SECTION 5

REMEDIAL EXCAVATION REPORT

SITE REMEDIAL EXCAVATION REPORT

Performed at: FIFE RV CENTER 3410 Pacific Highway East Fife, Washington 98424



November 1, 2016

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Performed at: FIFE RV CENTER 3410 Pacific Highway East Fife, Washington 98424

November 1, 2016

Performed by: Aerotech Environmental Consulting, Inc. 13925 Interurban Avenue South, Suite No.210 Seattle, Washington 98168 Fax (206) 429-3594 (866) 800-4030 www.AerotechEnvironmental.com

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REMEDIAL EXCAVATION REPORT

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34	performed for: R. CHRIS LaVERDIERE 410 Pacific Highway East Fife, Washington 98424
Clients:	MR. CHRIS LaVERDIERE 3410 Pacific Highway East Fife, Washington 98424
Point of Contact:	Mr. Chris LaVerdiere Representative of Ownership Group
Property:	FIFE RV CENTER 3910 Pacific Highway East Fife, Washington 98424
County:	Pierce County, Washington Parcel Number: 0320111067
Commercial Activity:	RV Retail
Project Number:	216-4013
Report Date:	November 1, 2016
Washington Certified Site Assessor:	Nicholas Gerkin (No. ICC00249119)
Licensed Geologist:	James G. McDermott (No. 3063)

EXECUTIVE SUMMARY

The subject Property of this Site Remedial Excavation is comprised of one irregularly-shaped 3.76acre Parcel, located on the south side of Pacific Highway East in Fife, Washington. One building, occupied by *Fife RV Center*, is situated on the southeastern corner of the Property. It is an approximately 10,763 square foot, 2-story structure with the main entrance to the north. An approximately 1,000 square foot, 1-story structure is situated northeast of the main building along the eastern Property boundary. Asphalt parking areas surround the structure on all sides and are utilized for the storage and display of the RV inventory. On the west side of the Property lies an approximately 0.77 acre vacant gravel parking lot, occasionally used to store RV inventory.

Surrounding areas include a drainage ditch to the south followed by Interstate 5. The neighboring Parcel to the east includes approximately 5.24 acres which is leased by Fife RV Center for use as additional storage. Formerly included with this Parcel prior to subdivision in 2004, situated to th north along Pacific Highway East, is a *Travelodge*. This Parcel is listed on Washington State Department of Ecology ("Ecology") Voluntary Cleanup Program List as Site No. SW0601 and is known as *Homotel*. It has been confirmed to contain petroleum products and metals at concentrations above the State Cleanup Levels in soil and in groundwater.

Pacific Highway East, followed by an *Econolodge*, are adjoining the subject Property to the north. Formerly included within the same Parcel as the subject Property is a Tahoma Express Gas Station and a Jack in the Box adjoin to the west (north of excavation area) followed by the Port of Tacoma Road. The Tahoma Express Gas Station was listed on Ecology's Site Cleanup List as Site No. 5015. The Ecology Database lists the site as formerly having petroleum hydrocarbons at concentrations above the State Cleanup Levels in soil and groundwater. The site received a No Further Action determination from Ecology in 1993.

Based on historical research, from the mid 1960's until the late 1980's a *Gasamet* gas station occupied this portion of the Property with the pump islands situated along the northern Property boundary and partially onto the current Jack in the Box Property. The Underground Storage Tank ("UST") Basins were located to the east and west of the pump islands with the station building situated along the southwestern Property boundary. A wooded water retention area, known as a Bio-Swale, is located on the northwest corner of the Parcel. A qualitative record of test pit activities conducted in 2000 indicated strong petroleum odor in soil in the upper four feet of excavated soil in this area (Documentation included in Supplemental Documents section of Appendix).A drainage ditch is located off-Property to the southwest with Interstate 5 beyond.

In 2014, Associated Earth Sciences, Inc. conducted a Supplemental Phase II Environmental Site Assessment at the subject Property. Soil and groundwater samples collected from soil borings advanced in the current vacant gravel lot in the vicinity of the former Gasamet pump islands and UST Basin contained petroleum hydrocarbons at concentrations above the Model Toxic Control Act ("MTCA") Method A Cleanup Levels. Based on these results, Mr. Chris LaVerdiere requested Langseth Environmental ("Langseth") and Aerotech Environmental Consulting, Inc. ("Aerotech") to perform site remedial excavation and environmental consulting services to remove soil containing petroleum hydrocarbons at concentrations above the MTCA Method A Cleanup Levels at the areas identified in the Supplemental Phase II Environmental Site Assessment at the subject Property

Aerotech, along with Langseth, performed a Remedial Excavation in two phases during the month of October 2016. Analytical results from historical environmental investigations and samples collected during the Site Remedial Excavation and during Test Pit activities were used to determine the final extents of the excavation. Major subsurface utilities were identified at several locations on the Property and limited the removal of soil containing petroleum hydrocarbons at concentration above the MTCA Method A Cleanup Levels at these locations. A saturated, wooded bio-swale is located on-Property to the northwest of the Site Remedial Excavation, a downward topographic slope leading to a water drainage ditch to the southwest limited soil removal in these directions. Former fueling station conveyance system remnants along with 1,685.24 tons of potentially contaminated soil to the LRI Landfill located at 30919 Meridian Street East, Graham, Washington. A total of 84 soil samples were collected from the sidewalls and bottom of the excavation in the vicinity of the former fuel pump and former UST Basin . Groundwater levels within the excavations ranged from 5 feet in the Southwest to 10 feet in the Northeast.

Site Remedial Excavation Report Fife RV Center, Fife, WA

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SECTION I. INTRODUCTION

At the request of Mr. Chris LaVerdiere, on behalf of Fife RV Center, Aerotech Environmental Consulting, Inc. ("Aerotech") has prepared this report presenting the results of remedial excavation activities conducted at the above-referenced site. The purpose of the excavation was to evaluate the extent of and remove soil containing residual petroleum hydrocarbon concentrations above the MCTA Method A Cleanup Levels from the Site. Based on the *Supplemental Phase II Environmental Site Assessment* conducted by Associated Earth Sciences, Inc. ("AESI")the primary area of concern was the northwestern portion of the Property, which was occupied by a gas station, known *as Gasamet*. The station operated from the mid-1960's until the late 1980's, at which time most of the station features were removed. Soil boring locations (EB-4, EB-5, EB-6, and EB-7) were used as starting points and visual and olfactory indicators were used in the field to estimate the extent of the presence of petroleum hydrocarbons. Final extents were then verified with laboratory analytical analysis of delineation samples taken from the surrounding sidewalls and bottom of the excavation at the conclusion of each day.

SECTION II. SITE DESCRIPTION

Site Description:

The subject Property of this Site Remedial Excavation is comprised of one irregularly-shaped 3.76-acre Parcel, located on the south side of Pacific Highway East in Fife, Washington. One building, occupied by *Fife RV Center*, is situated on the southcastern corner of the Property. It is an approximately 10,763 square foot, 2-story structure with the main entrance to the north. An approximately 1,000 square foot, 1-story structure is situated northeast of the main building along the eastern Property boundary. Asphalt parking areas surround the structure on all sides and are utilized for the storage and showing of the RV inventory. On the west side of the Property lies an approximately 0.77 acre vacant gravel parking lot, occasionally used to store RV inventory.

The Property is situated between Blair Waterway (leading to Commencement Bay), which is approximately 4,000 feet to the north and the Puyallup River, which is located 3,000 feet to the southwest and flows to the northwest into Commencement Bay. Slopes in the vicinity of the Site descend to the southwest towards the Puyallup River. The elevation of the parcel north of Pacific Highway East (Econolodge) is approximately that of the subject Parcel, 11 feet above mean sea level ("MSL"), however, Pacific Highway East itself is approximately 4 feet above that. The topography slopes steadily in a southerly direction from Pacific highway East towards the subject Parcel until the local topographic low, 4 feet above MSL at the drainage area southwest of the Site.

Surrounding Area Description:

Surrounding areas include a drainage area to the south with Interstate 5 adjoining beyond. The neighboring Parcel to the east includes approximately 5.24 acres which is leased by Fife RV Center for use as additional storage. Formerly included with this Parcel before being subdivided in 2004, situated along Pacific Highway East to the north, is a *Travelodge*. This Parcel is listed on Washington State Department of Ecology ("Ecology") Voluntary Cleanup Program List as Site No. SW0601 and is known as *Homotel*. It has been confirmed to contain petroleum products and metals at concentrations above the State Cleanup Levels in soil and in groundwater.

Pacific Highway East, followed by an *Econolodge*, are adjoining the subject Property to the north. Formerly included within the same Parcel as the subject Property is a Tahoma Express Gas Station and a Jack in the Box adjoin to the west (north of excavation area) followed by the Port of Tacoma Road. The Tahoma Express Gas Station was listed on Ecology's Site Cleanup List as Site No. 5015. The Ecology Database lists the site as formerly having petroleum hydrocarbons at concentrations above the State Cleanup Levels in soil and groundwater. The site received a No Further Action determination from Ecology in 1993. A drainage area is located off-Property to the southwest with Interstate 5 beyond.

Site Development Description:

Based on historical research, from the mid 1960's until the late 1980's a *Gasamet* gas station occupied this portion of the Property with the pump islands situated along the northern Property boundary and partially onto the current Jack in the Box Property. The Underground Storage Tank ("UST") Basins were located to the east and west of the pump islands with the station building situated along the southwestern Property boundary. A wooded water retention area, known as a Bio-Swale, is located on the northwest corner of the Parcel. A qualitative record of test pit activities conducted in 2000 indicated strong petroleum odor in soil in the upper four feet of excavated soil in this area (Documentation from the City of Fife permit office is included in the Supplemental Documents section of Appendix).

Previously Identified Contaminants of Concern:

AESI performed a Supplemental Phase II Environmental Site Assessment on December 18 and 19, 2014 in the Areas of Concern identified in their Phase I Environmental Site Assessment dated October 29, 2013. Petroleum compounds were identified as Contaminants of Potential Concern. Total Petroleum Hydrocarbons as Gasoline ("TPHg") along with Benzene, Toluene, Ethylbenzene, and Total Xylenes were present at concentrations above the MTCA Method A Cleanup Levels in soil and groundwater.

Site Observations and Reported Conditions:

With the exception of the above referenced environmental concern, there were no additional Recognized Environmental Conditions or concerns identified as potential impacts to the Property resulting from AESI's *Phase 1 Environmental Site Assessment* or the Supplemental Phase II Environmental Site Assessment.

SECTION III. GEOLOGY AND HYDROGEOLOGY

Geologic Conditions:

The precise Property location is N 47° 14' 34.44" / W 122° 22' 58.80" as determined by DeLorme mapping data. The Site is located in Universal Transverse Mercator Zone 11. The Site elevation is approximately 9 to 12 feet above mean sea level. As observed during the Site visit and confirmed on the USGS topographic map, the subject Property is relatively flat. As is commonly the case in low-lying areas near sea level, many roads and properties appear to be elevated several feet above the original grade. Evidence of the original grade may be seen in the decrease in elevation evident north of Pacific Highway East, north of the subject Property. A ditch is located a few tens

Site Remedial Excavation Report Fife RV Center, Fife, WA of feet south of the Property adjoining to the south. A second ditch is located east of the property adjoining to the east. The field west of the subject Property slopes markedly to the level of the ditch to the south. Pacific Avenue East is elevated approximately two feet above the Site.

The regional topography within the Commencement Bay tidal flats is that of the nearly planar surface generated by the placement of artificial fill material in the later decades of the nineteenth century and the early years of the twentieth century. Elevations on ridges over one mile to the south increase to more than 200 feet MSL, at the northernmost margins of the south Tacoma upland area.

During the course of the on-site Reconnaissance, particular attention was directed towards (i) pools of liquid; (ii) roads and paths that might be used for unauthorized entry; (iii) drains and sumps; (iv) stressed vegetation; (v) pits, ponds, or lagoons; (vi) surface or soil staining; (vii) ditches, catch basins, or dry wells; (viii) unidentified substance containers; (ix) location of manholes, sewer grates, sewer outfalls; and (x) other subterranean accesses. All roads, driveways, paths, and other vehicular access areas were identified and evaluated for suspected use as an avenue for transport or disposal of hazardous materials, regulated substances, or petroleum products. Railroad tracks and previous right-of-ways are also identified if present on the subject Property.

Potential wetland area indicators were considered during the on-site activities. These indicators include: (i) wetland characteristic soil types; (ii) areas that appear permanently wet during most of the year; (iii) the presence of wetlands-related submergent or emergent plants; and (iv) wetland indicative wildlife. Suspected wetlands were not observed on the Site.

As observed during the Site visit and confirmed on the USGS topographic map, the subject Property lies several hundred feet north of the base of a steep bluff, nearly 80 feet in height, on a relatively planar surface perhaps sloping regionally to the north or northeast. The Site lies near the southwest extremity of the Tacoma tidal flats; the tidal flats in this area were filled in the late nineteenth century, very likely with a variety of soils and debris, but tend to be somewhat dominated by sandy materials.

During the course of the on-site observations, particular attention was directed towards (i) pools of liquid; (ii) roads and paths that might be used for unauthorized entry; (iii) drains and sumps; (iv) stressed vegetation; (v) pits, ponds, or lagoons; (vi) surface or soil staining; (vii) ditches, catch basins, or dry wells; (viii) unidentified substance containers; (ix) location of manholes, sewer grates, sewer outfalls; and (x) other subterranean accesses. All roads, driveways, paths, and other vehicular access areas were identified and evaluated for suspected use as an avenue for transport or disposal of hazardous materials, regulated substances, or petroleum products. Railroad tracks and previous right-of-ways are also identified if present on the subject Property.

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Subsurface Soils, Regional and Local Geology:

The Puget Sound lies within a tectonic trough situated between the Olympic Mountains to the west, and the northern Cascade Mountains to the east. This trough is characterized by fault zones accommodating north-south compressional rotation, commonly resulting in predominant north-south and northwest-southeast oriented faults and fault zones. Elliott Bay lies north of the Seattle Fault Zone, while Tacoma's Commencement Bay lies south of the northernmost Tacoma Fault zone rupture. A major fault is mapped below the bluffs on which central Tacoma was developed, along the western margin of Commencement Bay. Commencement Bay and the Puyallup River Basin lie on the down dropped side of the fault. The Commencement Bay intertidal zone has been elevated by the emplacement of fill throughout the early20th century. The uppermost soils in the Puyallup River Valley are dominated by alluvial and fluvial sediments and to the southeast, occasionally volcanic mud flows originating below the slopes of the Mount Rainier volcano. Deep borehole data indicate approximately 1,800 feet of unconsolidated glacial and interglacial sediments in the former tidal flats in the vicinity of the subject Property.

The subject Property and vicinity, south of the Blair Waterway, are mapped as Quaternary Alluvium. These soils are characterized as:

"Gravel, sand, silt, and clay. Deposited chiefly by modern streams, but includes some swamp deposits. Includes marine deposits near the mouth of the Puyallup river thickness ranges from a few feet to as much as 600 feet. Yields small to moderate quantities of water to wells. Locally capable of large yields."

Ground-Water Occurrence and Stratigraphy of Unconsolidated Deposits, Central Pierce County, Washington, Water Supply Bulletin No. 22, State of Washington, Department of Water Resources, Kenneth L. Walters and Grant E. Kimmel, 1968

Geologic Map of the Poverty Bay 7.5' Quadrangle, King and Pierce Counties, Washington, US Geological Survey, D.B. Booth, H.H. Waldron, and K.G. Trost, 2004, Open File Report OF 77-9. Washington State Department of Natural Resources,

Geologic Map of the Tacoma North 7.5' Quadrangle, King and Pierce Counties, Washington, US Geological Survey, unpublished draft.

Geologic Map of the City of Tacoma, Pierce County Washington, Mackey Smith, 1977, and unpublished maps on topographic base by Timothy J Walsh, Washington State Department of Natural Resources, circa 1987.

Groundwater Hydrology of the Tacoma-Puyallup Area, Pierce Country, Washington, USGS Water Resources Investigation 99-4013, M.A. Jones, L.A. Orr, J.C. Ebbert, and S.S. Sumioka, 1999.

Unconsolidated sediments documented during excavation activities at the subject Property include: Gravel (FILL) at depths between the ground surface and a depth of 1 foot, and Poorly Graded Sand (FILL) between depths of 1 and 3 feet near the Northern Property Boundary, grading to depths between 1 and 5 feet near the Southern Property Boundary. Beneath the Sand FILL, Sandy Silt was uniformly present at the Site. The exception to this General Description was the Possible Former UST Basins, which Contained Poorly Graded Sand (FILL) to a depth of approximately 9 feet below ground surface. The Basins were encountered in the Northeast, Central, and West Excavation Areas.

A Washington Department of Transportation test boring advanced near the intersection of the Port of Tacoma Road and Interstate 5, documents the presence of gravel with sand and sand to a depth of 8 feet, underlain by at least 12 feet of silt or silt with sand. The shallow gravels may represent fill material placed atop natural fluvially and alluvially deposited silts and sandy silts. These fill materials may be expected underneath roadways and developed properties, and are often designed to elevate the surface above shallow groundwater and reduce susceptibility to flooding due to groundwater flooding during wet periods, and flooding due to heavy precipitation or breaches and overtopping of the levee system or the associated ditch systems.

Subsurface and Hydrological Characteristics - Groundwater Flow:

The principal aquifers in the Puget Sound Region occur in glacial drift, that along with finer grained interglacial sediments, underlie the basin lowland to depths often exceeding 1,000 feet. Sand and gravel units within the glacial drift form the principle aquifers. These aquifers receive ample recharge from the typically heavy precipitation characteristic of western Washington. The glacial drift in the Puget Sound region varies greatly in composition and water yielding capacity. Typically, wells in glacial drift that tap silt, clay, or till in the region at approximately 75 to 100 feet below ground surface may have yields of 100 gallons or more per minute. Deeper wells tapping thick, saturated layers of highly permeable gravel and coarse sand, typically at depths greater than 250 feet below ground surface, can yield more than 1,000 gallons per minute.

Static water levels north and east of the subject Property have been recorded between depths of three to six feet bgs. During the AESI Phase II, water levels were reported to range from three to seven feet bgs on the subject Property. Ditches in the vicinity are estimated to be as much as four to five feet deep. Groundwater flow direction has been documented at the property to the north as flowing to the south-southwest; to the west and southwest at the current *Travelodge* property, adjacent to the east; and at the former Texaco Station, adjacent to the northwest, as flowing to the west-southwest, or to the south or southwest. Topography is not always a reliable basis for predicting groundwater flow direction, and flow may vary considerably from site to site, according to local influences such as the presence of production or irrigation wells and variations in geologic material and the geometry of distinct geologic units.

Ā groundwater dividē, north of which groundwater flow may be expected to flow toward Commencement Bay, is likely present perhaps as near as a few hundred feet to the north of the Site; this groundwater divide may migrate considerable. The straightened and levi-bound Lower Puyallup River channel is located approximately 3,000 feet south west of the subject Property. Groundwater in the vicinity of the Site, based upon water level data may flow predominantly in the direction of the Puyallup River channel, but may also flow to the west or northwest where the groundwater system is influence by elevated Puyallup River water levels during flood stage or the wet winter seasons.

Components of an extensive ditch system are visible south of the Site, along the northern and southern margins of Interstate 5, and north of Pacific Highway East. Portions of the ditch system to the north may discharge to Wapato Creek to the east. Ditches to the south may not be connected to the system to the north. When the water table is low, during dry summer months, water entering ditches may, in part, infiltrate toward the water table; when the water table is higher, during wet winter periods, groundwater may discharge to deeper drainage ditches.

