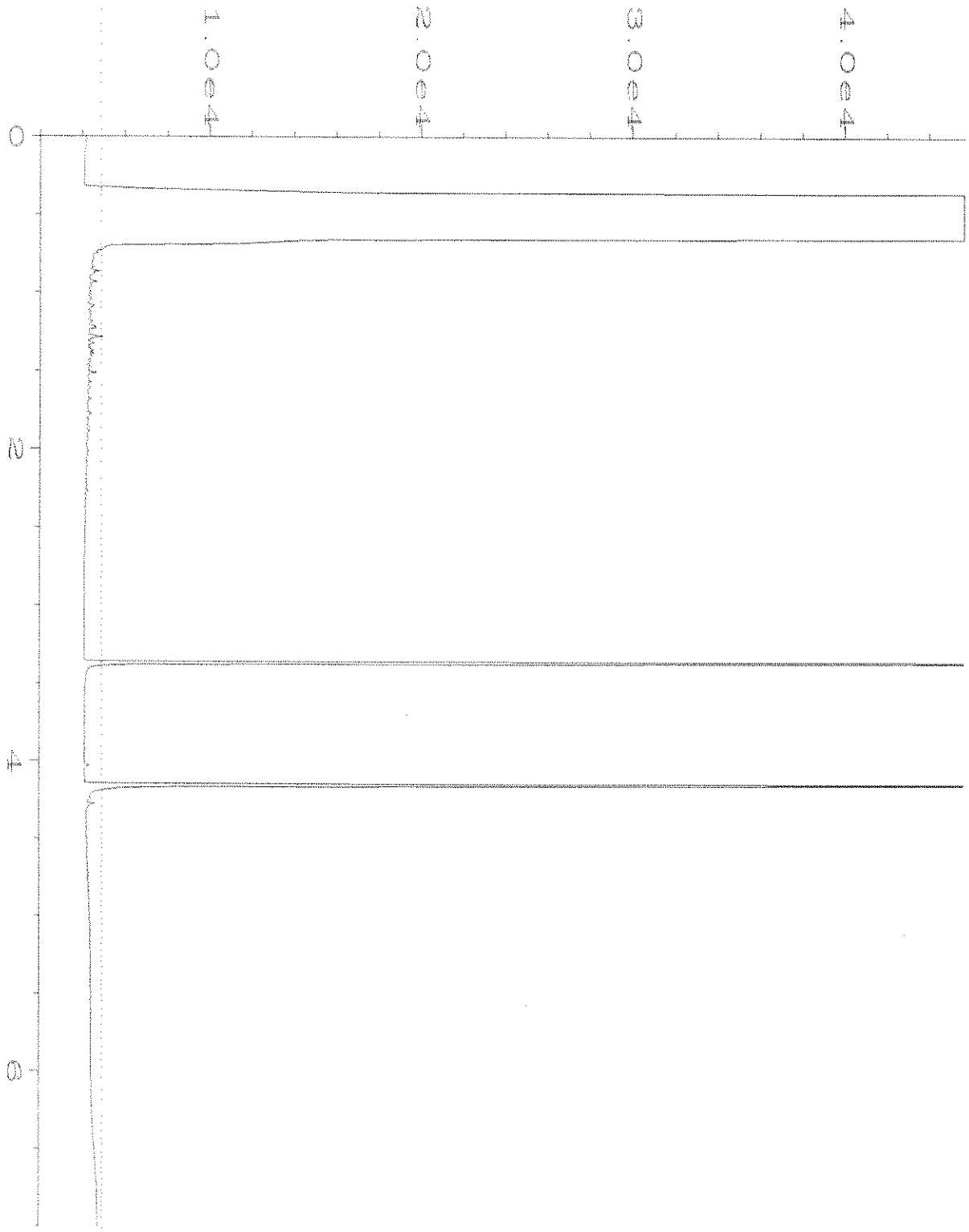


Data File Name	: C:\HPCHEM\6\DATA\09-26-19\042F1101.D		
Operator	: TL	Page Number	: 1
Instrument	: GC6	Vial Number	: 42
Sample Name	: 909450-03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 11
Acquired on	: 26 Sep 19 07:01 PM	Instrument Method	: DX.MTH
Report Created on	: 27 Sep 19 10:17 AM	Analysis Method	: DEFAULT.MTH

