

REMEDIAL INVESTIGATION REPORT

Texaco Strickland Site

Prepared for: Strickland Real Estate Holdings, LLC and
Chevron Environmental Management Company

Project No. 180357 • January 19, 2026 • FINAL



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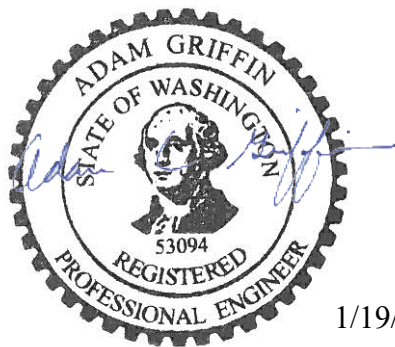
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1/19/2026

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Acronyms

AO	Agreed Order
APH	Air-Phase Hydrocarbons
Aspect	Aspect Consulting, a Geosyntec company
ASTM	ASTM International Standard
BTEX	benzene, toluene, ethylbenzene, and total xylenes
bgs	below ground surface
CEMC	Chevron Environmental Management Company
COC	contaminant of concern
COPC	contaminant of potential concern
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CUL	Cleanup level
cVOC	chlorinated volatile organic compound
Ecology	Washington Department of Ecology
EDB	1,2-dibromomethane
EDC	1,2-dichloroethane
EPA	US Environmental Protection Agency
gpm	gallons per minute
IA	Interim Action
IAWP	Interim Action Report
Jiffy Lube	Jiffy Lube International, Inc.
LANPL	light nonaqueous phase liquid
LUST	leaking underground storage tank
MDEP	Massachusetts Department of Environmental Protection
mg/kg	milligrams/kilograms
mg/L	milligrams per liter
µg/L	micrograms per liter
MTBE	methyl tert-butyl ether

MTCA	Model Toxics Control Act
NFA	No Further Action
PCB	polychlorinated biphenyls
PCE	tetrachloroethylene
OSHA	Occupational Safety Hazard Association
PLIA	Washington State Pollution Liability Insurance Agency
PLP	potentially liable party
QAPP	Quality Assurance Project Plan
RCW	Revised Code of Washington
RI/FS	Remedial Investigation/Feasibility Study
RIWP	Remedial Investigation Work Plan
SAP	Sampling Analysis Plan
SREH	Strickland Real estate Holdings, LLC
SVE	soil vapor extraction
TAP	Technical Assistance Program
TCE	trichloroethylene
TEF	toxic equivalency factor
TPHg	total petroleum hydrocarbon as gas
TPHo	total petroleum hydrocarbon as oil
USGS	US Geological Survey
UST	underground storage tank
VOC	volatile organic compound
WISHA	Washington Industrial Safety and Health Act

Executive Summary

Aspect Consulting, a Geosyntec company (Aspect) prepared this Remedial Investigation (RI) report for the Texaco Strickland Site (the Site), located at 6808 196th Street Southwest in Lynnwood, Washington (the Property; Figure 1). The Site is defined as any area where a hazardous substance has been deposited, stored, disposed of, placed, or otherwise come to be located (Washington Administrative Code [WAC] 173-340-200). The Property has been vacant since 2018 and is recorded by the Snohomish County Tax Assessor as tax parcel #27042000200600.

Two potentially liable parties (PLPs), Strickland Real Estate Holdings, LLC (SREH) and Chevron Environmental Management Company (CEMC), entered into Agreed Order No. 14315 (the AO) with the Washington State Department of Ecology (Ecology) on August 28, 2018. On December 14, 2020, Ecology named Jiffy Lube International, Inc. (Jiffy Lube) as a third PLP for the Site. Jiffy Lube has not participated in any of the work discussed in this RI report.

Site History and Subsurface Conditions

The Property was occupied by a Texaco-branded service station from 1959 until 1977 and was converted into a lube facility, which operated continuously under various brands until 2006. Historical service station operations at the Property resulted in a release or releases of gasoline-range petroleum hydrocarbons to the subsurface, impacting soil, groundwater, and soil gas on the Property, and contaminated groundwater has migrated off-Property. In addition, releases of oil- and diesel-range petroleum hydrocarbons associated with lube facility operations impacted soil and groundwater.

Historical environmental investigations occurred from 1995 through 2011 as part of independent cleanup activity performed at the Property. Ecology determined the releases of hazardous substances documented at the Property by those investigations represented a potential threat to human health and/or the environment. In 2015, Ecology determined that SREH and CEMC were PLPs with respect to the release(s) of gasoline-range petroleum hydrocarbons, and the PLPs entered into the AO in 2018. Remedial investigations have been conducted between 2019 and 2021 to define the nature and extents of contamination at the Site, and this report presents results of those remedial investigation activities.

On December 14, 2020, Ecology determined Jiffy Lube was a PLP as well with respect to oil- and diesel-range petroleum hydrocarbons released at Site. However, Jiffy Lube is not a party to the 2018 AO, nor a participant in the remedial investigation activities described in this RI report.

Site geology generally consists of imported fill to depths up to 10 feet below ground surface (bgs) and Vashon till extends to the maximum depth explored at the Site 40.5 feet bgs. Groundwater is present at the Site in a surficial, unconfined, and potentially perched aquifer and is encountered at depths ranging from 7 to 16 feet bgs at the interface of the

imported fill and Vashon till. Groundwater flow at the Site and adjacent properties is generally to the southwest, with some minor seasonal variation.

Conceptual Site Model

Based on an evaluation of prior environmental investigations at the Site and the AO RI investigations, the affected media at the Site is soil, groundwater, and soil gas. COCs have been detected in indoor air at the Site, but are likely present due to background sources. The Site contaminants of concern (COCs) are:

- Gasoline-, diesel-, and oil-range total petroleum hydrocarbons (TPHg, TPHd, and TPHo, respectively); benzene, toluene, ethylbenzene, and total xylenes (BTEX), and naphthalene in soil and groundwater
- TPH, benzene, and naphthalene in soil gas and potentially indoor air

The COCs retained for the Site are based on the occurrence of analytes identified above soil and groundwater MTCA Method A cleanup levels, subsoil soil gas MTCA Method B screening levels, or indoor air MTCA Method B cleanup levels.

The primary objective of the AO RI was to define the nature and extent of contamination resulting from releases at the Property to assess potential exposure pathways to human health and the environment so that a final cleanup action for the Site can be selected. Free-phase light nonaqueous liquid (LNAPL) was present in monitoring wells adjacent to former service station infrastructure (the former USTs, pump islands, and associated conveyance piping), which is the presumed source of the gasoline-range release(s). The LNAPL extent was defined by the occurrence in monitoring wells on the other side of the Property building (which, in September 2022, was demolished as part of the Interim Action). Jiffy Lube operations and USTs containing waste oil are the presumed sources of diesel- and oil-range petroleum hydrocarbons in soil and groundwater at the Property. Ecology has determined that releases from the gasoline service station and the Jiffy Lube facility have commingled at the Site (Ecology 2020).

The extent of soil contamination is laterally delineated and vertically bounded through the historical and AO RI subsurface investigation results. Generally, soil contamination is centered around and downgradient of the LNAPL at the Site as shown on Figure 2. The presence of LNAPL and sorbed-phase contamination in soil has resulted in groundwater contamination, which is also laterally and vertically delineated as part of the AO RI. The groundwater plume extends down- and crossgradient from the observed soil impacts and LNAPL plume and extends off-Property to the west and potentially to the south.

These soil and groundwater impacts have resulted in contamination in soil gas at the Property. As part of the AO RI, the potential for petroleum vapor intrusion into the south-adjacent property building (Chri-Mar Apartments) was assessed. The extents of soil gas impacts have been laterally delineated, and a Tier II vapor intrusion assessment, including four rounds of indoor air sampling in the building crawlspace, was performed. Sample results indicate that indoor air exceedances do not correlate with crawlspace exceedances and are not the result of vapor intrusion from the Site. Therefore, the results of the vapor intrusion assessment do not suggest a currently completed vapor intrusion pathway into the south-adjacent building.

The potential exposure pathways from the contamination that may affect human health and the environment include the soil-leaching-to-groundwater pathway, the groundwater-ingestion pathway, and the vapor intrusion pathway. During the AO RI, these pathways were demonstrated to be potentially incomplete.

The Site has been fully characterized with respect to the nature and extent of contamination and the potential exposure pathways. These formed the basis for selection of the appropriate cleanup standards, including cleanup levels, points of compliance, and areas requiring remediation, to be applied to the Site to ensure the protection of human health and environment. These cleanup standards will form the basis of cleanup alternatives to be evaluated in the Feasibility Study.

Conclusions and Recommendations

Contaminated soil and groundwater at the Site are a result of gasoline, diesel, and waste oil releases from historical operations at the Property. The areas to be addressed by a cleanup for this Site have been delineated based on the affected media, nature and extent of contamination, and cleanup standards described in this report. The potential exposure pathways for human health and terrestrial ecological risk are currently incomplete.

Concurrently with the RI, an interim action (IA) was conducted at the Site and removed the LNAPL, removed on-Property impacts to soil above MTCA Method A cleanup levels to the extent practicable, and incidentally removed impacted groundwater at the Site as needed for construction (Aspect, 2023b). The IA was completed in January 2023 and the final Interim Action Report (IAR) was transmitted to Ecology on April 27, 2023, in accordance with the AO. Post-IA groundwater monitoring will be conducted to inform the evaluation of cleanup alternatives in the feasibility study (FS) process as described in WAC 173-340-350(8).

The IA soil performance monitoring and post-interim action groundwater monitoring results will be incorporated into an updated conceptual site model as part of the FS, and the updated conceptual site model will form the basis for preparing cleanup alternatives to be evaluated in the FS for selection of a final cleanup remedy for the Site.

This Executive Summary should only be used in the context of the full report.

1 Introduction

Aspect Consulting, a Geosyntec company (Aspect) prepared this Remedial Investigation (RI) report for the Texaco Strickland Site (the Site), located at 6808 196th Street Southwest in Lynnwood, Washington (the Property; Figure 1). The Site is defined as any area where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located (Washington Administrative Code [WAC] 173-340-200). The Site is identified in Ecology's cleanup site database as the Texaco Strickland Site¹, Cleanup Site ID 12541, Facility ID 27496218, and underground storage tank (UST) site ID 6802. The Jiffy Lube Store 2068 Site is also located at the Property, with the same Facility and UST IDs and Ecology Cleanup Site ID of 5805. The Property is recorded by the Snohomish County Tax Assessor as tax parcel #27042000200600.

Historical operations at the Property resulted in the release of petroleum hydrocarbons to the subsurface, impacting soil, groundwater, and soil gas on the Property, and contaminated groundwater has migrated off-Property.

Two potentially liable parties (PLPs), Strickland Real Estate Holdings, LLC (SREH) and Chevron Environmental Management Company (CEMC), entered into Agreed Order No. 14315 (the AO) with the Washington State Department of Ecology (Ecology) on August 28, 2018. On December 14, 2020, Ecology named Jiffy Lube International, Inc. (Jiffy Lube) as a third PLP for the Site. Jiffy Lube has not participated in any of the work discussed in this RI report.

1.1 Project Objectives

The purpose of this RI is to define the nature and extents of contamination at the Site. The report was prepared to comply with the requirements of the AO and to document that the RI meets the requirements of WAC 173-340-350(7). The RI report details the Site investigation activities to date, presents a conceptual site model, and proposes cleanup standards applicable to the Site.

This document was prepared in general accordance with the requirements of the Washington State Model Toxics Control Act (MTCA), which is the cleanup regulations adopted by Ecology in Chapter 173-340 of the WAC.

¹ The Site is also listed under the alternate site names of Aloha Café, Jiffy Lube 2068, Jiffy Lube Store 2068, Minit Lube 1102, Minut-Lube 1102, Quaker State Minit Lube 11 Lynwood, Quaker State Minit Lube Inc 11 Lynwood, Shell 6808, and Shell 6808 196th Lynwood.

2 Background

The following section provides general information, history, and use of the Property and adjacent properties, and discusses the geologic and hydrogeologic setting.

2.1 Property History and Description

The Property is zoned as commercial and identified by Snohomish County Parcel Number 27042000200600. Based on the construction date of the service station building, the Property was first developed in approximately 1959. A review of historical documents has established the following operational history for the Site (Conestoga-Rovers & Associates [CRA], 2011; Aspect, 2019; Aspect, 2020):

- **1959 to 1977 – Texaco-branded Service Station:** The property was initially developed with a Texaco-branded service station in 1959. Based on construction drawings, the service station consisted of two 4,000-gallon leaded gasoline USTs; one 6,000-gallon leaded gasoline UST; a single pump island with three pumps; associated product conveyance piping; an in-ground vehicle hoist; a 550-gallon used oil UST; and a 1,000-gallon heating oil UST.
- The historical Site features are shown on Figure 2. The three gasoline USTs were removed by 1977 (Aspect, 2020). The 550-gallon waste oil and 1,000-gallon heating oil USTs remained in place until the 2022 Interim Action excavation (Aspect, 2023b).
- **1977 to 2006 – Jiffy Lube/Equilon Lube Facilities:** In 1977, the property was converted to a lube facility, which operated continuously until approximately 2006. During this time, two additional USTs were installed on the property. According to Ecology’s UST database, a 500-gallon used oil UST and a 3,000-gallon motor oil UST were installed in June of 1982. In 1995, these two USTs were decommissioned: the 500-gallon used oil UST was closed in place, and the 3,000-gallon motor oil UST was removed (see following section).
- **2006 to 2018 – Aloha Café:** In 2006, the building was renovated into a restaurant, Aloha Café, which operated until 2018.
- **2018 to Present** – The property has been vacant since 2018 to allow for the remedial investigation activities and cleanup actions. In September 2022, the building was demolished as part of the Interim Action.

2.2 Adjacent Property Descriptions

A brief description of relevant historical and current uses of the surrounding properties is included below.

2.2.1 North – Upgradient 68th Center Property

A commercial strip mall is located to the north of the Property across 196th Street SW. This property (tax parcel 27041700307000) was historically occupied by a Shell-branded service station with confirmed releases of petroleum and impacts to soil and groundwater.

Shell is pursuing an opinion through the Washington State Pollution Liability Insurance Agency's (PLIA's) Technical Assistance Program (TAP).

2.2.2 East – Edmonds Community College Property

The parcel to the east of the Property (tax parcel 27042000103100), across 68th Ave West, is currently used as parking for Edmonds Community College. This parcel was previously occupied by an Exxon-branded service station, which had confirmed releases of petroleum hydrocarbons to soil and groundwater. A remedial excavation was conducted on the property in 2005, and a No Further Action (NFA) determination was issued by Ecology in 2007.

2.2.3 West – Strip Mall

The parcel to the west of the Property (tax parcel 27042000200800) is commercially occupied by a strip mall, where a dry cleaner (Slater's One Hour Cleaners) historically operated. According to city directory records, Slater's One Hour Cleaners operated from at least 1971 through at least 2013.

2.2.4 South – Chri-Mar Apartments

The parcels to the south of the Property (tax parcels 27042000201000 and 27042000200900) are occupied by a multi-family residential apartment building owned by FWAK, LLC and operated as Chri-Mar Apartments. Chlorinated solvents in soil, groundwater, and soil gas were documented on this property as part of environmental characterization work performed by Environmental Associates, Inc. (EA) on behalf of that property owner (EA, 2016a and 2018). Petroleum hydrocarbons were not detected in soil or groundwater at this property during the EA work in 2016 and 2018; however, benzene was detected in soil gas, indoor air, and outdoor air as part of the work performed by EA (EA, 2016a and 2018).

2.3 Geologic and Hydrogeologic Setting

Site geology generally consists of imported fill to depths up to 10 feet below ground surface (bgs) and Vashon till extending to the maximum depth explored at the Site of 40.5 feet bgs. The imported fill extends to depths of approximately 4 to 10 feet bgs and was encountered in all soil borings at the Site as part of historical and current RI site investigation activities (Sections 3 and 4, respectively). Fill material at the Site is comprised of sand with gravel and sand with silt and gravel. The sand content varied from poor- to well-graded, and the sand and gravel were subangular to subrounded. The fill was generally loose, and the fines (where present) were low plasticity.

Beneath the fill, Vashon till was encountered in all soil borings at the Site as part of historical and current RI site investigation activities (Sections 3 and 4, respectively), which is consistent with the US Geological Survey (USGS) mapped geologic unit of the area (USGS, 1983). The till encountered during subsurface explorations had a variable composition and included silt (MH); sandy silt with gravel (ML); silty sand and silty sand with gravel (SM); sand with silt and sand with silt and gravel (SW/SP-SM); and sand with gravel (SP). The density of the till was consistent across the Site, ranging from medium dense at the fill-till interface and increasing in density to very dense within a few feet below the interface. The top few feet of till appears to have been weathered in place prior

to being buried under fill material during redevelopment of the area in the early 20th century.

The majority of the subsurface explorations conducted during both historical and current RI site investigations were completed using a hollow-stem auger drilling rig, and geotechnical information was collected for nearly all borings. Based on the observed blow counts, the weathered, medium dense top of till varied in thickness between 2.5 and 15 feet. The underlying unweathered till is differentiated based on the blow counts and inferred density during drilling. Boring logs from the RI conducted by Aspect are included as Appendix A.

Groundwater is present at the Site in a surficial, unconfined, and potentially perched aquifer and is encountered at depths ranging from 7 to 16 feet bgs at the interface of the imported fill and Vashon till. The horizontal hydraulic gradient is steep (0.05 foot/foot). Groundwater flow at the Site and adjacent properties is generally to the southwest, with some minor seasonal variation.

3 Prior Investigation and Cleanup History

The following section describes the investigation and cleanup activities at the Site conducted by others prior to the AO. The investigation activities were compiled in the RI Work Plan (RIWP; Aspect, 2019) and RIWP Addendum (Aspect, 2020).

3.1 Underground Storage Tank Removals and Closures

At least seven USTs have been installed and operated on the Property. Four of the USTs had been removed by 1995; one was closed in place; and two were confirmed to be present at the Property by a geophysical survey in 2019 (Section 4.1.1). Three USTs were permanently decommissioned and removed from the Property (including the one closed in place) during the 2022 Interim Action (Aspect, 2023b). A description of installation date, decommissioning date and method, and tank operator is included below and summarized in Table A below.

3.1.1 1977 UST Closure

The three gasoline USTs associated with the Texaco-branded service station were decommissioned (removed) in 1977 when the Property was converted to a Jiffy Lube/Equilon lube oil facility (Aspect, 2020). Based on the building plans for the original service station, these USTs were located in the northeastern corner of the Property, and the dispenser islands were located in the north-central portion of the Property (Figure 2). Decommissioning details are not available; however, a Snohomish County tax assessor indicates the tanks were indeed removed in 1977 (Aspect, 2020).

3.1.2 1995 UST Closure

Petroleum-impacted soil related to the former Jiffy Lube/Equilon lube oil facility was discovered in 1995 during removal of a 3,000-gallon new oil UST and closure-in-place of a 500-gallon waste oil UST (Figure 2). The 3,000-gallon new oil UST was located on the west side of the building, and the 500-gallon waste oil UST was located inside the former building. Nowicki & Associates (Nowicki) oversaw the removal of approximately 65 tons of soil impacted with total petroleum hydrocarbons as oil (TPHo) above the MTCA Method A cleanup level from the area of the former 3,000-gallon new oil UST (Nowicki, 1995). Post-excavation sidewall and bottom samples collected by Nowicki concluded that soils impacted by TPHo exceeding the MTCA Method A cleanup levels had been removed.

The 500-gallon waste oil UST located beneath the building was decommissioned by cleaning and slurry filling. A soil boring was advanced approximately 4 feet south of the tank (location SB, Figure 2), and samples were analyzed for TPHo and TPH as gasoline (TPHg). Both TPHo and TPHg were detected at concentrations exceeding MTCA Method A cleanup levels at depths of 1.3 and 2 feet bgs.

The releases were reported to Ecology in 1995. The Site was subsequently listed with Ecology's leaking underground storage tank (LUST) program, as Site ID #6802.

3.1.3 UST Inventory Summary

A summary of all known USTs at the Site is included below as Table A. Further discussion of the UST inventory at the Property is included in Section 4.1.1 below.

Table A. UST Summary

UST	Contents	Installation Date	Decommissioning Date and Method	Tank Operator
4,000-gallon	Gasoline	1959	1977 – Removed	Texaco
4,000-gallon	Gasoline	1959	1977 – Removed	Texaco
6,000-gallon	Gasoline	1959	1977 – Removed	Texaco
3,000-gallon	New Oil	1982	1995 – Removed	Jiffy Lube/Equilon
500-gallon	Waste oil	1982	2022 – Removed	Jiffy Lube/Equilon
500-gallon ^(a)	Heating Oil	Unknown	2022-Removed	Jiffy Lube/Equilon
500-gallon ^(b)	Unknown	Unknown	2022-Removed	Unknown

Notes:

- (a) The installation date of the 500- gallon heating oil UST cannot be confirmed but was reported to be 1989 (CRA, 2011). However, station construction diagrams show it was likely installed along with the station in the 1950s.
- (b) This unknown UST was identified on the north side of the building during the geophysical survey. Station construction diagrams indicate this was likely used as a waste oil storage tank.

3.2 Historical On-Property Environmental Investigations

Environmental investigations were completed by others at the Property between 1995 and 2012:

- Nowicki, 1995 – Nowicki advanced two soil borings (SB1 and SB2) to the north of the existing building.
- FINEEnvironmental, Inc. (FINE), 2003 – FINE completed a Phase I Environmental Site Assessment (ESA) that identified the Property had operated as a Texaco-branded gasoline service station prior to 1977.
- GeoEngineers, Inc. (GeoEngineers), 2004 – GeoEngineers completed a Phase I ESA that resulted in similar findings to the Phase I conducted by FINE.
- Cambria Environmental Technology (Cambria), 2006 – Cambria installed five monitoring wells (MW-1 through MW-5) and advanced one soil boring (SB-1) at the Property.
- Conestoga-Rovers & Associates, Inc. (CRA), 2007 – CRA installed five monitoring wells (MW-6 through MW-10) on the Property.
- CRA, 2011 – CRA advanced two soil borings (SB-3 and SB-4) and summarized Site characterization data collected to date.
- CRA, 2014 – CRA advanced three additional soil borings (SB-5 through SB-7).

A complete summary of historical environmental investigations completed at the Site served as the primary basis of the data gaps identified in the RIWP (Aspect, 2019).

3.3 Off-Property Environmental Investigations

In February 2016, EA conducted a limited subsurface investigation at the adjacent property to the south at Chri-Mar Apartments as a preliminary assessment of the potential for chlorinated solvent and petroleum hydrocarbons in the subsurface from upgradient properties (EA, 2016a). EA advanced five borings, B-01 through B-05 during the investigation:

- No TPHg, TPH as diesel (TPHd), TPHo, or benzene, toluene, ethylbenzene, and total xylenes (BTEX) compounds were detected in soil or groundwater at the five boring locations (B-1 through B-5, Figure 2). Grab soil gas samples were collected from borings B-1 and B-3, and concentrations of benzene exceeded the MTCA Method B subslab soil gas screening level at both locations (EA, 2016a).
- Tetrachloroethene (PCE) was detected in soil above the MTCA Method A cleanup level in borings B-2 and B-3. Likewise, PCE was detected in groundwater above the MTCA Method A cleanup level in a grab sample collected from boring B-2. PCE and trichloroethene (TCE) were detected in groundwater above their MTCA Method A cleanup levels in a grab sample collected from boring B-3. Soil gas samples were also collected from B-01 and B-03 using a temporary screen set between 2 and 5 feet bgs, and concentrations of TCE exceeded the MTCA Method B subslab soil gas screening level at B-3 (EA, 2016a).

In March 2016, EA returned to the Chri-Mar Apartments property to conduct indoor and outdoor air sampling (EA, 2016b). Two indoor air samples were collected from the interior of the Chri-Mar Apartments, and one outdoor air sample was collected. Samples were collected over a 24-hour period.

- Benzene was detected in both indoor air samples and the outdoor air sample at concentrations exceeding the MTCA Method B indoor air cleanup level (EA, 2016b). The benzene concentrations in the outdoor air sample indicate a background source to indoor air in this suburban area.
- PCE was detected in both indoor air samples and the outdoor air sample at concentrations less than the MTCA Method B indoor air cleanup level. TCE was detected in one of the two indoor air samples at a concentration less than the MTCA Method B indoor air cleanup level.

In September 2018, EA returned to the Chri-Mar Apartments property to conduct additional subsurface investigation to characterize the extents of chlorinated solvent-impacted soil and groundwater previously documented at that property (EA, 2018). EA

installed four monitoring wells (CMW-1 through CMW-4²) and three additional soil borings (B-6 through B-8).

EA only analyzed for chlorinated solvents and not petroleum hydrocarbon compounds. PCE was detected in soil at a concentration exceeding the MTCA Method A cleanup level at CMW-1. Groundwater was only encountered at monitoring wells CMW-1 and CMW-4 (CMW-2 and CMW-3 remained dry after installation), and in a temporary well screen set in boring B-7. In groundwater, PCE and TCE were detected at concentrations exceeding their respective MTCA Method A cleanup levels at CMW-1. PCE and TCE were not detected in groundwater samples collected from B-7 and CMW-4 (EA, 2018).

² EA named the monitoring wells MW-1 through MW-4, but they are labeled as CMW-1 through CMW-4 throughout this report to differentiate them from MW-1 through MW-4 installed on the Property by Cambria in 2006.

4 Agreed Order Remedial Investigation

This RI defines the nature and extent of petroleum impacts in soil, groundwater, and vapor at the Site. As part of the AO, the historical environmental investigations in Section 3 were reviewed and evaluated for data gaps related to the nature and extent of contamination at the Site. Based on that review, nine data gaps were identified:

1. **Potential presence of pre-1977 underground service station infrastructure.** Further evaluation was needed to assess infrastructure, including both piping and USTs, that were still present at the Property.
2. **Lateral extent of Site soil impacts.** Further evaluation was needed in specific areas to complete the Site characterization and evaluate remedial options.
3. **Potential comingling of separate petroleum releases to the Subject Property.** Further evaluation was needed in specific areas to assess potential comingling of the documented TPHo and TPHg releases.
4. **Vertical extent of Site soil impacts.** While the majority of locations were vertically delineated with regards to petroleum impacts to soil, some locations in the north-central portion of the Site lacked vertical delineation where soil samples were only collected to a maximum depth of 17.5 feet bgs.
5. **Lateral extent of Site groundwater impacts.** Further evaluation of crossgradient and downgradient water quality was needed to complete the Site characterization and evaluate remedial options.
6. **Potential upgradient sources.** Further evaluation of upgradient soil and water quality was needed to complete the Site characterization.
7. **Potential comingling with off-Property chlorinated solvent releases.** Further evaluation was needed to assess whether release(s) of chlorinated solvents or other petroleum-based cleaners from the adjacent Slater's One Hours Cleaners are comingled with releases of petroleum hydrocarbons from the Site.
8. **Light Nonaqueous Phase Liquid (LNAPL) assessment/recoverability.** LNAPL had been documented in select Property monitoring wells by historical environmental investigations. The delineation of the LNAPL accumulation was incomplete, and LNAPL recovery options have not been evaluated. LNAPL recoverability testing was needed, and practical LNAPL recovery efforts implemented.
9. **Soil vapor migration/intrusion.** The potential for migration of petroleum-related soil vapor into on- and off-property structures required further evaluation.