Because tidal fluctuations approach 15 or more feet in the Tacoma area, complex fluctuations in ground water levels and flow direction may occur within some low lying areas near Commencement Bay. Tidal fluctuations may potentially influence groundwater flow at the subject Property, given its location approximately 3,000 feet from the Blair Waterway and approximately 3,000 feet northeast of the Puyallup River channel. Groundwater flow direction at low tide may potentially be diverted somewhat to the west or even northwest.

Jones, Orr and Ebbert depict the shallow alluvial aquifer of Commencement Bay as hydraulically connected to adjoining glacial aquifers above; in general groundwater is expected to flow from the bluffs above, toward Commencement Bay and the Puyallup River, with a significant flow component in the direction of river flow, toward Commencement Bay.

> "Aquifer Qc1 [Jones 1999] is generally a confined aquifer except where it is exposed at the surface, where it is unconfined, or not completely saturated beneath Qvt [Vashon Till]. It consists largely of sand and gravel deposits but does contain silt and clay within the sand

and gravel matrix. ... The altitude of the top of this aquifer ranges from 50 feet below sea level to 509 feet above sea level."

Groundwater Hydrology of the Tacoma-Puyallup Area, Pierce Country, Washington, USGS Water Resources Investigation 99-4013, M.A. Jones, L.A. Orr, J.C. Ebbert, and S.S. Sumioka, 1999.

Ground-Water Occurrence and Stratigraphy of Unconsolidated Deposits, Central Pierce County, Washington, Water Supply Bulletin No. 22, State of Washington, Department of Water Resources, Kenneth L. Walters and Grant E. Kimmel, 1968

Lower Duwamish Waterway, Phase I Remedial Investigation Report, Final, Lower Duwamish Waterway Group, and Development of a Three-Dimensional, Numerical Groundwater Flow Model for the Duwamish River Basin, Booth and Herman 1998.

Tidal Along-shore Groundwater Flow in a Coastal Aquifer, L. Li, D.A. Barry, F. Stagnitti, and J.Y. Parlange, Environmental Modeling and Assessment 4 (1999), pp 179-188.

The shallow gravel and sand fill is generally expected to readily transmit groundwater, and where present, groundwater contaminants, while the underlying silts and sandy silts are generally expected to impede both the vertical and horizontal flow of groundwater, and where present, groundwater contaminants. Where porous fill materials associated with utility trenches, such as those that may be present underneath Pacific Highway East, are present, these trenches may serve to intercept and divert shallow groundwater.

The presence of water during the *Site Remedial Excavation* varied greatly. Factors contributing to this variance included local rainfall, fill material thickness, and location on the Property. The source of much of the ground water onsite was from direct percolation of rainfall into the Gravel surface underlain by the Sand FILL on the Property. Additionally, surface runoff originating from the Jack in the Box Property to the Northwest, the Access Easement to the North, and the Tahoma Express Property to the northeast, flowed directly onto the subject Property. The lack of a curb on the north Property boundary coupled with poor grading as related to catch basins, allowed for surface runoff to free flow down an approximately 0.04 ft/ft grade onto the subject Property.

The Northeast Excavation, which was performed on a day with minimal precipitation, was to a total depth of 10 feet bgs. The north side revealed groundwater seepage above the Sandy SILT. In the northwestern corner, this was from a depth of approximately 3 feet, while in the northeastern corner, where FILL was present to a depth of 9 feet, groundwater seepage was recorded from depths ranging from 3 feet and 9 feet. The depth to groundwater in the bottom of the excavation at the end of the day was 10 feet bgs.

The Central Excavation, which was to a total depth of 10 feet bgs did not reveal groundwater seepage in the northern half. Only when excavating in the vicinity of the 12-inch storm sewer pipe trench, which contained gravel and cobbles, did groundwater flow into the open-hole. The water level was measured at 10 feet bgs before the Central Excavation was backfilled.

The West Excavation, which was performed in heavy precipitation, was also to a depth of 10 feet bgs. Severe sloughing of the saturated sidewalls was observed and the water level was measured to be 9 feet bgs. The Southwest Excavation, which was performed concurrently, was to be to a depth of at least 10 feet bgs, however, when the trench was exposed to the 12" storm sewer, groundwater flowed readily in to the open-hole. Groundwater was measured to be at a level of 5 feet bgs. The excavation was then abandoned. No water was encountered in the Southeast Excavation.

The lower Puyallup River levee system was constructed in the 1940s:

"The Flood Control Act of Junc28, 1938 provided for the construction and maintenance of a channel conveyance project. The project provides for a channel with a capacity of 50,000 cfs between the East 11th Street bridge and the lower 2.2 miles at Commencement Bay, by straightening the channel, building levees, and making all necessary bridge changes. The East 11th Street bridge at the lower end of the project is 0.75 mile above the mouth of the Puyallup River. The project was completed in 1950."

During a period of record flooding in January 2009, Puyallup River flow peaked at 41,500 cfs; channel sedimentation during the last six decades is believed to have decreased the channel cross section and therefore capacity. The USACE estimates that, in the absence of flood control efforts imposed by the management of releases from the Mud Mountain Dam, "the peak flow in the Puyallup River at Puyallup would have exceeded 70,000 cfs" in January 2009.

"The Puyallup River enters Commencement Bay in the City of Tacoma. The estuary historically covered an area approximately 5,800 acres in size. From 1877 to 1988, over 98 percent of the estuary was modified, leaving only 187 acres of mudflat, 90 acres of subtidal and intertidal vegetated shallows, and only 57 acres of the original tidal marsh. ... Additional alterations to the Commencement Bay contributed to the now degraded and filled delta region."

"The lower Puyallup River levees are primarily constructed on fine-grained silt and clay, with deposits of clean sand to silty sand and gravelly sand. On a large scale, these soils are generally uniform the levees themselves are composed of a mixture of the existing native deposits with the embankments and nearby foundation soils containing cobbles, boulders, and wood pilings."

"Sediment transport has been estimate to range from 440,000 to 1,400,000 tons annually, with the majority of these sediments characterized as fine sediments..."

Puyallup River Section 905(b) WRDA 86 Analysis, U.S. Army Corps of Engineers, Seattle District, March 18, 2009.

The City of Tacoma supplies potable water within the city limits. The City of Tacoma reports its water source as the upper eastern sections of the Green River watershed along the western flanks of the Cascade Mountains; the city also maintains groundwater production wells within the same area, in the vicinity of the Eagle Gorge Reservoir and the Howard Hanson Dam, some twenty miles east of the subject Property. A municipal well field, utilized during high demand periods, is located near Interstate 5 in south Tacoma, over three miles west of the subject Property.

SECTION IV. FIELD WORK

Site Activities:

The Site Remedial Excavation activities were performed on October 3, 4, 5, 6, 7, 20, 21, and 24, 2016 under contract with Aerotech. The subsurface remedial excavation was performed by

Site Remedial Excavation Report Fife RV Center, Fife, WA equipment owned by and operated by Langseth. Dump trucks subcontracted by Langseth transported 1,685.24 tons of potentially contaminated soil to the Landfill and Recycling, Inc. ("LRI") Landfill located at 30919 Meridian Street East, Graham, Washington (see Weight Tickets in Appendix). All subsurface work was overseen by an experienced Certified Washington UST Site Assessor, Nicholas Gerkin. The laboratory analytical services were performed by a State of Washington Licensed Laboratory, Advanced Analytical Environmental Testing Laboratory, Inc. ("Advanced Analytical") in Redmond, Washington.

Notifications - "Public" Utilities:

Due to the age and nature of the Site, a "public" utilities notification was performed prior to the start of work. Aerotech Environmental Consulting, Inc.¹ performed the "public" utilities notification on September 28, 2016, and was issued Ticket Number 16314495 by the Utilities Underground Location Center.

According to the Utilities Underground Location Center the utilities, notification included:

ADTEL	INTEGRA TELECOM	(800)762-0592
CC7711	COMCAST CABLE	(800)762-0592
FIFE01	CITY OF FIFE	(253)922-9315
MCCHRD01	MCCHORD PIPELINE COMPANY	(253)383-1651
MCCHRD01	MCCHORD PIPELINE COMPANY	(253)383-1651
OLYPE01	BC/OLYMPIC PIPE LINE COMPANY	(425)981-2517
PUGE07	PUGET SOUND EVERGY ELECTRIC	(888)728-9343
PUGG07	PUGET SOUND ENERGY GAS	(888)728-9343
QLNWA24	CTLQL-CENTURYLINK	(800)778-9140
TACPWR01	TACOMA PWR & CLICK NETWORK	(253)502-8263

Notifications - Private Utilities Location:

Additionally, Aerotech Environmental Consulting, Inc engaged personnel of Mountain View Locating, LLC of Bonney Lake, Washington to locate on Site exterior utilities on September 30 and October 19, 2016, prior to the start of the on Site excavation activities. Mr. Dave Schaff was present representing Mountain View Locating, LLC. Mr. Nick Gerkin and Mr. Steve Fletcher, a Subsurface Utility Expert were present, representing Aerotech.

No unanticipated or unexpected situations were discovered or encountered during the "private" locating activities. Based upon pavement markings made by utility location technicians; the location of visible utility fixtures such as gas valves, electrical panels and manholes; the locations of patched pavement; and the presence of anomalies detected by induction methodologies, possible and probable locations of buried utilities were identified and marked, in order to safely guide the progress of the remedial excavation.

Ground Penetrating Radar Subsurface Investigation:

A Ground Penetrating Radar Study and magnetometer survey were performed in the Areas of Concern on September 30 and October 19, 2016 by Mr. Dave Schaff of Mountain View Locating, LLC, with special attention to planned borehole locations. Mr. Nick Gerkin representing Aerotech Environmental, was also present during the radar survey in order to guide the investigation and interpret results.

A Ground Penetrating Radar ("GPR") Study is a geophysical methodology which uses radar

Aerotech Environmental Consulting, Inc., was previously issued a Contractor Identification Number by the non-profit Utilities Underground Location Center (www.callbeforeyoudig.com).

pulses to reflect off of subsurface structures and thus provide an image of the subsurface conditions and the possible presence of subsurface objects. The depth of GPR Survey is determined by the electrical conductivity of the ground and the survey equipment transmitting frequency, and is limited to eight to thirteen feet below ground surface. However, the presence of significant subsurface obstructions, concrete rebar, or surficial obstructions, may limit the depth of radar penetration, the accuracy or resolution of the radar data, and ultimately the ability to accurately interpret and identify possible buried objects, or natural subsurface interfaces.

Excavation Activities (Phase 1):

On October 3 and 4, 2016, Aerotech observed Langseth excavate an area, of approximately 1250 square feet to a depth of 10 feet bgs. The presence of an electrical conduit to the north, storm sewer conduit to the northeast, and the 6-inch water main to the southwest limited the Northeast Excavation in these directions. Conveyance system remnants including piping were discovered in the vicinity of the P5 locations at a depth of approximately 3 to 4 feet bgs. Samples were acquired at the P1 through P11 locations at depths ranging from 3 to 10 feet bgs. Groundwater level was measured to be at 10 feet bgs. 110 pounds of Regenesis Oxygen Release Compound Advanced ("ORC Advanced") was mixed in to the floor of the excavation using the excavator bucket. A 70-foot long by 10-foot wide Cool Guard HRL36 Liner was then installed on the north and northeast sidewalls of the excavation from ground surface to the total depth of 10 feet bgs. The excavation was then backfilled by Langseth.

On October 5 and 6, 2016, Aerotech observed Langseth excavate an area, of approximately 700 square feet to a depth of 10 feet bgs. The presence of an electrical conduit to the southwest and northwest and the 6-inch water main to the northeast limited the Central Excavation in these directions. The majority of conveyance system remnants including piping were discovered throughout the excavation at a depth of approximately 3 to 4 feet bgs. Samples were acquired at the P12 through P19 locations at depths ranging from 5 to 10 feet bgs. 110 pounds of ORC Advanced was mixed in to the floor of the excavation using the excavator bucket. A 30-foot long by 10-foot wide Cool Guard HRL36 Liner was then installed on the northwest sidewall of the excavation from ground surface to the total depth of 10 feet bgs. The excavation was then backfilled by Langseth.

Test Pit Activities:

On October 6, 2016, excavation activities were suspended to begin digging test pits. Samples were to be collected at various areas of the site to acsertain the extent of soil containing petroleum hydrocarbons at concentrations above the MTCA Method A Cleanup Levels. Aerotech observed Langseth excavate each test pit, each of which was approximately 10 feet long by 4 feet wide. After samples were collected, soil was replaced back in to each hole from which it originated.

Test pits were excavated during October 6 and October 7, 2016. Soil containing petroleum hydrocarbons at concentrations above the MTCA Method A Cleanup Levels in TP3, TP6, TP7, TP8, and TP9. The laboratory analytical results from test pit activities identified what was to become the West, Southwest, Southeast excavations along with the final southern half of the Central excavation.

Excavation Activities (Phase 2):

On October 20, 2016, in heavy precipitation, Aerotech observed Langseth excavate an area, of approximately 670 square feet to a depth of 10 feet bgs. The presence of a 12-inch storm sewer conduit to the south, electrical conduit to the east, and the bio-swale to the northwest limited the West Excavation in these directions. Samples were acquired at the P20 through P24 locations at depths ranging from 5 to 12 feet bgs. Extreme sloughing was observed from the eastern sidewall.

165 pounds of ORC Advanced was mixed in to the floor of the excavation using the excavator bucket. Groundwater was measured at 9 feet bgs. An area immediately to the south of approximately 170 square feet, the Southwest Excavation, was then excavated by Langseth. The exposure of the storm sewer trench to the north allowed water to readily flow into the open-hole which stabilized at 5 feet bgs. No additional samples were collected from this area. 22.5 pounds of ORC Advanced was mixed in to the floor of the excavation using the excavator bucket. The hole was abandoned due to the level of saturation. The excavation was then backfilled by Langseth.

On October 21, 2016, in heavy precipitation, Aerotech observed Langseth excavate an area, of approximately 600 square feet to a depth of 10 feet bgs. The presence of a 12-inch storm sewer conduit to the southeast, and the 6-inch water main to the northeast limited the extension of the Central Excavation in these directions. Samples were acquired at the P25 through P28 locations at depths ranging from 3 to 10 feet bgs. Extreme sloughing was observed from the eastern sidewall. 55 pounds ORC Advanced was mixed in to the floor of the excavation using the excavator bucket. The excavation was then backfilled by Langseth.

On October 24, 2016, Aerotech observed Langseth excavate an area adjoining the Northeast Excavation from sample point P11 to sample points TP1 and TP2, of approximately 250 square feet to a depth of 10 feet bgs. The presence of the 6-inch water main to the southwest, electrical conduit to the southeast, and a storm sewer conduit to the northeast limited the extension of the Northeast Excavation in these directions. A sample were acquired at the P29 location at a depth of 3 feet bgs. No groundwater was encountered. The excavation was then backfilled by Langseth.

On October 24, 2016, Aerotech observed Langseth excavate an area, of approximately 650 square feet to a depth of 10 feet bgs. The presence of a 12-inch storm sewer conduit to the south and electrical conduit to the west limited the second extension of the Central Excavation in these directions. Samples were acquired at the P30 through P31 locations at depths ranging from 5 to 10 feet bgs. Extreme sloughing was observed from the western sidewall. 22.5 pounds of ORC Advanced was mixed in to the floor of the excavation using the excavator bucket. The excavation was then backfilled by Langseth.

On October 24, 2016, Aerotech observed Langseth excavate an area, of approximately 310 square feet to a depth of 5 feet bgs. The presence of an electrical conduit to the northwest limited the Southeast Excavation in this direction. Samples were acquired at the P32 through P34 locations at depths of 3 feet bgs. The excavation was then backfilled by Langseth.

Soil Sample Collection:

A total of 84 discrete soil samples were collected and preserved in accordance with EPA Method 5035A on October 3, 4, 5, 6, 7, 20, 21 and 24, 2016 from test pits and the sidewalls and the floor of the excavations. Sample collection depths ranged from 3 to 12 feet bgs. Visual or olfactory evidence of petroleum impacted soil was observed between depths of 3 and 10 feet bgs in the vicinity of the former pump islands and UST Basins.

A Trimble GeoXH 2008 series Global Positioning System unit was used to collect latitudinal and longitudinal coordinates for each sample location. Each sample location, along with reference points onsite were recorded onsite by John Sidor, an Aerotech Georaphic Information Systems Professional to within one meter accuracy.

Samples were placed in unpreserved 40cc glass vials and/or unpreserved four-ounce glass jars. Select samples were placed into methanol-preserved 40cc glass vials if they were to arrive at the laboratory after greater than 24 hours. Each sample was given a unique identifier number and placed in an iced cooler for sample preservation. A Chain of Custody recorded the collection and handling of every sample. The soil samples were then submitted to Advanced Analytical. Soil samples were analyzed for TPHg in accordance with Method NWTPH-Gx and benzene, toluene, ethylbenzene, and total xylenes in accordance with EPA Method 8021B. Select soil samples were

analyzed for lead in accordance with EPA Method 7010 and Chlorinated Volatile Organic Compounds in accordance with EPA Method 8260B. Select samples from Northeast, Central, and West Excavation areas were also analyzed for diesel ("TPHd") and motor oil ("TPHo") in accordance with NWTPH-Dx extended for further verification that the two constituents were not contaminants of concern. Laboratory analytical reports and Chain of Custody Records are provided in the Appendix. Cumulative soil sample laboratory analytical results can be found in Table 1.

Site Restoration:

Upon completion of each section of the remedial excavation, the open-holes were backfilled with pit run - 1 1/4" crushed rock, sand, and quarry spalls to allow for improved compaction. Each excavation area was subsequently compacted every three to four vertical feet by Langseth using a backhoe-mounted tamper. The crushed rock was also spread evenly across the parking lot to restore any disturbed areas from excavation-related work.

SECTION V. CONCLUSION

Aerotech, along with Langseth, performed a Remedial Excavation in two phases during the month of October 2016. Analytical results from the Phase II Supplemental Phase II Environmental Site Assessment were used to guide the initial stages of the excavation. Analytical results from samples collected during the Site Remedial Excavation and during Test Pit activities were used to determine the final extents. Major subsurface utilities were identified at several locations on the Property and limited the removal of soil containing petroleum hydrocarbons at concentration above the MTCA Method A Cleanup Levels at these locations. TPHg, Benzene, Toluene, Ethylbenzene, and Xylenes remain Constituents of Concern at the Site. Chlorinated Volatile Organic Compounds, TPHd, and TPHo not detected above laboratory Minimum Reporting Limits. Lead was detected, but at concentrations well below the MCAT method A Cleanup Level for Soil. A saturated, wooded. Bio-Swale is located on-Property to the Northwest of the Site Remedial Excavation and limited soil removal in that direction. Southwest of the Property, the topography slopes downward into a water retaining drainage area, which also limited soil removal. Former fueling station conveyance system remnants along with 1,685.24 tons of potentially contaminated soil to the LRI Landfill located at 30919 Meridian Street East, Graham, Washington. A total of 84 soil samples were collected from the sidewalls and bottom of the excavation in the vicinity of the former fuel pump and former UST basin. Groundwater was encountered on Site at levels ranging form 3 to 10 feet bgs.

STATEMENT OF THE WASHINGTON CERTIFIED UST SITE ASSESSOR

I have performed this Site Remedial Excavation in accordance with generally accepted environmental practices, procedures, and regulatory requirements, as of the date of this Report. I have employed the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of this part. I have the specific qualifications based upon education, training, and experience necessary to plan and implement subsurface investigations.