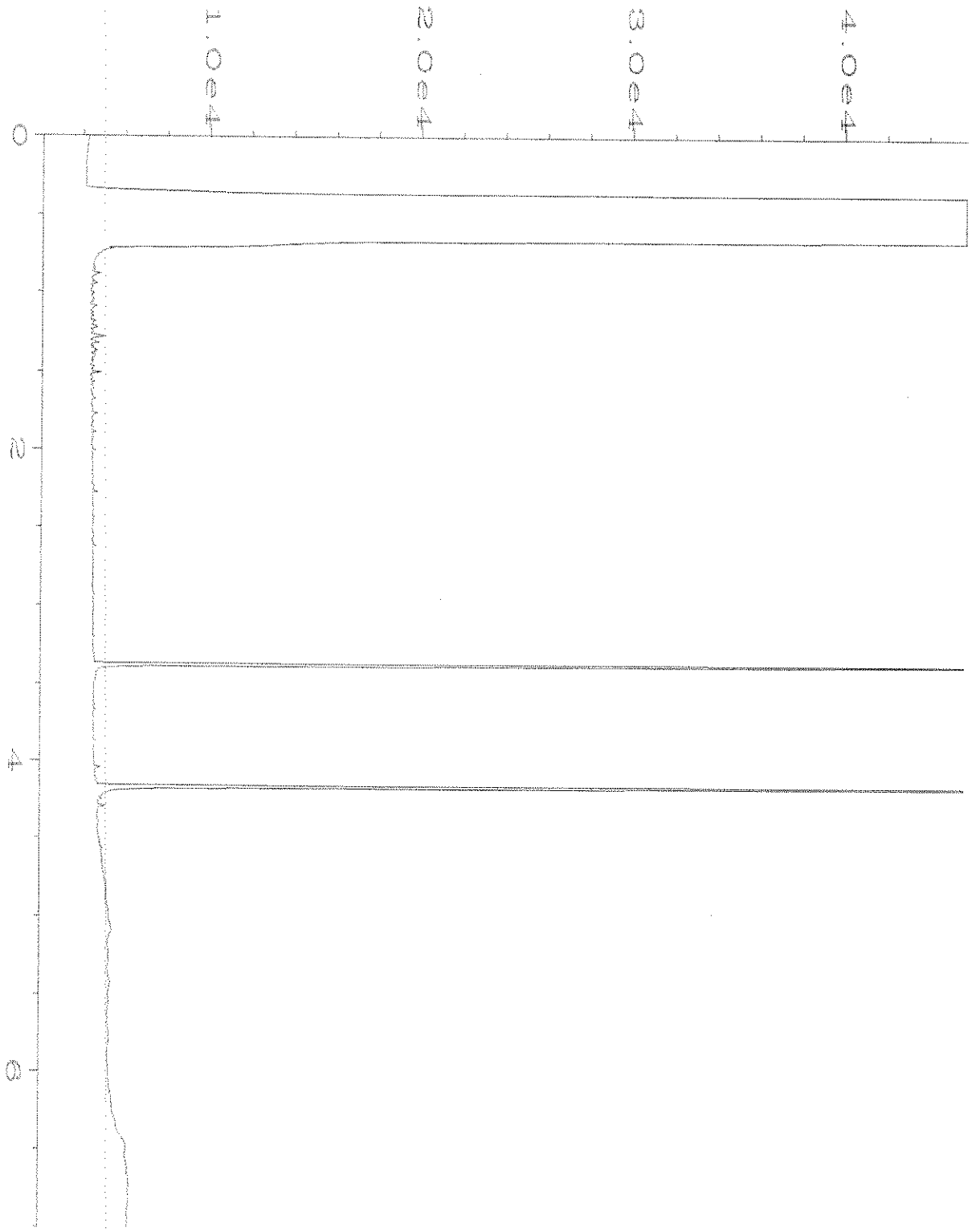


Data File Name : C:\HPCHEM\6\DATA\09-26-19\043F1101.D
Operator : TL
Instrument : GC6
Sample Name : 909450-11
Run Time Bar Code:
Acquired on : 26 Sep 19 07:12 PM
Report Created on: 27 Sep 19 10:18 AM