The RI has been conducted in an iterative process to close the identified data gaps related to the nature and extent of contamination at the Site.

The scope and rationale for the RI activities conducted to date are provided in the following documents:

- RIWP (Aspect, 2019)
- RIWP Addendum (Aspect, 2020)
- Progress Report No. 9 (Aspect, 2021a)
- Vapor Intrusion Assessment Report (Aspect, 2022a)

These documents form the basis for the RI and should be referenced in conjunction with this report. A summary of field investigations and results is provided in the following sections.

4.1 2019 RIWP Implementation

The following subsections document the activities conducted during implementation of the RIWP. All work was conducted in accordance with the Sampling and Analysis Plan / Quality Assurance Project Plan (SAP/QAPP), which was included as Appendix E of the RIWP (Aspect, 2019).

4.1.1 Geophysical Survey

Aspect subcontracted Philip Duoos to conduct electromagnetic and ground penetrating radar (GPR) geophysical surveys at the Property. The purpose of these surveys was to evaluate the potential presence of any remaining subsurface service station infrastructure, including potential USTs and product/vent lines. The geophysical survey was completed on June 3, 2019.

The geophysical survey noted that a large excavation was present in the northeast portion of the Property where station construction drawings indicated the three gasoline USTs were located. The results of the geophysical survey confirmed that the three gasoline USTs were removed from the Property.

Two probable concrete slabs were encountered in the north central portion of the Property, at the location of the former pump islands. Numerous probable pipes were encountered extending from the excavation extents to the concrete slabs, indicating that product conveyance piping still exists. The depths of these probable pipes ranged from approximately 2.5 to 4 feet bgs.

What appeared to be an unknown UST was also detected on the north side of the existing building. The unknown UST was located at approximately 3.2 feet bgs. Another UST was detected at the southeast corner of the existing building and was assumed to be the 500-gallon heating oil UST based on the station construction diagrams.

A summary of all former USTs at the Site is included in Table A in Section 3.1.3. The geophysical survey report is included as Appendix B. The results of the geophysical survey were evaluated prior to mobilizing for other RIWP activities.

4.1.2 Soil Borings

In June and July 2019, a total of 13 soil borings (B-05 through B-08 and MW-11 through MW-19) were completed as part of the RIWP implementation by Holt Services, Inc.

(Holt) of Edgewood, Washington, under the supervision of Aspect. An attempt was made to complete the soil borings using direct-push equipment, but the direct-push drill rig met refusal shortly after encountering the glacial till. This attempted boring was identified as AB-01 and was subsequently replaced by boring B-06, which achieved the depth targeted in the RIWP (25 feet bgs). Therefore, soil borings throughout the RI were completed using a hollow-stem auger drill rig. As part of the initial RIWP implementation, soil samples were collected at 2.5-foot intervals. Soil samples were preserved in accordance with U.S. Environmental Protection Agency (EPA) Method 5035A and were field screened using visual, olfactory, water sheen, and volatile headspace (using photoionization detector [PID]) methods.

At boring locations where field-screening indicated potential petroleum hydrocarbon impacts, up to four soil samples were submitted for laboratory analysis of chemicals of potential concern (COPCs) identified in the RIWP: TPHg, TPHd, TPHo, BTEX, 1,2-dibromomethane (EDB), 1,2-dichloroethane (EDC), methyl tert-butyl ether (MTBE), naphthalene, and lead. Carcinogenic polycyclic aromatic hydrocarbons (cPAHs) and polychlorinated biphenyls (PCBs) are not considered Site COPCs based on analytical testing performed by Cambria (CRA, 2011).

One sample was submitted from the soil-groundwater interface at locations with no field-screening indication of impacts. Soils were logged under the direction of a Washington State licensed geologist in accordance with the Unified Soil Classification System. Soil boring logs are included as Appendix A.

4.1.3 Monitoring Well Installation and Groundwater Sampling

As part of the same investigation in June and July 2019, monitoring wells were installed in 9 of the 13 soil borings and were completed as MW-11 through MW-19 (Figure 2). Monitoring wells were constructed in accordance with WAC 173-160 by Holt. Monitoring wells were constructed using 2-inch-diameter, Schedule 40 PVC blank casing and 0.010-inch slot well screens. The monitoring wells were screened from 5 to 20 feet bgs at each location to accommodate seasonal fluctuations of groundwater. Monitoring wells were completed with protective seals and secured with locking well caps and were surveyed by PLS, Inc. of Issaquah, Washington, for horizontal locations and elevations. As-built diagrams of the monitoring wells are included in Appendix A.

Following installation, each monitoring well was developed to remove fine-grained material from inside the well casing and filter pack and to improve hydraulic communication between the well screen and surrounding water-bearing formation. The monitoring wells were developed using a 12-volt submersible pump, which was surged along the entire length of the well screen. Up to 25 casing volumes were removed from each monitoring well over two development events in June and July 2019.

Two initial rounds of groundwater sampling were performed at the Site in August and November 2019.

4.1.4 Soil Gas Probe Installation

In June 2019, Aspect oversaw the installation of four soil gas probes (GP-01 through GP-04) at the Property. The gas probes were installed by Holt using a direct-push drill rig. The

soil gas probes consisted of 6-inch-long stainless-steel vapor screens and quarter-inch Teflon tubing. GP-01, GP-02, and GP-03 were installed on the south side of the Property, and GP-04 was installed on the west side of the Property. The gas probes were screened from 5 to 5.5 feet bgs, and as-built diagrams are included in Appendix A. In July 2019, Aspect installed two subslab soil vapor pins through the concrete floor slab inside the building on the Property. The vapor pins and soil gas probes were sealed, tested, and sampled in accordance with Appendix E of the RIWP in July 2019 (Aspect, 2019). No evidence of atmospheric dilution was detected in any of the soil gas samples and results are, therefore, considered representative of subsurface conditions.

4.1.5 LNAPL Transmissivity Testing

Gasoline-range LNAPL occurs in existing monitoring wells MW-3, MW-4, MW-5, and MW-8 (CRA, 2011; Figure 2). LNAPL transmissivity testing began with gauging of the Site monitoring wells where LNAPL was present. A new monitoring well, MW-15 (installed in June 2019), was allowed to equilibrate for nearly two months prior to commencing LNAPL gauging. LNAPL had not been removed from existing monitoring wells for greater than two years prior. Therefore, LNAPL was evacuated from monitoring wells MW-5 and MW-8 in accordance with ASTM International Standard E2856-13 (ASTM, 2018) prior to conducting a transmissivity test.

The initial evacuation was conducted in August 2019; approximately 2 liters of LNAPL was removed from MW-5, and 1 liter of LNAPL was removed from MW-8. After the initial evacuation, only MW-8 recovered to an equilibrium condition, and LNAPL transmissivity testing was started in September 2019. LNAPL thicknesses across the Site began to decrease in late September due to rising groundwater levels, and the LNAPL transmissivity test was suspended in October 2019.

4.2 2020 RIWP Addendum Implementation

After evaluating the data collected as part of the RIWP implementation in 2019, several data gaps were closed. An RIWP Addendum (Aspect, 2020) was prepared, which documented the results of the 2019 RIWP implementation and identified outstanding data gaps:

1. Extents of soil exceedances to the southeast and northwest
2. Lateral extents of groundwater exceedances in the up-, down-, and crossgradient directions
3. Verify Site soil gas impacts and evaluate potential for vapor intrusion in buildings on neighboring properties
4. Extent of LNAPL downgradient
5. Potential comingling of separate petroleum releases to the Property in groundwater and potential comingling from upgradient releases of petroleum hydrocarbons

The scope of work proposed to address these data gaps is detailed in the RIWP Addendum. The RIWP Addendum implementation commenced in August 2020; all activities were conducted in accordance with the SAP/QAPP for the project (Appendix E of the RIWP; Aspect, 2019).

4.2.1 Soil Borings

In July and August 2020, an additional 13 unique soil borings (B-09 through B-12 and MW-20 through MW-28) were completed as part of the RIWP Addendum implementation by Holt under the supervision of Aspect, using a combination of direct-push and hollow-stem auger drilling methods. Only borings B-09 and B-12 were completed using a direct push drill rig due to the access constraints of drilling inside the existing building. The remaining 11 borings were completed using hollow-stem auger drilling methods and soil samples were collected at 2.5-foot intervals. Additional step out borings were conducted at MW-21 and MW-22 (labeled MW-21A, MW-22A, and MW-22B) due to limited recovery of shallow soil (Appendix A). Soil samples were preserved in accordance with EPA Method 5035A and were field screened using visual, olfactory, water sheen, and volatile headspace (using PID) methods.

At boring locations where field-screening indicated potential petroleum hydrocarbon impacts, up to three soil samples were submitted for laboratory analysis of COPCs. COPCs identified in the RIWP Addendum: TPHg, TPHd, TPHo, BTEX, and naphthalene. One soil sample was submitted for laboratory analysis from the soil-groundwater interface at locations with no field-screening indication of impacts. Soils were logged under the direction of a Washington State licensed geologist in accordance with the Unified Soil Classification System. Soil boring logs are included as Appendix A.

Soil investigation results are presented in Section 4.4.1. More details regarding the rationale and scope of the soil investigations are documented in the RIWP Addendum (Aspect, 2020).

4.2.2 Monitoring Well Installation and Groundwater Sampling

Monitoring wells were installed in 9 of the 13 soil borings and were completed as MW-20 through MW-28 (Figure 2). Monitoring wells were constructed in accordance with WAC 173-160 by Holt, using 2-inch-diameter, Schedule 40 PVC blank casing and 0.010-inch slot well screens. The monitoring wells were screened from 5 to 20 feet bgs at each location, with the exception of MW-28, which was screened from 19 to 34 feet bgs, to accommodate seasonal fluctuations of groundwater. Monitoring wells were completed with appropriate protective seals and secured with locking well caps. The newly installed monitoring wells were surveyed by PLS, Inc. of Issaquah, Washington, for horizontal locations and vertical elevations. As-built diagrams of the monitoring wells are included in the boring logs in Appendix A.

Following installation, each monitoring well was developed to remove fine-grained material from inside the monitoring well casing and filter pack and to improve hydraulic communication between the monitoring well screen and surrounding water-bearing formation. The monitoring wells were developed using a 12-volt submersible pump, which was surged along the entire length of the well screen. Up to 22 casing volumes were removed from each monitoring well over two development events.

Two rounds of groundwater sampling were performed at the Site in August and November 2020.

4.2.3 Soil Gas Probe Sampling

To confirm the results of the RIWP soil vapor sampling, another round of soil vapor samples was collected from the four gas probes and two subslab soil vapor pins located inside the building in August 2020. The six locations included SVS-01, SVS-02, and GP-01 through GP-04 were sampled in accordance with the procedures presented in the RIWP (Aspect, 2019) and submitted to Friedman & Bruya, Inc. for analysis of the following:

- BTEX and naphthalene by EPA Method TO-15
- Aliphatic and aromatic hydrocarbons by Massachusetts Department of Environmental Protection Method (MDEP) Method for Air-Phase Hydrocarbons (APH)
- Helium by ASTM D-1946
- Carbon dioxide, methane, and oxygen by EPA Method 3C

In accordance with the RIWP Sampling and Analysis Plan (SAP), the leak testing results indicate the sample results are representative of soil gas concentrations (Aspect, 2019). Soil gas sampling results are presented in Section 4.4.3.

4.3 2020 – 2023 Vapor Intrusion Assessments

Between July 2020 through February 2023, multiple VI assessment events were performed at the Chri-Mar Apartments. Detailed discussion of each sampling event is provided below.

4.3.1 July and August 2020 Soil Gas Probe Sampling

The highest calculated TPH³ concentration occurred at soil gas probe GP-03 during both sampling events in July and August 2020 at concentrations of 18,449 and 15,947 micrograms per cubic meter (ug/m³), respectively. The exceedance of the applicable MTCA Method B soil gas screening level (1,500 ug/ m³) at GP-03 was outside the lateral extents of soil and groundwater impacts at the Site. The PLPs and Ecology considered two potential reasons for this exceedance: a nearby utility corridor acting as a preferential vapor flow path or a potential secondary source near GP-03.

4.3.2 November 2020 Additional Soil Gas Probe Installation

To assess the potential for the utility corridor to act as a preferential flow path, the PLPs and Ecology agreed to install two additional soil gas probes: GP-05 and GP-06 (Figure 2). The two new soil gas probes were installed in November 2020.

4.3.3 November 2020 and December 2021 Soil Gas Probe Sampling

The two new soil gas probes (GP-05 and GP-06), along with GP-02 and GP-03, were sampled in November 2020 and December 2021. Soil gas probe GP-05 could not be sampled as the screen was submerged due to the seasonally high groundwater elevation.

³ The concentration for TPH was calculated as the sum of aliphatic hydrocarbons, aromatic hydrocarbons, and gas-range VOCs in accordance with Ecology guidance (2022). For analytes which were not detected, one-half the reporting limit was used in the TPH calculation.

The four locations were sampled in accordance with the procedures presented in the RIWP (Aspect, 2019) and submitted to Friedman & Bruya, Inc. for analysis of the following:

- BTEX and naphthalene by EPA Method TO-15
- Aliphatic and aromatic hydrocarbons by MDEP Method APH
- Helium by ASTM D-1946
- Carbon dioxide, methane, and oxygen by EPA Method 3C

In accordance with the RIWP SAP, the leak testing results indicate the sample results are representative of soil gas concentrations (Aspect, 2019). Soil gas sampling results are presented in Section 4.4.3.

4.3.4 July 2021 Chri-Mar Apartments Crawlspace Air Sampling

Based on the results of the November 2020 soil gas sampling event, the extent of soil gas remained undefined. To address the soil gas extents data gap, Aspect performed a Tier II assessment per Ecology guidance to further evaluate the potential for vapor intrusion in the Chri-Mar Apartments building. These results were reported to Ecology in the Vapor Intrusion Assessment Results and Recommendations Memorandum, dated October 14, 2021 (Aspect, 2021c), and summarized below. The soil gas sampling results are presented in Section 4.4.3.

4.3.4.1 Building Reconnaissance

A reconnaissance of the Chri-Mar Apartments building was performed in June 2021 to assess building characteristics such as the foundation construction, presence of a crawlspace, potential preferential flow paths from utility corridors, and heating/cooling systems.

Subslab soil gas sampling was not feasible because of the building construction design (i.e., there was no slab on grade). Therefore, crawlspace air sampling underneath the Chri-Mar Apartments building was performed in lieu of subslab soil gas sampling.

4.3.4.2 Crawlspace Air and Soil Gas Sampling Methodology

In July 2021, crawlspace air samples were collected in the center of the Chri-Mar Apartments building at two locations, IA-1 and IA-2, Figure 06. These locations underneath the building were chosen relative to the soil gas probe locations at the Property line where soil gas concentrations had historically exceeded the MTCA Method B subslab soil gas screening levels.

The intake for the Teflon-coated sample tubing was placed near the center of the Chri-Mar Apartments building and routed to each sample canister, which was staged outside the crawlspace. In addition, an ambient background air sample was collected upwind of the crawlspace, to the northwest side of the Chri-Mar Apartments building (BA-1; Figure 06).

Time-integrated samples were collected over the course of a day using 6-liter (L) canisters prepared under negative pressure and lab-certified clean for volatile organic compounds (VOCs). The canisters were equipped with dedicated flow regulators set at a

fill rate set for an approximate 8-hour sampling event. Sampling concluded when each canister reached a final vacuum of 5 inches of mercury. During the sampling period, the barometric pressure fell from approximately 30.17 inches of mercury to 30.10 inches of mercury. Wind was light and varied in direction from northeast to northwest.

Soil gas samples were collected from gas probes near the property line (GP-02, GP-03, GP-05, and GP-06) concurrently with crawlspace air sampling.

4.3.5 December 2021 Through February 2023 Vapor Intrusion Assessment

Based on the results of July 2021 crawlspace air sampling, additional investigation of the potential vapor intrusion exposure pathway within residential spaces in the Chri-Mar Apartments building was required to complete the Tier II vapor intrusion assessment. The following section details the Tier II vapor intrusion assessment, consisting of sampling events in December 2021, November 2022, January 2023, and February 2023. The approach and scope of work was detailed in the Vapor Intrusion Assessment Results and Recommendations Memorandum (VIARRM, Aspect, 2021c) and the sampling results are presented in Section 4.4.3. All sample locations from the vapor intrusion sampling events are shown on Figure 7.

Crawlspace air samples beneath each unit were obtained concurrently with indoor air samples, except for Unit #131 during the December 2021 sampling event. While placing tubing for the crawlspace air samples during the December 2021 sampling event, multiple raccoons were observed in the crawlspace, and tubing could not be placed at the final location due to health and safety concerns regarding the presence of wildlife in the crawlspace. For all other events, the crawlspace air samples collected beneath Units #125, #127, #129, and #131 the tubing intake was placed at approximately the mid-height of the crawlspace, and the tubing intake was placed where the plumbing penetrations entered the bathroom for each of the three units.

The tubing intake for each ambient air sample was set an approximate height of 6 feet above the ground surface. Two ambient air samples were collected during each sampling event:

- AMB-1 was collected on the north side of the Chri-Mar Apartments building; and
- AMB-2 was collected to the southwest of the Chri-Mar Apartments building.

Prior to deploying indoor air sampling equipment in each unit, the common household cleaners observed during the building reconnaissance visit were placed into a tote and removed from the building. It was noted that the tenants of Unit #131 actively smoke tobacco products within the unit.

In Units #125, #127, and #129, two indoor air samples were collected— one in the living area as the commonly occupied space of each unit and one in each bathroom to assess any potential preferential pathways resulting from the configuration of the bathroom exhaust fans. In Unit #131, where no ground floor bathroom is present, a second sample was collected in the living area as a field duplicate.

4.3.5.1 Building Reconnaissance

Aspect conducted additional reconnaissance on December 1, 2021, and July 20, 2022. During the building reconnaissance visit, Aspect entered each of the four ground-floor residential units⁴ in the Chri-Mar Apartments. Common household cleaners were observed in each of the residential units, and it was noted that the tenants in Unit #131 actively smoke tobacco products within the unit. The ground level floorplan is shown on Figure 6. General building characteristics and unit-specific characteristics are described in detail in the Vapor Intrusion Assessment Report (Aspect, 2022a).

4.3.5.2 Ambient, Crawlspace, and Indoor Air Sampling

For all events ambient, crawlspace, and indoor air samples were collected over a time-integrated 24-hour period. Air samples were collected using 6-L cannisters prepared under negative pressure and lab-certified clean for VOCs. The cannisters were equipped with dedicated flow regulators set at a fill rate set for an approximate 24-hour sampling event. During the sampling period, the vacuum in the cannister was monitored to ensure that the flow regulator was functioning properly.

December 2021

Ambient air, crawlspace, and indoor air samples were collected concurrently over a time-integrated 24-hour period on December 15th and 16th, 2021. The vacuum in each cannister prior to commencement of the sampling event varied between 28 to greater than 30 inches of mercury. During the sampling period, the vacuum in the cannister was monitored to ensure that the flow regulator was functioning properly. The final vacuum at the end of sampling varied between 6 and 9.5 inches of mercury in each canister and is considered acceptable.

During the sampling period, the barometric pressure, as measured onsite using a GEM-5000 multi-gas meter, increased from 29.24 inches of mercury to 29.32 inches of mercury. Based on weather data from a local meteorological station, the outside temperature varied between 37 and 43 degrees Fahrenheit and relative humidity varied between 66 and 92 percent. The wind speed was calm with a speed between 5 and 10 miles per hour, and wind direction varied from north-northeast to east.

November 2022

A second indoor air sampling event was conducted to assess potential seasonality and variability of the December 2021 VI assessment results (Aspect, 2022a). The second event was postponed in summer 2022 due to extreme heat and the building units opening windows and having fans on, thus creating abnormal building ventilation conditions (Aspect, 2022b). The second event was conducted in November 2022 once the IA remedial excavation on the Property was complete.

Ambient, crawlspace, and indoor air samples were collected over a time-integrated 24-hour period on November 16 and November 17, 2022. The initial vacuum in each cannister

⁴ The units are referred to by their addresses, which from west to east are Units #125, #127, #129, and #131.

varied between 29 to greater than 30 inches of mercury. The final vacuum varied between 2 and 8 inches of mercury, which is considered acceptable.

During the sampling period, the barometric pressure, as measured onsite using a GEM-5000 multigas meter, decreased from 30.56 inches of mercury to 30.48 inches of mercury. Based on weather data from a local meteorological station, the outside temperature varied between 36 and 48 degrees and relative humidity varied between 50 and 100 percent. The wind was calm with a wind speed between 0 and 11.5 miles per hour and wind direction which varied from north-northeast to east.

January 2023

The results of the November 2022 sampling event indicated that there were indoor air exceedances (discussed in Section 4.4.3), which was communicated to Ecology on December 13, 2022 (Myers, 2022). Ecology recommended that an active ventilation system be installed in the crawlspace of the building because of the uncertainty associated with the recent results and the concentrations of TPH measured in the crawlspace. A pre-ventilation installation sampling event was conducted in January 2023. Ambient, crawlspace, and indoor air samples were collected over a time-integrated 24-hour period beginning on January 9, 2023, and ending on January 10, 2023. The vacuum in each cannister prior to commencement of the sampling event was noted and varied between 28 to greater than 30 inches of mercury. The final vacuum at the end of sampling varied between 2 and 8 inches of mercury in each canister.

During the sampling period, the barometric pressure increased from 28.94 inches of mercury to 29.18 inches of mercury. Based on weather data from a local meteorological station, the outside temperature varied between 41 and 54 degrees Fahrenheit and relative humidity varied between 52 and 78 percent. The wind was calm with a speed between 2 and 12 miles per hour, and wind direction varied from east to north.

February 2022

After the January 2023 sampling event, a crawlspace ventilation system was installed, and active crawlspace ventilation commenced in accordance with the Ecology-approved Ventilation Work Plan (Aspect, 2023a). A post-ventilation installation sampling event was conducted on February 22, 2023, approximately a month after the crawlspace ventilation system was started. Ambient, crawlspace, and indoor air samples were collected over a time-integrated 24-hour period beginning on February 22, 2023, and ending on February 23, 2023.

The vacuum in each cannister prior to commencement of the sampling event was noted and varied between 28 to greater than 30 inches of mercury. The final vacuum at the end of sampling varied between 3 and 9 inches of mercury in each canister.

During the sampling period, the barometric pressure increased from 29.80 inches of mercury to 29.02 inches of mercury. Based on weather data from a local meteorological station, the outside temperature varied between 28 and 37 degrees Fahrenheit and relative humidity varied between 45 and 84 percent. The wind was calm with a speed between 6 and 12 miles per hour, and wind direction varied from north to east.

4.4 Remedial Investigation Results

A comprehensive review of sampling and analytical results is provided below. In addition, the Site geology and hydrogeology is presented as an important basis of interpreting the RI results. Laboratory analytical reports for data collected by Aspect are provided in Appendix C.

4.4.1 Soil Results

This section presents the interpretation of the Site geology, soil analytical results, and the extents of Site soil contamination. The COPCs detected above the MTCA Method A cleanup levels in soil are TPHg, TPHd, TPHo, BTEX, and naphthalene.

4.4.1.1 Geologic Interpretation

The subsurface explorations conducted at the Site as part of the AO RI in 2019 and 2020 confirmed the geologic conditions presented in historical environmental reports. At the Site, subsurface soil generally consists of imported fill soil to approximately 4 to 10 feet bgs overlying a weathered glacial till deposit unit (Vashon till), which is consistent with the mapped geologic unit of the area (USGS, 1983). Within a few feet of the fill-till interface, the till gradually transitions to unweathered till. The density of the till was consistent across the Site, ranging from medium dense at the fill-till interface and increasing in density to very dense within a few feet below the interface. The underlying unweathered till is differentiated from the weathered till based on the blow counts and inferred density during drilling. Boring logs from the RI conducted by Aspect are included as Appendix A.

4.4.1.2 Soil Analytical Results

As part of the AO RI, a total of 52 unique soil samples (not including quality control samples) were submitted to Friedman & Bruya, Inc., a state-certified laboratory, for chemical analysis of the following COPCs:

- TPHg by Ecology Method NWTPH-Gx
- TPHd and TPHo by Ecology Method NWTPH-Dx
- BTEX and naphthalene by EPA Method 8260C

In addition, select soil samples were analyzed for the following Site COPCs:

- 8 of the 52 samples were analyzed for EDB, EDC, and MTBE by EPA Method 8260C.
- 4 of the 52 samples were analyzed for lead by EPA Method 6010C at locations where TPHg concentrations were elevated.

A limited number of soil samples were submitted for analysis of chlorinated solvents (which are not Site COPCs) to assess the potential for comingling with releases from other Sites on neighboring properties.

- 6 of the 52 samples were analyzed for chlorinated volatile organic compounds (cVOCs) by EPA Method 8260C from locations along the western Property boundary.

Soil analytical results, including the historical results of investigations conducted by others, are summarized in Table 1 and presented on Figures 3 and 4. Based on the analytical data, TPHg, TPHd, TPHo, BTEX, and naphthalene were detected above their respective MTCA Method A cleanup levels, and these analytes comprise the contaminants of concern (COCs) in soil at the Site. Table B below summarizes the locations and depths that contained one or more COCs at concentrations greater than their respective MTCA Method A cleanup level. Cumulative soil analytical results are included in Table 1 and shown on Figure 3.

Table B. Soil Exceedances of MTCA Method A Cleanup Levels

Historical Results		
Location	Depth(s) – feet bgs	COC(s)
SB	1.33	TPHo
SB1	12.5	TPHg, BTEX
SB1-CAM	7.5	Benzene
	12.5	Benzene
	15	TPHg, BTEX
SB-2	15	TPHg, BTEX
MW-1	17.5	Benzene
	27.5	Benzene
MW-2	17.5	Benzene
MW-3	7.5	TPHg, BTEX, naphthalene
	17.5	Benzene
MW-4	7.5	TPHg, BTEX
	17.5	Benzene
MW-5	7.5	TPHg, BTEX, naphthalene
	17.5	Benzene
MW-6	20	Benzene
MW-8	15	TPHg, BTEX
	20	Benzene
MW-9	10	Benzene
	20	Benzene
MW-10	5	Benzene
	20	Benzene
AO RI Results		
Location	Depth(s) – feet bgs	COC(s)
B-07	8	TPHg
MW-11	1	TPHg, Xylenes
	6	TPHg, benzene, ethylbenzene, xylenes, and naphthalene
MW-15	10.5	TPHg, naphthalene
	13	TPHg, benzene, ethylbenzene, and xylenes
	17.5	TPHg, benzene
MW-22	16	Benzene
MW-23	18	Benzene
	25	Benzene

The remaining soil borings did not contain concentrations of Site COPCs above their respective MTCA Method A cleanup levels. In addition, no cVOCs were detected in soil from borings along the western Property boundary (B-08, GP-04, MW-12, MW-13, MW-14, MW-18, and MW-19; Table 1) and closest to the former dry cleaner (see Section 2.2.3), which eliminated the potential comingling of a separate release from a neighboring property. Laboratory analytical reports are included as Appendix C. Data validation reports are included as Appendix D.