Signature of the Washington Certified UST Site Assessor:

Signature - Nicholas Gerkin

STATEMENT OF THE LICENSED GEOLOGIST

As stipulated in the Regulatory Code of the State of Washington Title 18, Chapter 18.220, the undersigned is a licensed Geologist in the State of Washington, and has met the statutory requirements of RCW § 18.220.060 for such licensing including, but not limited to, educational requirements, work and field experience, examination proficiency, and acceptance by the State Licensing Board.

The undersigned Licensed Geologist has supervised the geological work performed as described in attached Report – a majority of said work being performed by employees of the firm which employs undersigned Licensed Geologist – as delineated in RCW Title 18, Chapter 18.220, Paragraph 190.



Site Remedial Excavation Report Fife RV Center, Fife, WA

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APPENDIX

- Table & Figures
- Photographs
- Weight Tickets
- Project Contract Documents
- Laboratory Analytical Results
- Laboratory Chains of Custody
- Supplemental Documents

Site Remedial Excavation Report Fife RV Center, Fife, WA

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• Table & Figures

TABLE 1 SOIL ANALYTICAL RESULTS Fife RV Center 3410 Pacific Highway East Fife, Washington 1 of 2

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**	050'0>	050.0>	050.0>	<0.020			0.2>	OI	91/90/01	bIG	b10(10,)
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	050'0>	050.0>	050.0>	<0.020	05>	<50	0.2>	OT	91/50/01	bId	bIt(10.)
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#### 3410 Pacific Highway East Fife RV Center SOIL ANALYTICAL RESULTS T ABLE 1

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peəq	Xylenes	peuseue Ethyl-	ansuloT	Benzene	oHqT	PHdl	aHqT	Depth	gnildme2 Date	Soil Boring/Point Well ID	di siqme2
ສະ/ສະ	8x/8w	8x/8w	ax/8m	mg/kg	2x/8w	3×//8w	8x/8w	Feet BGS	210.0	0111214	and the state
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	050.0>	050.0>	050.0>	<0.020		**	0.2>	S	91/20/01	SIGT	('2)2191
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	530	SE	52	9.4			2,200	S	10/21/16	bzs	P25(5')
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MTCA = Model Toxic Control Act Cleanup Level (WAC173-340-900)

A mouto factor and set relation preserved make year of soil
BGS Below Ground Surface mg/kg = milligram of analyte per kilogram of soil
A = not detected at indicated Laboratory Detection limits -- = not analyte per kilogram of soil
A = not detected at indicated Laboratory Detection limits -- = not analyte per kilogram of soil
A = not detected at indicated Laboratory Detection limits -- = not analyte per kilogram of soil
A = not detected at indicated Laboratory Detection limits -- = not analyte per kilogram of soil
A = not detected at indicated Laboratory Detection limit value by NWTPH-Gx
A = Total Petroleum Hydrocarbons - Biesel by NWTPH-Gx
A = Total Petroleum Hydrocarbons - Motor Oli by NWTPH-Gx
A = Notor Oli Dy NWTPH-Gx
A = Notor Oli Dy NWTPH-Gx
A = Notor Oli Dy NWTPH-Gx

MD = Not Detected (minimum detection limit unknown)
MD = Not Detected (minimum detection limit unknown)
Bolded numbers and red-shaded cells denote concentrations above the MATA Method A Cleanup Levels for soil
Soil from which this sample originated was removed during the Remedial Excavation











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## • Photographs



The Beginning of the Remedial Excavation with CoolGuard Liner Prepared for Installation



North Property Boundary - Three Feet of SAND fill atop Sandy SILT



Regenesis ORC (Oxygen Release Compound) Advanced Pellets (Facilitates the Breakdown of Petroleum



View of the Saturated, Wooded Bio-Swale from the West



View of the Northeast Remedial Excavation



Northeast Excavation with Installed Cool Guard Liner and ORC Pellets



Central Excavation



Central Excavation with Installed CoolGuard Liner and ORC Pellets



Pump Island Remnants Removed from Central Excavation



Test Pitting Activities (Between Phases of the Excavation)



Storm Water Accumulation - Sourced from Jack in the Box and Tahoma Express Properties



West Excavation (with Exposed Power Utility)



Deep West Excavation and Shallow Southwest Excavation (Foreground)



Shallow Southeast Excavation



Application of ORC Pellets in Southern Portion of Central Excavation



Southern Edge of Central Excavation (with Exposed 12" Storm Sewer Pipe)



Water Accumulation in Southwestern Excavation (Appears to Flow from 12" Storm Sewer Trench)



Additional ORC Application in Central Excavation

# • Weight Tickets

PCRCD, LLC DBA LRI-304TH ST 17925 Meridian St E Puyallup, WA 98375 (253) 847-7555

# AMOUNT DUE AMOUNT PAID

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LANGSETH ENVIRO SVCS, INC.

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7517 PORTLAND AVENUE E TACOMA WA 98404

ACCOUNT NO.

J/03/16   03-00432746   H16   SPECIAL WASTE-IN CO   36.07     10/03/16   03-00432790   H15   SPECIAL WASTE-IN CO   33.57     10/04/16   03-00432840   21   SPECIAL WASTE-IN CO   27.27     10/04/16   03-00432850   28   SPECIAL WASTE-IN CO   27.09     10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432906   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-004329353   21   SPECIAL WASTE-IN CO   28.07     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.70	DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
10/03/16   03-00432653   H16   SPECIAL WASTE-IN CO   30.35     10/03/16   03-00432658   H24   SPECIAL WASTE-IN CO   30.31     10/03/16   03-00432730   H15   SPECIAL WASTE-IN CO   33.10     3/03/16   03-00432740   H24   SPECIAL WASTE-IN CO   33.10     3/03/16   03-00432740   H24   SPECIAL WASTE-IN CO   33.10     3/03/16   03-00432740   H24   SPECIAL WASTE-IN CO   33.57     10/03/16   03-00432740   H15   SPECIAL WASTE-IN CO   33.57     10/04/16   03-00432850   28   SPECIAL WASTE-IN CO   27.27     10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432851   13   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   33.61							
10/03/16   03-00432653   H16   SPECIAL WASTE-IN CO   30.35     10/03/16   03-00432658   H24   SPECIAL WASTE-IN CO   30.31     10/03/16   03-00432731   H15   SPECIAL WASTE-IN CO   33.10     0/03/16   03-00432740   H24   SPECIAL WASTE-IN CO   33.10     0/03/16   03-00432746   H16   SPECIAL WASTE-IN CO   33.10     10/03/16   03-00432746   H16   SPECIAL WASTE-IN CO   33.57     10/03/16   03-00432790   H15   SPECIAL WASTE-IN CO   27.27     10/04/16   03-00432850   28   SPECIAL WASTE-IN CO   27.29     10/04/16   03-00432853   16   SPECIAL WASTE-IN CO   29.44     10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432905   28   SPECIAL WASTE-IN CO   33.61     10/04/16   03-00432905   13   SPECIAL WASTE-IN CO   33.61	10/03/16	03-00432649		815	SPECIAL WASTE-IN CO	36,67	
10/03/16   03-00432658   H24   SPECIAL WASTE-IN CO   30.31     10/03/16   03-00432731   H15   SPECIAL WASTE-IN CO   33.27     \$   \$   \$   SPECIAL WASTE-IN CO   33.10     \$   \$   \$   SPECIAL WASTE-IN CO   33.10     \$   \$   \$   SPECIAL WASTE-IN CO   33.10     \$   \$   SPECIAL WASTE-IN CO   33.57     10/03/16   \$   \$   SPECIAL WASTE-IN CO   27.27     10/04/16   \$   \$   SPECIAL WASTE-IN CO   27.27     10/04/16   \$   \$   SPECIAL WASTE-IN CO   27.27     10/04/16   \$   \$   SPECIAL WASTE-IN CO   27.63     10/04/16   \$   \$   SPECIAL WASTE-IN CO   27.63     10/04/16   \$   \$   SPECIAL WASTE-IN CO   32.89     10/04/16   \$   \$   SPECIAL WASTE-IN CO   34.31     10/04/16   \$   \$   SPECIAL WASTE-IN CO   32.89     10/04/16   \$   \$   SPECIAL WASTE-IN CO   34.31     10/04/16   \$	10/03/16	03-00432653		Н16	SPECIAL WASTE-IN CO		
10/03/16     03-00432731     H15     SPECIAL WASTE-IN CO     33.27       m0/03/16     03-00432740     H24     SPECIAL WASTE-IN CO     33.10       J/03/16     03-00432746     H16     SPECIAL WASTE-IN CO     36.07       10/03/16     03-00432790     H15     SPECIAL WASTE-IN CO     33.57       10/04/16     03-00432850     28     SPECIAL WASTE-IN CO     27.27       10/04/16     03-00432851     16     SPECIAL WASTE-IN CO     29.44       10/04/16     03-00432853     13     SPECIAL WASTE-IN CO     29.44       10/04/16     03-00432894     21     SPECIAL WASTE-IN CO     27.63       10/04/16     03-00432894     21     SPECIAL WASTE-IN CO     32.89       10/04/16     03-00432894     21     SPECIAL WASTE-IN CO     32.89       10/04/16     03-00432906     28     SPECIAL WASTE-IN CO     28.07       10/04/16     03-00432915     13     SPECIAL WASTE-IN CO     28.07       10/04/16     03-00432906     28     SPECIAL WASTE-IN CO     27.72       10/05/16	10/03/16	03-00432658		H24	SPECIAL WASTE-IN CO		
ACO/03/16     03-00432740     H24     SPECIAL WASTE-IN CO     33.10       J/03/16     03-00432746     H16     SPECIAL WASTE-IN CO     36.07       10/03/16     03-00432790     H15     SPECIAL WASTE-IN CO     33.57       10/04/16     03-00432840     21     SPECIAL WASTE-IN CO     27.27       10/04/16     03-00432850     28     SPECIAL WASTE-IN CO     27.09       10/04/16     03-00432851     16     SPECIAL WASTE-IN CO     29.44       10/04/16     03-00432853     13     SPECIAL WASTE-IN CO     29.44       10/04/16     03-00432894     21     SPECIAL WASTE-IN CO     28.07       10/04/16     03-00432894     21     SPECIAL WASTE-IN CO     30.46       10/04/16     03-00432906     28     SPECIAL WASTE-IN CO     28.07       10/04/16     03-00432915     13     SPECIAL WASTE-IN CO     28.07       10/04/16     03-00432915     13     SPECIAL WASTE-IN CO     28.07       10/04/16     03-00432953     21     SPECIAL WASTE-IN CO     33.61       10/05/16	10/03/16	03-00432731		H15	SPECIAL WASTE-IN CO		
J/03/16   03-00432746   H16   SPECIAL WASTE-IN CO   36.07     10/03/16   03-00432790   H15   SPECIAL WASTE-IN CO   33.57     10/04/16   03-00432840   21   SPECIAL WASTE-IN CO   27.27     10/04/16   03-00432850   28   SPECIAL WASTE-IN CO   27.09     10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   29.44     10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   30.46     10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432905   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   28.07     10/05/16   03-00433190   16   SPECIAL WASTE-IN CO   28.70 <t< td=""><td>.0/03/16</td><td>03-00432740</td><td></td><td>H24</td><td>SPECIAL WASTE-IN CO</td><td>33.10</td><td></td></t<>	.0/03/16	03-00432740		H24	SPECIAL WASTE-IN CO	33.10	
10/04/16   03-00432840   21   SPECIAL WASTE-IN CO   27.27     10/04/16   03-00432850   28   SPECIAL WASTE-IN CO   27.09     10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   29.44     10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   30.46     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/05/16   03-00432953   21   SPECIAL WASTE-IN CO   28.07     10/05/16   03-0043090   16   SPECIAL WASTE-IN CO   28.07     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     1	J/03/16	03-00432746		H16	SPECIAL WASTE-IN CO	1 1	
10/04/16   03-00432850   28   SPECIAL WASTE-IN CO   27.09     10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   29.44     10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   30.46     10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432906   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432933   21   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   28.07     10/05/16   03-00432953   21   SPECIAL WASTE-IN CO   28.07     10/05/16   03-00432900   16   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433130   12   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.50 <td< td=""><td>10/03/16</td><td>03-00432790</td><td></td><td>H15</td><td>SPECIAL WASTE-IN CO</td><td>33.57</td><td></td></td<>	10/03/16	03-00432790		H15	SPECIAL WASTE-IN CO	33.57	
10/04/16   03-00432851   16   SPECIAL WASTE-IN CO   29.44     10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   30.46     10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432906   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   23.61     10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35	10/04/16	03-00432840		21	SPECIAL WASTE-IN CO	27.27	
10/04/16   03-00432853   13   SPECIAL WASTE-IN CO   27.63     10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   30.46     10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432906   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   28.07     10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   27.72     10/05/16   03-00433090   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433166   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   23.95	10/04/16	03-00432850		28	SPECIAL WASTE-IN CO	27.09	
10/04/16   03-00432894   21   SPECIAL WASTE-IN CO   30.46     10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432906   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   27.72     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   27.72     10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433090   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433166   24   SPECIAL WASTE-IN CO   23.95     10/05/16	10/04/16	03-00432851		16	SPECIAL WASTE-IN CO	29.44	
10/04/16   03-00432901   16   SPECIAL WASTE-IN CO   32.89     10/04/16   03-00432906   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   34.31     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   27.72     10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433090   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   22.27     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433166   24   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   27.25	10/04/16	03-00432853		13	SPECIAL WASTE-IN CO	27.63	
10/04/16   03-00432906   28   SPECIAL WASTE-IN CO   28.07     10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   34.31     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   27.72     10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433090   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.75     10	10/04/16	03-00432894		21	SPECIAL WASTE-IN CO	30.46	
10/04/16   03-00432915   13   SPECIAL WASTE-IN CO   34.31     10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   27.72     10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433090   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433136   24   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.75     10	10/04/16	03-00432901		16	SPECIAL WASTE-IN CO	32.89	
10/04/16   03-00432953   21   SPECIAL WASTE-IN CO   27.72     10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433090   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433136   24   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75     10/	10/04/16	03-00432906		28	SPECIAL WASTE-IN CO	28.07	
10/05/16   04-00034099   16   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433090   32   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433136   24   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   32.42	10/04/16	03-00432915		13	SPECIAL WASTE-IN CO	34.31	
10/05/16   03-00433090   SPECIAL WASTE-IN CO   33.61     10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   29.50     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433166   24   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75	10/04/16	03-00432953		21	SPECIAL WASTE-IN CO	27.72	
10/05/16   03-00433113   32   SPECIAL WASTE-IN CO   28.70     10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   32.27     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   32.27     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433166   24   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75	10/05/16	04-00034099		16	SPECIAL WASTE-IN CO	33.61	
10/05/16   03-00433120   1   SPECIAL WASTE-IN CO   28.50     10/05/16   03-00433130   16   SPECIAL WASTE-IN CO   32.27     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   32.27     10/05/16   03-00433136   13   SPECIAL WASTE-IN CO   29.35     10/05/16   03-00433166   24   SPECIAL WASTE-IN CO   23.95     10/05/16   03-00433176   32   SPECIAL WASTE-IN CO   27.25     10/05/16   03-00433181   1   SPECIAL WASTE-IN CO   27.75     10/05/16   03-00433192   16   SPECIAL WASTE-IN CO   27.75	10/05/16	03-00433090			SPECIAL WASTE-IN CO	33.61	
10/05/16     03-00433130     16     SPECIAL WASTE-IN CO     32.27       10/05/16     03-00433136     13     SPECIAL WASTE-IN CO     29.35       10/05/16     03-00433166     24     SPECIAL WASTE-IN CO     23.95       10/05/16     03-00433176     32     SPECIAL WASTE-IN CO     27.25       10/05/16     03-00433181     1     SPECIAL WASTE-IN CO     27.75       10/05/16     03-00433192     16     SPECIAL WASTE-IN CO     32.42	10/05/16	03-00433113		32	SPECIAL WASTE-IN CO	28.70	
10/05/16     03-00433130     16     SPECIAL WASTE-IN CO     32.27       10/05/16     03-00433136     13     SPECIAL WASTE-IN CO     29.35       10/05/16     03-00433166     24     SPECIAL WASTE-IN CO     23.95       10/05/16     03-00433176     32     SPECIAL WASTE-IN CO     27.25       10/05/16     03-00433191     1     SPECIAL WASTE-IN CO     27.75       10/05/16     03-00433192     16     SPECIAL WASTE-IN CO     32.42	10/05/16	03-00433120		1	SPECIAL WASTE-IN CO	28.50	
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10/05/16     03-00433181     1     SPECIAL WASTE-IN CO     27.75       10/05/16     03-00433192     16     SPECIAL WASTE-IN CO     32.42	10/05/16	03-00433166		24	SPECIAL WASTE-IN CO	23.95	
10/05/16 03-00433192 16 SPECIAL WASTE-IN CO 32.42	10/05/16	03-00433176	1	32	SPECIAL WASTE-IN CO	27.25	
				1	SPECIAL WASTE-IN CO	27.75	
10/06/16 03-00433209 HLW13 SPECIAL WASTE-IN CO 29.27				16	SPECIAL WASTE-IN CO	32.42	
				HLW13	SPECIAL WASTE-IN CO	29.27	
10/06/16 03-00433216 HLW23 TIM SPECIAL WASTE-IN CO 27.69	10/06/16	03-00433216		HLW23 TIM	SPECIAL WASTE-IN CO	27.69	

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PCRCD, LLC DBA LRI-304TH ST 17925 Meridian St E Puyallup, WA 98375 (253) 847-7555

LANGSETH ENVIRO SVCS, INC.

7517 PORTLAND AVENUE E TACOMA WA 98404

	Printed	10/26/	16
	DA	TE	PAGE
	10/26	5/16	2
	INV	<b>DICE NUM</b>	BER
AMOL	INT DUE	AMOU	NT PAID

ACCOUNT NO.

DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
10/06/16	03-00433242		HLW 14	SPECIAL WASTE-IN CO	24.67	
10/06/16	03-00433245		HLW 18	SPECIAL WASTE-IN CO	23.75	
10/06/16	03-00433249		HLW 28	SPECIAL WASTE-IN CO	26.85	927.86
10/07/16	03-00433529			Payment	1.00	10 11 00
10/20/16	03-00435084		H18	SPECIAL WASTE-IN CO	30,08	
10/20/16	03-00435089		H24	SPECIAL WASTE-IN CO	33.36	
A0/20/16	03-00435093		H16	SPECIAL WASTE-IN CO	31.55	
)/20/16	03-00435094		H14	SPECIAL WASTE-IN CO	27.11	
10/20/16	03-00435128		H18	SPECIAL WASTE-IN CO	23.95	
10/20/16	03-00435139		H24	SPECIAL WASTE-IN CO	27.83	
10/20/16	03-00435143		H16	SPECIAL WASTE-IN CO	30.17	
10/20/16	03-00435156		H14	SPECIAL WASTE-IN CO	24.66	
10/20/16	03-00435174		H18	SPECIAL WASTE-IN CO	26.80	
10/20/16	03-00435187		H24	SPECIAL WASTE-IN CO	29.43	
10/21/16	03-00435249		gael	SPECIAL WASTE-IN CO	29.79	
10/21/16	03-00435258		22	SPECIAL WASTE-IN CO	32.83	
10/21/16	03-00435266		21	SPECIAL WASTE-IN CO	24.83	
10/21/16	03-00435270		24	SPECIAL WASTE-IN CO	29,16	
10/21/16	03-00435301		GAEL	SPECIAL WASTE-IN CO	25.64	
10/21/16	03-00435310		22	SPECIAL WASTE-IN CO	28.68	
10/21/16	03-00435320		21	SPECIAL WASTE-IN CO	30.21	
10/21/16	03-00435327			SPECIAL WASTE-IN CO	27.99	
10/24/16	03-00435517		H22	SPECIAL WASTE-IN CO	29.03	
10/24/16	03-00435523		H28	SPECIAL WASTE-IN CO	21.79	
10/24/16	03-00435526		H16	SPECIAL WASTE-IN CO	30.78	
10/24/16	03-00435529		H14	SPECIAL WASTE-IN CO	25.40	
10/24/16	03-00435576		H16	SPECIAL WASTE-IN CO	33.95	
10/24/16	03-00435584		H28	SPECIAL WASTE-IN CO	26.85	
10/24/16	03-00435589		H14	SPECIAL WASTE-IN CO	22.74	
10/24/16	03-00435624	1	H16	SPECIAL WASTE-IN CO	32.60	
PCRCD, LLC DBA LRI-304TH ST 17925 Meridian St E Puyallup, WA 98375 (253) 847-7555 ·

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# AMOUNT DUE AMOUNT PAID

LANGSETH ENVIRO SVCS, INC.