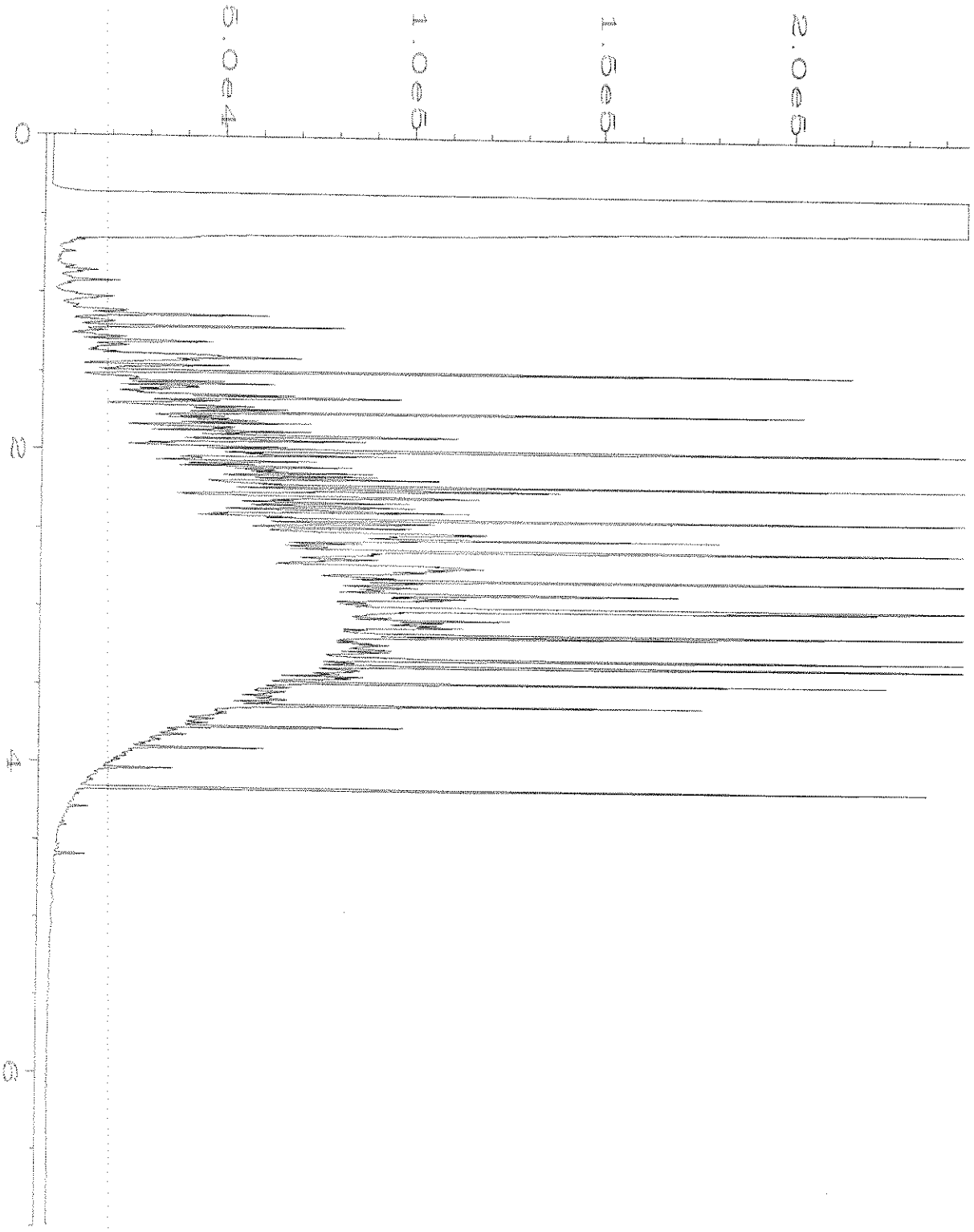
Page Number : 1
Vial Number : 43
Injection Number : 1
Sequence Line : 11
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH



Data File Name	: C:\HPCHEM\6\DATA\09-26-19\044F1101.D		
Operator	: TL	Page Number	: 1
Instrument	: GC6	Vial Number	: 44
Sample Name	: 909450-14	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 11
Acquired on	: 26 Sep 19 07:23 PM	Instrument Method	: DX.MTH
Report Created on	: 27 Sep 19 10:18 AM	Analysis Method	: DEFAULT.MTH



Data File Name	: C:\HPCHEM\6\DATA\09-26-19\006F0601.D		
Operator	: TL	Page Number	: 1
Instrument	: GC6	Vial Number	: 6
Sample Name	: 09-2375 mb	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 6
Acquired on	: 26 Sep 19 11:32 AM	Instrument Method	: DX.MTH
Report Created on	: 27 Sep 19 10:19 AM	Analysis Method	: DEFAULT.MTH



Data File Name : C:\HPCHEM\6\DATA\09-26-19\005F0701.D
Operator : TL
Instrument : GC6
Sample Name : 1000 Dx 57-78B
Run Time Bar Code:
Acquired on : 26 Sep 19 02:59 PM
Report Created on: 27 Sep 19 10:16 AM

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MTH
Analysis Method : DEFAULT.MTH