4.4.2 Groundwater Results

This section presents the current interpretation of the Site hydrogeology, groundwater analytical results, and current extents of contamination in Site groundwater. Historical groundwater analytical results from investigations conducted by others are included as Table 2. The COPCs detected above the MTCA Method A cleanup levels in groundwater include TPHg, TPHd, TPHo, BTEX, and naphthalene.

4.4.2.1 Groundwater Elevations, Flow Direction, and Gradient

Groundwater is encountered at the interface of the imported fill and Vashon till (Figure 4). Groundwater was gauged at depths ranging between approximately 7 and 16 feet bgs, corresponding to elevations of 431 to 442 feet (NAVD88) during the four monitoring events performed from August 2019 to November 2020 (Table 3). For the monitoring wells that were gauged over these four events (MW-1 to MW-19), groundwater elevations within each well varied an average of 1.62 feet, with a minimum variation of 0.66 feet at MW-6 and a maximum variation of 2.38 feet at MW-9. During each event, the groundwater flow direction was to the southwest at an average horizontal hydraulic gradient of 0.05 foot/foot.

4.4.2.2 Groundwater Analytical Results

During three of the four groundwater sampling events in July 2019, November 2019, and November 2020, LNAPL was present in monitoring wells MW-3, MW-4, MW-5, MW-8, and MW-15, and these monitoring wells were therefore not sampled. In August 2020, LNAPL was present in monitoring wells MW-3, MW-5, and MW-15, but no LNAPL was measured at MW-4 or MW-8, and groundwater samples were collected from MW-4 and MW-8. Groundwater samples were submitted to Friedman & Bruya, Inc. and analyzed for the following COPCs:

- TPHg by Ecology Method NWTPH-Gx
- TPHd and TPHo by Ecology Method NWTPH-Dx
- Naphthalene by EPA Method 8260C
- BTEX, EDB, EDC, and MTBE by EPA Method 8260C (August and November 2019 only)
- Total lead by EPA Method 6010C (August and November 2019 only)

In addition, samples from monitoring wells MW-13, MW-14, MW-18, and MW-19 located closest to the former dry cleaner operation were analyzed for cVOCs by EPA Method 8260C to assess potential comingling of a release from a neighboring property.

Laboratory analytical reports are included as Appendix C; data validation reports are included in Appendix D.

Historical groundwater analytical results are summarized in Table 2, and groundwater analytical results from the AO RI are summarized in Table 4. Analytical results from the August 2020 and November 2020 events are presented on Figure 5.

Based on the analytical data, TPHg, TPHd, TPHo, BTEX, and naphthalene were detected above their respective MTCA Method A cleanup levels and were retained as Site COCs for groundwater. The following locations contained one or more COCs at concentrations greater than the respective MTCA Method A cleanup levels (Table 4, Figure 5): MW-1, MW-2, MW-4, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, MW-17, MW-18, MW-21, MW-22, and MW-23.

4.4.3 Vapor Intrusion Assessment Results

As part of the Tier II vapor intrusion evaluations in July 2021, December 2021, November 2022, January 2023, and February 2023 analytical results for air (both crawlspace and indoor air) were adjusted for background conditions in accordance with Ecology guidance (Ecology, 2022) and compared to the generic MTCA Method B indoor air cleanup level for TPH⁵.

At the time of the 2019 RIWP implementation and 2020 RIWP Addendum implementation, investigations were conducted under Ecology's current guidance at the time detailed in Implementation Memorandum Nos. 14 and 18 (Ecology, 2016 and 2018). These guidance documents have been revised and are now included in the comprehensive guidance for vapor intrusion assessment (Ecology, 2022). The discussion below compares all results to the most recent guidance (Ecology, 2022) and MTCA Method B subslab soil gas screening levels and indoor air cleanup levels.

The COPCs detected above the MTCA Method B subslab soil gas screening levels in soil gas include TPH and benzene, which represents a potential vapor intrusion risk to indoor air quality (as discussed further below, the possibility of potential background concentrations from non-vapor intrusion sources influencing indoor air is discussed further in Section 4.4.3.6 below).

As discussed in Section 4.7 of Ecology's vapor intrusion guidance (Ecology, 2022), the measured air concentrations were adjusted by subtracting the VOC concentrations in ambient air. These adjusted indoor air results represent a more accurate potential contribution of vapor intrusion to VOC concentrations in indoor air. Crawlspace air results

⁵ The concentration for TPH was calculated as the sum of aliphatic hydrocarbons, aromatic hydrocarbons, and gas-range VOCs in accordance with Ecology guidance (2022). For soil gas samples and ambient air samples where the aliphatic or aromatic hydrocarbons were not detected, the TPH concentration was summed using one-half the reporting limit for individual compounds. For crawlspace and indoor air samples, if an individual compound was not detected in either the crawlspace or indoor sample and also not detected in the associated ambient sample, the TPH concentration was summed using zero for non-detected individual compounds.

were also adjusted by subtracting the ambient background air concentrations. The adjusted indoor air and crawlspace air results are used for evaluation in this section.

The COPCs detected in indoor air above their respective MTCA Method B cleanup levels are TPH, benzene, and naphthalene.

4.4.3.1 July 2019 through December 2021 Soil Gas Results

Soil gas sampling was conducted over five events throughout the AO RI at various probes and subslab locations on the Property in July 2019, August 2020, November 2020, July 2021, and December 2021. A total of 23 soil gas samples (not including quality control samples) were collected and submitted to Friedman & Bruya, Inc. for analysis of the following:

- BTEX and naphthalene by EPA Method TO-15
- Aliphatic and aromatic hydrocarbons by MDEP Method APH

Samples collected during the July 2019 event were also analyzed for EDB, EDC, and MTBE by EPA Method TO-15. EDB, EDC, and MTBE were not detected in soil gas, and therefore eliminated as Site COPCs and not analyzed in subsequent events.

Soil gas sampling results are summarized in Table 5. Individual analytes, including carcinogenic compounds, were not detected above their respective MTCA Method B subslab screening levels with the exception of benzene (Table 5). The calculated TPH concentration exceeded the generic MTCA Method B subslab screening level at select locations as summarized in Table C below.

Table C. Soil Gas Exceedances of the MTCA Method B Subslab Soil Gas Screening Levels

Location		Date	COC(s)
GP-01	Soil gas probe	July 2019	TPH
GP-02	Soil gas probe	July 2019 August 2020 July 2021	TPH TPH TPH, Benzene
GP-03	Soil gas probe	July 2019 August 2020 November 2020 July 2021 December 2021	TPH TPH TPH TPH TPH
GP-04	Soil gas probe	July 2019	TPH
GP-05	Soil gas probe	November 2020 July 2021	TPH TPH, Benzene
GP-06	Soil gas probe	July 2021	TPH
SVS-01	Subslab soil vapor pin	July 2019 August 2020	TPH TPH, Benzene
SVS-02	Subslab soil vapor pin	July 2019 August 2020	TPH TPH

Laboratory analytical reports are included as Appendix C, and data validation reports are included in Appendix D.

4.4.3.2 July 2021 Ambient and Crawlspace Air Analytical Results

The July 2021 sampling results are summarized in Table 6 for crawlspace air. Results were compared against the MTCA Method B cleanup levels for indoor air for unrestricted use. Adjusted crawlspace air samples had benzene, naphthalene, and TPH concentrations above the MTCA Method B indoor air cleanup level for unrestricted use at the IA-1 location. This IA-1 location is in the eastern portion of the Chri-Mar Apartments building crawlspace and closer to soil gas probes GP-03 and GP-05, where the highest concentrations of TPH were historically detected.

4.4.3.3 December 2021 through February 2023 Ambient Air Analytical Results

Ambient air sampling was conducted over four events throughout the RI at two locations north and southwest of the Chri-Mar Apartments building as shown on Figure 7. To the north and upwind of the Chri-Mar Apartments building at location AMB-1, benzene was detected at concentrations ranging from 0.37 to 0.70 $\mu\text{g}/\text{m}^3$, exceeding the MTCA Method B indoor air cleanup level of 0.32 $\mu\text{g}/\text{m}^3$ during all four events. Benzene was detected at similar concentrations in the down/crosswind ambient air sample during all four events. Naphthalene was also detected at concentrations below the MTCA Method B indoor air cleanup level of 0.074 $\mu\text{g}/\text{m}^3$ in AMB-1 during the December 2021 and November 2022 events.

The C5-C8 aliphatic hydrocarbon range was detected in both the ambient air samples during the January 2023 and February 2023 events. C9 – C12 aliphatic, and C9-10 aromatic air-phase hydrocarbons were not detected in either of the ambient air samples during any of the sampling events. It is noteworthy that summing the non-detected analytes at one-half the reporting limit results in TPH concentration ranging 3 up to 26 times greater than the generic MTCA Method B indoor air cleanup level for TPH. Ambient, crawlspace, and indoor air results are tabulated in Table 7 through Table 10; the laboratory report is included as Appendix C. Ambient, crawlspace, and indoor air sampling locations are shown on Figure 7.

4.4.3.4 December 2021 through February 2023 Crawlspace Air Analytical Results

Crawlspace results suggest that concentrations fluctuations appear to match ambient air concentration variation. The crawlspace is vented allowing ambient air exchange with the crawlspace air beneath the building. Analytical results are summarized by crawlspace location under each unit below.

Unit #125

In the crawlspace under Unit #125, the adjusted concentration of benzene exceeded the MTCA Method B indoor air cleanup level during the January 2023 event. The adjusted calculated total TPH concentrations exceeded the generic MTCA Method B indoor air cleanup level during the November 2022, January 2023, and February 2023 sampling events.

Unit #127

In the crawlspace under Unit #127, the adjusted concentration of benzene exceeded the MTCA Method B indoor air cleanup level during the January 2023 event. The adjusted calculated total TPH concentration exceeded the generic MTCA Method B indoor air cleanup level during the November 2022 and January 2023 sampling events.

Unit #129

In the crawlspace under Unit #129, the adjusted concentration of benzene was less than the MTCA Method B indoor air cleanup level during all four sampling events. Naphthalene was also detected at concentrations less than the MTCA Method B indoor air cleanup level during three of the events. The adjusted calculated total TPH concentration exceeded the generic MTCA Method B indoor air cleanup level during the November 2022 sampling event.

Unit #131

In the crawlspace under Unit #131, the adjusted concentrations of benzene, total xylenes, and naphthalene exceeded the MTCA Method B indoor air cleanup level during the January 2023 event. The adjusted total TPH concentration exceeded the generic MTCA Method B indoor air cleanup level during the November 2022 and January 2023 sampling events.

4.4.3.5 December 2021 through February 2023 Indoor Air Analytical Results

Indoor air concentrations were adjusted by subtracting the VOC concentration in ambient air (Ecology, 2022). Analytical results are summarized by residential unit below.

Unit #125

In Unit #125, the concentration of naphthalene in the adjusted indoor air results exceeded the MTCA Method B indoor air cleanup level in the bathroom during three of the four events, and in the living room during one of the four events. However, the concentrations of naphthalene detected in indoor air were orders of magnitude greater than the concentrations detected in the same crawlspace sampling events. This indicates that the concentration of naphthalene detected in indoor air is not due to vapor intrusion, but rather a background source from within the unit.

The calculated total TPH concentration exceeded the generic MTCA Method B indoor air cleanup level in three of the four sampling events in both the living room and bathroom samples. In two of those events the indoor air total TPH concentrations were greater than the crawlspace total TPH concentrations, further supporting a potential background source from within the unit.

Unit #127

In Unit #127, the concentration of naphthalene in the adjusted indoor air result was greater than MTCA Method B indoor air cleanup level in the living room during the February 2023 event and in the bathroom during the December 2021 event. However, the concentration of naphthalene during both events was greater in the indoor air samples than the concentrations of naphthalene in the respective crawlspace samples. This indicates that the concentration of naphthalene detected in indoor air is not due to vapor intrusion, but rather a background source from within the unit.

In Unit #127, the adjusted calculated total TPH concentrations only exceeded the generic MTCA Method B indoor air cleanup level in the bathroom during the January 2023 event. During this event, the measured air-phase hydrocarbon fraction concentrations were different in crawlspace and indoor air results, indicating the TPH concentrations in indoor air are not due to vapor intrusion.

Unit #129

In Unit #129, the concentrations of naphthalene in the adjusted indoor air results were greater than the MTCA Method B indoor air cleanup level in both the living room and bathroom locations during the December 2021 event and in only the living room during the November 2022 and February 2023 events (Table 7 through 10). Similar to the previous Units #125 and #127, the concentration of naphthalene at both locations were greater than the concentrations detected in the crawlspace for their respective events. This indicates that the concentration of naphthalene detected in indoor air is not due to vapor intrusion, but rather a background source from within the unit.

In Unit #129 the adjusted calculated total TPH concentrations in both living room and bathroom samples exceeded the generic MTCA Method B indoor air cleanup level for

three of the four events and exceeds the MTCA Method B indoor air cleanup level in the living room sample during the January 2023 event. However, the adjusted calculated total TPH concentration in crawlspace air only exceeded the generic cleanup levels during the November 2022 sampling event and in the other three events was orders of magnitude less than the two indoor air samples from Unit #129. These results indicate that exceedances of TPH in indoor air are not the result of vapor intrusion, but rather a background source from within the unit.

During the January 2023 event, the measured air-phase hydrocarbon fraction concentrations were different in crawlspace and indoor air results, indicating the TPH concentrations in indoor air are not due to vapor intrusion.

Unit #131

In Unit #131, the concentration of naphthalene in the adjusted indoor air results was greater than MTCA Method B indoor air cleanup level in the living room during all four events. Indoor air concentrations of naphthalene were an order of magnitude greater than the concentrations detected in the crawlspace in all but the November 2022 sampling event⁶.

Benzene was detected at a concentration greater than the MTCA Method B indoor air cleanup level in the living room during three of the four events. Similar to naphthalene, these concentrations were an order of magnitude higher than the respective crawlspace air results in three of the four sampling events. This indicates that the concentration of naphthalene and benzene detected in indoor air is not due to vapor intrusion, but rather background source from within the unit. It was noted during the building reconnaissance that the current tenants actively smoke inside Unit #131.

The adjusted calculated total TPH concentrations in indoor air exceeded the generic MTCA Method B indoor air cleanup level during three of the four sampling events. However, during two of these events the indoor air TPH concentrations were orders of magnitude greater than the crawlspace TPH concentrations. During the January 2023 event, the adjusted calculated total TPH concentrations were greater in the crawlspace sample than the corresponding indoor air sample and the indoor air total TPH concentration was below the cleanup level. These results indicate that generic cleanup level exceedances of TPH in indoor air are not the result of vapor intrusion but rather a background source from within the unit.

4.4.3.6 Vapor Intrusion Assessment Summary

The vapor intrusion assessment results indicate that on average the naphthalene and total TPH concentrations detected in the indoor air samples are greater than the naphthalene and total TPH concentrations detected in the crawlspace samples. It is noteworthy that summing the non-detected analytes at one-half the reporting limit results in TPH

⁶ Due to health and safety concerns, a crawlspace air sample was not collected from directly beneath Unit #131 during the December 2021 sampling event. Given the open-air exchange of the crawlspace, an average of the other crawlspace air results was used to evaluate the potential contribution of vapor intrusion from the crawlspace to indoor air.

concentration ranging 3 up to 26 times greater than the generic MTCA Method B indoor air cleanup level for TPH.

Benzene concentrations detected in Unit #131 were also greater than the benzene concentrations detected in the respective crawlspace samples. Benzene was either not detected or detected below cleanup levels in indoor air in the other units. Based on a comparison of the multiple lines of evidence presented for each sampling event to date, background sources from within the units are likely contributing to indoor air exceedances.

Ecology guidance acknowledges there can be a wide variety of sources which contribute to measured concentrations of analytes in indoor air (Ecology, 2021; NJDEP, 2021). These background sources can include common household products such as cleaners, paint products, byproducts from smoking, and recently manufactured materials.

4.4.4 Quality Assurance/Quality Control

Data presented in this report meet data quality objectives in accordance with MTCA requirements (WAC 173-340-350). Sample collection, handling, and chain-of-custody protocols were followed to achieve representative data for a given matrix, in accordance with the SAP/QAPP for the project (Appendix E of the RIWP; Aspect, 2019). Chemical analyses of the samples were conducted by a laboratory accredited by Ecology using MTCA-required analytical methods (NWTPH methods for petroleum mixtures, and SW-846, MDEP, or EPA Standard Methods for other analytes). Those analytical methods, in conjunction with Contract Laboratory Program (CLP), specify quality control (QC) procedures (lab method blanks, spikes, internal standards, etc.) to ensure the analytical results are of known quality and acceptable to achieve project objectives.

The laboratory conducted an internal quality assurance (QA) review of the generated results, and qualified results to identify QC concerns in accordance with their standard operating procedures for each analytical method. The laboratory also defined additional data qualifiers to explain QC concerns more completely regarding particular sample results when necessary, such as when a sample was diluted prior to analysis or if a sample chromatograph pattern did not resemble the fuel standard used for quantitation.

Upon receipt of the data, Aspect submitted all analytical data reports to Laboratory Data Consultants, LLC (LDC) for third party data validation as required by the AO. Qualifiers were assigned to results as applicable based on laboratory flagging and report notes. Laboratory results were loaded and managed in a controlled database environment, with assorted data entry quality control procedures to ensure data integrity and consistency. The LDC data validation reports are included as Appendix D.

All laboratory analytical data generated as part of the AO RI has been uploaded to Ecology's Environmental Information Management (EIM) database, as required by the AO.

5 Conceptual Site Model

This section identifies the Site COCs, nature and extent of contamination, discusses contaminant fate and transport, and presents an exposure pathway assessment for potential receptors.

5.1 Contaminants of Concern and Affected Media

The COCs retained for the Site are based on the occurrence of analytes identified above soil and groundwater MTCA Method A cleanup levels, subslab soil gas MTCA Method B screening levels, or indoor air MTCA Method B cleanup levels. The affected media at the Site include soil, groundwater, and soil gas. COCs have been detected in indoor air at the site, but are likely present due to background sources. The COCs for this Site by media are as follows:

- TPHg, TPHo, TPHd, BTEX, and naphthalene in soil and groundwater
- TPH, benzene, and naphthalene in soil gas, and potentially indoor air

The other COPCs typically associated with petroleum hydrocarbon releases were not detected in soil, groundwater, soil gas, or indoor air above their respective MTCA cleanup or screening levels. The following COPCs were eliminated for the Site:

- Lead was detected in soil but at concentrations below the Method A CUL and statewide background concentrations (Ecology, 1994). Lead was also detected below the MTCA Method A cleanup level in two groundwater monitoring wells (MW-11 and MW-16) and otherwise was not detected above the laboratory detection limits in the remaining groundwater samples or monitoring wells.
- EDB, EDC, and MTBE were not detected in soil, groundwater, or soil gas at the Site.
- PCBs were detected in soil at MW-3 at a concentration an order of magnitude below the MTCA Method A cleanup level. PCBs were not detected in any other soil at the Site.
- cPAHs were not detected in soil at the Site.
- In addition, no cVOCs were detected in soil or groundwater and were therefore not retained as Site COCs.

5.2 Nature and Extent of Contamination

This section describes the nature and extent of contamination at the Site based on the investigation results.

5.2.1 Soil Impacts

Soil characterization results indicate that soil impacts have been delineated laterally and vertically at the Site. The lateral extents of soil impacts exceeding MTCA Method A cleanup levels are inferred to extend into the public right-of-way of 196th Street Southwest and the property to the west, as illustrated on Figure 3.

The RI soil analytical results have vertically delineated cleanup level exceedances at depths of 16 to 25 feet bgs in areas where LNAPL is present (MW-15 and MW-22, Figures 3 and 4). At locations B-07 and MW-11 outside the LNAPL footprint, cleanup level exceedances were vertically delineated at depths less than 8 feet bgs.

Soil was not vertically delineated at locations MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, and MW-23. At these locations, only benzene exceeded the MTCA Method A cleanup level in each of the deepest analytical results from each boring. Table D below shows the maximum depth where analytical data was acquired for each of these locations; all soil analytical results are available in the attached Table 1.

Table D. Locations Lacking Vertical Delineation

Location	Depth (feet bgs)	Benzene Soil Concentration (milligrams per kilogram [mg/kg])
MW-1	27.5	0.14
MW-2	17.5	0.33
MW-3	17.5	0.53
MW-4	17.5	0.24
MW-5	17.5	0.09
MW-6	20	0.0921
MW-8	20	0.0486
MW-9	20	0.104
MW-10	20	0.0532
MW-23	25	0.047

Based on observed geology, groundwater flow is not expected to be significant in the very dense, unweathered glacial till from which these samples were collected. These exceedances may be due to drag down of shallower LNAPL and/or higher-concentration soils and groundwater during drilling. The vertical extent of soil impacts in the source area and downgradient is shown on Cross Section A-A', Figure 4.

Further discussion of these deeper benzene exceedances in soil is included as part of the exposure pathway assessment in Section 5.3 below.

5.2.2 Groundwater Impacts

Groundwater at the Site occurs in an unconfined aquifer, which is potentially perched above an unsaturated zone. Thirty-two monitoring wells have been monitored as part of the Site investigation: 28 were installed as part of the Site investigation (MW-1 through MW-28) and four wells were installed on the south-adjacent property by others (CMW-1 through CMW-4) as shown on Figure 2. Of these 32 monitoring wells, 29 of them are screened in and/or across the interface between the fill soil, weathered till, and unweathered till, and these 29 monitoring wells contained sufficient groundwater for sampling. Three of the monitoring wells (MW-28, CMW-2, and CMW-3) are screened exclusively within the unweathered till and have remained dry since installation. These observations indicate that the very dense, unweathered till precludes groundwater flow, and that impacts to groundwater are limited vertically to the unconfined, surficial aquifer.

Laterally, the groundwater plume has been delineated in all directions except upgradient to the north, potentially due to comingling from the north-adjacent site (Figure 5). At least 55 years have passed since the last gasoline-based operation at the Property. In that time, LNAPL has migrated only approximately 90 feet downgradient to the southwest, indicating that groundwater flow in the unconfined, surficial aquifer is extremely limited. Likewise, the dissolved-phase groundwater plume has shown very limited migration both downgradient and crossgradient of the LNAPL plume, further supporting that limited groundwater flow occurs at the Site.

In groundwater, TPHd and TPHo were detected at concentrations exceeding the MTCA Method A cleanup levels. Generally, reported concentrations of TPHd were an order of magnitude less than TPHg concentrations, and concentrations of TPHo were an order of magnitude less than TPHd. At MW-11, which is upgradient of the former waste and new oil USTs, TPHo was detected in groundwater.

The nature and extent of groundwater contamination at the Site have been fully characterized.

5.2.3 Soil Gas Impacts

Given the nature and extent of soil and groundwater impacts and the vapor intrusion assessment, the Chri-Mar Apartments building is the only occupied structure within the prescribed lateral and vertical screening distances for potential impacts to air quality at the Site. Based on the results of the subsequent Tier II vapor assessment conducted between December 2021 and February 2023 described in Section 4.4.3, subsurface petroleum impacts at the Site are likely not influencing indoor air quality within the Chri-Mar Apartments via the vapor intrusion exposure pathway.

5.3 Exposure Pathway Assessment

The potential exposure pathways that may affect human health include soil, groundwater, and vapor intrusion. The potential exposure pathways for terrestrial ecological receptors are incomplete as described in Section 5.3.4 below.

5.3.1 Soil Exposure Pathways

Two soil exposure pathways, direct-contact and leaching-to-groundwater were evaluated for the Site as follows:

- Direct-contact pathway:** The direct-contact pathway considers both dermal contact and ingestion of soil at the Site, to a maximum depth of 15 feet bgs. Soil analytical results show soil exceedances of cleanup levels between 1 to 15 feet bgs. The area of contaminated soil was historically capped and covered with pavement, which effectively prevented exposure if these surfaces were maintained, and proper health and safety procedures were observed during subsurface work. In addition, removal of contaminated soil from the ground surface to greater than 15 feet bgs was conducted during the interim action, as described in the Interim Action Work Plan (IAWP; Aspect, 2020c). The IA successfully removed on-Property contaminated soil to greater than 15 feet bgs and the direct contact pathway is incomplete on-Property as documented in the Interim Action Report

(Aspect, 2023b). There are residual soil exceedances shallower than 15 feet bgs in the City ROW north of the Property that were impractical to remove.

- **Soil leaching-to-groundwater pathway:** The soil leaching-to-groundwater transport pathway requires consideration of the highest beneficial use of groundwater at the Site in accordance with WAC 173-340-357(3)(d). The highest potential beneficial use of groundwater at the Site is drinking water. Based on the two groundwater sampling events at the Site, concentrations of Site COCs in groundwater are above the MTCA Method A cleanup levels. Therefore, the soil leaching-to-groundwater pathway is considered complete. In addition, LNAPL was present at the Site in the free-phase as shown on Figure 3. This residual LNAPL represents a large source of mass that is in contact with and leaches to groundwater. The completed IA removed soil and LNAPL sources to groundwater from the Site to the maximum extent practicable (Aspect, 2023b). The risk of exposure via the groundwater-ingestion pathway is considered low and is currently incomplete as discussed below.

5.3.2 Groundwater Exposure Pathways

Two groundwater exposure pathways, groundwater-to-surface water and groundwater-ingestion, have been considered for the Site as follows:

- **Groundwater-ingestion pathway:** This groundwater exposure pathway considers ingestion of groundwater at the Site. The potential for exposure to groundwater is considered low, and the pathway is currently incomplete at this Site for the following reasons:
 - Potable water for the Property and surrounding properties is served by a municipal water supply.
 - The Department of Health (DOH) maintains a database of public drinking water wells/systems. DOH records list no such drinking water wells within a mile radius of the Property (DOH, 2022).
 - Given that the groundwater plume at the Site has been delineated downgradient to the east and southeast, and there are no drinking water wells within the Site footprint, the groundwater-ingestion pathway is currently incomplete and the potential for exposure is low under current conditions.
- **Groundwater-to-surface water pathway:** Surface water or groundwater discharge to surface water is not present on or in the vicinity of the Site. The groundwater plume at the Site has been delineated, and this pathway is incomplete.

5.3.3 Vapor Intrusion Pathway

The vapor intrusion pathway assessment considered the potential for accumulation of Site COCs in indoor air due to intrusion from impacted soil gas. Contaminants present in soil gas originate from volatilization of Site COCs in the free phase (LNAPL), sorbed phase (soil), and dissolved phase (groundwater). The Aloha Café building on the Property was

demolished, and LNAPL, contaminated soil, and contaminated groundwater within the Property were removed as part of the IA. Therefore, the vapor intrusion exposure pathway for future uses of the Property is incomplete after completion of the IA.

As discussed in Section 4.7 of Ecology's vapor intrusion guidance (Ecology, 2022), the measured indoor air concentrations were adjusted by subtracting the VOC concentrations in ambient air. These adjusted indoor air results represent a more accurate potential contribution of vapor intrusion to VOC concentrations in indoor air. Crawlspace air results were also adjusted by subtracting the ambient background air concentrations. The adjusted indoor air and crawlspace air results are used for evaluation in this section.