7517 PORTLAND AVENUE E TACOMA WA 98404

ACCOUNT NO.
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DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
10724716	03-00435636 Net weight	1685.24	H28	SPECIAL WASTE-IN CO	20.17	757.38

# PHASE 1 / PCS

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## 927.86 TONS

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					SITE	TI	CKPT	GRID		WEIG	HMASTER
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	A WA 98404					H16	<del>-</del> .		THER		
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<u>.</u>							RATE	EXI	ENSION	FEE	TUTAL
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304th Landfill	-30919 Meridian/S	SR 161, Gra	aham, WA								TENDERED
	VDA 2050 HARLOW 16										
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TO BEOR	IDER CONTACT NORTH S	tar forms (87	7) 499-0492	SIGNAT	TURE						<u> </u>

CT NORTH STAR FORMS (877) 499-0492

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					SITE	TICKET	GRID	0	WEIGH	HMASTER
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	Scale 1 Gros		113440	LB			inbo	und - Cha	rge ticket		
	Scale 2 Tare	Wt.	41300	LB	•						
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(Marine Section 2017)											
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CRCD, LLC dl	ha I BI-304th			03	004	32731			Jol	
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<u> </u>	Not Weight	66540 DESCRII				RATE	Ð	TENSION	FEE	TOTAL
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h Landfill-	30919 Meridian/	SR 161, Graham, WA								TENDERED
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illup, WA 98 ال	8375			10/04	/16	10/04/16	12:13	12:40		
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PCRCD, LLC d					03	TE IN	432850 DATE OUT	r l	TIME OUT		ROLL OFF
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PCRCD, LLC db LR-304/h 1/228 Meridian SI E eilay, WA 98375     03     00433245     Rebecca       001079 LANGSTH ENVIRO SVCS, INC. 75/7 PORTAND AVENUE E TACOMA WA B8404     01     01     1006/16     09:24       001079 LANG SVENUE E TACOMA WA B8404     1006/16     00/178     LANGSTH ENVIRO SVCS, INC. 75/7 PORTAND AVENUE E TACOMA WA B8404     1000/178     LANGSTH ENVIRO SVCS, INC. 75/7 PORTAND AVENUE E TACOMA WA B8404     1000/178     Inbound - Charge ticket       Scale 1 Gross WL Scale 2 Tare WL AURIER AND SCALE AND SPECIAL WASTE-IN CO     100/2/16     100/2/16     10/2/16       000/78     LANGSTE IN CO     100/2/16     10/2/16     10/2/16       000/78     LANGSTE IN CO     10/2/16     10/2/16     10/2/16       000/78     LANGSTE IN CO     10/2/16     10/2/16     10/2/16       000/78     LANGSTE IN CO     10/2/16     10/2/16     10/2/16       00/78     WDA 2050     10/2/16     10/2/16     10/2/16       00/78     WDA 2050     10/2/16     Robecca     10/2/16       00/78     UC 2050     10/2/16     10/2/16     Robecca       00/78     WDA 2050     10/2/16     10/2/16     10/2/16       00/78     WDA 2050     10/2/16     10/2/16     Robecca       00/78     UC 2050     10/2/16     10/2/16     10/2/16					SITE	- Tl	CKET	GRID	· · · · · ·	WEIGH	MASTER	
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To PORT AND AVENUE E         HLW 18         OTHER           TACOMA WA BRADY         Sele 1 Gross WL         8400         LB         Inbound - Charge licket           Sele 1 Gross WL         40900         LB         Inbound - Charge licket         976           OTK         Net Wight         40900         LB         976         1014L           OTK         Net Wight         40900         LB         976         1014L           23,75         TON         SPECIAL WASTE-IN CO         976         1014L         976           Operating hours 8AM to 4PM M-F & 8AM to Noon on Set.         976         976         976         976           Operating hours 8AM to 4PM M-F & 8AM to Noon on Set.         976         976         976         976         976           Operating hours 8AM to 4PM M-F & 8AM to Noon on Set.         976         976         976         976         976         976         976         976         976         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977         977	ļ, ·								1		a and pressed and	
TACCMA WA 88404         HLW 18         OTHER           Scele 1 Gross WL         88400         LB         Inbound - Charge licket           orr.         Net Miggit         47560 LB         Inbound - Charge licket           orr.         Net Miggit         47560 LB         PATE         EXTENSION           orr.         Net MARCH         Reserver         Extension         Reserver           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Extension         Genetic Kate           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Extension         Reserver         Rould off           Yot Acdobit         Stree         Trace         Genetic Kate         Rould off           Yot Acdobit         Stree         Trace         Inbound - Charge licket         Rould off           Yot Acdobit         Stree         Trace         HLW23 TIM         OTHER           Operating ho						REFE	RENCE			OHIGIN		
Scele 1 Gross Wi.         88400         LB         Inbound - Charge ticket           grv.         Net Wight         47660 LB         pare         Extension         PEE         TOTAL           23.75         TON         SPECIAL WASTE-IN CO         pare         Extension         PEE         TOTAL           23.75         TON         SPECIAL WASTE-IN CO         pare         Extension         PEE         TOTAL           23.75         TON         SPECIAL WASTE-IN CO         pare         Extension         PEE         TOTAL           23.75         TON         SPECIAL WASTE-IN CO         pare         Extension         PEE         TOTAL           23.76         TON         SPECIAL WASTE-IN CO         pare         PEE         TOTAL         PEE         TOTAL           23.76         WDA 2050         NOTES         HARLOW 18         pare         pare         PEE         PEE <td></td> <td></td> <td></td> <td></td> <td></td> <td>HLW 1</td> <td>8</td> <td> c</td> <td>THER</td> <td></td> <td></td>						HLW 1	8	c	THER			
Scale 2 Tars WL         40800         LB           OTX         Net Wight         DEScarner, P         PATE         EXTENSION         PEE         TOTAL           23,75         TON         SPECIAL WASTE-IN CO         Image: Control of the second seco							inhau	nd Chora	n tieket			
OT     Not Weight     45500 armovits     ANTE     Extension     FEE     TOTAL       23.75     TON     SPECIAL WASTE-IN CO     Image: Construction of the second se							noou	inu - Charge	Buckel			
23,75         TON         SPECIAL WASTE-IN CO           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Statistandooutide           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Statistandooutide           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Statistandooutide           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Statistandooutide           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Statistandooutide           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Statistandooutide           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Statistandooutide           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Net Extension           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Net Extension           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Net Extension           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Net Extension           Yith Landifi-3019 Meridian/SR 161, Graham, WA         Extension	Net						BATE	FXT	ENSION	FEE		
Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Follows 8/7) 480-042         State Post approximation (Single Contract North State Post All And All And State Post All And State Post All And State Post All And State Post All And All												
Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       304h LandRil-30919 Meridian/SR 181, Graham, WA       PO #     WDA 2050 NOTES       NOTES     HARLOW 18         PCRCD, LLC dba LRI-3041h     SIGNATURE         17925 Meridian St E     DATE IN       Puyallup, WA 88375     DATE IN       00179 LANGSETH ENVIRO SVCS, INC.     TO RECOME 2000 (19 provide)       7617 PORTLAND AVENUE E     TACOMA WA 8847       Scale 1 Gross WI.     \$6220       Scale 1 Gross WI.     \$6220       Scale 1 Gross WI.     \$6220       VI.     40840       OTV.     Nei Wight       Scale 1 Gross WI.     \$6220       VI.     Scale 1 Gross WI.       Scale 1 Gross WI.     \$6220       VI.     B820 LB       Inbound - Charge ticket       Scale 1 Gross WI.     \$6220       VI.     B820 LB       Orter I NO     Special Charge ticket       Scale 1 Gross WI.     \$6220       VI.     B820 LB       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       PO #     WDA 2050	23.75	TON	SPECIAL WASTE-IN CO									
Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       304h Landfill-30919 Meridian/SR 161, Graham, WA       PO #     WDA 2050 NOTES       NOTES     HARLOW 18         PCRCD, LLC dba LRI-304th     SIGNATURE         90 # WDA 2050     SIGNATURE         PCRCD, LLC dba LRI-304th     00432216       17925 Meridian St E     DATE IN       Puyallup, WA 88375     DATE IN       001079 LANGSETH ENVIRO SVCS, INC.     TACOMA WA 8847       7517 PORTLAND AVENUE E     TACOMA WA 8847       TACOMA WA 88404     LB       OTV. Nel Wight     S220       Vertice     TON       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       VE     PO M       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       PO #     WDA 2050												
Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       304h Landfill-30919 Meridian/SR 161, Graham, WA       PO #     WDA 2050 NOTES       NOTES     HARLOW 18         PCRCD, LLC dba LRI-304th     SIGNATURE         90 # WDA 2050     SIGNATURE         PCRCD, LLC dba LRI-304th     00432216       17925 Meridian St E     DATE IN       Puyallup, WA 88375     DATE IN       001079 LANGSETH ENVIRO SVCS, INC.     TACOMA WA 8847       7517 PORTLAND AVENUE E     TACOMA WA 8847       TACOMA WA 88404     LB       OTV. Nel Wight     S220       Vertice     TON       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       VE     PO M       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       PO #     WDA 2050												
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Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       304h Landfill-30919 Meridian/SR 161, Graham, WA       PO #     WDA 2050 NOTES       NOTES     HARLOW 18         PCRCD, LLC dba LRI-304th     SIGNATURE         90 # WDA 2050     SIGNATURE         PCRCD, LLC dba LRI-304th     00432216       17925 Meridian St E     DATE IN       Puyallup, WA 88375     DATE IN       001079 LANGSETH ENVIRO SVCS, INC.     TACOMA WA 8847       7517 PORTLAND AVENUE E     TACOMA WA 8847       TACOMA WA 88404     LB       OTV. Nel Wight     S220       Vertice     TON       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       VE     Inbound - Charge ticket       Scale 1 Gross WI.     96220       VE     PO M       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       TENDERED       PO #     WDA 2050												
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PO # NOTES         WDA 2050 HARLOW 18           Ito REORDER CONTACT NORTH STAR FORMS (#77) 449-0462         SIGMATURE           Ito REORDER CONTACT NORTH STAR FORMS (#77) 449-0462         SIGMATURE           PCRCD, LLC dba LRI-3041h         00433216         Rebacca           17925 Meridian SL E         DATE IN DATE OUT         VEIGHMASTER           Puyallup, WA 98375         DATE IN DATE OUT         TIME OUT         VEIGHMASTER           001079 LANGSETH ENVIRO SVCS, INC.         TACOMA WA 88404         DATE IN DATE OUT         TIME OUT         VEIGUE           Scale 1 Gross W1.         96220         LB         Inbound - Charge ticket         Scale 2 Tare W1.         40840         LB           OTV.         Nel Weight         5820 Suprisol         Rate         Extension         FEE         TOTAL           27.69         TON         SPECIAL WASTE-IN CO         Inbound - Charge ticket         Scale 1 Gross M1.         Scale 2 Tare W1.         GREGRAMOUNT MARTER           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         TENDERED         TOTAL         FEE         TOTAL           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         TENDERED         TENDERED         TENDERED											TENDERED	
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ID REORDER CONTACT NORTH STAR FORMS (#77) 489-0492         SIGNATURE           PCRCD, LLC dba LRI-304th         STE         GRID         WEIGHMASTER           17925 Meridian SI E         DATE IN         DATE OUT         TIME OUT         VEIIGHMASTER           Puyallup, WA 98375         DATE IN         DATE OUT         TIME OUT         VEIIGHMASTER           001079 LANGSETH ENVIRO SVCS, INC.         TACOMA WA 98404         DATE IN         DATE OUT         VEIIGHMASTER           Scale 1 Gross W1.         96220         LB         Inbound - Charge ticket         Scale 2 Tare VI.         40840         LB           OTY.         Nel Weight         SEGNIFICIN ^B RATE         EXTENSION         FEE         TOTAL           27.69         TON         SPECIAL WASTE-IN CO         Indianal Action on Sat.         SIGNATURE         SIGNATURE           Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         TENDERED         TENDERED         TENDERED         TENDERED           PO #         WDA 2050         WDA 2050         SIGNATURE         TENDERED         TENDERED		•									CHECK NO	
PCRCD, LLC dba LRI-304th       SITE       TICKET       GRID       WEIGHMASTER         17925 Meridian St E       D3       00433216       Rebecca         Puyallup, WA 98375       DATE IN       DATE OUT       TIME OUT       ROLL OFF         10/08/16       10/08/16       D08:13       D8:29       D444444444444444444444444444444444444												
PCRCD, LLC dba LRI-304th       03       00433216       Rebecca         17925 Meridian Si E       DATE IN       DATE OUT       TIME OUT       VEHICLE       ROLL OFF         Puyaliup, WA 98375       001079 LANGSETH ENVIRO SVCS, INC.       7617 PORTLAND AVENUE E       TACOMA WA 98404       HLW23 TIM       OTHER         Scale 1 Gross WI.       96220       LB       Inbound - Charge ticket       Scale 2 Tare Wt.       40840       LB         OTY.       Stale 2 Tare Wt.       40840       LB       Inbound - Charge ticket       TOTAL         27.69       TON       SPECIAL WASTE-IN CO       FATE       EXTENSION       FEE       TOTAL         Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       "HL Landfill-30919 Meridian/SR 161, Graham, WA       TENDERED       StateAction       TENDERED         PO #       WDA 2050	TO REORDER CON	TACT NORTH	STAR FORMS (877) 469-0492	SIGNA								
17925 Meridian SI E     DATE IN     DATE IN     DATE OUT     TIME OUT     VEHICLE     ROLL OFF       Puyallup, WA 98375     001079 LANGSETH ENVIRO SVCS, INC.     10/06/16     10/06/16     08:13     p8:29     001078       001079 LANGSETH ENVIRO SVCS, INC.     7517 PORTLAND AVENUE E     10/06/16     10/06/16     08:13     p8:29       TACOMA WA 86404     HLW23 TIM     OTHER       Scale 1 Gross Wt.     96220     LB     Inbound - Charge ticket       Scale 2 Tare Wt.     40840     LB     Inbound - Charge ticket       OTY.     Wolkint     55380     LB     Inbound - Charge ticket       27.69     TON     SPECIAL WASTE-IN CO     FEE     TOTAL       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.     YMERTAL OUNTRY     TENDERED       PO #     WDA 2050     WDA 2050     Image: Comparison of the compari					SITE	т	ICKET	GRI	5	WEIGH	IMASTER	
17925 Meridian SI E     DATE IN     DATE IN     DATE OUT     TIME OUT     VEHICLE     ROLL OFF       Puyallup, WA 98375     001079 LANGSETH ENVIRO SVCS, INC.     10/06/16     10/06/16     08:13     p8:29     001078       001079 LANGSETH ENVIRO SVCS, INC.     7517 PORTLAND AVENUE E     10/06/16     10/06/16     08:13     p8:29       TACOMA WA 86404     HLW23 TIM     OTHER       Scale 1 Gross Wt.     96220     LB     Inbound - Charge ticket       Scale 2 Tare Wt.     40840     LB     Inbound - Charge ticket       OTY.     Wolkint     55380     LB     Inbound - Charge ticket       27.69     TON     SPECIAL WASTE-IN CO     FEE     TOTAL       Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.     YMERTAL OUNTRY     TENDERED       PO #     WDA 2050     WDA 2050     Image: Comparison of the compari												
Puyallup, WA 98375 Puyallup, WA 98375 001079 LANGSETH ENVIRO SVCS, INC. 7517 PORTLAND AVENUE E TACOMA WA 98404 Scale 1 Gross WI. 96220 LB Scale 2 Tare WI. 40840 LB OTY. Net Weight 55800 E 27.69 TON SPECIAL WASTE-IN CO Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat. Yth Landfill-30919 Meridian/SR 161, Graham, WA PO # WDA 2050		21-304th									1 9011 OFF	
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7517 PORTLAND AVENUE E TACOMA WA 98404       HLW23 TIM       OTHER       Scale 1 Gross Wt. 96220 LB Scale 2 Tare Wt. 40840 LB       Inbound - Charge ticket       Scale 2 Tare Wt. 40840 LB       OTY. Weight       OTY. Weight       TON SPECIAL WASTE-IN CO       OTAL       OPerating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       Yuh Landfill-30919 Meridian/SR 161, Graham, WA       TENDERED							1.4.4.4.				A STATE LOOKE STRUCTURE AN	
TACOMA WA 98404     HLW23 TIM     OTHER       Scale 1 Gross Wt.     96220     LB     Inbound - Charge ticket       Scale 2 Tare Wt.     40840     LB       OTY.     Net Weight     DESCRIPTION     RATE     EXTENSION       27.69     TON     SPECIAL WASTE-IN CO     Image: Comparison of the comparison of th						(REFE	RENCE 16.					
Scale 1 Gross Wt.     96220     LB     Inbound - Charge ticket       Scale 2 Tare Wt.     40840     LB       OTY.     Weight     05280 Reprion       27.69     TON     SPECIAL WASTE-IN CO       Image: Comparison of the second seco						HLW2	23 TIM		OTHER			
Scale 2 Tare Wt.     40840     LB       OTY.     Vinit     55380     LB       27.69     TON     SPECIAL WASTE-IN CO     FEE     TOTAL   Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       'th Landfill-30919 Meridian/SR 161, Graham, WA     TENDERED											~~~~~	
OTY.     Net Weight     55380 DESCRIPTION     RATE     EXTENSION     FEE     TOTAL       27.69     TON     SPECIAL WASTE-IN CO     Image: Constraint of the second							Inbou	und - Charg	e ticket			
27.69       TON       SPECIAL WASTE-IN CO         Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.       Image: Comparison of the second s												
Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat. <ul> <li>TENDERED</li> <li>TENDERED</li> <li>WDA 2050</li> <li>WDA 2050</li> </ul> <ul> <li>WDA 2050</li> <li>WDA 2050</li> <li>WDA 2050</li> <li>WDA 2050</li> </ul> <ul> <li>Tendered</li> <li>Tendered</li> <li>Tendered</li> <li>Tendered</li> <li>Tendered</li> <li>Tendered</li> <li>Tendered</li> </ul>	QTY.	UNIT	DESCRIP	TION			RATE	EX	TENSION	FEE	TOTAL	
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Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.         Image: th Landfill-30919 Meridian/SR 161, Graham, WA         PO #       WDA 2050												
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TACOMA WA 9		~				HLW1	3	c	THER		
Sca	ale 1 Gross ale 2 Tare ¹		100600 42060	LB LB			Inbour	nd - Charge	e ticket		
OTY.	Weight UNIT		58540 DESCRIPT	IB-			RATE	EXT	ENSION	FEE	TOTAL
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perating hours 8AM	to 4PM M	-F & 8AM to	Noon on Sat.								NET AMOUNT
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D # WDA 205	50										
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TO REORDER CON	TACT NORTH S	TAR FORMS (877)	499-0492	SIGNAT	URE	:	•			·····	