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 24, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included is the amended report from the testing of material submitted on October 3, 2019 from the NE 8th St, F&BI 910083 project. Per your request, sample ID AMW-35-100219 was changed to AMW-3S-100219.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1023R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 23, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the results from the testing of material submitted on October 3, 2019 from the NE 8th St, F&BI 910083 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1023R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 3, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th St, F&BI 910083project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
910083 -01	AMW-4D-100219
910083 -02	AMW-3D-100219
910083 -03	AMW-17-100219
910083 -04	AMW-18-100219
910083 -05	AMW-3S-100219

Upon receipt, the 40 ml VOA vials were placed in the freezer, cracking the containers. Fresh VOAs were decanted from the provided amber liter and the data were flagged accordingly.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	AMW-3S-100219 pc	Client:	Aspect Consulting, LLC
Date Received:	10/03/19	Project:	NE 8th St, F&BI 910083
Date Extracted:	10/04/19	Lab ID:	910083-05
Date Analyzed:	10/04/19	Data File:	100426.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	93	107
Toluene-d8	102	87	110
4-Bromofluorobenzene	106	85	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	1.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th St, F&BI 910083
Date Extracted:	10/04/19	Lab ID:	09-2401 mb
Date Analyzed:	10/04/19	Data File:	100418.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	93	107
Toluene-d8	101	91	108
4-Bromofluorobenzene	112 vo	90	108

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 10/23/19
Date Received: 10/03/19
Project: NE 8th St, F&BI 910083

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 910032-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	106	61-139
Chloroethane	ug/L (ppb)	50	<1	107	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	98	71-123
Methylene chloride	ug/L (ppb)	50	<5	72	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	89	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	93	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	101	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	90	75-121
Trichloroethene	ug/L (ppb)	50	<1	93	73-122
Tetrachloroethene	ug/L (ppb)	50	5.5	97	40-155

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	112	107	70-128	5
Chloroethane	ug/L (ppb)	50	113	112	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	107	109	72-121	2
Methylene chloride	ug/L (ppb)	50	92	94	63-132	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	95	94	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	99	98	77-119	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	96	76-119	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	108	107	75-116	1
1,1,1-Trichloroethane	ug/L (ppb)	50	96	96	80-116	0
Trichloroethene	ug/L (ppb)	50	99	98	72-119	1
Tetrachloroethene	ug/L (ppb)	50	101	102	78-109	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

910083

SAMPLE CHAIN OF CUSTODY

ME 10/3/19 VW1/ C05

Page # 1 of 1

Report To Jessica Smith
Company Aspect Consulting
Address Seattle
City, State, ZIP
Phone Email On File

SAMPLERS (*signature*) Matthew M. Lewis
PROJECT NAME N 85th St
PO #
REMARKS Hold Dx+Gx per ML 10/4/19 ME
INVOICE TO

TURNAROUND TIME
☐ Standard Turnaround
☒ RUSH 24 hr
Rush charges authorized by: Jessica Smith

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Archive Samples
☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	~~Hold~~ TPH-Diesel	~~Hold~~ TPH-Gasoline	BTEX by 8021B	~~cVOCs~~ VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-4D-100219	01 A-C	10/2/19	1040	GW	6		X	X		X							
AMW-3D-100319	02	10/3/19	1210														~~800~~ NTUs turbid
MW-17-100319	03		1330														
MW-18-100319	04		1440														
AMW-3S-100319	05		1530							⊗							71000 NTUs
																	⊗ - only report cVOCs in -05 10/23/19 per MLK ME

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Matthew M. Lewis	Matthew M. Lewis	Aspect	10/03/19	1700
Received by: Khoi Hoang	Khoi Hoang	FBI	10/03/19	17:00
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

~~Samples received at~~ 2 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 23, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

Dear Ms Smith:

Included are the results from the testing of material submitted on October 3, 2019 from the NE 8th St, F&BI 910083 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Data Aspect, Meilani Lanier-Kamaha'o
ASP1023R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 3, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th St, F&BI 910083project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
910083 -01	AMW-4D-100219
910083 -02	AMW-3D-100219
910083 -03	AMW-17-100219
910083 -04	AMW-18-100219
910083 -05	AMW-35-100219

Upon receipt, the 40 ml VOA vials were placed in the freezer, cracking the containers. Fresh VOAs were decanted from the provided amber liter and the data were flagged accordingly.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	AMW-35-100219 pc	Client:	Aspect Consulting, LLC
Date Received:	10/03/19	Project:	NE 8th St, F&BI 910083
Date Extracted:	10/04/19	Lab ID:	910083-05
Date Analyzed:	10/04/19	Data File:	100426.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	93	107
Toluene-d8	102	87	110
4-Bromofluorobenzene	106	85	112

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	1.3

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th St, F&BI 910083
Date Extracted:	10/04/19	Lab ID:	09-2401 mb
Date Analyzed:	10/04/19	Data File:	100418.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	93	107
Toluene-d8	101	91	108
4-Bromofluorobenzene	112 vo	90	108