Based on the results of the Tier II vapor intrusion assessment, the vapor intrusion exposure pathway for the Chri-Mar Apartments building is not complete. This conclusion is based on multiple lines of evidence:

1. The December 2021 and February 2023 sampling events detected benzene, naphthalene, and total TPH concentrations in indoor air exceeding their respective MTCA Method B cleanup levels in locations where the corresponding crawlspace results were detected below cleanup levels.
2. The November 2022 sampling event recorded the highest living room total calculated TPH concentrations, but the January 2023 sampling event recorded the highest crawlspace and ambient total TPH concentrations. This temporal variability indicates that living room concentrations are not dependent on crawlspace concentrations, and crawlspace concentrations are likely a function of ambient air concentrations.
3. TPH, naphthalene, and benzene were detected in indoor air at concentrations exceeding their respective MTCA Method B indoor cleanup levels in all units in the Chri-Mar Apartments building during at least one event. However, when comparing the concentrations in indoor air to crawlspace air, it is likely that both ambient air and background sources within each unit contribute to the concentration measured in indoor air based on the following lines of evidence:
 - a. The three air-phase hydrocarbon fractions, which make up the total TPH concentration, vary between crawlspace and indoor air samples. The C5-C8 fraction is consistently the greatest contributor to crawlspace total TPH concentrations. The C9-C12 aliphatic fraction was detected in indoor air in every unit; in December 2021 and February 2022 the corresponding crawlspace sample was non-detect for C9-C12 fraction.
 - b. Naphthalene was detected in every unit at a concentration greater than the MTCA Method B indoor air cleanup level. However, during the December 2021 event the indoor air naphthalene concentrations were an order of magnitude greater than the concentrations detected in crawlspace air. In addition, during the February 2023 event naphthalene was non-detect in crawlspace air. Naphthalene has never been detected in Site soil gas at a concentration exceeding the MTCA Method B subslab soil gas screening level.

- c. Benzene was detected in every unit at a concentration exceeding the MTCA Method B indoor air cleanup level. However, indoor air benzene concentrations strongly correlate with ambient air benzene concentrations (which are also above the cleanup level) with the exception of Unit #131 where the indoor air concentrations exceed ambient air concentrations and there are documented background sources within the unit including tenant smoking within the unit.

Based on these multiple lines of evidence, the vapor intrusion exposure pathway in the Chri-Mar Apartments building is incomplete based on the results of the Tier II vapor intrusion assessment. Any Site contributions to off-Property soil gas were removed by the IA. Active ventilation will continue including operations and maintenance on the fan, monitoring the vacuum on the inlet side of the fan, and confirmation monitoring. The active ventilation system will be converted to passive operation, and ultimately decommissioned based on confirmation sampling requirements defined in the Ventilation Work Plan (Aspect, 2023a).

5.4 Terrestrial Ecological Evaluation

The purpose of a Terrestrial Ecological Evaluation (TEE) is to assess the potential risk to terrestrial plants and/or animals that live entirely or primarily on affected land. This Site qualifies for a TEE exclusion under WAC 173-340-7491(1)(c)(i), *For sites contaminated with hazardous substances other than those specified in (c)(ii) of this subsection, there is less than 1.5 acres of contiguous undeveloped land on the site or within 500 feet of any area of the site.* The contiguous undeveloped land to the west of the Site is less than 1.5 acres. A copy of the TEE form documenting this exclusion is provided in Appendix E.

6 Proposed Cleanup Standards

This section presents the proposed cleanup standards by which evaluation of remedial action(s) will be measured. The areas to be addressed by remedial action(s) are also recapped below.

6.1 Applicable or Relevant and Appropriate Requirements

The most applicable or relevant and appropriate requirement (ARAR) for the Site is Ecology's MTCA cleanup levels and regulations that address the implementation of a cleanup under MTCA (Chapter 173.105D Revised Code of Washington [RCW]; Chapter 173-340 WAC). Other potentially applicable or relevant and appropriate requirements include:

- Solid waste management Reduction and Recycling (Chapter 70.95 RCW)
- Minimum Standards for Construction and Maintenance of Wells (Chapter 173-160 RCW)
- Washington Clean Air Act (Chapter 70.94 RCW)
- Puget Sound Clean Air Agency Regulations (<http://www.pscleanair.org>)
- OSHA, 29 CFR Subpart 1910.120
- Washington Industrial Safety and Health Act (WISHA)
- Archaeological and Cultural Resources Act (Chapter 43.53 RCW)
- State Environmental Policy Act (Chapter 43.21C RCW, Chapter 173-802 WAC, and Chapter 197-11 WAC)
- Permits from local municipalities as required for activities at the Site, examples include City of Lynnwood demolition, tree clearing, tank decommissioning, grading, and street use or right-of-way permits.

6.2 Cleanup Standards

Cleanup actions conducted in accordance with MTCA must comply with cleanup standards for the identified COCs and affected media as well as applicable regulatory requirements based on federal and state laws (WAC 173-340-710). Cleanup standards for the Site include establishing cleanup levels and the points of compliance at which those cleanup levels will be attained in soil, groundwater, and air. The following presents the cleanup levels and points of compliance for the Site.

6.2.1 Cleanup Levels

The cleanup levels based on the affected media and exposure pathway assessment for the Site are shown in Table E below. As described in Section 5.2.3, indoor air does not appear to be impacted at the Site. However, indoor air has been retained as a potentially affected media based on the COCs observed in soil gas at the Property.

Table E. Site Cleanup Levels

	COC	Cleanup Levels	
Soil	TPHg TPHd TPHo Benzene Toluene Ethylbenzene Xylenes Naphthalene	30 mg/kg 2,000 mg/kg 2,000 mg/kg 0.03 mg/kg 7 mg/kg 6 mg/kg 9 mg/kg 5 mg/kg	MTCA Method A Cleanup Levels
Groundwater	TPHg TPHd TPHo Benzene Toluene Ethylbenzene Xylenes Naphthalene	800 ug/L 500 ug/L 500 ug/L 5 ug/L 1,000 ug/L 700 ug/L 1,000 ug/L 160 ug/L	MTCA Method A Cleanup Levels
Indoor Air	TPH Benzene Naphthalene	46 ug/m ³ 0.32 ug/m ³ 0.074 ug/m ³	MTCA Method B Cleanup Levels

6.2.2 Standard Points of Compliance

The standard points of compliance have been selected for the Site as follows:

- **Soil for protection from direct contact.** Ground surface to a depth of 15 feet
- **Soil for protection of groundwater.** Throughout the Site
- **Groundwater for protection of drinking water.** Extending vertically from the upper-most level of the saturated zone to the lowest-most depth potentially affected
- **Indoor Air for protection from inhalation.** Throughout the Site

When it is not practicable to achieve cleanup levels in soil at the standard points of compliance, the cleanup action may involve containment of hazardous substances. Remedies involving containment may still be determined to comply with cleanup standards, provided:

1. The selected remedy is permanent to the maximum extent practicable.
2. The cleanup action is protective of human health and the environment.
3. Appropriate institutional controls, including compliance monitoring and periodic reviews, are implemented (WAC 173-340-740(6)(f)).

6.2.3 Areas Requiring Remediation

The areas to be addressed by a remedy for this Site have been delineated to the extent possible based on the nature and extent of contamination and cleanup standards described in the previous sections. The areas requiring remediation for the Site include the lateral and vertical extents of soil contaminated above the cleanup levels, including the free-phase LNAPL body present on the Property (Figure 3), and the extents of contaminated

groundwater at the Site (Figure 5). The IA soil confirmation results and post-IA groundwater monitoring results will be incorporated into the FS Report to update the areas requiring remediation for evaluation of final cleanup alternatives.

7 Conclusions and Recommendations

Contaminated soil and groundwater at the Site are a result of a gasoline, diesel, and waste oil releases from historical operations at the Property. The areas to be addressed by a remedy for this Site have been delineated based on the affected media, nature and extent of contamination, and cleanup standards described in this RI report. The potential exposure pathways for human health and terrestrial ecological risk are currently considered incomplete based on available data.

Concurrently with the RI, an IA was conducted at the Site and removed the LNAPL, removed on-Property impacts to soil above MTCA Method A cleanup levels to the extent practicable, and incidentally removed impacted groundwater at the Site as needed for construction (Aspect, 2023b). The IA also mitigated on- and off-Property exposure pathways at the Site. Post-IA groundwater monitoring will be conducted to evaluate cleanup alternatives under the feasibility study (FS) process as described in WAC 173-340-350(8).

The IA soil performance monitoring and post-IA groundwater monitoring results will be incorporated into an updated conceptual site model as part of the FS, and the updated conceptual site model will form the basis for preparing cleanup alternatives to be evaluated in the FS for selection of a final cleanup remedy for the Site.

8 References

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9 Limitations

Work for this project was performed for Strickland Real Estate Holdings, 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.

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TABLES

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			SB		SB1		SB1-CAM	
			08/24/1995	08/24/1995	11/06/1995	11/06/1995	11/16/2006	11/16/2006
			SB-16"	SB-24"	SB1-12.5'	SB1-16'	SB1-CAM-7.5	SB1-CAM-12.5
			1.33 ft	2 ft	12.5 ft	16 ft	7.5 ft	12.5 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	--	--	4100	< 5 U	4.51	12.3
Diesel-Range Organics	mg/kg	2000	1400	630	< 50 U	--	< 10.8 U	< 11.4 U
Motor Oil-Range Organics	mg/kg	2000	5200	2000	< 100 U	--	< 27.1 U	< 28.6 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	--	--	--	--	--	--
BTEX								
Benzene	mg/kg	0.03	--	--	18	< 0.1 U	0.14	0.73
Toluene	mg/kg	7	--	--	150	< 0.1 U	0.42	1.7
Ethylbenzene	mg/kg	6	--	--	57	< 0.1 U	< 0.08 U	0.18
Total Xylenes	mg/kg	9	--	--	280	< 0.3 U	< 0.24 U	0.9
Metals								
Lead	mg/kg	250	--	--	--	--	1.71	2.06
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	--	--	--	--	0.1138	0.0152
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	< 0.0195 U	< 0.0208 U
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	< 0.0108 U	< 0.0115 U
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	--	< 0.04 U	< 0.04 U
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	--	--	--	< 0.04 U	< 0.04 U
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	--	< 0.41 U	< 0.39 U
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			SB2	SW	WW	WW2	WW4	BOT
			11/06/1995	08/22/1995	08/22/1995	08/22/1995	08/24/1995	08/24/1995
			SB2-15'	SW	WW	WW2	WW4	BOT
			15 ft	6 ft	6 ft	-	10 ft	9 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	640	--	--	--	--	--
Diesel-Range Organics	mg/kg	2000	--	< 25 U	5100	--	< 25 U	27
Motor Oil-Range Organics	mg/kg	2000	--	< 50 U	13000	--	< 50 U	66
Diesel and Oil Extended-Range Organics	mg/kg	2000	--	--	--	--	--	--
BTEX								
Benzene	mg/kg	0.03	2.4	--	--	< 0.1 U	--	--
Toluene	mg/kg	7	15	--	--	< 0.1 U	--	--
Ethylbenzene	mg/kg	6	7	--	--	< 0.1 U	--	--
Total Xylenes	mg/kg	9	33	--	--	< 0.3 U	--	--
Metals								
Lead	mg/kg	250	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	--	--	--	--	--	--
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	--	--	< 0.1 U	--	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			BOT2	MW-1		MW-2	
			08/24/1995	11/16/2006	11/16/2006	11/17/2006	11/17/2006
			BOT2	GW1-17.5	GW1-27.5	GW2-12.5	GW2-17.5
			12.5 ft	17.5 ft	27.5 ft	12.5 ft	17.5 ft
Analyte	Unit	MTCA Method A Cleanup Level					
Total Petroleum Hydrocarbons (TPHs)							
Gasoline-Range Organics	mg/kg	30	--	< 3.54 U	4.54	< 3.68 U	9.49
Diesel-Range Organics	mg/kg	2000	< 25 U	< 10.9 U	< 10.6 U	< 11 U	< 11.2 U
Motor Oil-Range Organics	mg/kg	2000	< 50 U	< 27.2 U	< 26.4 U	< 27.4 U	< 28.1 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	--	--	--	--	--
BTEX							
Benzene	mg/kg	0.03	--	0.16	0.14	0.02	0.33
Toluene	mg/kg	7	--	0.34	0.38	< 0.07 U	1
Ethylbenzene	mg/kg	6	--	< 0.07 U	< 0.07 U	< 0.07 U	0.87
Total Xylenes	mg/kg	9	--	< 0.21 U	< 0.21 U	< 0.22 U	0.34
Metals							
Lead	mg/kg	250	--	1.48	0.962	1.6	1.4
Polycyclic Aromatic Hydrocarbons (PAHs)							
Naphthalene	mg/kg	5	--	< 0.0108 U	< 0.0106 U	< 0.0111 U	< 0.0113 U
Total cPAHs TEQ	mg/kg	0.1	--	< 0.0195 U	< 0.0192 U	< 0.0201 U	< 0.0205 U
Polychlorinated Biphenyls (PCBs)							
Total PCBs (Sum of Aroclors)	mg/kg	1	--	< 0.0108 U	< 0.0106 U	< 0.0111 U	< 0.0113 U
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U
1,2-Dichloropropane	mg/kg		--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	< 0.35 U	< 0.36 U	< 0.37 U	< 0.43 U
Methylene Chloride	mg/kg	0.02	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-3		MW-4		MW-5	
			11/16/2006	11/16/2006	11/17/2006	11/17/2006	11/17/2006	11/17/2006
			GW3-7.5	GW3-17.5	GW4-7.5	GW4-17.5	GW5-7.5	GW5-17.5
			7.5 ft	17.5 ft	7.5 ft	17.5 ft	7.5 ft	17.5 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	1820	8.39	1060	8.57	1550	23.9
Diesel-Range Organics	mg/kg	2000	63.3	< 11.1 U	30.9	< 11 U	62.4	< 11 U
Motor Oil-Range Organics	mg/kg	2000	< 27.9 U	< 27.8 U	< 26.8 U	< 27.5 U	< 26.9 U	< 27.5 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	--	--	--	--	--	--
BTEX								
Benzene	mg/kg	0.03	8.6	0.53	0.48	0.24	0.97	0.09
Toluene	mg/kg	7	99	0.85	12	0.44	24	0.52
Ethylbenzene	mg/kg	6	25	0.12	8.2	< 0.08 U	14	0.19
Total Xylenes	mg/kg	9	160	0.39	54	0.31	90	0.9
Metals								
Lead	mg/kg	250	6.69	1.55	2.35	1.58	4.64	1.33
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	5.86	< 0.0111 U	4.1	< 0.011 U	6.34	0.0127
Total cPAHs TEQ	mg/kg	0.1	< 0.0201 U	< 0.0201 U	< 0.0194 U	< 0.01991 U	< 0.0195 U	< 0.0201 U
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	< 0.0111 U	0.109	< 0.0107 U	< 0.011 U	< 0.0108 U	< 0.0111 U
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	< 0.4 U	< 0.39 U	< 0.38 U	< 0.38 U	< 0.39 U	< 0.37 U
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-6		MW-7		MW-8	
			07/05/2007	07/05/2007	07/05/2007	07/05/2007	07/05/2007	07/05/2007
			MW6@15'	MW6@20'	MW7@5'	MW7@20'	MW8@15'	MW8@20'
			15 ft	20 ft	5 ft	20 ft	15 ft	20 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 3.95 U	< 3.54 U	< 4.11 U	< 4.36 U	834	< 4.19 U
Diesel-Range Organics	mg/kg	2000	--	--	--	--	--	--
Motor Oil-Range Organics	mg/kg	2000	--	--	--	--	--	--
Diesel and Oil Extended-Range Organics	mg/kg	2000	--	--	--	--	--	--
BTEX								
Benzene	mg/kg	0.03	< 0.0158 U	0.0921	< 0.0164 U	< 0.0177 U	2.91	0.0486
Toluene	mg/kg	7	< 0.079 U	< 0.0708 U	0.214	< 0.0886 U	30.9	0.161
Ethylbenzene	mg/kg	6	< 0.079 U	< 0.0708 U	< 0.0822 U	< 0.0886 U	7.76	< 0.0838 U
Total Xylenes	mg/kg	9	< 0.237 U	< 0.212 U	< 0.247 U	< 0.266 U	49.7	< 0.252 U
Metals								
Lead	mg/kg	250	1.49	1.93	2.34	1.85	3.29	1.46
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	--	--	--	--	--	--
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	< 0.079 U	< 0.0708 U	< 0.0822 U	< 0.0886 U	< 0.0789 U	< 0.0838 U
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		< 0.079 U	< 0.0708 U	< 0.0822 U	< 0.0886 U	< 0.0789 U	< 0.0838 U
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	< 0.39 U	< 0.35 U	< 0.41 U	< 0.44 U	< 0.39 U	< 0.42 U
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-9		MW-10		HB-SB-3
			07/06/2007	07/06/2007	07/06/2007	07/06/2007	05/10/2010
			MW9@10'	MW9@20'	MW10@5'	MW10@20'	SO-241739-051010-HB-SB-3-5.0
			10 ft	20 ft	5 ft	20 ft	5 ft
Analyte	Unit	MTCA Method A Cleanup Level					
Total Petroleum Hydrocarbons (TPHs)							
Gasoline-Range Organics	mg/kg	30	< 0.0364 U	< 3.72 U	8.16	3.99	< 0.2 U
Diesel-Range Organics	mg/kg	2000	--	--	--	--	< 5 U
Motor Oil-Range Organics	mg/kg	2000	--	--	--	--	< 5 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	--	--	--	--	--
BTEX							
Benzene	mg/kg	0.03	0.248	0.104	0.119	0.0532	< 0.00083 U
Toluene	mg/kg	7	< 0.0854 U	< 0.0744 U	0.359	0.102	< 0.00083 U
Ethylbenzene	mg/kg	6	0.0854	< 0.0744 U	< 0.0756 U	0.131	< 0.00083 U
Total Xylenes	mg/kg	9	< 0.256 U	0.327	< 0.227 U	< 0.228 U	< 0.0017 U
Metals							
Lead	mg/kg	250	1.96	1.29	5.91	1.54	--
Polycyclic Aromatic Hydrocarbons (PAHs)							
Naphthalene	mg/kg	5	--	--	--	--	--
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)							
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	< 0.0854 U	< 0.0744 U	< 0.0756 U	< 0.0795 U	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		< 0.0854 U	< 0.0744 U	< 0.0756 U	< 0.0794 U	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	< 0.43 U	< 0.37 U	< 0.38 U	< 0.4 U	--
Methylene Chloride	mg/kg	0.02	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
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Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			HB-SB-4	B-05	B-06	B-07	
			05/10/2010	06/10/2019	06/11/2019	06/12/2019	06/12/2019
			SO-241739-051010-HB-SB-4-5.0	B-05-16	B-06-13	B-07-8	B-07-12.5
			5 ft	16 ft	13 ft	8 ft	12.5 ft
Analyte	Unit	MTCA Method A Cleanup Level					
Total Petroleum Hydrocarbons (TPHs)							
Gasoline-Range Organics	mg/kg	30	< 0.24 U	< 5 U	< 5 U	87 J	< 5 U
Diesel-Range Organics	mg/kg	2000	6.1	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	47	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	--	< 250 U	< 250 U	< 250 U	< 250 U
BTEX							
Benzene	mg/kg	0.03	< 0.001 U	< 0.02 U	< 0.02 U	--	--
Toluene	mg/kg	7	0.0018	< 0.02 U	< 0.02 U	--	--
Ethylbenzene	mg/kg	6	< 0.001 U	< 0.02 U	< 0.02 U	--	--
Total Xylenes	mg/kg	9	0.002	< 0.06 U	< 0.06 U	--	--
Metals							
Lead	mg/kg	250	--	--	--	1.44	--
Polycyclic Aromatic Hydrocarbons (PAHs)							
Naphthalene	mg/kg	5	--	--	--	< 0.005 UJ	< 0.005 UJ
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)							
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	< 0.005 U	< 0.005 U
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	--	--	< 0.005 U	< 0.005 U
1,2-Dichloropropane	mg/kg		--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	< 0.005 U	< 0.005 U
Methylene Chloride	mg/kg	0.02	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--

Notes:

mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act

Bold - Analyte detected

Blue Shaded - Detected result exceeded screening level

CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			B-08	B-09		B-10	B-11	
			07/16/2019	08/05/2020	08/05/2020	07/30/2020	07/28/2020	07/28/2020
			B-08-13.5	B-09-2.5	B-09-6	B-10-12.5	B-11-5.5	B-11-10.5
			13.5 ft	2.5 ft	6 ft	12.5 ft	5.5 ft	10.5 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	12	< 5 U
Diesel-Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
BTEX								
Benzene	mg/kg	0.03	< 0.02 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.02 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.02 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.06 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Metals								
Lead	mg/kg	250	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	--	< 0.05 U	< 0.05 U	< 0.05 U	0.082	< 0.05 U
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	< 0.05 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		< 0.05 U	--	--	--	--	--
1,1-Dichloroethene	mg/kg		< 0.05 U	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		< 0.05 U	--	--	--	--	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		< 0.5 U	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		< 0.05 U	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.02	< 0.5 U	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	< 0.025 U	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		< 0.05 U	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	< 0.02 U	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		< 0.05 U	--	--	--	--	--

Notes:

mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act

Bold - Analyte detected

Blue Shaded - Detected result exceeded screening level

CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			B-11	GP-04	GP-05		GP-06	MW-11
			07/28/2020	06/05/2019	11/10/2020	11/10/2020	11/10/2020	06/10/2019
			B-11-15	GP-04-2	GP-05-1.25	GP-05-6	GP-06-2.5	MW-11-1
			15 ft	2 ft	1.25 ft	6 ft	2.5 ft	1 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	280
Diesel-Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	--
Motor Oil-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	--
Diesel and Oil Extended-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	--
BTEX								
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.2 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.02 U	< 0.02 U	< 0.02 U	0.99
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.02 U	< 0.02 U	< 0.02 U	2
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.06 U	< 0.06 U	< 0.06 U	11
Metals								
Lead	mg/kg	250	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	1.5
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	< 0.05 U	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	< 0.05 U	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	< 0.05 U	--	--	--	--
1,1-Dichloroethane	mg/kg		--	< 0.05 U	--	--	--	--
1,1-Dichloroethene	mg/kg		--	< 0.05 U	--	--	--	--
1,1-Dichloropropene	mg/kg		--	< 0.05 U	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	< 0.25 U	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	< 0.05 U	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	< 0.25 U	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	< 0.05 U	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	< 0.5 U	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	< 0.05 U	--	--	--	< 0.005 U
1,2-Dichlorobenzene	mg/kg		--	< 0.05 U	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	< 0.05 U	--	--	--	< 0.005 U
1,2-Dichloropropane	mg/kg		--	< 0.05 U	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	< 0.05 U	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	< 0.05 U	--	--	--	--
1,3-Dichloropropane	mg/kg		--	< 0.05 U	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	< 0.05 U	--	--	--	--
2,2-Dichloropropane	mg/kg		--	< 0.05 U	--	--	--	--
2-Butanone	mg/kg		--	< 0.5 U	--	--	--	--
2-Chlorotoluene	mg/kg		--	< 0.05 U	--	--	--	--
2-Hexanone	mg/kg		--	< 0.5 U	--	--	--	--
4-Chlorotoluene	mg/kg		--	< 0.05 U	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	< 0.5 U	--	--	--	--
Acetone	mg/kg		--	< 0.5 U	--	--	--	--
Bromobenzene	mg/kg		--	< 0.05 U	--	--	--	--
Bromodichloromethane	mg/kg		--	< 0.05 U	--	--	--	--
Bromoform	mg/kg		--	< 0.05 U	--	--	--	--
Bromomethane	mg/kg		--	< 0.5 U	--	--	--	--
Carbon Tetrachloride	mg/kg		--	< 0.05 U	--	--	--	--
Chlorobenzene	mg/kg		--	< 0.05 U	--	--	--	--
Chloroethane	mg/kg		--	< 0.5 U	--	--	--	--
Chloroform	mg/kg		--	< 0.05 U	--	--	--	--
Chloromethane	mg/kg		--	< 0.5 U	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	< 0.05 U	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	< 0.05 U	--	--	--	--
Dibromochloromethane	mg/kg		--	< 0.05 U	--	--	--	--
Dibromomethane	mg/kg		--	< 0.05 U	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	< 0.5 U	--	--	--	--
Isopropylbenzene	mg/kg		--	< 0.05 U	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	< 0.05 U	--	--	--	< 0.005 U
Methylene Chloride	mg/kg	0.02	--	< 0.5 U	--	--	--	--
n-Hexane	mg/kg		--	< 0.25 U	--	--	--	--
n-Propylbenzene	mg/kg		--	< 0.05 U	--	--	--	--
p-Isopropyltoluene	mg/kg		--	< 0.05 U	--	--	--	--
sec-Butylbenzene	mg/kg		--	< 0.05 U	--	--	--	--
Styrene	mg/kg		--	< 0.05 U	--	--	--	--
tert-Butylbenzene	mg/kg		--	< 0.05 U	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	< 0.025 U	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	< 0.05 U	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	< 0.05 U	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	< 0.02 U	--	--	--	--
Trichlorofluoromethane	mg/kg		--	< 0.5 U	--	--	--	--
Vinyl Chloride	mg/kg		--	< 0.05 U	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-11		MW-12	MW-13	MW-14
			06/10/2019	06/10/2019	06/10/2019	06/11/2019	06/11/2019
			MW-11-6	MW-11-13	MW-12-15	MW-13-12.5	MW-14-12.5
			6 ft	13 ft	15 ft	12.5 ft	12.5 ft
Analyte	Unit	MTCA Method A Cleanup Level					
Total Petroleum Hydrocarbons (TPHs)							
Gasoline-Range Organics	mg/kg	30	2600	< 5 U	< 5 U	< 5 U	< 5 U
Diesel-Range Organics	mg/kg	2000	240 X	--	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	< 250 U	--	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	240 X	--	< 250 U	< 250 U	< 250 U
BTEX							
Benzene	mg/kg	0.03	0.63	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Toluene	mg/kg	7	4.1	0.031	< 0.02 U	< 0.02 U	< 0.02 U
Ethylbenzene	mg/kg	6	38	0.025	< 0.02 U	< 0.02 U	< 0.02 U
Total Xylenes	mg/kg	9	140	0.12	< 0.06 U	< 0.06 U	< 0.06 U
Metals							
Lead	mg/kg	250	8.76	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)							
Naphthalene	mg/kg	5	7.4	--	--	--	--
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)							
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	mg/kg	2	--	--	< 0.05 U	< 0.05 U	< 0.05 U
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	< 0.05 U	< 0.05 U	< 0.05 U
1,1-Dichloroethene	mg/kg		--	--	< 0.05 U	< 0.05 U	< 0.05 U
1,1-Dichloropropene	mg/kg		--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	< 0.005 U	--	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		< 0.005 U	--	< 0.05 U	< 0.05 U	< 0.05 U
1,2-Dichloropropane	mg/kg		--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--
Chloroethane	mg/kg		--	--	< 0.5 U	< 0.5 U	< 0.5 U
Chloroform	mg/kg		--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	< 0.05 U	< 0.05 U	< 0.05 U
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	< 0.005 U	--	--	--	--
Methylene Chloride	mg/kg	0.02	--	--	< 0.5 U	< 0.5 U	< 0.5 U
n-Hexane	mg/kg		--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	< 0.025 U	< 0.025 U	< 0.025 U
trans-1,2-Dichloroethene	mg/kg		--	--	< 0.05 U	< 0.05 U	< 0.05 U
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	< 0.02 U	< 0.02 U	< 0.02 U
Trichlorofluoromethane	mg/kg		--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	< 0.05 U	< 0.05 U	< 0.05 U