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## PHASE 2 / PCS

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304th Landfill-	30919 Meridian/S	SR 161, Grah	am, WA								TENDERED
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TO REORI	DER CONTACT NORTH S	TAR FORMS (877)	499-0492	SIGNAT	URE					······································	
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	rs 8AM to 4PM N 30919 Meridian/S										
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TO DEODOED CONTACT MODETH STAR FORMER (977) 400 0402

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، PCRCD, LLC o	tha LRI-304th				03	00	435093/	,		Jol	۰.
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illup, WA 9	98375				10/20	 1/18	10/20/16	09:49	10:08		
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	rs 8AM to 4PM N 30919 Meridian/S						·····				
NOTES H	DA 2050A HARLOW 16	TAR ENRIE (877) 490	0.0402	SIGNAT	URE						CHECK NO.
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CRCD, LLC	jba LRI-304th				03	00	435094			Jol	
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oyallup, WA f	80310				10/2	0/16	10/20/16	10:08	10:09		
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	Scale 1 Gross Scale 2 Tare		96960 42740	LB LB	<u> </u>		Inbou	und - Char	OTHER ge ticket		
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27.11	TON	SPECIAL WAS	STE-IN CO				-				
	s 8AM to 4PM M 0919 Meridian/S								,		
o4th Landfill-3 PO # WD											

17925 Meridian St E         DATE IN         DATE OUT         TIME OUT           Jlup, WA 98375         10/20/16         10/20/16         11:25         11:36	Jo I VEHICLE ROLL OFF
17925 Meridian St E         DATE IN         DATE OUT         TIME OUT           Jllup, WA 98375         10/20/16         11:25         11:36	
10/20/16 10/20/16 11:25 11:36	
7517 PORTLAND AVENUE E	ORIGIN
TACOMA WA 98404 H18 OTHER	
Scale 1 Gross Wt. 90560 LB Inbound - Charge ticket	
Scale 2 Tare Wt. 42660 LB	
Vert Weight 47900 LB	FEE TOTAL
23.95 TON SPECIAL WASTE-IN CO	
Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.	NET/AMOUNT
304th Landfill-30919 Meridian/SR 161, Graham, WA	TENDERED
PO # WDA 2050A	
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	WEIGHMASTER
PCRCD, LLC dba LRI-304th 03 00435139 J	l ol
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	Puyallup, WA 9037 (253) 847-7555	75		03	-	35156				JOI			· .
	1079										VEHICLE	19 <b>2</b>	ROLLOFF
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	PO I WDA 20 NOTES HARLO										1.** f	Ċ	HANGE
			SIGNATURE:									C	HECK#

#### ** Duplicate Ticket **

PCRCD, LLC dba LRI-304 17925 Meridian St E Puyallup, WA 98375	lth	03		ICKET	: <u>52</u> )	GRID		JOI	WEIGHN	ABTER LANS
(253) 847-7555 1079 LANGSETH ENVIRO 7517 PORTLAND A TACOMA, WA 984	VENUE E	00AT	EIN: 0/16	20ATE OL	6	14:09	TIME 0	17 34) 1		ROLLOFF
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Operating nours DAM to 4PM M-F & BAM to Noon on S

PO WDA 2050A NOTES HARLOW 24

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allup, WA 983							DATE OU	<u>,,                                   </u>		VENICLE	ROLL OFF
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	cale 2 Tare	VVI.	45260 60340	LB							
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Operating hours 8/	AM to 4PM N	1-F & 8AM to N	Noon on Sat.								
304th Landfill-3091	9 Meridian/S	SR 161, Graha	im, WA				•			-	TENDERED
PO # WDA 2											
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Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat. 304th Landfill-30919 Meridian/SR 161, Graham, WA	
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th Landfill-30	919 Meridian/	SR 161, Graham, WA							•	TENDERED
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-	2050A									
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allup, WA 98375						DATE CO	<u></u>	TIME OU	T VEHICLE	ROLL OFF
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J TO REORDER CONTACT NORTH	STAR FORMS (877) 4	99-0492	SIGNAT	URE						
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allup, WA 9837											
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7517 PORTLA	H ENVIRO	SVCS, INC.			31-3	. • REFE	RENCE				
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TACOMA WA	ND AVENU					H14	RENCE		THER		
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TACOMA WA S S	ND AVENU 98404 cale 1 Gross cale 2 Tare	JE E s Wt.	42740 45480 DESCRIPTI	LB			Inbou	Cond - Charge	e ticket		
TACOMA WA	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight	JE E s Wt. Wt.	42740 45480 DESCRIPTI	LB			Inbou	Cond - Charge	e ticket		
TACOMA WA	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight	JE E s Wt. Wt.	42740 45480 DESCRIPTI	LB			Inbou	Cnd - Charge	e ticket		
TACOMA WA	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight	JE E s Wt. Wt.	42740 45480 DESCRIPTI	LB			Inbou	Cnd - Charge	e ticket		TOTAL
TACOMA WA	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight UNIT TON	JE E s Wt. Wt. SPECIAL WA	42740 45480 DESCRIPTI STE-IN CO	LB			Inbou	Cnd - Charge	e ticket		TOTAL
TACOMA WA	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight UNIT TON TON	JE E s Wt. Wt. SPECIAL WA SPECIAL WA	42740 45480 DESCRIPTI STE-IN CO	LB			Inbou	Cnd - Charge	e ticket		TOTAL
TACOMA WA	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight UNIT TON TON	JE E s Wt. Wt. SPECIAL WA SPECIAL WA	42740 45480 DESCRIPTI STE-IN CO	LB			Inbou	Cnd - Charge	e ticket		
TACOMA WA	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight UNIT TON TON M to 4PM M 9 Meridian/S	JE E s Wt. Wt. SPECIAL WA SPECIAL WA	42740 45480 DESCRIPTI STE-IN CO	LB			Inbou	Cnd - Charge	e ticket		
TACOMA WA S S OTY. 22.74 22.74 Operating hours 8A Th Landfill-30911 PO # WDA 24	ND AVENU 98404 cale 1 Gross cale 2 Tare et Weight UNIT TON TON M to 4PM M 9 Meridian/S	JE E s Wt. Wt. SPECIAL WA SPECIAL WA	42740 45480 DESCRIPTI STE-IN CO	LB			Inbou	Cnd - Charge	e ticket		

					SITE	TICKET	GRI	D.	WEIG	HMASTER
PCRCD, LLC dba l	RI-304th				03 0	0435517			Jol	v
17925 Meridian St					DATE IN	DATE OU	т			ROLL OFF
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001079 LANGSET		SVCS. INC.			10/24/16	10/24/16	08:48 1999-1995	09:06	ORIGIN	
7517 PORTLA					- NET	PRENDE 191			Onjoin	an tha tha an
TACOMA WA	98404				H22	_ _ _,	(DTHER		
s	cale 1 Gros	s Wt.	98440	LB		Inbou	nd - Charg	e licket		
	cale 2 Tare	Wt.	40380	LB						
	et Weight		58060 DESCRIPT			RATE	EX	TENSION	FEE	TOTAL
29.03	TON	SPECIAL	WASTE-IN CO							
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Operating hours 8A 304th Landfill-3091										
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3 TO REORDER CO	NTACT NORTH S	TAR FORMS (87	7) 499-0492	SIGNAT	TURE					
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Puyallup, WA 9837										
OMATO LANCET		EVCS INC			10/24/16	10/24/16	13:55	14:17		
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TACOMA WA	98404				H28		(	DTHER		
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	et Weight		40340 DESCRIP	TION B	T	RATE	EX	TENSION	FEE	TOTAL
20.17	TON	SPECIAL	WASTE-IN CO							
Operating hours 8A	M to 4PM M	1-F & BAM 1	o Noon on Sat.			·				SANET AMOUNT
th Landfill-3091										
	a Menulaniv	SK 101, GR								TENDERED
	5 Wenulahi	56 101, 06								TENDERED
PO# WDA 2		SK 101, GR								

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#### • Project Contract Documents.

#### ENVIRONMENTAL CONTRACTOR'S CERTIFICATION

#### Fife RV Center 3910 Pacific Highway East Fife, Washington 98424

۱.	Contractor's Name: Aerotech Environmental Consulting, Inc.							
2.	Contractor's Address:	13925 Interurb	an Avenue South, S	Ste. 210, Scattle, Washington 98168				
3.	Name and title of perso	on completing this o	certification:	Alan T. Blotch / President				
4.	Answer the following prepare the report show			ntractor will have perform the assessment or				
	a. Name and Tit	le of Employee:	Alan T. Blotch -	- Environmental Professional				
	b. Length of exp	perience doing envi	ronmental assessme	nts: 31 years				
	c. Education de	grees received:		ness Administration nvironmental Law				
	d. Relevant trair	ning received:	ASTM E50 Env	ironmental Assessment Committee Meetings				
5.	Identify any certificati program or policy to c			pursuant to an official Federal. State of local Registered Environmental Assessor Issued by State of California				
6.		-		ector will use to perform the assessment. e II Environmental Site Assessment Process				
7.		any previous envirc e 1 Environmental S	•	s contractor has ever performed for the Owner				
8.				r now has, or ever had, with the above er of the property: N/A				
9.	Describe the liability in adverse environmental			claims in the event that ir fails to discover spection.				
	Professional I	Errors & Omissions	Coverage \$1,000,0	00 / claim and \$1,000,000 aggregate liability				
PENAI		01 FOR FALSE ST	TATEMENTS TO T	OF THE CRIMINAL AND/OR CIVII. THE UNITED STATES GOVERNMENT.				

Signature

<u>11-1-16</u> Date
# • Laboratory Analytical Results

ADVANCED ANALYTICAL

Environmental Testing Laboratory

October 10, 2016

Nick Gerkin Aerotech Environmental, Inc. 13925 Interurban Avenue South, Suite 210 Seattle, WA 98168

Dear Mr. Gerkin:

Please find enclosed the analytical data report for the Fife RV (C61004-1) Project.

Samples were received on *October 04, 2016.* The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

V. Ivanov

Val G. Ivanov, Ph.D. Laboratory Manager

4078 148 Ave NE∎ Redmond, WA 98052 425.702-8571 *E-mail: aachemlab@yahoo.com* 

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized.

# Advanced Analytical Laboratory (425) 702-8571

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AAL Job Number: Client: Project Manager: Client Project Name: Client Project Number: Date received:

P

C61004-1 Aerotech Environmental Nick Gerkin Fife RV na 10/04/16

.

AAL Job Number:	C61004-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/04/16

8260B, µg/kg		MTH BLK	LCS	P5(5')	P9(5')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting					10/04/16		
Date analyzed	Limits	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
МТВЕ	100	nd		nđ	nd			
Dichlorodifluoromethane	50	nd		nd	nd			
Chloromethane	50	nd		nd	nd			
Vinyl chloride	50	nd		nd	nd			
Bromomethane	50	nd		nd	nd			
Chloroethane	50	nd		nd	nd			
Trichlorofluoromethane	50	nd		nd	nd			
1,1-Dichloroethene	50	nd		nd	nd			
Methylene chloride	20	nd		nd	nd			
1.1-Dichloroethane	50	nd		nd	nd			
cis-1,2-Dichloroethene	50	nd		nd	nd			
Chloroform	50	nd		nd	nd			
1,1,1-Trichloroethane	50	nd		nd	nd			
Carbontetrachloride	50	nd		nd	nd			
1,1-Dichloropropene	50	nd		nd	nd			
1,2-Dichloroethane(EDC)	20	nd		nd	nd			
Trichloroethene	20	nd	75%	nd	nd	76%	80%	5%
1,2-Dichloropropane	50	nd		nd	nđ			
Dibromomethane	50	nd		nd	nd			
Bromodichloromethane	50	nd		nd	nd			
cis-1,3-Dichloropropene	50	nd		nd	nd			
trans-1,3-Dichloropropene	50	nd		nd	nd			
1,1,2-Trichloroethane	50	nd		nd	nd			
Tetrachloroethene	50	nd		nd	nd			
1,3-Dichloropropane	50	nd		nd	nd			
Dibromochloromethane	20	nd		nd	nd			
1,2-Dibromoethane (EDB)*	5	nd		nd	nd			
Chlorobenzene	50	nd	96%	nd	nd	83%	84%	1%
1,1,1,2-Tetrachloroethane	50	nd		nd	nd			
1,2,3-Trichloropropane	50	nd		nd	nd			
1,1,2,2-Tetrachloroethane	50	nd		nd	nd			
2-Chlorotoluene	50	nd		nd	nd			
4-Chlorotoluene	50	nd		nd	nd			
1,3-Dichlorobenzene	50	nd		nd	nd			
1,4-Dichlorobenzene	50	nd		nd	nd			
1,2-Dichlorobenzene	50	nd		nd	nd			
1,2-Dibromo-3-Chloropropane	50	nd		nd	nd			
1,2,4-Trichlorobenzene	50	nd		nd	nd			
1,2,3-Trichlorobenzene	50	nd		nd	nd			

*-instrument detection limits

AAL Job Number:	C61004-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/04/16

8260B, µg/kg		MTH BLK	LCS	P5(5')	P9(5')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
Date analyzed	Limits	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16

Surrogate recoveries							
Dibromofluoromethane	97%	95%	98%	91%	109%	117%	
1,2-Dichloroethane-d4	99%	89%	105%	104%	106%	129%	

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits M-matrix interference C - coelution with sample peaks Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

.

AAL Job Number:	C61004-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/04/16

Analytical Results					Dupl	RPD		
NWTPH-Gx / BTEX		MTH BLK	LCS	P1(10')	P1(10')	P1(10')	P2(5')	P3(10')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
Date analyzed	Limits	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd		nd	nd		nd	nd
Gasoline	5.0	nd		9.0	11	18%	nd	nd
BTEX 8021B, μg/kg								
Benzene	20	nd	90%	96	78	21%	nd	nd
Toluene	50	nd	101%	nd	nd		nd	nd
Ethylbenzene	50	nd		nd	nd		nd	nd
Xylenes	50	nd		nd	nd		nd	nd
Surrogate recoveries:								
Trifluorotoluene		94%	129%	89%	84%		84%	83%
Bromofluorobenzene		76%	83%	79%	87%		81%	80%

AAL Job Number:	C61004-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/04/16

NWTPH-Gx / BTEX		P4(5')	P5(5')	P5(10')	P6(10')	P7(3')	DOVEN	P9(10')
	0						P9(5')	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Date extracted	Reporting	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
Date analyzed	Limits	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nđ	nd	nd	nd	nd	nd	nd
Gasoline	5.0	8.5	53	nd	nd	nd	110	
<u>ВТЕХ 8021В, µg/kg</u>								
Benzene	20	nd	160	nd	nd	nd	150	nd
Toluene	50	nd	71	nd	nd	nd	nd	nd
Ethylbenzene	50	100	840	nd	nd	nd	5,100	340
Xylenes	50	nd	150	nd	nd	nd	nd	nd
Surrogate recoveries:								
Trifluorotoluene		83%	94%	80%	88%	87%	103%	83%
Bromofluorobenzene		80%	83%	79%	83%	84%	82%	84%

AAL Job Number: Client:	C61004-1 Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/04/16

NWTPH-Gx / BTEX		P10(10')	P11(10')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soi
Date extracted	Reporting	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
Date analyzed	Limits	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
NWTPH-Gx, mg/kg						
Mineral spirits/Stoddard	5.0	nd	nd			
Gasoline	5.0	nd	nd			
<u>BTEX 8021B, μg/kg</u>	00			0.40/	070/	4.0/
Benzene	20	nd	nd	84%	87%	4%
Toluene	50	nd	nd	91%	97%	6%
Ethylbenzene	50	nd	nd			
Xylenes	50	nd	nd		-	
Surrogate recoveries:						
Trifluorotoluene		81%	73%	128%	118%	
Bromofluorobenzene		83%	83%	84%	77%	

AAL Job Number: Client: Project Manager: Client Project Name:	C61004-1 Aerotech Environmental Nick Gerkin Fife RV
Client Project Name: Client Project Number:	
Date received:	10/04/16

NWTPH-Dx, mg/kg		MTH BLK	P1(10')	P2(5')	P3(10')	P4(5')	P5(5')	P5(10')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/05/16	10/05/16	10/05/16			10/05/16	10/05/16
Date analyzed	Limits	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd	nd	nd
Surrogate recoveries:								
Fluorobiphenyl o-Terphenyl		119% 113%	121% 98%	120% 97%	119% 100%	121% 95%	122% 101%	120% 100%

Data Qualifiers and Analytical Comments na - not analyzed Results reported on dry-weight basis M - matrix interference Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

C61004-1
Aerotech Environmental
Nick Gerkin
Fife RV
na
10/04/16

Analytical Results								Dupl
NWTPH-Dx, mg/kg		P6(10')	P7(3')	P9(5')	P9(10')	P10(10')	P11(10')	P11(10')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
Date analyzed	Limits	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
Kerosene/Jet fuel	20	nd						
Diesel/Fuel oil	20	nd						
Heavy oil	50	nd						
Surrogate recoveries:								
Fluorobiphenyl		123%	119%	124%	110%	127%	125%	120%
o-Terphenyl		101%	98%	98%	101%	103%	97%	95%

Data Qualifiers and Analytical Comments na - not analyzed Results reported on dry-weight basis M - matrix interference Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

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AAL Job Number:	C61004-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
<b>Client Project Number:</b>	na
Date received:	10/04/16

Metals (7010), mg/kg		MTH BLK	LCS	P5(5')		MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
Date analyzed	Limits	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16	10/04/16
Lead (Pb)	1.0	nd	106%	7.8	5.2	113%	107%	5%

ADVANCED ANALYTICAL

Environmental Testing Laboratory

October 10, 2016

Nick Gerkin Aerotech Environmental, Inc. 13925 Interurban Avenue South, Suite 210 Seattle, WA 98168

Dear Mr. Gerkin:

Please find enclosed the analytical data report for the Fife RV (C61005-1) Project.