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 10/23/19
Date Received: 10/03/19
Project: NE 8th St, F&BI 910083

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 910032-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	106	61-139
Chloroethane	ug/L (ppb)	50	<1	107	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	98	71-123
Methylene chloride	ug/L (ppb)	50	<5	72	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	89	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	93	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	101	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	90	75-121
Trichloroethene	ug/L (ppb)	50	<1	93	73-122
Tetrachloroethene	ug/L (ppb)	50	5.5	97	40-155

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	112	107	70-128	5
Chloroethane	ug/L (ppb)	50	113	112	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	107	109	72-121	2
Methylene chloride	ug/L (ppb)	50	92	94	63-132	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	95	94	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	99	98	77-119	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	96	76-119	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	108	107	75-116	1
1,1,1-Trichloroethane	ug/L (ppb)	50	96	96	80-116	0
Trichloroethene	ug/L (ppb)	50	99	98	72-119	1
Tetrachloroethene	ug/L (ppb)	50	101	102	78-109	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

910083

SAMPLE CHAIN OF CUSTODY

ME 10/3/19 VW1/ C05

Page # 1 of 1

Report To Jessica Smith
Company Aspect Consulting
Address Seattle
City, State, ZIP
Phone Email On File

SAMPLERS (*signature*) Matthew M. Lewis
PROJECT NAME N 85th St
PO #
REMARKS Hold Dx+Gx per ML 10/4/19 ME
INVOICE TO

TURNAROUND TIME
☐ Standard Turnaround
☒ RUSH 24 hr
Rush charges authorized by: Jessica Smith

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Archive Samples
☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	~~Hold~~ TPH-Diesel	~~Hold~~ TPH-Gasoline	BTEX by 8021B	~~cVOCs~~ VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM					Notes
AMW-4D-100219	01 A-C	10/2/19	1040	GW	6		X	X		X							
AMW-3D-100319	02	10/3/19	1210														~~800~~ NTUs turbid
MW-17-100319	03		1330														
MW-18-100319	04		1440														
AMW-3S-100319	05		1530							⊗							71000 NTUs
																	⊗ - only report cVOCs in -05 10/23/19 per MLK ME

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Matthew M. Lewis	Matthew M. Lewis	Aspect	10/03/19	1700
Received by: Khoi Hoang	Khoi Hoang	FBI	10/03/19	17:00
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

~~Samples received at~~ 2 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 4, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

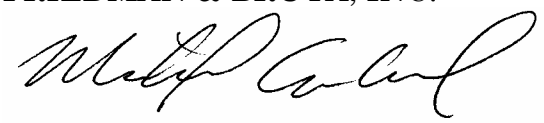
Dear Ms Smith:

Included are the results from the testing of material submitted on September 30, 2019 from the NE 8th+106th 190298, F&BI 909517 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Data Aspect
ASP1004R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th+106th 190298 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
909517 -01	AMW-3D-5.0
909517 -02	AMW-3D-10.0
909517 -03	AMW-3D-15.0
909517 -04	AMW-3D-20.0
909517 -05	AMW-3D-25.0
909517 -06	AMW-3D-30.0
909517 -07	AMW-3D-35.0
909517 -08	AMW-3D-40.0
909517 -09	AMW-3D-45.0
909517 -10	AMW-3D-50.0
909517 -11	AMW-3D-55.0
909517 -12	AMW-3D-57.5
909517 -13	AMW-3D-65.0
909517 -14	AMW-3D-70.0

The presence of the methylene chloride indicated in samples AMW-3D-35.0 and AMW-3D-55.0 is likely due to laboratory. The data were flagged accordingly.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-3D-35.0	Client:	Aspect Consulting, LLC
Date Received:	09/30/19	Project:	NE 8th+106th 190298, F&BI 909517
Date Extracted:	10/02/19	Lab ID:	909517-07
Date Analyzed:	10/03/19	Data File:	100229.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	50	150
Toluene-d8	88	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.15 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-3D-45.0	Client:	Aspect Consulting, LLC
Date Received:	09/30/19	Project:	NE 8th+106th 190298, F&BI 909517
Date Extracted:	10/02/19	Lab ID:	909517-09
Date Analyzed:	10/03/19	Data File:	100230.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	91	50	150
4-Bromofluorobenzene	120	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	0.019