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-15					MW-16
			06/12/2019	06/12/2019	06/12/2019	06/12/2019	06/12/2019	06/14/2019
			MW-15-7.5	MW-15-10.5	MW-15-13	MW-15-17.5	MW-15-25	MW-16-7.5
			7.5 ft	10.5 ft	13 ft	17.5 ft	25 ft	7.5 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 5 U	6500 J	3400	200	< 5 U	< 5 U
Diesel-Range Organics	mg/kg	2000	< 50 U	1500 X	990 X	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	< 250 U	590	370	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	< 250 U	2090 X	1360 X	< 250 U	< 250 U	< 250 U
BTEX								
Benzene	mg/kg	0.03	--	--	0.7 J	0.22	0.026	--
Toluene	mg/kg	7	--	--	4.7 J	0.096	< 0.005 U	--
Ethylbenzene	mg/kg	6	--	--	10 J	0.19	< 0.005 UJ	--
Total Xylenes	mg/kg	9	--	--	64 J	1.19	< 0.01 U	--
Metals								
Lead	mg/kg	250	--	1.88	1.93	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	< 0.005 UJ	6.3 J	4.9	--	--	--
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		< 0.005 U	< 0.005 U	< 0.005 U	--	--	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	< 0.005 U	< 0.005 U	< 0.005 U	--	--	--
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-17	MW-18	MW-19	MW-20		
			06/14/2019	07/15/2019	07/16/2019	07/30/2020	07/30/2020	07/30/2020
			MW-17-8.5	MW-18-10	MW-19-8.5	MW-20-5'	MW-20-8'	MW-20-13'
			8.5 ft	10 ft	8.5 ft	5 ft	8 ft	13 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel-Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
BTEX								
Benzene	mg/kg	0.03	--	< 0.02 U	< 0.02 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	--	< 0.02 U	< 0.02 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	--	< 0.02 U	< 0.02 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	--	< 0.06 U	< 0.06 U	< 0.1 U	< 0.1 U	< 0.1 U
Metals								
Lead	mg/kg	250	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	--	--	--	< 0.05 U	0.065	< 0.05 U
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	< 0.05 U	< 0.05 U	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	< 0.05 U	< 0.05 U	--	--	--
1,1-Dichloroethene	mg/kg		--	< 0.05 U	< 0.05 U	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	< 0.05 U	< 0.05 U	--	--	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	< 0.5 U	< 0.5 U	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	< 0.05 U	< 0.05 U	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.02	--	< 0.5 U	< 0.5 U	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	< 0.025 U	< 0.025 U	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	< 0.05 U	< 0.05 U	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	< 0.02 U	< 0.02 U	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	< 0.05 U	< 0.05 U	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-21				MW-22	
			07/30/2020	07/28/2020	07/28/2020	07/28/2020	07/30/2020	07/30/2020
			MW-21A-2.5	MW-21-5	MW-21-10	MW-21-17.5	MW-22A-2.5	MW-22B-5'
			2.5 ft	5 ft	10 ft	17.5 ft	2.5 ft	5 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel-Range Organics	mg/kg	2000	90 X	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	360	< 250 U	< 250 U	< 250 U	< 250 U	680
Diesel and Oil Extended-Range Organics	mg/kg	2000	450 X	< 250 U	< 250 U	< 250 U	< 250 U	680
BTEX								
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Metals								
Lead	mg/kg	250	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	0.097	< 0.05 U	< 0.05 U	< 0.05 U
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	--	--	--	--	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-22				MW-23	
			07/28/2020	07/28/2020	07/28/2020	07/28/2020	07/28/2020	07/28/2020
			MW-22-10	MW-22-12.5	MW-22-16	MW-22-25	MW-23-8	MW-23-12.5
			10 ft	12.5 ft	16 ft	25 ft	8 ft	12.5 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel-Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
BTEX								
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	0.069	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	0.068	0.12	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	0.11	0.63	< 0.1 U	< 0.1 U	< 0.1 U
Metals								
Lead	mg/kg	250	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	--	--	--	--	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample Name Depth Below Ground Surface			MW-23		MW-24	MW-25	MW-26	MW-27
			07/28/2020	07/28/2020	07/29/2020	07/30/2020	07/29/2020	07/29/2020
			MW-23-18	MW-23-25	MW-24-10.5	MW-25-8'	MW-26-12.5	MW-27-10.5
			18 ft	25 ft	10.5 ft	8 ft	12.5 ft	10.5 ft
Analyte	Unit	MTCA Method A Cleanup Level						
Total Petroleum Hydrocarbons (TPHs)								
Gasoline-Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel-Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
BTEX								
Benzene	mg/kg	0.03	0.44	0.047	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
Metals								
Lead	mg/kg	250	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)								
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total cPAHs TEQ	mg/kg	0.1	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)								
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	2	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethane	mg/kg		--	--	--	--	--	--
1,1-Dichloroethene	mg/kg		--	--	--	--	--	--
1,1-Dichloropropene	mg/kg		--	--	--	--	--	--
1,2,3-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,3-Trichloropropane	mg/kg		--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg		--	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	--	--	--
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,2-Dichloroethane (EDC)	mg/kg		--	--	--	--	--	--
1,2-Dichloropropane	mg/kg		--	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg		--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg		--	--	--	--	--	--
1,3-Dichloropropane	mg/kg		--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg		--	--	--	--	--	--
2,2-Dichloropropane	mg/kg		--	--	--	--	--	--
2-Butanone	mg/kg		--	--	--	--	--	--
2-Chlorotoluene	mg/kg		--	--	--	--	--	--
2-Hexanone	mg/kg		--	--	--	--	--	--
4-Chlorotoluene	mg/kg		--	--	--	--	--	--
4-Methyl-2-pentanone	mg/kg		--	--	--	--	--	--
Acetone	mg/kg		--	--	--	--	--	--
Bromobenzene	mg/kg		--	--	--	--	--	--
Bromodichloromethane	mg/kg		--	--	--	--	--	--
Bromoform	mg/kg		--	--	--	--	--	--
Bromomethane	mg/kg		--	--	--	--	--	--
Carbon Tetrachloride	mg/kg		--	--	--	--	--	--
Chlorobenzene	mg/kg		--	--	--	--	--	--
Chloroethane	mg/kg		--	--	--	--	--	--
Chloroform	mg/kg		--	--	--	--	--	--
Chloromethane	mg/kg		--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Dibromochloromethane	mg/kg		--	--	--	--	--	--
Dibromomethane	mg/kg		--	--	--	--	--	--
Dichlorodifluoromethane	mg/kg		--	--	--	--	--	--
Isopropylbenzene	mg/kg		--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	--	--	--
Methylene Chloride	mg/kg	0.02	--	--	--	--	--	--
n-Hexane	mg/kg		--	--	--	--	--	--
n-Propylbenzene	mg/kg		--	--	--	--	--	--
p-Isopropyltoluene	mg/kg		--	--	--	--	--	--
sec-Butylbenzene	mg/kg		--	--	--	--	--	--
Styrene	mg/kg		--	--	--	--	--	--
tert-Butylbenzene	mg/kg		--	--	--	--	--	--
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg		--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg		--	--	--	--	--	--
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	--	--	--
Trichlorofluoromethane	mg/kg		--	--	--	--	--	--
Vinyl Chloride	mg/kg		--	--	--	--	--	--

Notes:
mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act
Bold - Analyte detected
Blue Shaded - Detected result exceeded screening level
CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
X - Chromatographic pattern does not match fuel standard used for quantitation
"--" – Sample not analyzed for this analyte.

Table 1. Soil Analytical Results
Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

			Location	GP-05		GP-06
			Date	11/10/2020	11/10/2020	11/10/2020
			Sample Name	GP-05-1.25	GP-05-6	GP-06-2.5
			Depth Below Ground Surface	1.25 ft	6 ft	2.5 ft
Analyte	Unit	MTCA Method A Cleanup Level				
Total Petroleum Hydrocarbons (TPHs)						
Gasoline-Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	
Diesel-Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	
Motor Oil-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	
Diesel and Oil Extended-Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	
BTEX						
Benzene	mg/kg	0.03	< 0.02 U	< 0.02 U	< 0.02 U	
Toluene	mg/kg	7	< 0.02 U	< 0.02 U	< 0.02 U	
Ethylbenzene	mg/kg	6	< 0.02 U	< 0.02 U	< 0.02 U	
Total Xylenes	mg/kg	9	< 0.06 U	< 0.06 U	< 0.06 U	
Metals						
Lead	mg/kg	250	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs)						
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	
Total cPAHs TEQ	mg/kg	0.1	--	--	--	
Polychlorinated Biphenyls (PCBs)						
Total PCBs (Sum of Aroclors)	mg/kg	1	--	--	--	
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	mg/kg	2	--	--	--	
1,1,2,2-Tetrachloroethane	mg/kg		--	--	--	
1,1,2-Trichloroethane	mg/kg		--	--	--	
1,1-Dichloroethane	mg/kg		--	--	--	
1,1-Dichloroethene	mg/kg		--	--	--	
1,1-Dichloropropene	mg/kg		--	--	--	
1,2,3-Trichlorobenzene	mg/kg		--	--	--	
1,2,3-Trichloropropane	mg/kg		--	--	--	
1,2,4-Trichlorobenzene	mg/kg		--	--	--	
1,2,4-Trimethylbenzene	mg/kg		--	--	--	
1,2-Dibromo-3-chloropropane	mg/kg		--	--	--	
1,2-Dibromoethane (EDB)	mg/kg	0.005	--	--	--	
1,2-Dichlorobenzene	mg/kg		--	--	--	
1,2-Dichloroethane (EDC)	mg/kg		--	--	--	
1,2-Dichloropropane	mg/kg		--	--	--	
1,3,5-Trimethylbenzene	mg/kg		--	--	--	
1,3-Dichlorobenzene	mg/kg		--	--	--	
1,3-Dichloropropane	mg/kg		--	--	--	
1,4-Dichlorobenzene	mg/kg		--	--	--	
2,2-Dichloropropane	mg/kg		--	--	--	
2-Butanone	mg/kg		--	--	--	
2-Chlorotoluene	mg/kg		--	--	--	
2-Hexanone	mg/kg		--	--	--	
4-Chlorotoluene	mg/kg		--	--	--	
4-Methyl-2-pentanone	mg/kg		--	--	--	
Acetone	mg/kg		--	--	--	
Bromobenzene	mg/kg		--	--	--	
Bromodichloromethane	mg/kg		--	--	--	
Bromoform	mg/kg		--	--	--	
Bromomethane	mg/kg		--	--	--	
Carbon Tetrachloride	mg/kg		--	--	--	
Chlorobenzene	mg/kg		--	--	--	
Chloroethane	mg/kg		--	--	--	
Chloroform	mg/kg		--	--	--	
Chloromethane	mg/kg		--	--	--	
cis-1,2-Dichloroethene (cDCE)	mg/kg		--	--	--	
cis-1,3-Dichloropropene	mg/kg		--	--	--	
Dibromochloromethane	mg/kg		--	--	--	
Dibromomethane	mg/kg		--	--	--	
Dichlorodifluoromethane	mg/kg		--	--	--	
Isopropylbenzene	mg/kg		--	--	--	
Methyl tert-butyl ether (MTBE)	mg/kg	0.1	--	--	--	
Methylene Chloride	mg/kg	0.02	--	--	--	
n-Hexane	mg/kg		--	--	--	
n-Propylbenzene	mg/kg		--	--	--	
p-Isopropyltoluene	mg/kg		--	--	--	
sec-Butylbenzene	mg/kg		--	--	--	
Styrene	mg/kg		--	--	--	
tert-Butylbenzene	mg/kg		--	--	--	
Tetrachloroethene (PCE)	mg/kg	0.05	--	--	--	
trans-1,2-Dichloroethene	mg/kg		--	--	--	
trans-1,3-Dichloropropene	mg/kg		--	--	--	
Trichloroethene (TCE)	mg/kg	0.03	--	--	--	
Trichlorofluoromethane	mg/kg		--	--	--	
Vinyl Chloride	mg/kg		--	--	--	

Notes:

mg/kg - milligrams per kilogram, ft = feet; MTCA = Model Toxics Control Act

Bold - Analyte detected

Blue Shaded - Detected result exceeded screening level

CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

"—" – Sample not analyzed for this analyte.

Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-1													
			MW-1-39080	MW-1-39128	MW-1-39178	MW-1-39291	MW-1-39356	MW-1-39457	MW-1-39639	MW-1-39819	MW-1-40007	MW-1-40388	MW-1-40563	MW-1-41220	MW-1-41394	MW-1-41571
			12/29/2006	02/15/2007	04/06/2007	07/28/2007	10/01/2007	01/10/2008	07/10/2008	01/06/2009	07/13/2009	07/29/2010	01/20/2011	11/07/2012	04/30/2013	10/24/2013
Analyte	Unit	MTCA Method A Cleanup Level														
TPHs																
Gasoline-Range Organics	ug/L	800	42100	41200	30200	5850	23900	73000	800	< 100 U	7500	--	--	16700	7300	445
Diesel-Range Organics	ug/L	500	< 255 U	< 269 U	< 258 U	< 258 U	1540 X	< 243 U	1400	190	2800 X	320 X	2550	1460	1600	898
Motor Oil-Range Organics	ug/L	500	< 510 U	< 538 U	< 515 U	< 515 U	< 105 U	< 485 U	< 300 U	< 380 U	< 100 U	110	725	163	818	172
BTEX																
Benzene	ug/L	5	9190	9230	7450	2400	6270	16500	280	1	1200	32	13400	4880	1590	28.8
Toluene	ug/L	1000	2140	1840	732	32.4	196	4010	13	< 1 U	60	2.9	3950	361	100	< 1 U
Ethylbenzene	ug/L	700	1090	938	718	131	653	1610	2	< 1 U	220	17	1700	525	374	7.91
Total Xylenes	ug/L	1000	4100	3710	2310	190	1340	6790	33	< 1 U	470	48	7240	1530	445	7.82
Metals																
Lead	ug/L	15	--	--	--	--	--	--	--	--	3.33	--	--	--	--	--
VOCs																
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	--	--	--	< 0.01 U	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--	< 0.29 U	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	< 1 U	--	--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Ethyl t-butyl ether (ETBE)	ug/L		--	< 1 U	--	--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	< 5 U	--	--	--	--	--	< 1 U	--	--	< 1 U	--	--	--
t-Amyl methyl ether (TAME)	ug/L		--	< 1 U	--	--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
t-Butyl alcohol (TBA)	ug/L		--	54.6	--	--	--	--	--	< 10 U	--	--	132	--	--	--

Notes

MTCA = Model Toxics Control Act; ug/L = micrograms per liter

Bold = analyte detected

Blue = analyte detected at a concentration greater than the cleanup level

Cleanup levels with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

U = nondetect

J = esitmated

UJ = nondetect, estimated

X = chromatographic pattern did not match fuel standard.

"—" – Sample not analyzed for this analyte.

Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-2													
			MW-2-39080	MW-2-39128	MW-2-39178	MW-2-39291	MW-2-39356	MW-2-39457	MW-2-39639	MW-2-39819	MW-2-40007	MW-2-40388	MW-2-40563	MW-2-41220	MW-2-41394	MW-2-41571
			12/29/2006	02/15/2007	04/06/2007	07/28/2007	10/01/2007	01/10/2008	07/10/2008	01/06/2009	07/13/2009	07/29/2010	01/20/2011	11/07/2012	04/30/2013	10/24/2013
Analyte	Unit	MTCA Method A Cleanup Level														
TPHs																
Gasoline-Range Organics	ug/L	800	2640	249	180	3200	3980	5000	540	9200	320	--	--	4070	< 100 U	2350
Diesel-Range Organics	ug/L	500	< 253 U	< 278 U	< 258 U	< 255 U	1080 X	< 243 U	< 500 U	< 100 U	210 X	200 X	689	757	261	527
Motor Oil-Range Organics	ug/L	500	< 505 U	< 556 U	< 515 U	< 510 U	< 105 U	< 485 U	< 200 U	< 100 U	< 100 U	< 100 U	402	< 94.3 U	198	181
BTEX																
Benzene	ug/L	5	21.7	2.06	1.83	66.1	175	214	4.9	390	3.8	2.1	25.1	228	< 1 U	61.3
Toluene	ug/L	1000	6.75	< 0.5 U	0.518	7.86	13.7	9.85	< 1 U	16	< 1 U	< 1 U	< 1 U	4.99	< 1 U	1.03
Ethylbenzene	ug/L	700	55.1	4.36	2.61	137	331	502	9.4	840	3.3	< 1 U	54.4	125	< 1 U	6.49
Total Xylenes	ug/L	1000	9.91	< 1 U	< 1 U	20.4	47.4	71.0	< 1 U	62.0	< 1 U	< 1 U	5.42	40.3	< 3 U	3.52
Metals																
Lead	ug/L	15	--	--	--	--	--	--	--	--	< 1 U	--	--	--	--	--
VOCs																
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	--	--	--	< 0.01 U	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--	< 0.5 U	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	< 1 U	--	--	--	--	--	< 20 U	--	--	< 1 U	--	--	--
Ethyl t-butyl ether (ETBE)	ug/L		--	< 1 U	--	--	--	--	--	< 20 U	--	--	< 1 U	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	< 5 U	--	--	--	--	--	< 10 U	--	--	< 1 U	--	--	--
t-Amyl methyl ether (TAME)	ug/L		--	< 1 U	--	--	--	--	--	< 20 U	--	--	< 1 U	--	--	--
t-Butyl alcohol (TBA)	ug/L		--	< 50 U	--	--	--	--	--	< 100 U	--	--	< 20 U	--	--	--

Notes

MTCA = Model Toxics Control Act; ug/L = micrograms per liter

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Cleanup levels with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

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J = esitmated

UJ = nondetect, estimated

X = chromatographic pattern did not match fuel standard.

"—" – Sample not analyzed for this analyte.

Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-3						MW-4			MW-5		
			MW-3-39080	MW-3-39128	MW-3-39178	MW-3-39291	MW-3-39356	MW-3-40563	MW-4-39080	MW-4-39128	MW-4-40563	MW-5-39080	MW-5-39128	MW-5-40563
			12/29/2006	02/15/2007	04/06/2007	07/28/2007	10/01/2007	01/20/2011	12/29/2006	02/15/2007	01/20/2011	12/29/2006	02/15/2007	01/20/2011
Analyte	Unit	MTCA Method A Cleanup Level												
TPHs														
Gasoline-Range Organics	ug/L	800	171000	263000	214000	248000	252000	87800	207000	253000	313000	122000	771000	327000
Diesel-Range Organics	ug/L	500	608	2580 X	867 X	8340	185000 X	--	1810	72100 X	--	603	49200 X	--
Motor Oil-Range Organics	ug/L	500	< 510 U	< 2750 U	< 495 U	< 5.05 U	< 10500 U	7690	< 510 U	< 50000 U	< 9520 U	< 515 U	< 5000 U	109005
BTEX														
Benzene	ug/L	5	28500	29200	26600	28600	29300	12100	32400	31500	12800	7220	12800	3710
Toluene	ug/L	1000	29200	37400	37500	37400	35200	23200	39700	40500	28700	24400	43600	16200
Ethylbenzene	ug/L	700	2950	3140	2850	2810	3260	3020	3200	2990	3180	2280	6000	2690
Total Xylenes	ug/L	1000	15900	18600	16800	12800	19300	19700	18800	18100	21200	13200	40700	15800
Metals														
Lead	ug/L	15	--	--	--	--	--	--	--	--	--	--	--	--
VOCs														
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	< 1 U	--	--	< 1 U	--	--	< 1 U
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	< 100 U	--	--	--	1.24	--	< 100 U	< 1.00 U	--	< 100 U	< 1 U
Ethyl t-butyl ether (ETBE)	ug/L		--	< 100 U	--	--	--	< 1 U	--	< 100 U	< 1 U	--	< 100 U	< 1 U
Methyl tert-butyl ether (MTBE)	ug/L	20	--	< 500 U	--	--	--	--	--	< 500 U	--	--	< 500 U	--
t-Amyl methyl ether (TAME)	ug/L		--	< 100 U	--	--	--	< 1 U	--	< 100 U	< 1 U	--	< 100 U	< 1 U
t-Butyl alcohol (TBA)	ug/L		--	< 5000 U	--	--	--	101	--	< 5000 U	61.8	--	< 5000 U	45.4

Notes

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J = esitmated

UJ = nondetect, estimated

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Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-6										
			MW-6-39291	MW-6-39356	MW-6-39457	MW-6-39639	MW-6-39819	MW-6-40007	MW-6-40388	MW-6-40563	MW-6-41220	MW-6-41394	MW-6-41571
			07/28/2007	10/01/2007	01/10/2008	07/10/2008	01/06/2009	07/13/2009	07/29/2010	01/20/2011	11/07/2012	04/30/2013	10/24/2013
Analyte	Unit	MTCA Method A Cleanup Level											
TPHs													
Gasoline-Range Organics	ug/L	800	52.4	< 250 U	< 50 U	< 50 U	< 100 U	--	--	201	< 100 U	< 100 U	< 100 U
Diesel-Range Organics	ug/L	500	< 253 U	< 105 U	< 250 U	< 500 U	< 100 U	--	< 100 U	--	< 94.3 U	97.8	124
Motor Oil-Range Organics	ug/L	500	< 505 U	< 105 U	< 500 U	< 200 U	< 100 U	--	190	472	< 94.3 U	< 93.5 U	123
BTEX													
Benzene	ug/L	5	< 0.5 U	< 1 U	< 0.5 U	< 1 U	< 0.5 U	--	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
Toluene	ug/L	1000	1.25	< 1 U	< 0.5 U	< 1 U	< 1 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	ug/L	700	< 0.5 U	< 1 U	< 0.5 U	< 1 U	< 1 U	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	1000	< 1 U	< 3 U	< 3 U	< 1 U	< 1 U	--	< 1 U	< 3 U	< 3 U	< 3 U	< 2 U
Metals													
Lead	ug/L	15	--	--	--	--	--	< 1 U	--	--	--	--	--
VOCs													
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	--	--	< 1 U	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Ethyl t-butyl ether (ETBE)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	--	--	< 1 U	--	--	--	--	--	--
t-Amyl methyl ether (TAME)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
t-Butyl alcohol (TBA)	ug/L		--	--	--	--	< 10 U	--	--	< 20 U	--	--	--

Notes

MTCA = Model Toxics Control Act; ug/L = micrograms per liter

Bold = analyte detected

Blue = analyte detected at a concentration greater than the cleanup level

Cleanup levels with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

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J = esitmated

UJ = nondetect, estimated

X = chromatographic pattern did not match fuel standard.

"—" – Sample not analyzed for this analyte.

Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-7										
			MW-7-39291	MW-7-39356	MW-7-39457	MW-7-39639	MW-7-39819	MW-7-40007	MW-7-40388	MW-7-40563	MW-7-41220	MW-7-41394	MW-7-41571
			07/28/2007	10/01/2007	01/10/2008	07/10/2008	01/06/2009	07/13/2009	07/29/2010	01/20/2011	11/07/2012	04/30/2013	10/24/2013
Analyte	Unit	MTCA Method A Cleanup Level											
TPHs													
Gasoline-Range Organics	ug/L	800	< 50 U	< 250 U	51.2	< 50 U	< 100 U	--	--	119	< 100 U	< 100 U	< 100 U
Diesel-Range Organics	ug/L	500	< 253 U	< 111 U	< 250 U	< 500 U	< 100 U	--	< 100 U	--	94.3	115	< 93.5 U
Motor Oil-Range Organics	ug/L	500	< 495 U	< 111 U	< 500 U	< 200 U	< 100 U	--	< 100 U	174	< 94.3 U	< 93.5 U	106
BTEX													
Benzene	ug/L	5	< 0.5 U	1.78	68.4	< 1 U	< 0.5 U	2.7	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U
Toluene	ug/L	1000	< 0.5 U	< 1 U	1.26	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	ug/L	700	< 0.5 U	< 1 U	79.7	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	1000	< 1 U	< 3 U	110	< 1 U	< 1 U	< 1 U	< 1 U	< 3 U	< 3 U	< 3 U	< 2 U
Metals													
Lead	ug/L	15	--	--	--	--	--	< 1 U	--	--	--	--	--
VOCs													
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	--	--	< 1 U	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Ethyl t-butyl ether (ETBE)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	--	--	< 1 U	--	--	--	--	--	--
t-Amyl methyl ether (TAME)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
t-Butyl alcohol (TBA)	ug/L		--	--	--	--	< 10 U	--	--	< 20 U	--	--	--

Notes

MTCA = Model Toxics Control Act; ug/L = micrograms per liter

Bold = analyte detected

Blue = analyte detected at a concentration greater than the cleanup level

Cleanup levels with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

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J = esitmated

UJ = nondetect, estimated

X = chromatographic pattern did not match fuel standard.

"—" – Sample not analyzed for this analyte.

Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-8							
			MW-8-39291	MW-8-39356	MW-8-39457	MW-8-39819	MW-8-40388	MW-8-40563	MW-8-41220	MW-8-41394
			07/28/2007	10/01/2007	01/10/2008	01/06/2009	07/29/2010	01/20/2011	11/07/2012	04/30/2013
Analyte	Unit	MTCA Method A Cleanup Level								
TPHs										
Gasoline-Range Organics	ug/L	800	266000	181000	202000	22000	--	--	75300	103000
Diesel-Range Organics	ug/L	500	8580	6540 X	9190 X	6900	5300 X	6570	3160	3820
Motor Oil-Range Organics	ug/L	500	< 5210 U	< 1110 U	< 4850 U	440	2000 X	1550	< 94.3 U	309
BTEX										
Benzene	ug/L	5	20500	18000	13400	2700	18000	13800	7630	8830
Toluene	ug/L	1000	43600	32000	29600	6300	40000	31500	15200	29400
Ethylbenzene	ug/L	700	3550	2250	2200	390	17000	3290	1140	1950
Total Xylenes	ug/L	1000	23000	14900	14000	4300	110000	21900	6120	11200
Metals										
Lead	ug/L	15	--	--	--	--	--	--	--	--
VOCs										
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	< 1 U	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	--	--	< 40 U	--	< 1 U	--	--
Ethyl t-butyl ether (ETBE)	ug/L		--	--	--	< 40 U	--	< 1 U	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	--	< 20 U	--	--	--	--
t-Amyl methyl ether (TAME)	ug/L		--	--	--	< 40 U	--	< 1 U	--	--
t-Butyl alcohol (TBA)	ug/L		--	--	--	< 200 U	--	128	--	--

Notes

MTCA = Model Toxics Control Act; ug/L = micrograms per liter

Bold = analyte detected

Blue = analyte detected at a concentration greater than the cleanup level

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J = esitmated

UJ = nondetect, estimated

X = chromatographic pattern did not match fuel standard.

"—" – Sample not analyzed for this analyte.

Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-9										
			MW-9-39291	MW-9-39356	MW-9-39457	MW-9-39639	MW-9-39819	MW-9-40007	MW-9-40388	MW-9-40563	MW-9-41220	MW-9-41394	MW-9-41571
			07/28/2007	10/01/2007	01/10/2008	07/10/2008	01/06/2009	07/13/2009	07/29/2010	01/20/2011	11/07/2012	04/30/2013	10/24/2013
Analyte	Unit	MTCA Method A Cleanup Level											
TPHs													
Gasoline-Range Organics	ug/L	800	< 50 U	299	< 50 U	< 50 U	< 100 U	--	--	--	< 100 U	< 100 U	< 100 U
Diesel-Range Organics	ug/L	500	< 248 U	174 X	< 238 U	< 500 U	< 100 U	--	< 100 U	141	< 94.3 U	< 93.5 U	< 94.3 U
Motor Oil-Range Organics	ug/L	500	< 495 U	< 111 U	< 476 U	< 1000 U	< 100 U	--	< 100 U	463	< 94.3 U	< 93.5 U	< 94.3 U
BTEX													
Benzene	ug/L	5	< 0.5 U	5.52	< 0.5 U	< 1 U	< 0.5 U	< 0.5 U	< 0.5 U	< 1 U	< 1 U	< 1.00 U	< 1.00 U
Toluene	ug/L	1000	< 0.5 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	ug/L	700	< 0.5 U	< 1 U	< 0.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	1000	< 1 U	< 3 U	< 3 U	< 1 U	< 1 U	< 1 U	< 1 U	< 3 U	< 3 U	< 3 U	< 2 U
Metals													
Lead	ug/L	15	--	--	--	--	--	< 1 U	--	--	--	--	--
VOCs													
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Ethyl t-butyl ether (ETBE)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	--	--	< 1 U	--	--	< 1 U	--	--	--
t-Amyl methyl ether (TAME)	ug/L		--	--	--	--	< 2 U	--	--	< 1 U	--	--	--
t-Butyl alcohol (TBA)	ug/L		--	--	--	--	< 10 U	--	--	< 20 U	--	--	--

Notes

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Table 2. Historical Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Sample Date			MW-10											SB-3	SB-4
			MW-10-39291	MW-10-39356	MW-10-39457	MW-10-39639	MW-10-39819	MW-10-40007	MW-10-40388	MW-10-40563	MW-10-41220	MW-10-41394	MW-10-41571	SB-3-40308	SB-4-40308
			07/28/2007	10/01/2007	01/10/2008	07/10/2008	01/06/2009	07/13/2009	07/29/2010	01/20/2011	11/07/2012	04/30/2013	10/24/2013	05/10/2010	05/10/2010
Analyte	Unit	MTCA Method A Cleanup Level													
TPHs															
Gasoline-Range Organics	ug/L	800	6570	27100	11400	1400	29000	4800	--	--	17300	590	6890	360	180
Diesel-Range Organics	ug/L	500	307 X	1820 X	< 248 U	< 500 U	120	< 100 U	< 100 U	707	2710	346	2080	1600 X	2400 X
Motor Oil-Range Organics	ug/L	500	< 505 U	< 556 U	< 495 U	< 1000 U	< 100 U	< 100 U	< 100 U	394	< 94.3 U	148	109	< 100 U	< 100 U
BTEX															
Benzene	ug/L	5	299	1510	316	1400	4800	1600	240	938	5920	48.1	5630	170	< 0.5 U
Toluene	ug/L	1000	179	1220	237	1200	1400	260	9.9	16.6	78.3	1.22	188	< 1 U	< 1 U
Ethylbenzene	ug/L	700	237	1210	842	710	1800	190	45	108	594	15.1	582	< 1 U	< 1 U
Total Xylenes	ug/L	1000	615	2650	604	2310	5100	1000	89	115	1060	21.4	1230	< 1 U	< 1 U
Metals															
Lead	ug/L	15	--	--	--	--	--	1.02	--	--	--	--	--	--	--
VOCs															
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	< 0.01 U	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	< 1.5 U	--	--	--	--	--	--	--
Diisopropyl ether (DIPE)	ug/L		--	--	--	--	< 20 U	--	--	< 1 U	--	--	--	--	--
Ethyl t-butyl ether (ETBE)	ug/L		--	--	--	--	< 20 U	--	--	< 1 U	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	--	--	< 10 U	--	--	< 1 U	--	--	--	--	--
t-Amyl methyl ether (TAME)	ug/L		--	--	--	--	< 20 U	--	--	< 1 U	--	--	--	--	--
t-Butyl alcohol (TBA)	ug/L		--	--	--	--	< 100 U	--	--	< 20 U	--	--	--	--	--

Notes

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"—" – Sample not analyzed for this analyte.

Table 3. Remedial Investigation Groundwater Elevations

Project No. 180357, Lynnwood, Washington

Monitoring Well	TOC Elevation	Date	DTNAPL	DTW	LNAPL Thickness (feet)	Water Table (ft BTOC) ¹	Groundwater Elevation
MW-1	451.74	7/31/2019	--	12.86	--	12.86	438.88
		11/19/2019	--	13.81	--	13.81	437.93
		8/17/2020	--	11.82	--	11.82	439.92
		11/16/2020	--	12.85	--	12.85	438.89
MW-2	450.59	7/31/2019	--	11.51	--	11.51	439.08
		11/19/2019	--	11.76	--	11.76	438.83
		8/17/2020	--	10.77	--	10.77	439.82
		11/16/2020	--	11.3	--	11.30	439.29
MW-3	451.69	7/31/2019	10.45	10.75	0.3	10.52	441.17
		11/19/2019	11.62	12.00	0.38	11.71	439.98
		8/17/2020	9.69	9.94	0.25	9.75	441.94
		11/16/2020	10.93	11.09	0.16	10.97	440.72
MW-4	452.01	7/31/2019	11.22	11.33	0.11	11.25	440.76
		11/19/2019	12.36	12.67	0.31	12.43	439.58
		8/17/2020	--	10.41	--	10.41	441.60
		11/16/2020	11.69	11.71	0.02	11.69	440.32
MW-5	451.38	7/31/2019	9.87	10.69	0.82	10.07	441.31
		11/19/2019	11.37	11.73	0.36	11.46	439.92
		8/17/2020	9.23	9.33	0.1	9.25	442.13
		11/16/2020	10.56	10.71	0.15	10.60	440.78
MW-6	449.4	7/31/2019	--	9.01	--	9.01	440.39
		11/19/2019	--	9.10	--	9.10	440.30
		8/17/2020	--	8.44	--	8.44	440.96
		11/16/2020	--	8.62	--	8.62	440.78
MW-7	450.14	7/31/2019	--	8.29	--	8.29	441.85
		11/19/2019	--	9.12	--	9.12	441.02
		8/17/2020	--	7.79	--	7.79	442.35
		11/16/2020	--	8.4	--	8.40	441.74
MW-8	451.31	7/31/2019	9.41	9.92	0.51	9.53	441.78
		11/19/2019	10.66	11.07	0.41	10.76	440.55
		8/17/2020	--	8.84	--	8.84	442.47
		11/16/2020	9.89	10.02	0.13	9.92	441.39
MW-9	451.75	7/31/2019	--	11.9	--	11.90	439.85
		11/19/2019	--	13.25	--	13.25	438.50
		8/17/2020	--	10.87	--	10.87	440.88
		11/16/2020	--	12.37	--	12.37	439.38
MW-10	451.34	7/31/2019	--	13.53	--	13.53	437.81
		11/20/2019	--	13.99	--	13.99	437.35
		8/17/2020	--	12.59	--	12.59	438.75
		11/16/2020	--	13.35	--	13.35	437.99
MW-11	450.81	7/31/2019	--	9.81	--	9.81	441.00
		11/19/2019	--	10.83	--	10.83	439.98
		8/17/2020	--	9.19	--	9.19	441.62
		11/16/2020	--	10.02	--	10.02	440.79
MW-12	449.42	7/31/2019	--	10.93	--	10.93	438.49
		11/19/2019	--	10.87	--	10.87	438.55
		8/17/2020	--	10.26	--	10.26	439.16
		11/16/2020	--	10.52	--	10.52	438.90

Table 3. Remedial Investigation Groundwater Elevations

Project No. 180357, Lynnwood, Washington

Monitoring Well	TOC Elevation	Date	DTNAPL	DTW	LNAPL Thickness (feet)	Water Table (ft BTOC) ¹	Groundwater Elevation
MW-13	450.57	7/31/2019	--	13.67	--	13.67	436.90
		11/19/2019	--	13.83	--	13.83	436.74
		8/17/2020	--	12.76	--	12.76	437.81
		11/16/2020	--	13.28	--	13.28	437.29
MW-14	450.85	7/31/2019	--	14.64	--	14.64	436.21
		11/19/2019	--	14.73	--	14.73	436.12
		8/17/2020	--	13.65	--	13.65	437.20
		11/16/2020	--	14.14	--	14.14	436.71
MW-15	451.16	7/31/2019	12.40	12.42	0.02	12.40	438.76
		11/19/2019	13.97	14.15	0.18	14.01	437.15
		8/17/2020	12.27	12.96	0.69	12.44	438.72
		11/16/2020	13.22	13.88	0.66	13.38	437.78
MW-16	450.6	7/31/2019	--	9.15	--	9.15	441.45
		11/19/2019	--	10.58	--	10.58	440.02
		8/17/2020	--	8.40	--	8.40	442.20
		11/16/2020	--	9.69	--	9.69	440.91
MW-17	450.18	7/31/2019	--	8.47	--	8.47	441.71
		11/19/2019	--	9.70	--	9.70	440.48
		8/17/2020	--	7.90	--	7.90	442.28
		11/16/2020	--	8.83	--	8.83	441.35
MW-18	449.28	7/31/2019	--	12.08	--	12.08	437.20
		11/19/2019	--	12.96	--	12.96	436.32
		8/17/2020	--	11.04	--	11.04	438.24
		11/16/2020	--	12.07	--	12.07	437.21
MW-19	446.02	7/31/2019	--	11.54	--	11.54	434.48
		11/19/2019	--	10.31	--	10.31	435.71
		8/17/2020	--	9.76	--	9.76	436.26
		11/16/2020	--	9.67	--	9.67	436.35
MW-20	450.59	8/17/2020	--	8.54	--	8.54	442.05
		11/16/2020	--	9.32	--	9.32	441.27
MW-21	450.603	8/17/2020	--	11.41	--	11.41	439.19
		11/16/2020	--	10.16	--	10.16	440.44
MW-22	451.254	8/17/2020	--	11.38	--	11.38	439.87
		11/16/2020	--	12.31	--	12.31	438.94
MW-23	451.079	8/17/2020	--	13.16	--	13.16	437.92
		11/16/2020	--	13.90	--	13.90	437.18
MW-24	449.094	8/17/2020	--	12.31	--	12.31	436.78
		11/16/2020	--	12.02	--	12.02	437.07
MW-25	449.701	8/17/2020	--	9.87	--	9.87	439.83
		11/16/2020	--	11.43	--	11.43	438.27
MW-26	449.13	8/17/2020	--	14.92	--	14.92	434.21
		11/16/2020	--	15.73	--	15.73	433.40
MW-27	447.27	8/17/2020	--	DRY	--	--	--
		11/16/2020	--	15.94	--	15.94	431.33
MW-28	--	8/17/2020	--	DRY	--	--	--
		11/16/2020	--	DRY	--	--	--

Notes

TOC = Top of Casing elevation in ft above mean sea level (NAVD88); NAPL = Non-aqueous phase liquid

DTNAPL = Depth to NAPL below TOC (ft); DTW = Depth to water below TOC (ft); BTOC = below TOC

¹ - In wells where NAPL is present, the depth to water table was calculated as

Water Table = DTW + 0.76*(DTNAPL-DTW)

Table 4. Remedial Investigation Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample			CMW-1	CMW-4	MW-1				MW-2				MW-4	MW-6			
			11/17/2020	11/17/2020	08/01/2019	11/20/2019	08/18/2020	11/18/2020	08/01/2019	11/20/2019	08/17/2020	11/17/2020	08/18/2020	07/31/2019	11/20/2019	08/17/2020	11/16/2020
			111720	111720	080119	112019	081820	111820	080119	112019	081720	111720	081820	073119	112019	081720	111620
Analyte	Unit	MTCA Method A Cleanup Level															
Total Petroleum Hydrocarbons (TPHs)																	
Gasoline Range Organics	ug/L	800	< 100 U	< 100 U	24000	44000	14000	31000	1600	4600	770	4100	170000	< 100 U	< 100 U	< 100 U	< 100 U
Diesel Range Organics	ug/L	500	< 50 U	< 50 U	2100 X	3200 X	2100 X	1800 X	790 X	2200 X	660 X	1300 X	4500 X	68 X	< 50 U	170 X	< 50 U
Motor Oil Range Organics	ug/L	500	< 250 U	< 250 U	1000 X	570 X	1100 X	810 X	< 250 U	260 X	310 X	< 250 U	1000 X	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	ug/L	500	< 250 U	< 250 U	3100 X	3770 X	3200 X	2610 X	790 X	2460 X	970 X	1300 X	5500 X	68 X	< 250 U	170 X	< 250 U
BTEX																	
Benzene	ug/L	5	< 0.35 U	< 0.35 U	4200	6700	2200	5600	13	30	4.5	29	6000	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U
Toluene	ug/L	1000	< 1 U	< 1 U	410	1500	180	740	2.2	6.5	< 1 U	7.8	21000	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	ug/L	700	< 1 U	< 1 U	520	860	300	720	6.5	28	2.8	49	2300	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	1000	< 2 U	< 2 U	1650	3680	750	2780	7.4	23.9	2.1	24.4	14100	< 2 U	< 2 U	< 2 U	< 2 U
Metals																	
Lead	ug/L	15	--	--	< 1 UJ	< 1 U	--	--	< 1 UJ	< 1 U	--	--	--	< 1 UJ	< 1 U	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)																	
Naphthalene	ug/L	160	< 1 U	< 1 U	130	210	84	200	33	150	15	150	500	< 1 U	< 1 U	< 1 U	< 1 U
Volatile Organic Compounds (VOCs)																	
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	< 1 U	< 100 U	--	--	< 1 U	< 1 U	--	--	--	< 1 U	< 1 U	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	< 1 U	< 100 U	--	--	< 1 U	< 1 U	--	--	--	< 1 U	< 1 U	--	--
Chloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L		< 2 U	< 2 U	1300	2800	--	--	5.6	19	--	--	--	< 2 U	< 2 U	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	< 1 U	< 100 U	--	--	< 1 U	< 1 U	--	--	--	< 1 U	< 1 U	--	--
Methylene Chloride	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L		< 1 U	< 1 U	350	880	--	--	1.8	4.9	--	--	--	< 1 U	< 1 U	--	--
Tetrachloroethene (PCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes

Bold - Analyte detected

Blue Shaded - Detected result exceeded screening level

CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

"—" – Sample not analyzed for this analyte.

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

ug/L = micrograms per liter

Table 4. Remedial Investigation Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample			MW-7				MW-8	MW-9				MW-10			
			07/31/2019	11/19/2019	08/17/2020	11/17/2020	08/18/2020	08/01/2019	11/20/2019	08/18/2020	11/16/2020	08/01/2019	11/20/2019	08/18/2020	11/17/2020
			073119	111920	081720	111720	081820	080119	112019	081820	111620	080119	112019	081820	111720
Analyte	Unit	MTCA Method A Cleanup Level													
Total Petroleum Hydrocarbons (TPHs)															
Gasoline Range Organics	ug/L	800	< 100 U	< 100 U	< 100 U	< 100 U	130000	< 100 U	560	< 100 U	< 100 U	19000	21000	5100	12000
Diesel Range Organics	ug/L	500	83 X	< 50 U	110 X	< 50 U	3200 X	88 X	290 X	80 X	< 54 U	1900 X	3900 X	1100 X	1400 X
Motor Oil Range Organics	ug/L	500	< 250 U	< 250 U	< 260 U	< 250 U	550 X	< 250 U	< 250 U	< 250 U	< 250 U	260 X	340 X	360 X	< 250 U
Diesel and Oil Extended Range Organics	ug/L	500	83 X	< 250 U	110 X	< 250 U	3750 X	88 X	290 X	80 X	< 250 U	2160 X	4240 X	1460 X	1400 X
BTEX															
Benzene	ug/L	5	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	4800	< 0.35 U	6.4	< 0.35 U	< 0.35 U	2400	2800	490	1800
Toluene	ug/L	1000	< 1 U	2.7	< 1 U	< 1 U	18000	< 1 U	< 1 U	< 1 U	< 1 U	44	< 100 U	< 10 U	31
Ethylbenzene	ug/L	700	< 1 U	1.6	< 1 U	< 1 U	1600	< 1 U	6.6	< 1 U	< 1 U	670	1000	200	630
Total Xylenes	ug/L	1000	< 2 U	8.8	< 2 U	< 2 U	10300	< 2 U	3.3	< 2 U	< 2 U	1102.7	1500	240	620
Metals															
Lead	ug/L	15	< 1 UJ	< 1 U	--	--	--	< 1 UJ	< 1 U	--	--	< 1 UJ	< 1 U	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)															
Naphthalene	ug/L	160	< 1 U	< 1 U	< 1 U	< 1 U	400	< 1 U	< 1 U	< 1 U	< 1 U	160	270	60	220
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	< 1 U	< 1 U	--	--	--	< 1 U	< 1 U	--	--	< 1 U	< 100 U	--	--
1,2-Dichloroethane (EDC)	ug/L	5	< 1 U	< 1 U	--	--	--	< 1 U	< 1 U	--	--	< 1 U	< 100 U	--	--
Chloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes

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ug/L = micrograms per liter

Table 4. Remedial Investigation Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample			MW-11				MW-12				MW-13				MW-14			
			07/31/2019	11/19/2019	08/17/2020	11/17/2020	08/01/2019	11/20/2019	08/17/2020	11/16/2020	07/31/2019	11/20/2019	08/17/2020	11/17/2020	07/31/2019	11/20/2019	08/18/2020	11/18/2020
			073119	111919	081720	111720	080119	112019	081720	111620	073119	112019	081720	111720	073119	112019	081820	111820
Analyte	Unit	MTCA Method A Cleanup Level																
Total Petroleum Hydrocarbons (TPHs)																		
Gasoline Range Organics	ug/L	800	13000	20000	27000	5400	240	540	230	410	1400	1800	420	1200	7500	11000	5000	6400
Diesel Range Organics	ug/L	500	1100 X	2400 X	1600 X	720 X	310 X	370 X	240 X	230 X	530 X	780 X	320 X	490 X	1200 X	1600 X	570 X	780 X
Motor Oil Range Organics	ug/L	500	< 250 U	310 X	260 X	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	260 X	330 X	300 X	< 250 U	290 X
Diesel and Oil Extended Range Organics	ug/L	500	1100 X	2710 X	1860 X	720 X	310 X	370 X	240 X	230 X	530 X	780 X	320 X	750 X	1530 X	1900 X	570 X	1070 X
BTEX																		
Benzene	ug/L	5	320	270	330	160	0.59	1.1	< 0.35 U	0.65	7.5	4	0.75	1.5	2400	2700	1200	2000
Toluene	ug/L	1000	1800	1500	2200	290	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	32	< 100 U	9.8	19
Ethylbenzene	ug/L	700	410	690	790	220	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	130	< 100 U	32	31
Total Xylenes	ug/L	1000	1400	2580	3400	400	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	90	< 200 U	22.9	< 20 U
Metals																		
Lead	ug/L	15	3.49 J	1.85	--	--	< 1 UJ	< 1 U	--	--	< 1 UJ	< 1 U	--	--	< 1 UJ	< 1 U	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)																		
Naphthalene	ug/L	160	42	130	140	110	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	50	< 100 U	31	46
Volatile Organic Compounds (VOCs)																		
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	--	< 1 U	< 100 U	--	--
1,1-Dichloroethane	ug/L		--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	--	< 1 U	< 100 U	--	--
1,1-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	--	< 1 U	< 100 U	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	< 1 U	< 100 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 100 U	--	--
1,2-Dichloroethane (EDC)	ug/L	5	< 1 U	< 100 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	< 1 U	--	< 1 U	< 100 U	--	--
Chloroethane	ug/L		--	--	--	--	--	--	--	--	< 1 U	< 1 U	< 1 U	--	< 1 U	< 100 U	--	--
m,p-Xylenes	ug/L		1000	2100	--	--	< 2 U	--	--	< 2 U	<2 U	<2 U	--	< 2 U	72	< 200 U	19	< 20 U
Methyl tert-butyl ether (MTBE)	ug/L	20	< 1 U	< 100 U	--	--	< 1 U	--	--	--	< 1 U	< 1 U	--	--	< 1 U	< 100 U	--	--
Methylene Chloride	ug/L	5	--	--	--	--	--	--	--	--	<5 U	<5 U	<5 U	--	< 5 U	< 500 U	--	--
o-Xylene	ug/L		400	480	--	--	< 1 U	--	--	< 1 U	<1 U	<1 U	--	< 1 U	18	< 100 U	<1 U	< 10 U
Tetrachloroethene (PCE)	ug/L	5	--	--	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	< 1 U	< 100 U	2.1	< 10 U
cis-1,2-Dichloroethene (cDCE)	ug/L		--	--	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	< 1 U	< 100 U	<1 U	<10 U
trans-1,2-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	< 1 U	< 100 U	<1 U	< 10 U
Trichloroethene (TCE)	ug/L	5	--	--	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	< 1 U	< 100 U	<1 U	<10 U
Vinyl Chloride	ug/L	0.2	--	--	--	--	--	--	--	--	<0.2 U	<0.2 U	<0.2 U	--	2.7	< 20 U	0.9	<2 U

Notes

Bold - Analyte detected

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CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

"—" – Sample not analyzed for this analyte.

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

ug/L = micrograms per liter

Table 4. Remedial Investigation Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample			MW-16				MW-17				MW-18				MW-19				MW-20		MW-21	
			07/31/2019	11/19/2019	08/17/2020	11/16/2020	07/31/2019	11/19/2019	08/17/2020	11/17/2020	07/31/2019	11/19/2019	08/18/2020	11/16/2020	07/31/2019	11/20/2019	08/18/2020	11/17/2020	08/17/2020	11/17/2020	08/17/2020	11/17/2020
			073119	111919	081720	111620	073119	111919	081720	111720	073119	111919	081820	111620	073119	112019	081820	111720	081720	111720	081720	111720
Analyte	Unit	MTCA Method A Cleanup Level																				
Total Petroleum Hydrocarbons (TPHs)																						
Gasoline Range Organics	ug/L	800	< 100 U	< 100 U	< 100 U	< 100 U	1800	1100	550	1200	< 100 U	1300	< 100 U	340	< 100 U	< 100 U	< 100 U	< 100 U	120	< 100 U	7400	6600
Diesel Range Organics	ug/L	500	84 X	< 50 U	130 X	< 50 U	320 X	560 X	270 X	550 X	55 X	260 X	< 50 U	59 X	< 50 U	< 50 U	< 50 U	< 50 U	180 X	< 50 U	3200 X	2800 X
Motor Oil Range Organics	ug/L	500	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	260 X	360 X
Diesel and Oil Extended Range Organics	ug/L	500	84 X	< 250 U	130 X	< 250 U	320 X	560 X	270 X	550 X	55 X	260 X	< 250 U	59 X	< 250 U	< 250 U	< 250 U	< 250 U	180 X	< 250 U	3460 X	3160 X
BTEX																						
Benzene	ug/L	5	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	4.2	1.1	5.7	1	240	1.2	61	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	21	25
Toluene	ug/L	1000	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	2.8	< 1 U	6.9	< 1 U	8.2	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 10 U	12
Ethylbenzene	ug/L	700	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	14	< 1 U	2.1	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	400	620
Total Xylenes	ug/L	1000	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	6.3	< 2 U	16	< 2 U	65	< 2 U	11.9	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	48	43
Metals																						
Lead	ug/L	15	< 1 UJ	1.02	--	--	< 1 UJ	< 1 U	--	--	< 1 UJ	< 1 U	--	--	< 1 UJ	< 1 U	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)																						
Naphthalene	ug/L	160	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	1.6	< 1 U	1.9	< 1 U	5.2	< 1 U	2.4	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	470	440
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	--	--	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	--	--	--	--
1,1-Dichloroethane	ug/L		--	--	--	--	--	--	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	--	--	--	--
1,1-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	--	--	--	--
Chloroethane	ug/L		--	--	--	--	--	--	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	--	--	--	--
m,p-Xylenes	ug/L		< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	4.2	< 2 U	16	< 2 U	48	< 2 U	9.8	< 2 U	< 2 U	< 1 U	< 1 U	--	--	--	--
Methyl tert-butyl ether (MTBE)	ug/L	20	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	< 1 U	< 1 U	--	--	--	--	--	--
Methylene Chloride	ug/L	5	--	--	--	--	--	--	--	--	< 5 U	< 5 U	--	--	< 5 U	< 5 U	--	--	--	--	--	--
o-Xylene	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	2.1	< 1 U	< 1 U	< 1 U	17	< 1 U	2.1	< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--
Tetrachloroethene (PCE)	ug/L	5	< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	17	12	13	9.3	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--
trans-1,2-Dichloroethene	ug/L		< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--
Trichloroethene (TCE)	ug/L	5	< 1 U	< 1 U	< 1 U	< 1 U	--	--	--	--	< 1 U	< 1 U	< 1 U	< 1 U	1	< 1 U	< 1 U	< 1 U	--	--	--	--
Vinyl Chloride	ug/L	0.2	< 0.2 U	< 0.5 U	< 0.2 U	< 0.2 U	--	--	--	--	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	--	--	--	--

Notes

Bold - Analyte detected

Blue Shaded - Detected result exceeded screening level

CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

"—" – Sample not analyzed for this analyte.

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

ug/L = micrograms per liter

Table 4. Remedial Investigation Groundwater Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample			MW-22		MW-23		MW-24		MW-25		MW-26		MW-27
			08/17/2020	11/16/2020	08/18/2020	11/18/2020	08/18/2020	11/17/2020	08/18/2020	11/16/2020	08/18/2020	11/16/2020	11/20/2020
			081720	111620	081820	111820	081820	111720	081820	111620	081820	111620	112020
Analyte	Unit	MTCA Method A Cleanup Level											
Total Petroleum Hydrocarbons (TPHs)													
Gasoline Range Organics	ug/L	800	14000	24000	21000	27000	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U
Diesel Range Organics	ug/L	500	2500 X	3000 X	1900 X	2600 X	76 X	< 50 U	55 X	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	ug/L	500	< 250 U	410 X	< 250 U	390 X	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	ug/L	500	2500 X	3410 X	1900 X	2990 X	76 X	< 250 U	55 X	< 250 U	< 250 U	< 250 U	< 250 U
BTEX													
Benzene	ug/L	5	540	1000	3100	5300	< 0.35 U	< 0.35 U	< 0.35 U	0.53	< 0.35 U	< 0.35 U	< 0.35 U
Toluene	ug/L	1000	56	240	210	120	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	ug/L	700	630	1300	400	640	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Total Xylenes	ug/L	1000	1350	3880	900	930	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
Metals													
Lead	ug/L	15	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs)													
Naphthalene	ug/L	160	220	390	110	170	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	ug/L	200	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	ug/L	0.01	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane (EDC)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	ug/L		--	--	--	--	--	--	--	--	--	--	--
m,p-Xylenes	ug/L		--	--	--	--	--	--	--	--	--	< 2 U	< 2 U
Methyl tert-butyl ether (MTBE)	ug/L	20	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	ug/L	5	--	--	--	--	--	--	--	--	--	--	--
o-Xylene	ug/L		--	--	--	--	--	--	--	--	--	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene (cDCE)	ug/L		--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	ug/L		--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	ug/L	5	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	ug/L	0.2	--	--	--	--	--	--	--	--	--	--	--

Notes

Bold - Analyte detected

Blue Shaded - Detected result exceeded screening level

CULs with blank cells indicate no MTCA Method A cleanup level is available for that analyte.