Samples were received on *October 05, 2016*. The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

1. Ivanov

Val G. Ivanov, Ph.D. Laboratory Manager

4078 148 Ave NE∎ Redmond, WA 98052 425.702-8571 *E-mail: aachemlab@yahoo.com* 

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## Advanced Analytical Laboratory (425) 702-8571

AAL Job Number: Client: Project Manager: Client Project Name: Client Project Number: Date received:

C61005-1 Aerotech Environmental Nick Gerkin Fife RV na 10/05/16

AAL Job Number:	C61005-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/05/16

NWTPH-Gx / BTEX		MTH BLK	LCS	P8(10')	P12(5')	P12(10')	P13(5')	P13(10'
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soi
Date extracted	Reporting	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
Date analyzed	Limits	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd		nd	nd	nd	nd	лс
Gasoline	5.0	nd		nd	100	nd	6.7	nc
<u>ΒΤΕΧ 8021Β, μg/kg</u>								
Benzene	20	nd	83%	nd	420	nd	nd	nc
Toluene	50	nd	90%	nd	180	nd	nd	nc
Ethylbenzene	50	nd		nd	1,700	nd	nd	nc
Xylenes	50	nd		nd	540	nd	nd	nc
Surrogate recoveries:								
Trifluorotoluene		84%	111%	85%	117%	80%	88%	88%
Bromofluorobenzene		81%	79%	81%	94%	78%	86%	88%

AAL Job Number:	C61005-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/05/16

Analytical Results				Dupi			
NWTPH-Gx / BTEX		P14(5')	P14(10')	P14(10')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
Date analyzed	Limits	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard	5.0	nd	nd	nd			
Gasoline	5.0	60	nd	nd			
<u>BTEX 8021B, µg/kg</u>							
Benzene	20	150	nd	nd	85%	87%	3%
Toluene	50	170	nd	nd	92%	92%	1%
Ethylbenzene	50	96	nd	nd			
Xylenes	50	160	nd	nd			
Surrogate recoveries:							
Trifluorotoluene		99%	75%	75%	125%	125%	
Bromofluorobenzene		82%	73%	73%	85%	82%	

AAL Job Number:	C61005-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
<b>Client Project Number:</b>	na
Date received:	10/05/16

NWTPH-Dx, mg/kg		MTH BLK	P8(10')	P12(5')	P12(10')	P13(5')	P13(10')	P14(5')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soi
Date extracted	Reporting	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
Date analyzed	Limits	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16	10/05/16
Kerosene/Jet fuel	20	nd						
Diesel/Fuel oil	20	nd						
Heavy oil	50	nd						
Surrogate recoveries:								
Fluorobiphenyl		119%	125%	121%	123%	126%	124%	129%
o-Terphenyl		113%	109%	100%	105%	106%	103%	107%

Data Qualifiers and Analytical Comments na - not analyzed Results reported on dry-weight basis M - matrix interference Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

AAL Job Number:	C61005-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/05/16

Analytical Results			Dupl
NWTPH-Dx, mg/kg		P14(10')	P14(10')
Matrix	Soil	Soil	Soil
Date extracted	Reporting	10/05/16	10/05/16
Date analyzed	Limits	10/05/16	10/05/16
Kerosene/Jet fuel	20	nd	nd
Diesel/Fuel oil	20	nd	nd
Heavy oil	50	nd	nd

124%	120%
106%	98%

Data Qualifiers and Analytical Comments na - not analyzed Results reported on dry-weight basis M - matrix interference Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

Page 5 of 5

ADVANCED ANALYTICAL

Environmental Testing Laboratory

October 10, 2016

Nick Gerkin Aerotech Environmental, Inc. 13925 Interurban Avenue South, Suite 210 Seattle, WA 98168

Dear Mr. Gerkin:

Please find enclosed the analytical data report for the Fife RV (C61006-3) Project.

Samples were received on *October 06, 2016.* The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

1. Ivanov

Val G. Ivanov, Ph.D. Laboratory Manager

4078 148 Ave NE∎ Redmond, WA 98052 425.702-8571 *E-mail: aachemlab@yahoo.com* 

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## Advanced Analytical Laboratory (425) 702-8571

AAL Job Number: Client: Project Manager: Client Project Name: Client Project Number: Date received:

C61006-3 Aerotech Environmental Nick Gerkin Fife RV na 10/06/16

AAL Job Number:	C61006-3
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/06/16

8260B, µg/kg		MTH BLK	LCS	TP3(3')	TP3(5')	TP9(5')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
Date analyzed	Limits	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
МТВЕ	100	nd		nd	nd	nd			
Dichlorodifluoromethane	50	nd		nd	nd	nd			
Chloromethane	50	nd		nd	nd	nd			
Vinyl chloride	50	nd		nd	nd	nd			
Bromomethane	50	nd		nd	nd	nd			
Chloroethane	50	nd		nd	nd	nd			
Trichlorofluoromethane	50	nd		nd	nd	nd			
1,1-Dichloroethene	50	nd		nd	nd	nd			
trans-1,2-Dichloroethene	50	nd		nd	nd	nd			
2,2-Dichloropropane	50	nd		nd	nd	nd			
cis-1,2-Dichloroethene	50	nd		nd	nd	nd			
Chloroform	50	nd		nd	nd	nd			
1,1,1-Trichloroethane	50	nd		nd	nd	nd			
Carbontetrachloride	50	nd		nd	nd	nd			
1,1-Dichloropropene	50	nd		nd	nd	nd			
1,2-Dichloroethane(EDC)	20	nd		nd	nd	nd			
Trichloroethene	20	nd	73%	nd	nd	nd	100%	78%	26%
1,2-Dichloropropane	50	nd		nd	nd	nd			
Dibromomethane	50	nd		nd	nd	nd			
Bromodichloromethane	50	nd		nd	nd	nd			
cis-1,3-Dichloropropene	50	nd		nd	nd	nd			
trans-1,3-Dichloropropene	50	nd		nd	nd	nd			
1,1,2-Trichloroethane	50	nd		nd	nd	nd			
Tetrachloroethene	50	nd		nd	nd	nd			
1,3-Dichloropropane	50	nđ		nd	nd	nd			
Dibromochloromethane	20	nd		nd	nd	nd			
1,2-Dibromoethane (EDB)*	5	nd		nd	nd	nd			
Chlorobenzene	50	nd	96%	nd	nd	nd	117%	95%	21%
1,1,1,2-Tetrachloroethane	50	nd		nd	nd	nd			
1,2,3-Trichloropropane	50	nd		nd	nd	nd			
1,1,2,2-Tetrachloroethane	50	nd		nd	nd	nd			
2-Chlorotoluene	50	nd		nd	nd	nd			
4-Chlorotoluene	50	nd		nd	nd	nd			
1,3-Dichlorobenzene	50	nd		nd	nd	nd			
1,4-Dichlorobenzene	50	nd		nd	nd	nd			
1,2-Dichlorobenzene	50	nd		nd	nd	nd			
1,2-Dibromo-3-Chloropropane	50	nd		nd	nd	nd			
1,2,4-Trichlorobenzene	50	nd		nd	nd	nd			
1,2,3-Trichlorobenzene	50	nd		nd	nd	nd			

*-instrument detection limits

AAL Job Number:	C61006-3
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/06/16

8260B, µg/kg		MTH BLK	LCS	TP3(3')	TP3(5')	TP9(5')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
Date analyzed	Limits	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16

Surrogate recoveries							
Dibromofluoromethane	99%	103%	106%	110%	100%	108%	104%
1,2-Dichloroethane-d4	98%	96%	116%	117%	129%	117%	95%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits M-matrix interference C - coelution with sample peaks Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

AAL Job Number:	C61006-3
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/06/16

NWTPH-Gx / BTEX		MTH BLK	LCS	TP1(5')	TP2(5')	TP2(10')	TP3(3')	TP3(5')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
Date analyzed	Limits	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd		nd	nd	nd	nd	nd
Gasoline	5.0	nd		nd	nd	nd	2,500	650
BTEX 8021B, μg/kg								
Benzene	20	nd	101%	nd	nd	nd	340	530
Toluene	50	nd	112%	nd	nd	nd	350	5,300
Ethylbenzene	50	nd		nd	nd	nd	15,000	7,500
Xylenes	50	nd		nd	nd	nd	10,000	7,300
Surrogate recoveries:								
Trifluorotoluene		101%	130%	79%	83%	80%	81%	123%
Bromofluorobenzene		86%	82%	85%	87%	91%	97%	89%

.

AAL Job Number:	C61006-3
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	ла
Date received:	10/06/16

	Analytical	Results
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NWTPH-Gx / BTEX		TP3(10')	TP4(3')	TP4(5')	TP4(10')	TP5(5')	TP5(10')	TP6(5')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
Date analyzed	Limits	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd						
Gasoline	5.0	27	nd	nd	nd	nd	nd	nd
BTEX 8021Β, μg/kg								·
Benzene	20	nd						
Toluene	50	nd						
Ethylbenzene	50	180	nd	nd	nd	nd	nd	nd
Xylénes	50	250	nd	nd	nd	nd	nd	nd
Surrogate recoveries:								
Trifluorotoluene		77%	91%	84%	88%	86%	87%	80%
Bromofluorobenzene		81%	89%	84%	84%	93%	88%	87%

AAL Job Number:	C61006-3
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/06/16

NWTPH-Gx / BTEX		TP6(10')	TP7(5')	TP8(3')	TP8(5')	TP9(5')	TP9(10')	P15(10')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
Date analyzed	Limits	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd						
Gasoline	5.0	12	690	60	nd	6,090	240	nd
<u>BTEX 8021B, μg/kg</u>	20	71	900	nd	nd	4.000	590	nd
Benzene				nd	nd			nd
Toluene	50	nd	1,900	nd	nd	4,000	1,500	nd
Ethylbenzene	50	nd	32,000	1,200	nd	66,000	1,600	nd
Xylenes	50	nd	330	nd	nđ	130,000	3,700	nd
Surrogate recoveries:								
Trifluorotoluene		80%	120%	86%	74%	М	108%	74%
Bromofluorobenzene		82%	102%	87%	81%	83%	86%	82%

AAL Job Number: Client:	C61006-3 Aerotech Environmental
Project Manager:	Nick Gerkin Fife RV
Client Project Name: Client Project Number:	na
Date received:	10/06/16

Analytical Results					Dupi			
NWTPH-Gx / BTEX		P16(5')	P16(10')	P17(5')	P17(5')	P17(10')	P18(5')	P18(10')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soi
Date extracted	Reporting	10/06/16	10/06/16	10/06/16	10/06/16		10/06/16	10/06/16
Date analyzed	Limits	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd						
Gasoline	5.0	1,100	nd	nd	nd	nd	130	nd
<u>ВТЕХ 8021В, µg/kg</u>								
Benzene	20	720	nd	nd	nd	nd	290	nd
Toluene	50	72	nd	nd	nd	nd	nd	nd
Ethylbenzene	50	7,500	nd	nd	nd	nd	1,500	nd
Xylenes	50	32,000	nd	nd	nd	nd	2,400	nd
Surrogate recoveries:								
Trifluorotoluene		130%	81%	88%	90%	90%	86%	90%
Bromofluorobenzene		84%	88%	94%	84%	94%	83%	98%

AAL Job Number:	C61006-3 Aerotech Environmental
Client:	
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	па
Date received:	10/06/16

Analytical Results		Dupl					
NWTPH-Gx / BTEX		P18(10')	P19(5')	P19(10')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/06/16	10/06/16			10/06/16	
Date analyzed	Limits	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16	10/06/16
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard	5.0	nd	nd	nd			
Gasoline	5.0	nd	nd	nd			
<u>ΒΤΕΧ 8021Β, μα/kg</u>							
Benzene	20	nd	nd	nd	99%	85%	15%
Toluene	50	nd	nd	nd	105%	103%	3%
Ethylbenzene	50	nd	nd	nd			
Xylenes	50	nd	nd	nd			
Surrogate recoveries:							
Trifluorotoluene		87%	83%	81%	127%	110%	
Bromofluorobenzene		87%	88%	89%	83%	86%	

AAL Job Number: Client:	C61006-3 Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number: Date received:	na 10/06/16
Date received.	10/00/10

Analytical Results						Dupl
NWTPH-Dx, mg/kg		MTH BLK	TP7(5')	TP9(5')	P16(5')	P16(5')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16
Date analyzed	Limits	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		128%	127%	130%	128%	129%
o-Terphenyl		128%	106%	109%	108%	109%

Data Qualifiers and Analytical Comments na - not analyzed Results reported on dry-weight basis M - matrix interference Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

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AAL Job Number:	C61006-3
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
<b>Client Project Number:</b>	na
Date received:	10/06/16

Metals (7010), mg/kg		MTH BLK	LCS	P16(5')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting					10/07/16	
Date analyzed	Limits	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16
Lead (Pb)	1.0	nd	113%	7.0	114%	127%	11%

ADVANCED ANALYTICAL

Environmental Testing Laboratory

October 10, 2016

Nick Gerkin Aerotech Environmental, Inc. 13925 Interurban Avenue South, Suite 210 Seattle, WA 98168

Dear Mr. Gerkin:

Please find enclosed the analytical data report for the Fife RV (C61007-1) Project.

Samples were received on October 07, 2016. The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

1. Ivanov

Val G. Ivanov, Ph.D. Laboratory Manager

4078 148 Ave NE∎ Redmond, WA 98052 425.702-8571 *E-mail: aachemlab@yahoo.com* 

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# Advanced Analytical Laboratory (425) 702-8571

AAL Job Number: Client: Project Manager: Client Project Name: Client Project Number: Date received:

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C61007-1 Aerotech Environmental Nick Gerkin Fife RV na 10/07/16

AAL Job Number: Client:	C61007-1 Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/07/16

Analytical Results	
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NWTPH-Gx / BTEX		MTH BLK	LCS	TP11(5')	TP12(5')	TP13(5')	TP14(5')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/07/16 1	0/07/16	10/07/16	10/07/16	10/07/16	10/07/16
Date analyzed	Limits	10/07/16 1	0/07/16	10/07/16	10/07/16	10/07/16	10/07/16
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard	5.0	nd		nd	nd	nd	nd
Gasoline	5.0	nd		nd	18	nd	nd
<u>BTEX 8021B, µg/kg</u> Benzene	20	nd	94%	nd	nd	nd	nd
Toluene	50	nd	110%	nd	nd	nd	nd
Ethylbenzene	50	nd		nd	nd	nd	nd
Xylenes	50	nd		nd	82	nd	nd
Surrogate recoveries:							
Trifluorotoluene		98%	129%	83%	79%	85%	104%
Bromofluorobenzene		85%	96%	93%	95%	92%	109%

AAL Job Number:	C61007-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/07/16

Analytical Results NWTPH-Gx / BTEX	· · · · · · · · · · · · · · · · · · ·	TP14(10')	TP15(5')	TP15(10')	TP16(3')	TP16(5')	TP17(3')
	0.1			Soil	Soil	Soit	Soi
Matrix	Soil	Soil	Soil				
Date extracted	Reporting	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16
Date analyzed	Limits	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard	5.0	nd	nd	nd	nd	nd	nd
Gasoline	5.0	nd	nd	nd	nd	nd	nd
<u>ΒΤΕΧ 8021Β, μg/kg</u>							
Benzene	20	nd	nd	nd	nd	nd	nc
Toluene	50	nd	nd	nd	nd	nd	na
Ethylbenzene	50	nd	nd	nd	nd	nd	nd
Xylenes	50	nd	nd	nd	nd	nd	na
Surrogate recoveries:							
Trifluorotoluene		103%	98%	90%	105%	97%	91%
Bromofluorobenzene		101%	97%	97%	108%	95%	89%

AAL Job Number:	C61007-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/07/16

Analytical Results						Dupl	
NWTPH-Gx / BTEX		TP17(5')	TP18(3')	TP19(3')	TP19(5')	TP19(5')	MS
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soi
Date extracted	Reporting	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16	
Date analyzed	Limits	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16	10/07/16
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard	5.0	nd	nd	nd	nd	nd	
Gasoline	5.0	nd	nd	nd	nd	nd	
BTEX 8021B, μg/kg							
Benzene	20	nd	nd	nd	nd	nd	94%
Toluene	50	nd	nd	ndi	nd	nd	103%
Ethylbenzene	50	nd	nd	nd	nd	nd	
Xylenes	50	nd	nd	nd	nd	nd	
Surrogate recoveries:							
Trifluorotoluene		95%	104%	103%	106%	108%	
Bromofluorobenzene		106%	104%	102%	102%	88%	85%

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AAL Job Number:	C61007-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/07/16

Analy	ytical	Results

NWTPH-Gx / BTEX		MSD	RPD
Matrix	Soil	Soil	Soil
Date extracted	Reporting	10/07/16 1	0/07/16
Date analyzed	Limits	10/07/16 1	0/07/16
NWTPH-Gx, mg/kg			
Mineral spirits/Stoddard	5.0		
Gasoline	5.0		
<u>BTEX 8021B, µg/kg</u>			
Benzene	20	95%	2%
Toluene	50	104%	0%
Ethylbenzene	50		
Xylenes	50		
Surrogate recoveries:			
Trifluorotoluene		125%	
Bromofluorobenzene		83%	

ADVANCED ANALYTICAL

Environmental Testing Laboratory

October 25, 2016

Nick Gerkin Aerotech Environmental, Inc. 13925 Interurban Avenue South, Suite 210 Seattle, WA 98168

Dear Mr. Gerkin:

Please find enclosed the analytical data report for the Fife RV (C61020-1) Project.

Samples were received on *October 20, 2016.* The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

1. Ivanov

Val G. Ivanov, Ph.D. Laboratory Manager

4078 148 Ave NE∎ Redmond, WA 98052 425.702-8571 *E-mail: aachemlab@yahoo.com* 

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# Advanced Analytical Laboratory (425) 702-8571

AAL Job Number: Client: Project Manager: Client Project Name: Client Project Number: Date received:

( ^C

C61020-1 Aerotech Environmental Nick Gerkin Fife RV na 10/20,21/16
AAL Job Number:	C61020-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/20,21/16

#### Analytical Results

NWTPH-Gx / BTEX		MTH BLK	LCS	P20(5')	P20(10')	P21(5')	P21(10')	P22(5')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16
Date analyzed	Limits	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd		nd	nd	nđ	nd	nd
Gasoline	5.0	nd		57	20	1,200	66	1,100
<u>BTEX 8021B, μg/kg</u>	20		105%	65	240	650	110	830
Benzene	20 50	nd	105%	101		590	140	1.900
Toluene		nd	10170		nd			
Ethylbenzene	50	nd		150	90	8,100	340	20,000
Xylenes	50	nd		160	84	24,000	740	7,900
Surrogate recoveries:								
Trifluorotoluene		84%	97%	82%	71%	71%	72%	M
Bromofluorobenzene		90%	80%	92%	92%	92%	94%	130%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits na - not analyzed M - matrix interference Results reported on dry-weight basis Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

.

AAL Job Number:	C61020-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/20,21/16

Analytical Results								Dupl
NWTPH-Gx / BTEX		P22(10')	P22(12')	P23(5')	P23(10')	P24(5')	P24(10')	P24(10')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16
Date analyzed	Limits	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd						
Gasoline	5.0	34	nd	760	16	nd	50	58
BTEX 8021B, μg/kg								
Benzene	20	29	nd	460	nd	nd	260	340
Toluene	50	nd	nd	740	nd	nd	nd	nd
Ethylbenzene	50	430	nd	4,800	220	nd	1,500	1,700
Xylenes	50	190	nd	2,400	100	nd	860	1,000
Surrogate recoveries:								
Trifluorotoluene		87%	83%	M	93%	85%	91%	84%
Bromofluorobenzene		110%	104%	112%	107%	101%	103%	93%

AAL Job Number:	C61020-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/20,21/16

Analytical Results		RPD						
NWTPH-Gx / BTEX		P24(10')	MŚ	MSD	RPD	P25(5')	P25(10')	P26(10')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16
Date analyzed	Limits	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16	10/21/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0					nd	nd	nd
Gasoline	5.0	15%				5,200	350	12
<u>ΒΤΕΧ 8021Β, μα/kg</u>								
Benzene	20	27%	110%	111%	0%	4,600	160	nd
Toluene	50		118%	119%	1%	25,000	3,400	nd
Ethylbenzene	50	13%				35,000	1,600	nd
Xylenes	50	15%				230,000	16,000	410
Surrogate recoveries:								
Trifluorotoluene			110%	113%		M	98%	91%
Bromofluorobenzene			104%	104%		м	108%	102%

AAL Job Number:	C61020-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/20,21/16

Analytical Results				
NWTPH-Gx / BTEX		P27(5')	P28(5')	P28(10')
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/21/16	10/21/16	10/21/16
Date analyzed	Limits	10/21/16	10/21/16	10/21/16
NWTPH-Gx, mg/kg				
Mineral spirits/Stoddard	5.0	nd	nd	nd
Gasoline	5.0	58	nd	nd
<u>ВТЕХ 8021В, µg/kg</u>				
Benzene	20	nd	nd	nd
Toluene	50	nd	nd	nd
Ethylbenzene	50	95	nd	nd
Xylenes	50	390	nd	nd
Surrogate recoveries:				
Trifluorotoluene		88%	84%	83%
Bromofluorobenzene		_106%	101%	98%

.