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-3D-55.0	Client:	Aspect Consulting, LLC
Date Received:	09/30/19	Project:	NE 8th+106th 190298, F&BI 909517
Date Extracted:	10/02/19	Lab ID:	909517-11
Date Analyzed:	10/03/19	Data File:	100231.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	93	50	150
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	0.11 lc
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th+106th 190298, F&BI 909517
Date Extracted:	10/02/19	Lab ID:	09-2393 mb
Date Analyzed:	10/02/19	Data File:	100224.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	93	50	150
4-Bromofluorobenzene	85	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Date of Report: 10/04/19
Date Received: 09/30/19
Project: NE 8th+106th 190298, F&BI 909517

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909517-07 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	0.13 lc	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	90	87	60-136	3
Chloroethane	mg/kg (ppm)	0.05	96	80	65-132	18
1,1-Dichloroethene	mg/kg (ppm)	0.05	92	87	70-130	6
Methylene chloride	mg/kg (ppm)	0.05	81	83	52-150	2
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	92	92	70-130	0
1,1-Dichloroethane	mg/kg (ppm)	0.05	94	95	70-130	1
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	91	92	70-130	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	92	96	70-130	4
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	97	96	70-130	1
Trichloroethene	mg/kg (ppm)	0.05	94	94	70-130	0
Tetrachloroethene	mg/kg (ppm)	0.05	93	93	70-130	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

909517

SAMPLE CHAIN OF CUSTODY

ME 09-30-19

Page # 1 of 2

VS3 B03

Report To Jessica Smith

Company Aspect

Address

City, State, ZIP

Phone Email jsmith@aspectconsulting.com

SAMPLERS (*signature*)

PROJECT NAME: NE 8th + 106th

PO #: 190298

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☐ Standard Turnaround
- ☒ RUSH 24 hr TAT per ML 10/2/19
- Rush charges authorized by: ME

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	cVOCs				X-per ML 10/2/19 ME Notes
AMW-3D-5.0	01A-E	9/30/19	0830	Soil	5												~~HOLD~~
AMW-3D-10.0	02		0835														
AMW-3D-15.0	03		0840														
AMW-3D-20.0	04		0850														
AMW-3D-25.0	05		0920														
AMW-3D-30.0	06		0925														
AMW-3D-35.0	07		1000										X				
AMW-3D-40.0	08		1015														
AMW-3D-45.0	09		1025										X				
AMW-3D-50.0	10	↓	1205	↓	↓												

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amelia Oakes	Aspect	9/30/19	1345
Received by:	Eric Jaime	FedEx	9/30/19	1345
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

909517

SAMPLE CHAIN OF CUSTODY

ME 09-30-19

Page # 2 of 2 VS3 B03

Report To Jess Smith

Company

Address

City, State, ZIP

Phone Email

SAMPLERS (*signature*)

PROJECT NAME: NE 8th

PO #: 170218

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	cVOC				Notes
AMW-3D-55.0	11	9/30/19	1215	Soil	5								X				~~HOLD~~
AMW-3D-57.5	12		1230	↓	↓								~~X~~	~~hold~~		ML	↓
AMW-3D-65.0	13		1310													10/2 ML	
AMW-3D-70.0	14		1315	↓	↓												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amelia Oakes	Aspect	9/30/19	1345
Received by:	Eric Young	F&B	9/30/19	1345
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 8, 2019

Jessica Smith, Project Manager
Aspect Consulting, LLC
710 2nd Ave S, Suite 550
Seattle, WA 98104

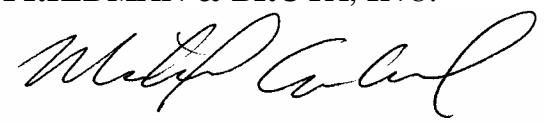
Dear Ms Smith:

Included are the results from the testing of material submitted on October 1, 2019 from the NE 8th+106th 190298, F&BI 910019 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Data Aspect
ASP1008R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 1, 2019 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC NE 8th+106th 190298, F&BI 910019 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Aspect Consulting, LLC
910019 -01	AMW-3D-75.0
910019 -02	AMW-3D-80.0
910019 -03	AMW-3D-85.0
910019 -04	AMW-3D-90.0
910019 -05	AMW-2-093019

All quality control requirements were acceptable.