"—" – Sample not analyzed for this analyte.

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

ug/L = micrograms per liter

Table 5. Soil Gas Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample			GP-01		GP-02					GP-03				
			07/25/2019	08/20/2020	07/25/2019	08/20/2020	11/20/2020	07/20/2021	12/16/2021	07/25/2019	08/20/2020	11/20/2020	07/20/2021	12/16/2021
			GP-01-072519	GP-01-082020	GP-02-072519	GP-02-082020	GP-02-112020	GP-02-072021	GP-02-121621	GP-03-072519	GP-03-082020	GP-03-112020	GP-03-072021	GP-03-121621
Analyte	Unit	MTCA Method B Subslab Soil Gas SL ⁽¹⁾												
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)														
Benzene	µg/m ³	11	3.8	< 1.1 U	1.5	< 1.1 U	< 1.1 U	15	3.5	3.9	5.7	< 2.7 U	8	< 1.9 U
Toluene	µg/m ³	76,000	28	< 64 U	12	< 62 U	< 64 U	150	< 100 U	17	< 170 U	< 160 U	< 110 U	< 110 U
Ethylbenzene	µg/m ³	15,000	6	< 1.5 U	3.4	3.1	2.2	15	< 2.3 U	4.9	80	< 3.6 U	13	< 2.6 U
Total Xylenes	µg/m ³	1,500	32.9	< 3 U	18.3	16.7	12	80	< 4.6 U	27.1	382	10	65	9.5
Naphthalene	µg/m ³	2.5	< 0.84 U	< 0.89 U	< 0.81 U	1.2	< 0.89 U	< 1.4 U	< 1.4 U	< 2 U	< 2.3 U	< 2.2 U	< 1.5 U	< 1.5 U
C5 - C8 Aliphatic Hydrocarbons	µg/m ³	--	410	580	350	630	210	1,300	< 400 U	8,700	13,000	3,700	4,500 J	3,600 ve
C9 - C12 Aliphatic Hydrocarbons	µg/m ³	--	2,200	680	2,600	890	480	830	170	9,600	2,200	1,100	740	590
C9 - C10 Aromatic Hydrocarbons	µg/m ³	--	< 80 U	< 85 U	< 77 U	< 82 U	< 85 U	< 140 U	< 130 U	< 190 U	220	< 210 U	< 140 U	< 150 U
Total Petroleum Hydrocarbons ⁽²⁾	µg/m ³	1,500	2,721	1,338	3,024	1,614	780	2,461	489	18,449	15,974	5,001	5,452 J	4,333
Conventionals (%)														
Carbon Dioxide	%		--	24.6	--	20.0	27.6	22.8 J	--	--	22.8	30.3	25.0 J	--
Oxygen	%		--	3.44	--	6.95	4.5	8.46 J	--	--	1.90	1.35	3.12 J	--
Methane	%		--	< 0.0500 U	--	< 0.0500 U	< 0.05 U	< 0.110 UJ	--	--	0.157	0.168	< 0.105 UJ	--
Helium	%		--	< 0.6 U	--	< 0.6 U	< 0.6 U	< 0.6 U	--	--	< 0.6 U	< 0.6 U	< 0.6 U	--

Notes:
(1) Model Toxics Control Act (MTCA) Method B Subslab Soil Gas Screening Levels (SLs), including the generic Total Petroleum Hydrocarbons (TPH) Screening Level.
(2) Total petroleum hydrocarbons (TPH) concentration is the sum total of volatile organic compounds and aliphatic and aromatic hydrocarbons; one-half of the laboratory reporting limit was used for non-detects.
(3) Soil gas probe screen was submerged during the December 2021 sampling event due to seasonally higher groundwater elevation.

Bold - detected
Blue Shaded - Detected result exceeded generic MTCA Method B subslab soil gas screening level

U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
µg/m³ - micrograms per cubic meter
% - percent
"—" – Sample not analyzed for this analyte.
SLs with blank cells indicate no MTCA Method B subslab soil gas screening level is available for that analyte.

Table 5. Soil Gas Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

Location Date Sample			GP-04		GP-05			GP-06			SVS-01		SVS-02	
			07/25/2019 GP-04-072519	08/20/2020 GP-04-082020	11/20/2020 GP-05-112020	07/20/2021 GP-05-072021	12/16/2021 --	11/20/2020 GP-06-112020	07/20/2021 GP-06-072021	12/16/2021 GP-06-121621	07/25/2019 SVS-01-072519	08/20/2020 SVS-01-082020	07/25/2019 SVS-02-072519	08/20/2020 SVS-02-082020
Analyte	Unit	MTCA Method B Subslab Soil Gas SL ⁽¹⁾					Probe Submerged; No Sample Collected ⁽³⁾							
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)														
Benzene	µg/m ³	11	1.2	1.7	7.1	13	--	2.7	2.4	< 2.6 U	2.2	17	3.3	1.8
Toluene	µg/m ³	76,000	11	< 68 U	< 810 U	< 170 U	--	< 64 U	< 100 U	< 150 U	9.3	< 160 U	13	< 64 U
Ethylbenzene	µg/m ³	15,000	3.4	5.1	< 19 U	29	--	5	6.8	< 3.5 U	2.6	7	2.9	5.8
Total Xylenes	µg/m ³	1,500	18.7	28.3	< 37 U	158	--	25.8	38	< 7 U	14.4	57	14.2	31.3
Naphthalene	µg/m ³	2.5	< 0.84 U	< 0.94 U	< 11 U	< 2.4 U	--	< 0.89 U	1.6	< 2.1 U	< 0.81 U	< 2.2 U	< 0.81 U	< 0.89 U
C5 - C8 Aliphatic Hydrocarbons	µg/m ³	--	510	650	22,000	16,000 J	--	160	600	< 610 U	1,000	4,100	1,700	750
C9 - C12 Aliphatic Hydrocarbons	µg/m ³	--	1,800	470	5,000	2,300	--	390	2,300	510	1,300	6,700	1,100	670
C9 - C10 Aromatic Hydrocarbons	µg/m ³	--	100	< 90 U	< 1100 U	< 230 U	--	< 85 U	250	< 200 U	78	< 210 U	100	< 85 U
Total Petroleum Hydrocarbons ⁽²⁾	µg/m ³	1,500	2,445	1,235	28,005	18,701 J	--	658	3,249	998	2,407	11,067	2,934	1,534
Conventionals (%)														
Carbon Dioxide	%		--	8.53	29.6	22.3 J	--	17.1	18.4 J	--	--	0.121	--	0.0698
Oxygen	%		--	15.9	1.27	5.00 J	--	8.16	9.22 J	--	--	21.6	--	22.9
Methane	%		--	< 0.0500 U	0.515	0.485 J	--	< 0.05 U	< 0.0950 UJ	--	--	< 0.0500 U	--	< 0.0500 U
Helium	%		--	< 0.6 U	< 0.6 U	< 0.6 U	--	< 0.6 U	< 0.6 U	--	--	< 0.6 U	--	< 0.6 U

Notes:
(1) Model Toxics Control Act (MTCA) Method B Subslab Soil Gas Screening Levels (SLs), including the generic Total Petroleum Hydrocarbons (TPH) Screening Level.
(2) Total petroleum hydrocarbons (TPH) concentration is the sum total of volatile organic compounds and aliphatic and aromatic hydrocarbons; one-half of the laboratory reporting limit was used for non-detects.
(3) Soil gas probe screen was submerged during the December 2021 sampling event due to seasonally higher groundwater elevation.

Bold - detected
Blue Shaded - Detected result exceeded generic MTCA Method B subslab soil gas screening level

U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate
µg/m³ - micrograms per cubic meter
% - percent
"—" – Sample not analyzed for this analyte.
SLs with blank cells indicate no MTCA Method B subslab soil gas screening level is available for that analyte.

Table 6. Crawlspace and Ambient Air Analytical Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	July 2021 Results					
	Location	Ambient	Crawlspace			
	Area	Outdoor, Upwind	East End of Crawlspace		Central Portion of Crawlspace	
	Sample Type	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾
	Date	07/20/2021	07/20/2021		07/20/2021	
	Sample ID	BA-01-072021	IA-01-072021	--	IA-02-072021	--
	Analyte	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)				
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)						
Benzene	0.32	< 0.32 U	1.2	1.2	< 0.32 U	ND
Toluene	2300	< 19 U	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	< 0.87 U	2.16	2.16	< 0.87 U	ND
Naphthalene	0.073	< 0.057 U	0.13	0.13	< 0.057 U	ND
C5 - C8 Aliphatic Hydrocarbons	--	82	260	178	110	28
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	56	56	< 25 U	ND
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	118	342	234	146	28

	December 2021 Results								
	Location	Ambient		Crawlspace					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Unit #125 (West End of Crawlspace)		Unit #127 (Central West Portion of Crawlspace)		Unit #129 (Central East Portion of Crawlspace)	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾
	Date	12/15/2021	12/15/2021	12/15/21		12/15/21		12/15/21	
	Sample ID	AMB-1-121521	AMB-2-121521	CS-125-121521	--	CS-127-121521	--	CS-129-121521	
	Analyte	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)							
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.43	0.45	0.56	0.13	0.49	0.06	0.49	0.06
Toluene	2300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.56	0.56	< 0.43 U	ND	0.54	0.54
Total Xylenes	46	1.0	1.2	3.3	2.25	1.5	0.5	3.0	1.97
Naphthalene	0.073	0.068 J	< 0.057 J	0.099 J	0.031 J	0.073 J	0.005 J	0.11	0.042 J
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	< 75 U	ND	< 75 U	ND	< 75 U	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	76	3.0	74	0.6	76	2.6

Notes:

(1) Net results were calculated by subtracting the upwind ambient air result from the crawlspace result. If the reported crawlspace result was less than the upwind ambient air concentration or if a certain analyte was not detected in either the crawlspace sample and the ambient air result, the net value is shown as ND and summed as zero in the Total Petroleum Hydrocarbon calculation.

(2) Model Toxic Control Act (MTCA) Method B Indoor Air Cleanup Levels (CULs), including the generic Total Petroleum Hydrocarbons CUL.

(3) Total petroleum hydrocarbon (TPH) concentration is the sum total of volatile organic compounds and aliphatic and aromatic hydrocarbons; one-half of the laboratory reporting limit was used for non-detects in reported results. Non-detects in net results (ND) were summed as zero.

Bold results indicate analyte was detected.

Blue-highlighted values exceed the generic MTCA Method B Indoor Air Cleanup Levels for Unrestricted Land Use.

µg/m³ = micrograms per cubic meter

-- = not applicable

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

J - Result value estimated

Table 7. December 2021 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit	Ambient		Unit #125					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-121521	AMB-2-121521	CS-125-121521	--	IA-125-1-121521	--	IA-125-2-121521	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.43	0.45	0.56	0.13	0.41	ND	0.39	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.56	0.56	0.63	0.63	0.59	0.59
Total Xylenes	46	1.0	1.2	3.3	2.25	2.0	1.0	2.0	1.0
Naphthalene	0.074	0.068 J	< 0.057 UJ	0.099 J	0.031 J	0.33	0.26 J	0.39	0.32 J
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	< 75 U	ND	< 75 U	ND	75	75
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	71	71	74	74
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	76	3.0	134	73	174	151

	Location/Unit	Ambient		Unit #127					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-121521	AMB-2-121521	CS-127-121521	--	IA-127-1-121521	--	IA-127-2-121521	
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.43	0.45	0.49	0.06	0.39	ND	0.37	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	< 0.43 U	ND	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	1.0	1.2	1.5	0.5	< 0.87 U	ND	< 0.87 U	ND
Naphthalene	0.074	0.068 J	< 0.057 UJ	0.073 J	0.005 J	0.14	0.072 J	0.16	0.092 J
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	< 75 U	ND	< 74 U	ND	< 74 U	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	34	34	43	43
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	74	0.6	94	34	103	43

Table 7. December 2021 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit	Ambient		Unit #129					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-121521	AMB-2-121521	CS-129-121521	--	IA-129-1-121521	--	IA-129-2-121521	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.43	0.45	0.49	0.06	0.46	0.03	0.48	0.05
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.54	0.54	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	1.0	1.2	3.0	1.97	1.6	0.57	1.5	0.5
Naphthalene	0.074	0.068 J	< 0.057 UJ	0.11	0.042 J	0.67	0.60 J	0.44	0.37 J
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	< 75 U	ND	170	170	130	130
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	130	130	95	95
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	76	2.6	325	301	250	226

	Location/Unit	Ambient		Unit #131					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Average Crawlspace Results		Living Room			
	Sample Type	Background, Reported	Background, Reported	CS, Average, Reported	CS, Average, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-121521	AMB-2-121521	--	-	IA-131-1-121521	--	IA-FD-121521	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.43	0.45	0.51	0.08	1.5	1.1	1.5	1.1
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.44	0.44	0.57	0.57	0.58	0.58
Total Xylenes	46	1.0	1.2	2.6	1.6	2.3	1.3	2.4	1.4
Naphthalene	0.074	0.068 J	< 0.057 UJ	0.094 J	0.026 J	0.40	0.33 J	0.42	0.35 J
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	< 75 U	ND	110	110	120	120
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	34	34	39	39
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	76	2.1	171	147	186	162

Notes

(1) Adjusted results were calculated by subtracting the upwind ambient air result from the crawlspace or indoor air result. If the reported crawlspace or indoor air result was less than the upwind ambient air concentration or if a certain analyte was not detected in either the crawlspace or indoor air sample and the ambient air result, the net value is shown as ND and summed as zero in the Total Petroleum Hydrocarbon calculation.

(2) Model Toxic Control Act (MTCA) Method B Indoor Air Cleanup Levels (CULs), including the generic Total Petroleum Hydrocarbons CUL.

(3) The concentration for TPH was calculated as the sum of aliphatic hydrocarbons, aromatic hydrocarbons, and gas-range VOCs in accordance with Ecology guidance (2022). For soil gas samples and ambient air samples where the aliphatic or aromatic hydrocarbons were not detected, the TPH concentration was summed using one-half the reporting limit for individual compounds. For crawlspace and indoor air samples, if an individual compound was not detected in either the crawlspace or indoor sample and also not detected in the associated ambient sample, the TPH concentration was summed using zero for non-detected individual compounds.

Blue results indicate analyte was detected.

Blue-highlighted values exceed the MTCA Method B Indoor Air Cleanup Levels for Unrestricted Land Use; only ambient air, net crawlspace air, and net indoor air values are screened against the MTCA Method B Indoor Air Cleanup Levels.

µg/m³ = micrograms per cubic meter

-- = not applicable

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

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

E - Result exceeded calibration range. Result usable for qualitative analysis of analyte presence, but numeric value should not be included in quantitative analysis.

Table 8. November 2022 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit	Ambient		Unit #125					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-111622	AMB-2-111622	CS-125-1111622	--	IA-125-1-111622	--	IA-125-2-111622	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.70	0.69	0.76	0.06	0.62	ND	0.61	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.90	0.90	0.50	0.50	0.48	0.48
Total Xylenes	46	1.1	1.1	4.70	3.6	2.61	ND	2.06	ND
Naphthalene	0.074	0.057 J	< 0.047 UJ	0.079 J	0.022	0.12	0.063	0.14	0.083
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	2,200	2,200	77	77	85	85
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	35	35	140	140	130	130
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	2,263	2,240	243	218	240	216

	Location/Unit	Ambient		Unit #127					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-111622	AMB-2-111622	CS-127-111622	--	IA-127-1-111622	--	IA-127-2-111622	
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.70	0.69	0.63	ND	0.47	ND	0.46	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.55	0.55	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	1.1	1.1	2.83	1.73	1.56	0.46	0.97	ND
Naphthalene	0.074	0.057 J	< 0.047 UJ	0.42	0.36	0.079	0.022	0.079	0.022
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	750	750	< 75 U	ND	< 75 U	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	38	38	41	41
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	789	753	100	38	102	41

Table 8. November 2022 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit		Ambient		Unit #129				
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-111622	AMB-2-111622	CS-129-111622	--	IA-129-1-111622	--	IA-129-2-111622	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.70	0.69	0.71	0.01	0.51	ND	0.53	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.6	0.6	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	1.1	1.1	3.1	2.0	1.0	ND	0.89	ND
Naphthalene	0.074	0.057 J	< 0.047 UJ	0.047 J	ND	0.23	0.17	0.13	0.073
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	1,500	1,500	94	94	76	76
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	62	62	26	26
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	1,539	1,503	180	156	126	102

	Location/Unit		Ambient		Unit #131				
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room			
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-111622	AMB-2-111622	CS-131-111622	--	IA-131-1-11622	--	IA-FD-111622	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.70	0.69	0.62	ND	0.87	0.17	0.88	0.18
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	0.59	0.59	0.46	0.46	0.46	0.46
Total Xylenes	46	1.1	1.1	3.21	2.11	2.9	1.81	1.9	0.81
Naphthalene	0.074	0.057 J	< 0.047 UJ	< 0.047 UJ	ND	0.24	0.19	0.26	0.20
C5 - C8 Aliphatic Hydrocarbons	--	< 75 U	< 75 U	360	360	100	100	93	93
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	37	37	54	54	47	47
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	74	74	423	400	180	157	166	142

Notes

(1) Adjusted results were calculated by subtracting the upwind ambient air result from the crawlspace or indoor air result. If the reported crawlspace or indoor air result was less than the upwind ambient air concentration or if a certain analyte was not detected in either the crawlspace or indoor air sample and the ambient air result, the net value is shown as ND and summed as zero in the Total Petroleum Hydrocarbon calculation.

(2) Model Toxic Control Act (MTCA) Method B Indoor Air Cleanup Levels (CULs), including the generic Total Petroleum Hydrocarbons CUL.

(3) The concentration for TPH was calculated as the sum of aliphatic hydrocarbons, aromatic hydrocarbons, and gas-range VOCs in accordance with Ecology guidance (2022). For soil gas samples and ambient air samples where the aliphatic or aromatic hydrocarbons were not detected, the TPH concentration was summed using one-half the reporting limit for individual compounds. For crawlspace and indoor air samples, if an individual compound was not detected in either the crawlspace or indoor sample and also not detected in the associated ambient sample, the TPH concentration was summed using zero for non-detected individual compounds.

Bold results indicate analyte was detected.

Blue-highlighted values exceed the MTCA Method B Indoor Air Cleanup Levels for Unrestricted Land Use; only ambient air, net crawlspace air, and net indoor air values are screened against the MTCA Method B Indoor Air Cleanup Levels.

µg/m³ = micrograms per cubic meter
-- = not applicable
U - Analyte not detected at or above Reporting Limit (RL) shown
J - Result value estimated
UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

Table 9. January 2023 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit	Ambient		Unit #125					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230109	AMB-2-230109	CS-125-230109	--	IA-125-1-230109	--	IA-125-2-230109	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.54	0.52	2.1	1.56	0.58	0.04	0.54	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	2.6	2.6	0.64	0.64	0.63	0.63
Total Xylenes	46	1.76	1.64	13.8	12.04	2.81	1.05	2.8	1.04
Naphthalene	0.074	< 0.26 U	< 0.26 U	< 0.26 U	ND	< 0.26 U	ND	< 0.26 U	ND
C5 - C8 Aliphatic Hydrocarbons	--	1200 X	520 X	2300	1100	110	ND	99	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	66	66	27	27	52	52
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	1237 X	557 X	2407	1182	163	29	177	54

	Location/Unit	Ambient		Unit #127					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230109	AMB-2-230109	CS-127-230109	--	IA-127-1-230109	--	IA-127-2-230109	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds									
Benzene	0.32	0.54	0.52	6	5	0.54	ND	0.54	ND
Toluene	2,300	< 19 U	< 19 U	86 E	86 E	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	17	17	0.83	0.83	0.86	0.86
Total Xylenes	46	1.76	1.64	102 E	100 E	2.97	1.21	3.12	1.36
Naphthalene	0.074	< 0.26 U	< 0.26 U	4.4	4.4	< 0.26 U	ND	< 0.26 U	ND
C5 - C8 Aliphatic Hydrocarbons	--	1200 X	520 X	1600	400	100	ND	120	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	84	84	43	43	62	62
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	130	130	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	1237 X	557 X	2029 E	826 E	169	45	209	64

Table 9. January 2023 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit	Ambient		Unit #129					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230109	AMB-2-230109	CS-129-230109	--	IA-129-1-230109	--	IA-129-2-230109	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.54	0.52	0.79	0.25	0.65	0.11	0.68	0.14
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	1.1	1.1	0.67	0.67	0.71	0.71
Total Xylenes	46	1.76	1.64	5.7	3.94	3.16	1.4	3.32	1.56
Naphthalene	0.074	< 0.26 U	< 0.26 U	0.26	0.26	< 0.26 U	ND	< 0.26 U	ND
C5 - C8 Aliphatic Hydrocarbons	--	1200 X	520 X	690 X	ND	110	ND	110	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	49	49	29	29
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	1237 X	557 X	732 X	6	186	51	166	31

	Location/Unit	Ambient		Unit #131					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room			
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Field Duplicate	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230109	AMB-2-230109	CS-131-230109	--	IA-131-1-230109	--	IA-FD-230109	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.54	0.52	8	7.46	1.2	0.7	1.2	0.66
Toluene	2,300	< 19 U	< 19 U	150 E	150 E	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43 U	< 0.43 U	33	33	0.73	0.73	0.77	0.77
Total Xylenes	46	1.76	1.64	192 E	190 E	3.22	1.46	3.39	1.63
Naphthalene	0.074	< 0.26 U	< 0.26 U	7.9	7.9	0.33	0.33	0.35	0.35
C5 - C8 Aliphatic Hydrocarbons	--	1200 X	520 X	2200	1000	130	ND	120	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	130	130	37	37	37	37
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	230	230	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	1237 X	557 X	2951 E	1748 E	194	40	185	40

Notes

(1) Adjusted results were calculated by subtracting the upwind ambient air result from the crawlspace or indoor air result. If the reported crawlspace or indoor air result was less than the upwind ambient air concentration or if a certain analyte was not detected in either the crawlspace or indoor air sample and the ambient air result, the net value is shown as ND and summed as zero in the Total Petroleum Hydrocarbon calculation.

(2) Model Toxic Control Act (MTCA) Method B Indoor Air Cleanup Levels (CULs), including the generic Total Petroleum Hydrocarbons CUL.

(3) The concentration for TPH was calculated as the sum of aliphatic hydrocarbons, aromatic hydrocarbons, and gas-range VOCs in accordance with Ecology guidance (2022). For soil gas samples and ambient air samples where the aliphatic or aromatic hydrocarbons were not detected, the TPH concentration was summed using one-half the reporting limit for individual compounds. For crawlspace and indoor air samples, if an individual compound was not detected in either the crawlspace or indoor sample and also not detected in the associated ambient sample, the TPH concentration was summed using zero for non-detected individual compounds.

Bold results indicate analyte was detected.

Blue-highlighted values exceed the MTCA Method B Indoor Air Cleanup Levels for Unrestricted Land Use; only ambient air, net crawlspace air, and net indoor air values are screened against the MTCA Method B Indoor Air Cleanup Levels.

µg/m³ = micrograms per cubic meter

-- = not applicable

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

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

E - Result exceeded calibration range. Result usable for qualitative analysis of analyte presence, but numeric value should not be included in quantitative analysis.

Table 10. February 2023 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit	Ambient		Unit #125					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230222	AMB-2-230222	CS-125-230222	--	IA-125-1-230222	--	IA-125-2-230222	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.37	0.37	0.56	0.19	0.36	ND	0.36	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43	< 0.43	< 0.43 U	ND	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	< 1.3 U	< 1.3 U	1.93	1.93	< 1.3 U	ND	< 1.3 U	ND
Naphthalene	0.074	< 0.047 UJ	< 0.047 UJ	< 0.047 UJ	ND	0.063 J	0.063 J	0.079 J	0.079 J
C5 - C8 Aliphatic Hydrocarbons	--	120	120	350 X	230 X	< 75 U	ND	80	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	156	156	387 X	232 X	73	0.063 J	116	0.079 J

	Location/Unit	Ambient		Unit #127					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230222	AMB-2-230222	CS-127-230222	--	IA-127-1-230222	--	IA-127-2-230222	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.37	0.37	0.42	0.05	0.33	ND	0.35	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43	< 0.43	< 0.43 U	ND	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	< 1.3 U	< 1.3 U	1.22	1.22	1.13	1.13	< 1.3 U	ND
Naphthalene	0.074	< 0.047 UJ	< 0.047 UJ	< 0.047 UJ	ND	0.12 J	0.12 J	0.079 J	0.079 J
C5 - C8 Aliphatic Hydrocarbons	--	120	120	150 X	30	110	ND	88	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	57	57	33	ND
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	156	156	186 X	31	191	58	144	0.079 J

Table 10. February 2023 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Location/Unit	Ambient		Unit #129					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room		Bathroom	
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230222	AMB-2-230222	CS-129-230222	--	IA-129-1-230222	--	IA-129-2-230222	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.37	0.37	0.4	0.03	0.34	ND	0.33	ND
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43	< 0.43	< 0.43 U	ND	< 0.43 U	ND	< 0.43 U	ND
Total Xylenes	46	< 1.3 U	< 1.3 U	< 1.3 U	ND	< 1.3 U	ND	< 1.3 U	ND
Naphthalene	0.074	< 0.047 UJ	< 0.047 UJ	< 0.047 UJ	ND	0.15 J	0.15 J	0.068 J	0.068 J
C5 - C8 Aliphatic Hydrocarbons	--	120	120	95	ND	110	ND	< 75 U	ND
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	210	210	68	68
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	156	156	131	0.03	343	210	129	68

	Location/Unit	Ambient		Unit #131					
	Area	Outdoor, Upwind	Outdoor, Crosswind	Crawlspace Beneath Bathroom		Living Room			
	Sample Type	Background, Reported	Background, Reported	Crawlspace, Reported	Crawlspace, Net ⁽¹⁾	Indoor Air, Reported	Indoor Air, Net ⁽¹⁾	Field Duplicate	Indoor Air, Net ⁽¹⁾
	Sample ID	AMB-1-230222	AMB-2-230222	CS-131-230222	--	IA-131-1-230222	--	IA-FD-230222	--
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)								
Petroleum Hydrocarbon Related Volatile Organic Compounds (µg/m ³)									
Benzene	0.32	0.37	0.37	0.48	0.11	1.1	0.73	1.1	0.73
Toluene	2,300	< 19 U	< 19 U	< 19 U	ND	< 19 U	ND	< 19 U	ND
Ethylbenzene	460	< 0.43	< 0.43	< 0.43 U	ND	0.57	0.57	0.59	0.59
Total Xylenes	46	< 1.3 U	< 1.3 U	2.05	2.1	2.4	2.4	2.6	2.6
Naphthalene	0.074	< 0.047 UJ	< 0.047 UJ	< 0.047 UJ	ND	0.33	0.33	0.33	0.33
C5 - C8 Aliphatic Hydrocarbons	--	120	120	100	ND	160 X	40 X	150 X	30 X
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	46	46	41	41
C9 - C10 Aromatic Hydrocarbons	--	< 25 U	< 25 U	< 25 U	ND	< 25 U	ND	< 25 U	ND
Total Petroleum Hydrocarbons ⁽³⁾	46	156	156	137	2.2	232 X	90 X	218 X	75 X

Table 10. February 2023 - Vapor Intrusion Assessment Results

Project No. 180357, Texaco Strickland Site, Lynnwood, Washington

	Sample Type	Active Ventilation
	Sample ID	VS-EFF-230222
Chemical Name	MTCA Method B CUL ⁽²⁾ (Unrestricted Use)	
Benzene	0.32	0.35
Toluene	2,300	< 19 U
Ethylbenzene	460	< 0.43 U
Total Xylenes	46	1.10
Naphthalene	0.074	0.1 J
C5 - C8 Aliphatic Hydrocarbons	--	82
C9 - C12 Aliphatic Hydrocarbons	--	< 25 U
C9 - C10 Aromatic Hydrocarbons	--	< 25 U
Total Petroleum Hydrocarbons ⁽³⁾	46	118

Notes

(1) Adjusted results were calculated by subtracting the upwind ambient air result from the crawlspace or indoor air result. If the reported crawlspace or indoor air result was less than the upwind ambient air concentration or if a certain analyte was not detected in either the crawlspace or indoor air sample and the ambient air result, the net value is shown as ND and summed as zero in the Total Petroleum Hydrocarbon calculation.