AAL Job Number:	C61020-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/20,21/16

Analytical Results				Dupl
NWTPH-Dx, mg/kg		MTH BLK	P25(5')	P25(5')
Matrix	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/22/16	10/22/16	10/22/16
Date analyzed	Limits	10/22/16	10/22/16	10/22/16
Kerosene/Jet fuel	20	nđ	nd	nd
Diesel/Fuel oil	20	nd	nd	nd
Heavy oil	50	nd	nd	nd
Surrogate recoveries:				
Fluorobiphenyl		89%	93%	94%
o-Terphenyl		103%	107%	105%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits na - not analyzed Results reported on dry-weight basis M - matrix interference Acceptable Recovery limits: 70% TO 130% Acceptable RPD limit: 30%

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AAL Job Number:	C61020-1
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/20,21/16
Date received:	10/20,21/16

#### Analytical Results

Metals (7010), mg/kg		MTH BLK	LCS	P25(5')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/24/16	10/24/16	10/24/16	10/04/16	10/04/16	10/04/16
Date analyzed	Limits	10/24/16	10/24/16	10/24/16	10/04/16	10/04/16	10/04/16
Lead (Pb)	1.0	nd	93%	86	м	м	

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits na - not analyzed M - matrix interference Results reported on dry-weight basis Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 30% ADVANCED ANALYTICAL

Environmental Testing Laboratory

October 25, 2016

Nick Gerkin Aerotech Environmental, Inc. 13925 Interurban Avenue South, Suite 210 Seattle, WA 98168

Dear Mr. Gerkin:

Please find enclosed the analytical data report for the Fife RV (C61024-2) Project.

Samples were received on *October 24, 2016*. The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

1. Ivanov

Val G. Ivanov, Ph.D. Laboratory Manager

4078 148 Ave NE∎ Redmond, WA 98052 425.702-8571 *E-mail: aachemlab@yahoo.com* 

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## Advanced Analytical Laboratory (425) 702-8571

AAL Job Number: Client: Project Manager: Client Project Name: Client Project Number: Date received:

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C61024-2 Aerotech Environmental Nick Gerkin File RV na 10/24/16

AAL Job Number:	C61024-2
Client:	Aerotech Environmental
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/24/16

NWTPH-Gx / BTEX		MTH BLK	LCS	P29(3')	P30(5')	P30(10')	P31(10')	_P32(3')
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soi
Date extracted	Reporting			10/24/16		10/24/16	10/24/16	
Date analyzed	Limits	10/24/16	10/24/16	10/24/16	10/24/16	10/24/16	10/24/16	10/24/16
NWTPH-Gx, mg/kg								
Mineral spirits/Stoddard	5.0	nd		nd	nd	nd	nd	nd
Gasoline	5.0	nd		nd	200	nd	nd	nd
BTEX 8021B, µg/kg								
Benzene	20	nd	80%	nd	86	nd	nd	nc
Toluene	50	nd	92%	nd	190	nd	nd	nc
Ethylbenzene	50	nd		nd	280	nd	nd	nc
Xylenes	50	nd		nd	400	nd	nd	nc
Surrogate recoveries:								
Trifluorotoluene		78%	82%	76%	79%	76%	70%	
Bromofluorobenzene		118%	118%	124%	120%	116%	115%	108%

AAL Job Number:	C61024-2 Aerotech Environmental
Client:	
Project Manager:	Nick Gerkin
Client Project Name:	Fife RV
Client Project Number:	na
Date received:	10/24/16

Analytical Results				Dupl			
NWTPH-Gx / BTEX	······································	P33(3')	P34(3')	P34(3')	MS	MSD	RPD
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting				10/24/16		
Date analyzed	Limits	10/24/16	10/24/16	10/24/16	10/24/16	10/24/16	10/24/16
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard	5.0	nd	nd	nd			
Gasoline	5.0	nd	nd	nd			
<u>ВТЕХ 8021В, µg/kg</u>							
Benzene	20	nd	nd	nd	92%	90%	2%
Toluene	50	nd	nd	nd	99%	100%	1%
Ethylbenzene	50	nd	nd	nd			
Xylenes	50	nd	nd	nd		. <u></u>	-
Surrogate recoveries:							
Trifluorotoluene		78%	73%	71%	77%	70%	
Bromofluorobenzene		99%	107%	113%	108%	110%	

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# • Laboratory Chain of Custody

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7	P7(3)	Oni					$\langle  $	K.												
8	ROOD PS	1150					$\langle  $	8									<u> </u>			
9	P9(5')	1300			X		$\leq$	Ø					}	4			ļ			
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Client: Az. : Project Manager:		Chain of CL dy Record	2821 152 Avanue NE Redmond, WA 98052 (425) 497-0110 fax: (425) 497-808 aachemlab@yahoo.com Project Name: Find RV	Page of
Project Manager:	<i>L'N</i>		Project Number.	
Address: 139725 Juber Mary	Are S. Tur	win	Collector: N. Ck. Gerran	
Phone: 206 482 2287	Fax:		Date of collection: 10/4 + 10/5	
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Relinguished by:	Date/Time	•	ate/Time Seats (intact?, Y/N)	48 hr O
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Phone: 206 452 2287			<u> </u>							lion: [C				_
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2 TP3(5)	122		(	X	X						X,		No land	
3 77-310)	1125				X									
4 TP4(3)	1155													
5 TP4 (5)	1200													
6 TP-1 (10)	1205													11
7 775(5)	1215	<u>t  </u>												
8 TT S(10)	1220													
9 176(5')	1315				X									
10 TPE(10)	1320		·V											V
11 TP7(5)	1230		1.24			X								3
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Page ) of 5

Laboratory Job #: BEICOG-3

2821 152 Avenue NF. Redmond, WA 98052 (425) 497-0110 fax: (425) 497-8089 aachemlab@yahoo.com

FierV Project Name:

Client: Herster Le Guritin Project Manager: Address: 13925 INterichan Are S

Phone: 206 482 2287 Fax:

Project Number. Collector: N. z.k. Gurkin

Date of collection: 1Û ے '

	Sample ID	Time	Mətrix	Container type	J.S.	VOIEILE?	NOBER OF		ANNAL PARTY	R.ST PH.ST PH.ST	PH-DA	Ren Her	o service	PAN DE DE	50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Preside	AN B HOLE	ja ¹²		Notes, comments	# of containers
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Relinguished by:	Date/Time	Received by:	Date/Time	Total # of containers:	Same day O
TER	1/1/16 1300	· Ann	14669	Condition (temp. °C)	24 hr O
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S.J.m.h	1019100	hund ic/c	11 2.081	Comments:	Standard O

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# Supplemental Documents

Associated Earth Sciences, Inc.

Serving the Pacific Northwest Since 1981

January 24, 2014 Project No. TV130509B

Mr. Noel Coon Hana Hou Wailea, LLC c/o Mr. Kelly Wood Phillips Burgess PLLC 505 Broadway Street, Suite 408 Tacoma, Washington 98402

Subject:

 ct: Supplemental Phase II Environmental Site Assessment Freddie's Casino Property
 3410 Pacific Highway East Fife, Washington

Dear Mr. Coon:

Associated Earth Sciences, Inc. (AESI) is pleased to provide this letter-report presenting the results of our assessment of subsurface conditions at the above-referenced site. The subject property consists of a vacated casino building, associated outbuilding, and associated asphalt and gravel parking located on approximately 3.76 acres of land. The location of the property is shown on Figure 1, "Vicinity Map."

#### BACKGROUND

AESI issued a Phase I Environmental Site Assessment (ESA) for the subject property on October 29, 2013, for another party. The site layout is shown on the attached Figure 2. Based on our Phase I ESA findings, the identified recognized environmental conditions (RECs) included:

- A release of petroleum hydrocarbons was previously identified on the northwestern portion
  of the subject property. Additional investigation was recommended to determine the nature
  and extent of the release as well as whether it originates from an on-site or off-site source.
- The northwest corner of the subject property was occupied by a Gasamat gas station from approximately the late 1960s to the late 1980s (Figure 2). The full history and configuration of the former station, as well as the specifications and status of the former underground storage tank (UST) fuel system, are unknown. Additional investigation was recommended to determine if the Gasamat is the source of the above-mentioned petroleum

release or if other adverse subsurface conditions (e.g. abandoned USTs) are present beneath the subject property.

- A petroleum release was historically identified at the northwest adjoining Chevron station
  property. Based on the available regulatory records and the identified petroleum release on
  the subject property, additional investigation was recommended to determine if this off-site
  activity has adversely affected or contributed to adverse subsurface conditions beneath the
  subject property.
- The subject property is part of a cleanup "site" (CSCSL) defined by the Washington State Department of Ecology (Ecology) due to the above-mentioned petroleum release and elevated arsenic concentrations in ground water. Based on our recent correspondence with Ecology, the site would likely be delisted from the CSCSL if the petroleum release is remediated, regardless of the arsenic condition in ground water (which appears to be area-wide).

AESI's complete Phase I ESA findings and conclusions are provided under separate cover.

#### SOIL AND GROUND WATER SAMPLING

For this subsurface investigation, AESI oversaw a geophysical survey and completed exploration advancement on December 18 and 19, 2013, respectively. The purpose of the geophysical survey was to attempt to identify abandoned USTs or backfilled UST cavities at the subject property. The purpose of the explorations was to attempt to better define the nature and extent of the identified petroleum release at the site and to determine if any of the above-referenced RECs have led to other adverse environmental impacts to subsurface soil and/or ground water at the subject property. Figure 2 is a "Site and Exploration Plan" that indicates the approximate locations of the test probes. Analytical laboratory results and sample chain-of-custody forms are included as Appendix A and exploration logs are included as Appendix B.

#### **Geophysical Survey**

AESI oversaw a geophysical survey performed at the site by CNI Locates, Ltd. The accessible exterior areas of the northwestern, unpaved gravel area (i.e. the vicinity of the former Gasamat station and the previous detection of petroleum hydrocarbons) were examined with an electro magnetometer (EM) for metallic anomalies. Suspect anomalies and the estimated historical locations of the former Gasamat station and USTs (based on limited information obtained during our Phase I ESA) were subsequently traversed with ground-penetrating radar (GPR). Based on the findings of the geophysical survey, no abandoned USTs or definitive evidence of former, backfilled UST cavities were identified.

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It should be noted that several factors can interfere with the effectiveness of the geophysical survey equipment, potentially resulting in subsurface features and/or objects (including USTs and associated backfilled cavities) not being identified. Regardless of these inherent limitations, geophysical survey techniques such as EM and GPR are generally considered the best available technology for identifying the presence and location of these potential subsurface features.

#### **Exploration Borings**

AESI completed ten Geoprobe explorations (EB-1 through EB-10) throughout the suspect areas of the subject property using a truck-mounted Geoprobe 7800 rig. The explorations were drilled to a maximum depth of 15 feet below ground surface (bgs).

The approximate locations of the explorations are depicted on Figure 2. Test probes EB-1 and EB-2 were advanced in the approximate, reported locations¹ of the two borings where the petroleum release was previously identified in 2004. Test probes EB-3 and EB-10 were advanced southwest and southeast of the existing Chevron fuel system, to help assess whether the off-site operations may be contributing to adverse subsurface conditions encountered on the subject property. Test probes EB-4 through EB-7 were advanced in the gravel lot at the approximate location of the former Gasamat gas station and USTs. Test probes EB-8 and EB-9 were advanced in locations meant to better delineate the previously identified petroleum release. Ground water was encountered in every exploration.

#### Soil Sampling

Soil sampling at all Geoprobe explorations was completed by driving a plastic-lined hollow probe tube with a truck-mounted, hydraulic impact hammer. The explorations are advanced in 5-foot increments. After each 5-foot driving interval the probe was removed from the exploration and the plastic sleeve containing a sample of the subsurface materials encountered during that driving interval was removed. The plastic liner was cut open to expose the soil sample, and laboratory-prepared sample containers were filled with soil for possible analytical testing.

A soil sample was also collected for field screening using a portable photoionization detector (PID) and visual and olfactory methods. PID readings were collected to determine field indications of volatile organic compounds (VOCs) in soils, measured in volumetric parts per million (vppm). PID readings and observations pertaining to suspect staining, and/or odors are noted on the exploration logs included in Appendix B. In summary, no suspect soil staining was noted; however, slight to strong petroleum odors were encountered in soils from explorations EB-4 through EB-7, EB-9, and EB-10. PID readings ranged from 0.0 vppm to 184 vppm (observed in EB-5 from 5.5 to 6.5 feet bgs). Suspect elevated PID readings were observed in soils from explorations EB-4 through EB-4 through EB-6, and EB-10.

¹ The figures provided in the previous reports for the 2004 borings were not to scale. Therefore, the reported locations are approximated.

#### Ground Water Sampling

Ground water samples were collected for analytical testing from every exploration advanced at the site. The ground water sampling procedure consisted of installing a temporary well screen at the base of the completed exploration, and inserting a plastic tube extending from the screened interval to the ground surface. A peristaltic pump was used to draw water from the screened interval. The pump was run for approximately 15 minutes to clear the majority of the turbidity from the water flow, and the ground water sample was collected into laboratory-prepared sample containers after the development period. The tubing, temporary screen, and casing were then removed.

#### Sample Management

All soil and ground water samples collected for chemical analysis were placed in appropriate sample containers supplied by an Ecology-approved laboratory subcontracted to AESI. Soil samples intended for VOCs analysis were collected using the Ecology-approved 5035 method. However, soil sample EB-2-8.5, which was not originally intended for VOCs analysis, was collected in a 4-ounce glass jar with a Teflon-lid liner. Each container was labeled with the site name, date, time, exploration number, sample number, and sampling personnel. Sample containers were placed in a chilled cooler immediately after sampling, and subsequently transported to the analytical laboratory by AESI under strict chain-of-custody procedures.

#### Site Restoration

All Geoprobe exploration locations were abandoned with bentonite seals in accordance with Ecology guidelines. No permanent wells were installed.

#### Waste Management

Soil cuttings, purge water, and equipment cleaning water generated during the field activities were placed in a Washington State Department of Transportation (WSDOT)-approved, 35-gallon steel drum, closed, and appropriately labeled with project-specific information and initial accumulation date. One 35-gallon waste drum was generated during these field services and was left on-site for subsequent characterization and disposal. Disposal of drummed material is not included in this scope of work.

#### SUBSURFACE CONDITIONS

Subsurface conditions at the project site were inferred from the field explorations accomplished for this study and visual reconnaissance of the site. Soils encountered beneath the subject property generally consisted of approximately 3 to 8 feet of brown-gray, fine to coarse silty sand, with variable gravels, underlain by brown-gray sandy silt (allovium) to the maximum depth explored (15 feet bgs).

An approximately 0.5- to 3-foot thick, perched water-bearing zone (moist to wet) was observed within the silt unit, occasionally within an interbedded sandy silt or silty sand layer, at approximate depths of 6 to 9 feet bgs. The partially-saturated zones abated with depth, except at exploration EB-6, where wet soils were observed to the maximum depth explored. In each exploration, the water level rose slightly from the initially encountered depth (a few inches to as much as 2 feet), indicating a partially-confined ground water condition.

As discussed in our Phase I ESA report, a review of previous reports for the subject and adjoining properties indicates that ground water flow direction appears to fluctuate and can range from north to south. The predominant ground water flow direction (based on multiple elevation measurements reported for the northwest adjoining Chevron property) is reportedly to the southwest, towards the Puyallup River.

#### LABORATORY ANALYSIS RESULTS

Soil samples were analyzed by Friedman & Bruya, Inc. of Seattle, Washington, for one or all of the following:

- Total petroleum hydrocarbons (TPH) identification by Method NWTPH-HCID.
- Gasoline-range TPH by Method NWTPH-G.
- Diesel- and oil-range TPH by Method NWTPH-Dx with silica gel cleanup².
- VOCs and/or benzene, toluene, ethylbenzene and total xylenes (BTEX) by Method 8260C or 8021B.
- Total lead by Method 200.8/1631E.

The soil and ground water analytical results are summarized in Table 1, "Laboratory Analysis Results for Soil Samples," and Table 2, "Laboratory Analysis Results for Ground Water," respectively, attached to this letter-report. Gasoline-range TPH and BTEX analytical results are also summarized in Figure 3, "Exploration Plan with Soil Analytical Summary," and Figure 4, "Exploration Plan with Ground Water Analytical Summary," both attached to this letter report.

#### Soil Analytical Results

Based on the laboratory analytical results, gasoline-range TPH (up to 2,000 milligrams per kilogram [mg/kg]), benzene (up to 1.8 mg/kg), toluene (up to 9.6 mg/kg), ethylbenzene (up to 41 mg/kg), and total xylenes (up to 120 mg/kg) were detected in the soil samples analyzed from

² Silica gel cleanup mitigates organic interferences that can result in falsely elevated analytical results during NWTPH-Dx analysis.

the subject property, above their Model Toxics Control Act (MTCA) Method A soil cleanup levels for unrestricted land use (MTCA cleanup levels of 30, 0.03, 7, 6, and 9 mg/kg, respectively). The distribution of gasoline TPH and BTEX concentrations detected in site soils (considered herein to be the "indicator" contaminants of concern) is shown in Figure 3. The highest concentrations of gasoline TPH and BTEX were detected in soils collected from the vicinity of the reported, former Gasamat UST locations.

Diesel-range TPH concentrations (up to 660 mg/kg) were also detected in soil samples concurrently with significantly elevated gasoline-range TPH concentrations. However, a review of the individual sample chromatograms by the analytical laboratory indicated that these diesel detections are likely the result of overlap from the elevated gasoline TPH detections and are not indicative of diesel.

Oil-range TPH was not detected in any of the soil samples analyzed. The three soil samples with the highest detections of gasoline TPH were also analyzed for total lead content and found to contain lead concentrations up to 12.3 mg/kg, below the MTCA Method A soil cleanup level of 250 mg/kg and likely indicative of background conditions.

#### Ground Water Analytical Results

Based on the laboratory analytical results, gasoline-range TPH (up to 49,000 micrograms per Liter [ug/L]), benzene (up to 1,100 ug/L), toluene (up to 420 ug/L), ethylbenzene (up to 2,800 ug/L), total xylenes (up to 6,000 ug/L), and naphthalene (up to 540 ug/L), were detected in the ground water samples collected from the site above their MTCA Method A ground water cleanup levels (MTCA cleanup levels of 800, 5, 1,000, 700, 1,000, and 160, respectively). 1,3,5-trimethylbenzene (up to 210 ug/L) was also detected above its applicable MTCA Method B ground water cleanup level of 80 ug/L³. The distribution of gasoline TPH and BTEX concentrations detected in ground water at the site is shown in Figure 4. As with the detections in soil, the highest concentrations of gasoline TPH and BTEX were detected in ground water cleanup water cleanup to gasoline TPH and BTEX were detected in ground water collected from the vicinity of the reported, former Gasamat UST locations.

Diesel-range TPH (up to 6,000 mg/kg) and methylene chloride were also detected in ground water samples with significantly elevated gasoline-range TPH concentrations. However, a review of the individual sample chromatograms by the analytical laboratory suggested that the diesel TPH detections are likely the result of overlap from the elevated gasoline TPH concentrations and not indicative of diesel. The laboratory also indicated that the methylene chloride detection was likely the result of laboratory contamination.

Oil-range TPH was detected in only one sample, EB-3-GW, at a concentration of 350 ug/L, below the MTCA Method A ground water cleanup level of 500 ug/L. Other petroleum-related VOCs were also detected in ground water at relatively low concentrations (see Table 2).

³ In lieu of an established MTCA Method A ground water cleanup level for 1,3,5-trimethylbenzene, the Method B cleanup value was used for comparison.