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	AMW-3D-75.0	Client:	Aspect Consulting, LLC
Date Received:	10/01/19	Project:	NE 8th+106th 190298, F&BI 910019
Date Extracted:	10/02/19	Lab ID:	910019-01
Date Analyzed:	10/03/19	Data File:	100232.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	73	50	150
4-Bromofluorobenzene	106	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C Direct Sparge

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th+106th 190298, F&BI 910019
Date Extracted:	10/02/19	Lab ID:	09-2393 mb
Date Analyzed:	10/02/19	Data File:	100224.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	93	50	150
4-Bromofluorobenzene	85	50	150

Compounds:	Concentration mg/kg (ppm)
Vinyl chloride	<0.005
Chloroethane	<0.05
1,1-Dichloroethene	<0.005
Methylene chloride	<0.05
trans-1,2-Dichloroethene	<0.005
1,1-Dichloroethane	<0.005
cis-1,2-Dichloroethene	<0.005
1,2-Dichloroethane (EDC)	<0.005
1,1,1-Trichloroethane	<0.005
Trichloroethene	<0.003
Tetrachloroethene	<0.005

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	AMW-2-093019	Client:	Aspect Consulting, LLC
Date Received:	10/01/19	Project:	NE 8th+106th 190298, F&BI 910019
Date Extracted:	10/02/19	Lab ID:	910019-05
Date Analyzed:	10/03/19	Data File:	100257.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	93	107
Toluene-d8	103	91	108
4-Bromofluorobenzene	99	90	108

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	NE 8th+106th 190298, F&BI 910019
Date Extracted:	10/02/19	Lab ID:	09-2392 mb
Date Analyzed:	10/03/19	Data File:	100254.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	AEN/MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	93	107
Toluene-d8	100	91	108
4-Bromofluorobenzene	100	90	108

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

Date of Report: 10/08/19
Date Received: 10/01/19
Project: NE 8th+106th 190298, F&BI 910019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C DIRECT SPARGE

Laboratory Code: 909517-07 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet wt)	Duplicate Result (Wet wt)	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	<0.005	<0.005	nm
Chloroethane	mg/kg (ppm)	<0.05	<0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
Methylene chloride	mg/kg (ppm)	0.13 lc	<0.05	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,1-Dichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	<0.005	<0.005	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	<0.005	<0.005	nm
1,1,1-Trichloroethane	mg/kg (ppm)	<0.005	<0.005	nm
Trichloroethene	mg/kg (ppm)	<0.003	<0.003	nm
Tetrachloroethene	mg/kg (ppm)	<0.005	<0.005	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	mg/kg (ppm)	0.05	90	87	60-136	3
Chloroethane	mg/kg (ppm)	0.05	96	80	65-132	18
1,1-Dichloroethene	mg/kg (ppm)	0.05	92	87	70-130	6
Methylene chloride	mg/kg (ppm)	0.05	81	83	52-150	2
trans-1,2-Dichloroethene	mg/kg (ppm)	0.05	92	92	70-130	0
1,1-Dichloroethane	mg/kg (ppm)	0.05	94	95	70-130	1
cis-1,2-Dichloroethene	mg/kg (ppm)	0.05	91	92	70-130	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	0.05	92	96	70-130	4
1,1,1-Trichloroethane	mg/kg (ppm)	0.05	97	96	70-130	1
Trichloroethene	mg/kg (ppm)	0.05	94	94	70-130	0
Tetrachloroethene	mg/kg (ppm)	0.05	93	93	70-130	0

Date of Report: 10/08/19
Date Received: 10/01/19
Project: NE 8th+106th 190298, F&BI 910019

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	108	103	70-128	5
Chloroethane	ug/L (ppb)	50	106	102	66-149	4
1,1-Dichloroethene	ug/L (ppb)	50	117	110	72-121	6
Methylene chloride	ug/L (ppb)	50	103	100	63-132	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	104	99	76-118	5
1,1-Dichloroethane	ug/L (ppb)	50	104	101	77-119	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	99	76-119	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	105	106	75-116	1
1,1,1-Trichloroethane	ug/L (ppb)	50	102	101	80-116	1
Trichloroethene	ug/L (ppb)	50	98	98	72-119	0
Tetrachloroethene	ug/L (ppb)	50	100	100	78-109	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

910019

SAMPLE CHAIN OF CUSTODY

ME 10/01/19 VSI/WI/CO2 ~~B02~~

Page # 1 of 1

Report To Jessica Smith

Company Aspect

Address

City, State, ZIP

Phone Email jsmith@aspectconsulting.com

SAMPLERS (*signature*)

PROJECT NAME: NE 8th + 106th

PO #: 190298

REMARKS

INVOICE TO: AP

TURNAROUND TIME
- ☐ Standard Turnaround
- ☐ ~~RUSH~~ ~~24 hr TAT~~
- Rush charges authorized by: 48hr TAT not ME 10/2/19

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Archive Samples
- ☐ Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	CVOCs				⊗ - per ML 10/2/19 Notes MC
AMW-30-75.0	01 A-E	9/30/19	1325	Soil	5								⊗				HOLD
AMW-30-80.0	02		1335														
AMW-30-85.0	03		1430														
AMW-30-90.0	04		1435														
AMW-2-093019	05 A-F	09/30/19	1440	Water	5 (6) (MP)								X				
													Samples received at 4 °C				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amelia Oakes	Aspect	10/01/19	0650
Received by:	Wes Herring	Fed Ex	10/1/19	1045
Relinquished by:				
Received by:	Nhan Phan	FEBI	10/1/19	1045