(2) Model Toxic Control Act (MTCA) Method B Indoor Air Cleanup Levels (CULs), including the generic Total Petroleum Hydrocarbons CUL.

(3) The concentration for TPH was calculated as the sum of aliphatic hydrocarbons, aromatic hydrocarbons, and gas-range VOCs in accordance with Ecology guidance (2022). For soil gas samples and ambient air samples where the aliphatic or aromatic hydrocarbons were not detected, the TPH concentration was summed using one-half the reporting limit for individual compounds. For crawlspace and indoor air samples, if an individual compound was not detected in either the crawlspace or indoor sample and also not detected in the associated ambient sample, the TPH concentration was summed using zero for non-detected individual compounds.

Blue results indicate analyte was detected.

Blue-highlighted values exceed the MTCA Method B Indoor Air Cleanup Levels for Unrestricted Land Use; only ambient air, net crawlspace air, and net indoor air values are screened against the MTCA Method B Indoor Air Cleanup Levels.

µg/m³ = micrograms per cubic meter

-- = not applicable

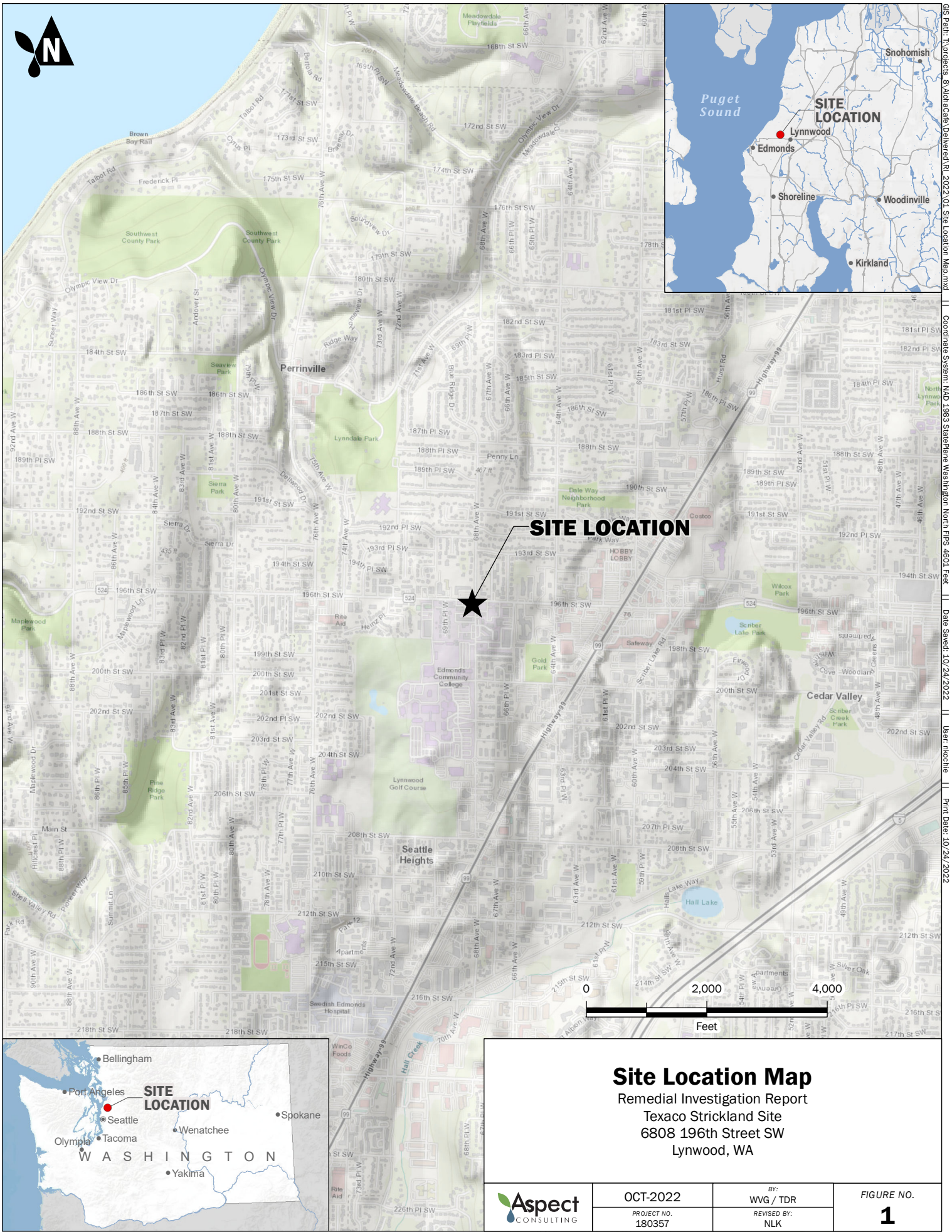
U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

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

FIGURES



Site Location Map
Remedial Investigation Report
Texaco Strickland Site
6808 196th Street SW
Lynnwood, WA



Aspect
CONSULTING

OCT-2022

PROJECT NO.
180357

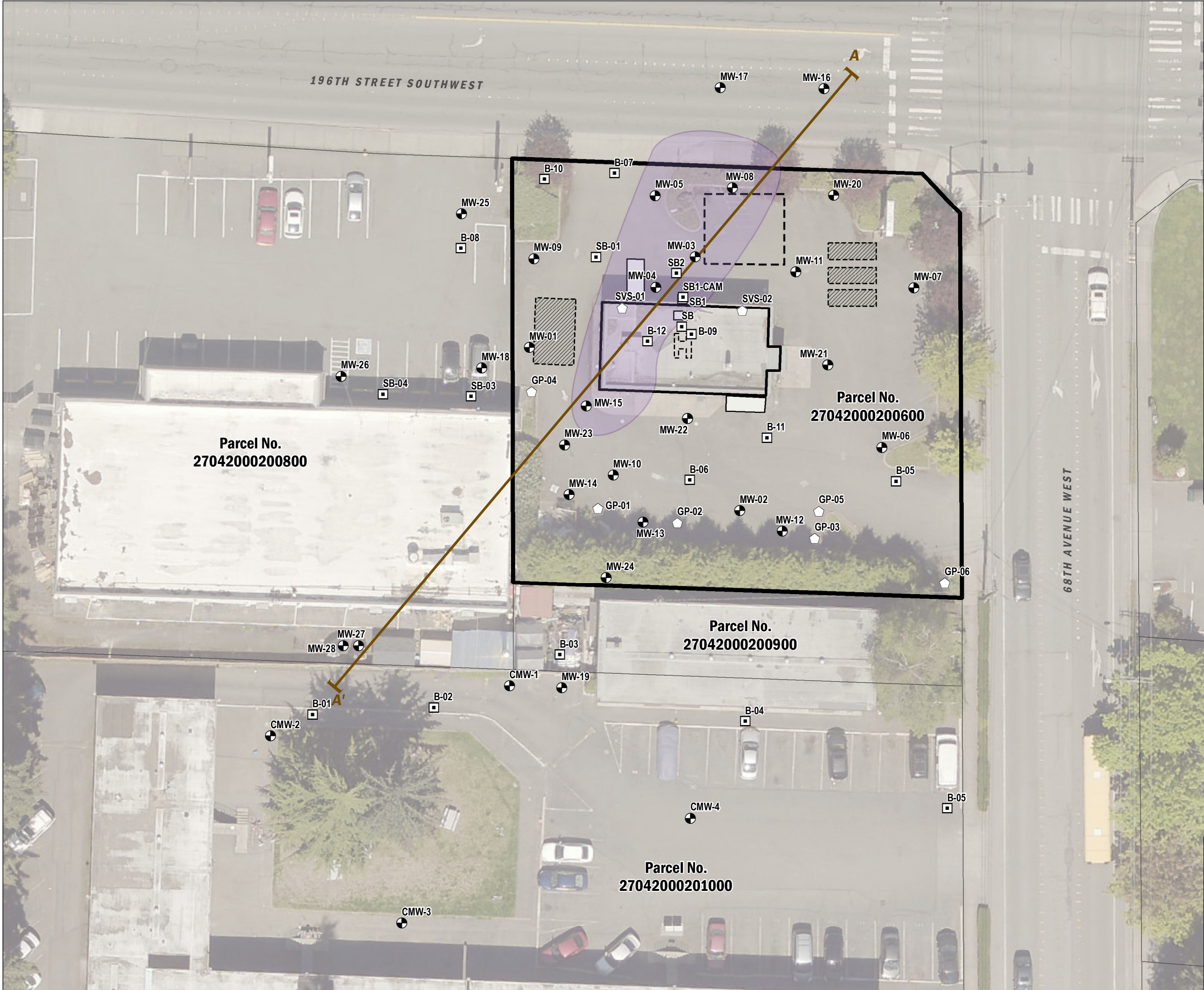
BY:
WVG / TDR

REVISED BY:
NLK

FIGURE NO.

1

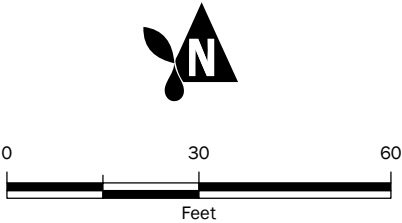
Basemap Layer Credits || Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Exploration Location

- Monitoring Well
- Soil Boring
- Soil Gas Sample
- LNAPL Plume
- Cross Section
- Building
- Subject Property
- Former UST (Removed)
- Existing UST (Closed-In-Place or Abandoned)
- Former Pump Island
- Snohomish County Tax Parcel

Notes:
- LNAPL = Light Non-aqueous Phase Liquid



Site Plan

Remedial Investigation Report
Texaco Strickland Site
6808 196th Street SW
Lynwood, WA



OCT-2022
PROJECT NO.
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BY:
WVG / TDR
REVISED BY:
AJY / WEG / NLK

FIGURE NO.
2



- One or more analytes detected at concentrations greater than the MTCA Method A cleanup levels in soil.
- One or more analytes detected at concentrations less than the MTCA Method A cleanup levels in soil.
- Analytes not detected.

* Shallow Soil Sample Result
(less than 5 feet below ground surface)

◡ Soil Probe

◻ Soil Boring

⊕ Monitoring Well

⊙ Soil Sample

~ Extents of Soil Exceeding Cleanup Levels
Dashed where inferred

LNAPL Plume

— Cross Section

Building

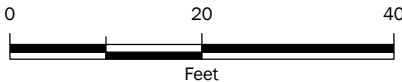
Subject Property

Former UST (Removed)

Existing UST (Closed-In-Place or Abandoned)

Former Pump Island

Snohomish County Tax Parcel



Notes: - LNAPL = Light Non-Aqueous Phase Liquid

** The soil sample collected at MW-6 in 2007 contained an exceedance of benzene at 20 feet bgs. The soil sample collected from B-05 in 2010 did not contain detectable concentrations of benzene and has established soil confirmation.

Soil Analytical Results

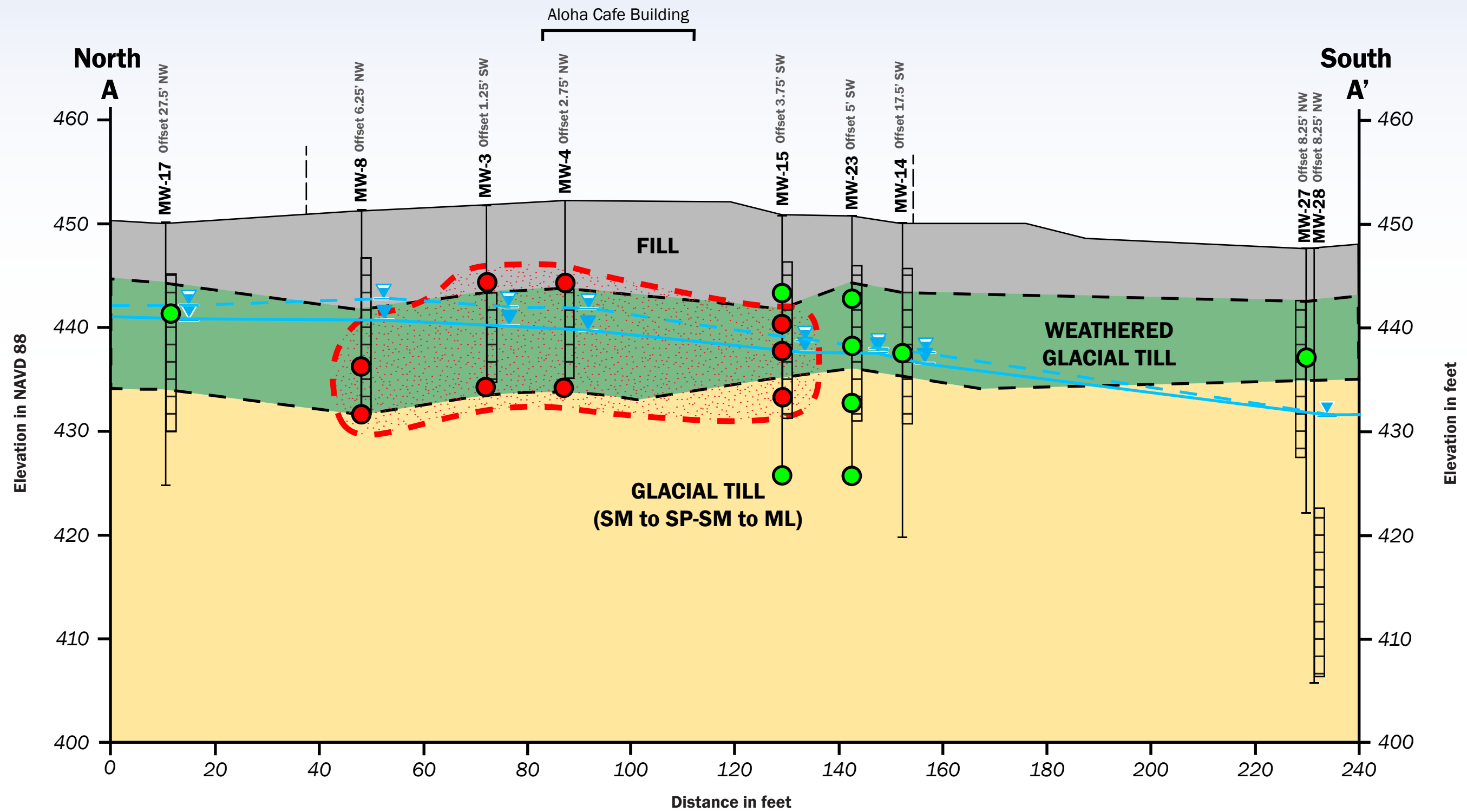
Remedial Investigation Report
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Lynwood, WA



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REVISED BY:
AJY / WEG / NLK

FIGURE NO.
3



Cross Section A-A'

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Texaco Strickland Site
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Lynnwood, Washington

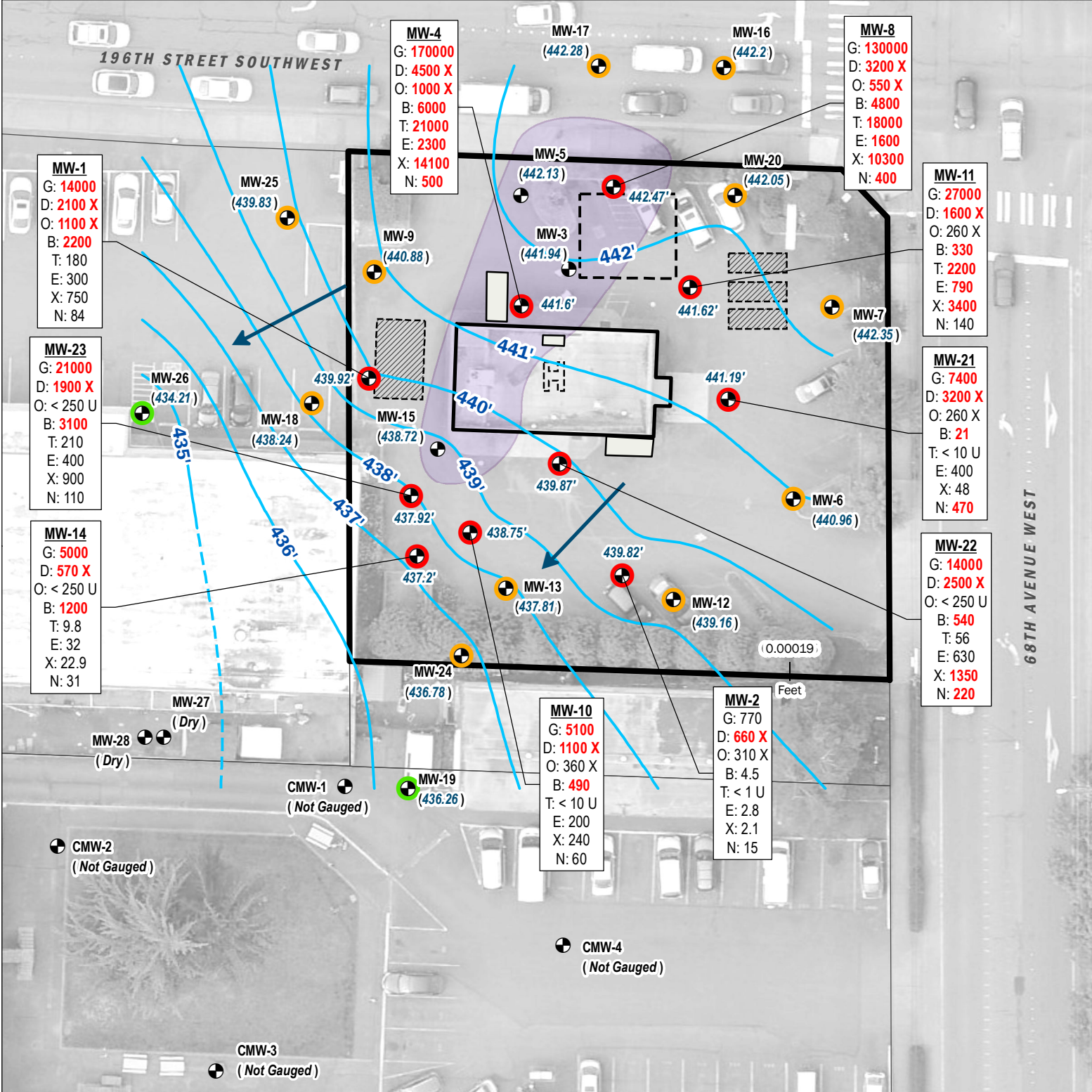


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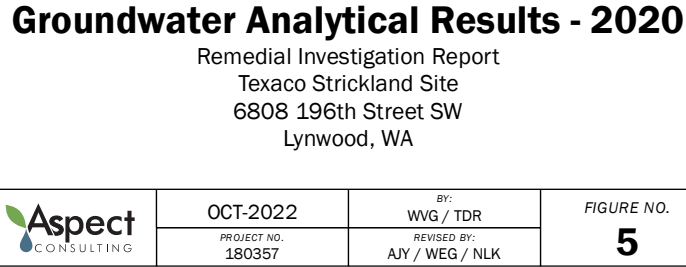
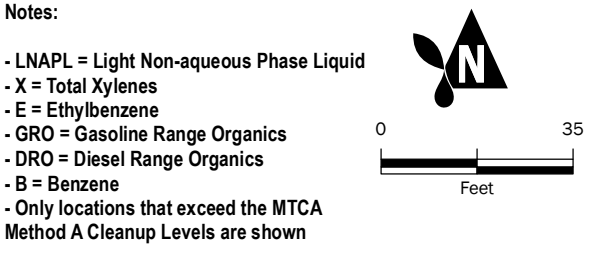
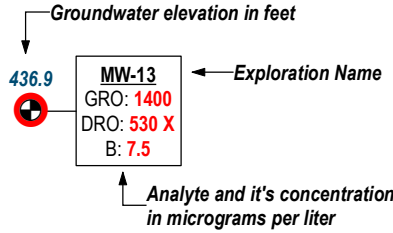
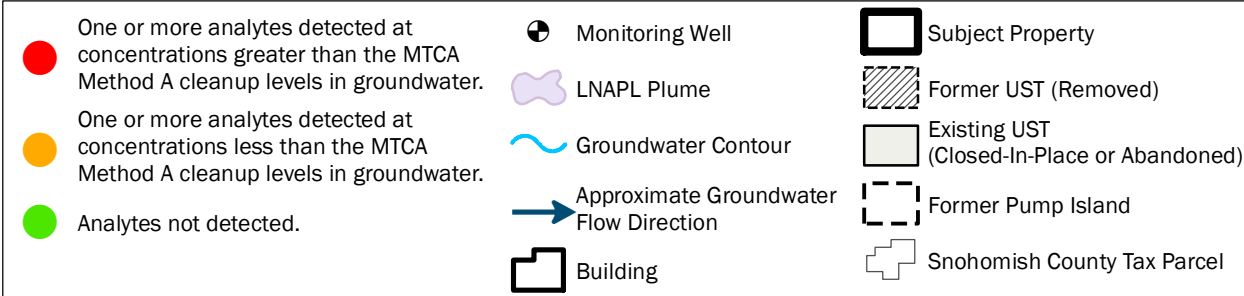
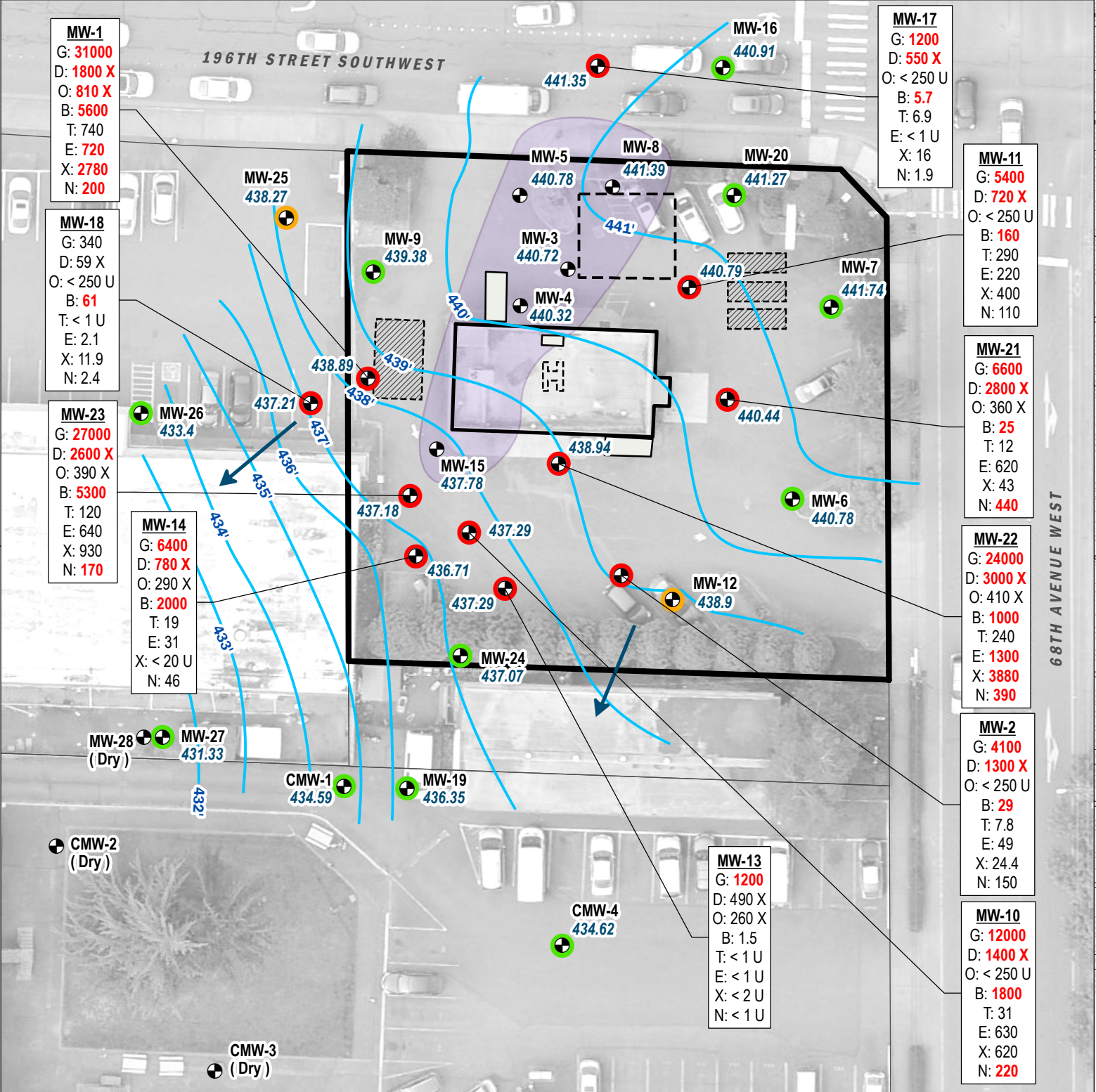
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DWU / RAC
REV BY:
NLK

FIGURE NO.
4

August 2020



November 2020

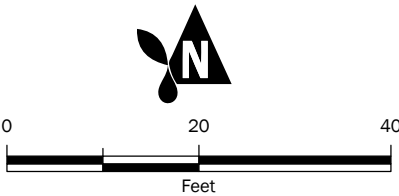




- Crawlspace Air Sampling Location
- Indoor Air Sampling Location
- Ambient Air Sampling Location
- Soil Gas Probe
- Soil Vapor Sample (Not Sampled During This Event)
- Aloha Cafe Building
- Chri-Mar Apartment Building
- Property Boundary
- Former UST (Removed)
- Existing UST (Closed-In-Place or Abandoned)
- Tax Parcel

Note:

* GP-5 was not sampled during the December 2021 sampling event. The screen of the gas probe was submerged due to seasonally high groundwater elevations.



Vapor Intrusion Assessment Sampling Locations

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Texaco Strickland Site
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FIGURE NO.
6