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282

APPENDIX D

Report Limitations and Guidelines for Use

REPORT LIMITATIONS AND USE GUIDELINES

Reliance Conditions for Third Parties

This report was prepared for the exclusive use of the Client. No other party may rely on this report or the product of our services without the express written consent of Aspect Consulting, LLC (Aspect). This limitation is to provide our firm with reasonable protection against liability claims by third parties with whom there would otherwise be no contractual conditions or limitations and guidelines governing their use of the report. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and recognized standards of professionals in the same locality and involving similar conditions.

Services for Specific Purposes, Persons and Projects

Aspect has performed the services in general accordance with the scope and limitations of our Agreement. This report has been prepared for the exclusive use of the Client and their authorized third parties, approved in writing by Aspect. This report is not intended for use by others, and the information contained herein is not applicable to other properties.

This report is not, and should not, be construed as a warranty or guarantee regarding the presence or absence of hazardous substances or petroleum products that may affect the subject property. The report is not intended to make any representation concerning title or ownership to the subject property. If real property records were reviewed, they were reviewed for the sole purpose of determining the subject property's historical uses. All findings, conclusions, and recommendations stated in this report are based on the data and information provided to Aspect, current use of the subject property, and observations and conditions that existed on the date and time of the report.

Aspect structures its services to meet the specific needs of our clients. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and subject property. This report should not be applied for any purpose or project except the purpose described in the Agreement.

This Report Is Project-Specific

Aspect considered a number of unique, project-specific factors when establishing the Scope of Work for this project and report. You should not rely on this report if it was:

- Not prepared for you
- Not prepared for the specific purpose identified in the Agreement
- Not prepared for the specific real property assessed
- Completed before important changes occurred concerning the subject property, project or governmental regulatory actions

If changes are made to the project or subject property after the date of this report, Aspect should be retained to assess the impact of the changes with respect to the conclusions contained in the report.

Geoscience Interpretations

The geoscience practices (geotechnical engineering, geology, and environmental science) require interpretation of spatial information that can make them less exact than other engineering and natural science disciplines. It is important to recognize this limitation in evaluating the content of the report. If you are unclear how these "Report Limitations and Use Guidelines" apply to your project or site, you should contact Aspect.

Discipline-Specific Reports Are Not Interchangeable

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually address any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding the subject property.

Environmental Regulations Are Not Static

Some hazardous substances or petroleum products may be present near the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state or federal regulatory definitions of hazardous substances or petroleum products or do not otherwise present potential liability. Changes may occur in the standards for appropriate inquiry or regulatory definitions of hazardous substance and petroleum products; therefore, this report has a limited useful life.

Property Conditions Change Over Time

This report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time (for example, Phase I ESA reports are applicable for 180 days), by events such as a change in property use or occupancy, or by natural events, such as floods, earthquakes, slope failure or groundwater fluctuations. If more than six months have passed since issuance of our report, or if any of the described events may have occurred following the issuance of the report, you should contact Aspect so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

Phase I ESAs – Uncertainty Remains After Completion

Aspect has performed the services in general accordance with the scope and limitations of our Agreement and the current version of the "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", ASTM E1527, and U.S. Environmental Protection Agency (EPA)'s Federal Standard 40 CFR Part 312 "Innocent Landowners, Standards for Conducting All Appropriate Inquiries".

No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with subject property. Performance of an ESA study is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental conditions affecting the subject property. There is always a potential that areas with contamination that were not identified during this ESA exist at the subject property or in the study area. Further evaluation of such potential would require additional research, subsurface exploration, sampling and/or testing.

Historical Information Provided by Others

Aspect has relied upon information provided by others in our description of historical conditions and in our review of regulatory databases and files. The available data does not provide definitive information with regard to all past uses, operations or incidents affecting the subject property or adjacent properties. Aspect makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others.

Exclusion of Mold, Fungus, Radon, Lead, and HBM

Aspect's services do not include the investigation, detection, prevention or assessment of the presence of molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detection, assessment, prevention or abatement of molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts. Aspect's services also do not include the investigation or assessment of hazardous building materials (HBM) such as asbestos, polychlorinated biphenyls (PCBs) in light ballasts, lead based paint, asbestos-containing building materials, urea-formaldehyde insulation in on-site structures or debris or any other HBMs. Aspect's services do not include an evaluation of radon or lead in drinking water, unless specifically requested.