## CONCLUSIONS AND RECOMMENDATIONS

A supplemental Phase II ESA subsurface investigation was conducted to attempt to better define the nature and extent of adverse subsurface conditions at the subject property.

Based on the geophysical survey findings, no suspect subsurface anomalies (e.g. USTs or backfilled UST cavities) were identified.

Based on the soil and ground water analytical results, a release of diesel- and oil-range TPH was not identified on the subject property. The eastern and southeastern extents of the previously identified gasoline-range TPH and BTEX release to soil and ground water have been adequately delineated. The extent of the release to soil and ground water, from the northwest to the southwest, has not yet been determined. Concentrations of naphthalene and 1,3,5-trimethylbenzene (likely associated with the gasoline TPH release) were also detected in ground water at the site above their respective MTCA Method A ground water cleanup levels. Also, the vertical extent of the identified contaminants of concern (COCs) appears to be limited to the observed, perched water-bearing zone and immediately adjacent, underlying soils.

The highest concentrations of the COCs were detected in the reported vicinity of the former Gasamat USTs. At this time, it is unclear if the adjoining Chevron station fuel system is contributing to the identified on-site release. The exploration closest to the off-site USTs (EB-3) did not contain significantly elevated concentrations of the COCs. However, due to the significantly elevated COC concentrations in soil and ground water from exploration EB-4 (also inferred directly downgradient of the off-site fuel UST nest), additional investigation would be necessary to exclude the adjacent Chevron facility as a source of COC contribution, especially given prior documented releases at the off-site property.

Additional investigation would be necessary to determine the full extent of the COCs plume in soil and ground water, particularly to the west. AESI recommends that a copy of this letter-report be submitted to Ecology as a status report of the remedial efforts being undertaken on the subject property. The client should also confer with legal counsel before taking any additional steps to address the on-site release.

#### LIMITATIONS AND EXCEPTIONS

Subsurface explorations cannot eliminate all uncertainty regarding the current extent of chemical contamination or the potential for future migration to soil or ground water. Given budget and time limitations, sampling is limited to a finite number of discrete locations and chemical analysis is limited to chemical constituents typically associated with the known environmental conditions. It is possible that higher chemical concentrations may be found in locations where sampling was not conducted and chemical constituents may be present that were not included in the analysis.

Former Freddie's Casino Property Fife, Washington

Supplemental Phase II Environmental Site Assessment

Judgments leading to the enclosed general conclusions are based on a reasonable amount of sampling and analysis and reflect site conditions as they existed at the time of our assessment. Other information on the subject property or adjacent surrounding properties may exist, and more extensive studies may reduce the uncertainties associated with this assessment.

#### CLOSURE

This letter-report was prepared for the exclusive use of Mr. Noel Coon, Hana Hou Wailea, LLC, and its agents for specific application to the subject site. AESI personnel performed this assessment in accordance with generally accepted standards of care that existed in the State of Washington at the time of this study. Our findings and conclusions have been prepared in accordance with generally accepted professional practice in the area at this time. We make no other warranty, either express or implied.

We appreciate this opportunity to provide these services. Please do not hesitate to call if you have any questions.

Sincerely, ASSOCIATED EARTH SCIENCES, INC. Tacoma, Washington

Lannie Smith, C.H.M.M.

Tacoma Environmental Manager



Jon N. Sondergaard, L.G., L.E.G. Senior Principal Geologist

Attachments:	Figure 1:	Vicinity Map
	Figure 2:	Site and Exploration Plan
	Figure 3:	Exploration Plan with Soil Analytical Summary
	Figure 4:	Exploration Plan with Ground Water Analytical Summary
	Table 1:	Laboratory Analysis Results for Soil Samples
	Table 2:	Laboratory Analysis Results for Ground Water
	Appendix A:	Laboratory Analytical Reports
		Sample Chain-of-Custody Forms
	Appendix B:	Exploration Logs

## FRIEDMAN & BRUYA, INC.

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Kurt Johnson, B.S. Eric Young, B.S. 3012 16th Avenue West Scattle, WA 98119-2029 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

January 2, 2014

Lannie Smith, Project Manager Associated Earth Sciences, Inc. 1552 Jefferson Ave, Suite 102 Tacoma, WA 98402

Dear Mr. Smith:

Included are the results from the testing of material submitted on December 20, 2013 from the TV130509B, F&BI 312348 project. There are 28 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures AE10102R.DOC

#### Table 2: Laboratory Analysis Results for Ground Water

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#### AESI Project No. TV1305098

									-			
Sample 10	Sampio	Gassfino- Rongo Hydrocarbona (ug/L)	Diced-Rango Hydrocarbons (unrL)	Mistor Dil-Rango Hystrocarbons (og/L)	Bename [ug/L]	Tolatria (ug/L)	Ethylbonzano (ug/L)	Xylines (ug/L)	Naphthalmo (ug/L)	1.3,5+ Trincthylbenzstø (un/L)	Methylens choride (upfL)	Other VOCs (urf L)
FRIGN	ER 1	ND / C 1000		_	1010 11	88	17	17				<u> </u>
EB2CW	EB 2	1012 1000		_	1101<11	67	ND (< 1)	62				
FR3GN	EBD	1:0 (4 107)	ND (< 50)	357	RD (< 3)	89	12	9.2	<u> </u>	<u> </u>		
EB4G//	EB 4	45.000	6.000 2	110 (< 253)	1,100	423	2.200	6,000	<u> </u>	l		
EB \$ G7/	ED 5	16,000	-50 [±]	11D (< 250)	420	200	\$10	1,970	120	210	R,	tot-Suylbarane # 14 1,2,4-Trimolylbarane # 130 is Progylbarane # 170 1sprond Learne # 15
ER C GW	EB 6	15,000	3,809 '	110 (< 240)	SID	22	1,509	40	S=0	4,4	ND (< 5)	100-Bisylborana = 25 1,2,4-Trimethylborane = 19 n-Presylborane = 450 Interest program = 160
£117 GW	EB7	2,900	520 '	ND (< 257)	269 3	04	5.1	27	1:D (< 1)	11D (< 1)	110 (< 5)	Aperano = 11 mc-Burylouring = 1.5 1.2.4-Trimithylogrand = 1.5 n-Propylouring = 65 immergia tensione = 33
FRICOW	FRA	1 HO /< 100	<b></b>		1.9	14	16	61			l	
V:5) 0 E3	FRO	110			1 11	15	23	15				
F3 10 GW	FR 10	1 103 (c 103)	ND (< 55)	1101< 220	NDI< 1	91	100 (< 1)	5.1				_
MICA Manad A C		<u> </u>	500	500	5	1,000	700	1.000	160	ω,	5	vaina

² The sample diversity ratio patient does not encourse the full standard until for quantilation.

¹ Example concretence. A cluber is reparted to obtain an anasite parallegister of themotyte.
 ¹ The prevence of the concretend indicated is likely due to liberatory contemination.
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Freddle's Casino Phase II

#### Table 1: Laboratory Analysis Results for Soil Samples

			Gasolino-		Heavy					Tatal
	Sample		Rangu	Diesel-Range	Oll-Rango					Tetal
	Depth	PID	Hydrocarbons	Hydrocarbons	Hydrocarbons	Banzano	Tclueno	Ethylbenzeno	Xylenea	ro3q
Sample Location	(It bost	(vppm)	(mg/kg)	(mo'ka)	(mg/kn)	(mg/kg)	(mg/kg)	(mŋ/ko)	(mg/kn)	(mg/kg)
EB 12 5-3 5	2535	0	ND (< 77)	10 (< 50)	ND (< 250)	ND (< 0 02)	ND (< 0.02)	10 1< 0.02	10 (\$ 0.05)	-
EB145	45	0					1	-		
	95-107	01	10 (< 20)	110.(< 50)	ND (< 250)	HD (< 0.02)	ND (< 0.02)	110 (< 0.02)	ND (< 0.06)	
EB 195-10	45	0.1						1		
<u>E8245</u>	<u>- 4-7</u> 6.7	0.1								
EB 2 6-7			HD (< 20)	ND (< 50)	ND (< 250)	HD (* 0.02) 2	ND (< 0.02)	ND (< 0.02)	ND (< 0 (5)	-
EB288	85	01		1015.50	1010-204	111:1- 2:2:2			***	
<u>FB29-10</u>	9.10		MD (< 20)	ND (< 50)	ND (< 250)	ND (< 0.02)	ND (< 0.02)	110 (< 0.02)	1:D (< 0.05)	
EB345	45					<u></u>				
<u>EB 36-7</u>	6-7		<u></u>							
EU 3 7-7_5	7-7.5			·····					•	
E038-9	<u>8-9</u>	01					•••			
FB 3 9-10	9-10		·				-+-			•••
EB 4 2 5-3.5	25-35	49		<u> </u>						
E8435-4"	354	<u>813</u>								
FB 4 4-5	45	61.9	2.000	6502	10 (< 250)	1.8	9.6	41	170	12.3
ER 46 575	6.5-7.5	0.5	3.0	ND (< 53)	ND (< 250)	ND (< 0.02)	0.031	NO (< 0.02)	10 (< 0.05)	
E8489	6-9	05			<u> </u>	<u></u>				
FB49-10	9-107	06					····			
EB 53-4	34	11.1		<u> </u>						
E8 5 4-5	45	138	720	2702	ND (< 250)	1.4	43	12	59	
E855565	5555	184	100	NO (< 50)	ND (< 250)	0.27	0.75	0 27	0.69	7.09
E856576	6575	34	27	ND (< 50)	ND (4 250)	0.41	0.25	6 (CVA	ND (< 0.05)	
F859-10	9.10	07				HD (< 0.02)	(SO 0 >) QN	ND (< 0.02)	11D (* 0.00)	
F8634	3-1	39								
F8 6 4-5	45	1.2								
EB66-7	6-7	103								
				560 ²	ND (< 250)	< 0.4	8	16	51	9
EB 6 7-7 5	7.7.5	43.0	1,300		THUES 2001	<u> </u>				
EB 67.5-8	75-8	55			ND (< 250)	0.66	ND (< 0.02)	0.035	0.2	
EB 69 5-10	9.5-10	<u>5 A</u>	<u></u>	<u>ND (&lt; 50)</u>		ND (< 0.02)	ND (< 0.02)	ND (< 0.02)	12D (< 0.05)	
EB 6 10-11'	10-11	06	·			1015 0 02				
EB735-5	35-"	2.5								
EB 7 4-5	45	19			10 10 000	0.027	ND (< 9 02)	ND (< 0.02)	ND (< 0.05)	
E8755-6'	556	25	ND (< 2)	ND (< 50)	ND (< 250)	ND (< 0.02)	ND (< 0.02)	110 /< 0.021	ND (< 0.05)	
FR 8 4-5'	45	0	ND (< 20)	ND (< 50)	11D (< 250)	ND (< 0.02)	ND (< 0 02)	ND (< 0 (2)	ND (< 0.07)	-
EB 88.9	R.9	0	110 (< 20)	ND (< 50)	ND (< 250)	- MDIS VOA	- AD 15 0 021			
E880-10	9-107	<u> </u>						<u> </u>		-
EB 92-3	2.3	0				ND (< 0.02)	ND (< 9.02)	ND (< 0.02)	ND (< 0.05)	
EB 9.3.4'	35	0.4	<del>-</del>				- 101 - 002			
EB 9455	455	0	· ····						<u> <u>-</u></u>	1 <u> </u>
FB95565	5565	0				····			<u> </u>	
EB 97-7.5	7.7.5	0							1	
FB 97.5-8	75-5	0			· · · · · · · · · · · · · · · · · · ·	·		·		
FR 9.9.10	9-107	0					ND (4 0 07)	140 (= 0 02)	ND (< 0.03)	
EB 10.4-4.5	445		<u></u>	ND.(<.50)	ND (s 250)	<u>ND (&lt; 0.02)</u>	ND (< 0.02)		1	t
EB 107.5-85	7.58.5	0								
EB 10 8-10*	9-107	0		.						+
MITCA Method A	1	1	I .		1	1			1 .	
CINYLOLINDS	1		39/100	2,000	2.000	0.03	7	6	9	250

Notes: Realls above the MTCA Mathad A Charup Level for Unrestricted Land Use, if my, in Ixid

House - Receipt and the CA Mathed A Charlop Level for Unit ft bgs = fast befow ground surface.
 mg/kg = milligrams per kilogram (equivalent to put's per million) PID = Photoierization Detector

vppm = volumatic parts par million .... = Net Analyzed

NR + No reating collected

¹ The discrup level for gazeline range total potrolirum hydrocarbons is 100 mg/kg for mixtures without bonzone and the total of uthylbonzone, totaone, and xylanes are less than 1% of the mixture. The decrup level is 30 my/kg for di other gizoline mixtures.

² The sample diversitographic pattern does not resemble the fuel standard used for quantitation.

³ The sample was received in a container not approved by the method. The value reported should be considered an estimate.



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### **ENVIRONMENTAL CHEMISTS**

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348 Date Extracted: 12/20/13 Date Analyzed: 12/20/13

### **RESULTS FROM THE ANALYSIS OF SOIL SAMPLES** FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx **Results Reported on a Dry Weight Basis** Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate ( <u>% Recovery)</u> (Limit 50-150)
EB4 4-5' 312348-19 1/20	1.8	9.6	41	120	2,000	100
EB4 6.5-7.5' 312348-20	<0.02	0.031	<0.02	<0.06	3.9	91
EB5 4-5' 312348-24 1/20	1.4	4.3	12	50	730	96
EB5 5.5-6.5' 312348-25	0.27	0.75	0.27	0.89	100	105
EB5 6.5-7.5' 312348-26	0.41	0.25	0.038	<0.06	22	98
EB6 7-7.5' 312348-32 1/20	<0.4	8.0	16	5.1	1,300	104
EB6 9.5-10' 312348-34	0.66	<0.02	0.035	0.20	5.7	95
EB7 5.5-6' 312348-39	0.027	<0.02	<0.02	<0.06	<2	95
EB9 3-4' 312348-45	<0.02	<0.02	<0.02	<0.06	4.0	95
EB10 4-4.5' 312348-52	<0.02	<0.02	<0.02	<0.06	<2	90
Method Blank 03-2576 MB	<0.02	<0.02	<0.02	<0.06	<2	95

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348 Date Extracted: 12/24/13 Date Analyzed: 12/30/13

### RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx Sample Extracts Passed Through a Silica Gel Column Prior to Analysis Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recoverv)</u> (Limit 47-140)
EB3 GW 312348-11	<50	350	83
EB4 GW 312348-17	6,000 x	<250	88
EB5 GW 312348-28	420 x	<250	73
EB6 GW 3123-18-36	3,800 x	<250	84
EB7 GW 3123-1810	520 x	<250	90
EB10 GW 312348-55 1/1.1	<55	<280	87
Method Blank 03-2640 MB	<50	<250	72

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348 Date Extracted: 12/26/13 Date Analyzed: 12/27/13

### RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx Sample Extracts Passed Through a Silica Gel Column Prior to Analysis Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (Cu-Crs)	<u>Motor Oil Range</u> (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 56-165)
EB4 4-5' 312348-19	660 x	<250	88
EB4 6.5-7.5' 312348-20	<50	<250	88
EB5 4-5' 312348-24	220 x	<250	89
EB5 5.5-6.5' 312348-25	<50	<250	88
EB5 6.5-7.5' 3123-18-26	<50	<250	87
EB6 7-7.5' 312348-32	560 x	<250	88
EB6 9.5-10' 312348-34	<50	<250	86
EB7 5.5-6' 312348-39	<50	<250	90
EB10 4-4.5' 312348-52	<50	<250	86
Method Blank 03-2075 MB	<50	<250	89

### ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID: Date Roceived: Date Extracted: Date Analyzed: Matrix: Units:	EB4 4-5' 12/20/13 12/23/13 12/23/13 Soil mg/kg (ppm) Dry Weight	Client: Projoct: Lab ID: Data Filo: Instrument: Operator:	Associated Earth Sciences TV130509B, F&BI 312348 312348-19 312348-19.020 ICPMS1 AP
Internal Standard: Holmium	% Recovery: 96	Lower Limit: 60	Upper Limit: 125
Analyte:	Concontration mg/kg (ppm)		

12.3

Lead

### ENVIRONMENTAL CHEMISTS

### 8.002 bortaM ATI VE alstam lator rof sisylanA

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Uppor Limit: 126	Lower Limit: 60	99 % Уосологд:	Intornal Standard: Holmium
AP	Operator:	ng/kg (ppm) Dry Woight	:esinU
ICPMS1	:JnomurienI	lioS	Matrix:
812348-26.021	Data File:	12/23/13	Date Analyzed:
315348-58	:GI dal	15/53/13	Date Extracted:
TV130609B, F&BI 312348	Project:	15/50/13	Date Received:
Associated Earth Sciences	client:	<b>'</b> 3.5-3.3 3AT	Cliant ID:

Concentration) Concentration

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Analyte:

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### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 200.8

Client ID: Dato Recoived: Date Extracted: Date Analyzed: Matrix: Units:	EB6 7.7.5' 12/20/13 12/23/13 12/23/13 Soil mg/kg (ppm) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Associated Earth Sciences TV130509B, F&BI 312348 312348-32 312348-32.022 ICPMS1 AP
Internal Standard: Holmium	% Rocovery: 88	Lower Limit: 60	Upper Limit: 125
Analyte:	Concontration mg/kg (ppm)		
Lead	9.00		

### ENVIRONMENTAL CHEMISTS

# Analysis For Total Metals By EPA Method 200.8

m

Client ID: Dato Received: Date Extractod: Dato Analyzed: Matrix: Units:	Method Blank NA 12/23/13 12/23/13 Soil mg/kg (ppm) Dry Woight	Cliont: Project: Lab ID: Data File: Instrument: Operator:	Associated Earth Sciences TV130509B, F&BI 312348 I3-872 mb I3-872 mb.008 ICPMS1 AP
Internal Standard: Holmium	% Recovory: 100	Lower Limit: 60	Upper Limit: 125
Analyte:	Concontration mg/kg (ppm)		

Lead

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# **ENVIRONMENTAL CHEMISTS**

# Analysis For Volatile Compounds By EPA Method 8260C

th Sciences kBl 312348	Upper Limit: 150 150	Concentration ug/L (ppb)	7	' 🗸	' ⊽	<b>!</b> ≻	√	~		1,100 ve	430 vo	1∿	52	<b>I</b> >	140	<b>دا</b>	-		7	<b>1</b> >	</th <th><b>1</b></th> <th>160 vo</th> <th>13</th> <th>6.6</th> <th><b>1</b>&gt;</th> <th><b>۲</b></th> <th></th> <th>ane &lt;10</th> <th>1∽</th> <th>7</th> <th>130</th>	<b>1</b>	160 vo	13	6.6	<b>1</b> >	<b>۲</b>		ane <10	1∽	7	130
Associated Earth Sciences TV130509B, F&BI 312348 312348-28 122411.D t: GCMS9 VM		Compounds:	.3.Dichloronronana	Potrachlorootheng	Dibromochloromethane	1,2-Dibromoethane (EDB)	Chlorobenzene	Ethylbenzeno	l, l, l, 2-Tetrachloroethane	m,p-Xylene	ne	DO	sopropylbenzene	Bromoform	n-Propylbenzene	Bromobenzene	l,3,5-Trimethylbenzene	1, 1, 2, 2. Tetrachloroethane	l,2,3.Trichloropropane	2-Chlorotoluene	I-Chlorotoluene	lort-Butylbenzene	l,2,4-Trimethylbenzeno	sec-Butylbenzene	p-Isopropyltoluene	.3-Dichlorobenzene	.4-Dichlorobenzene	i,2-Dichlorobenzene	I,2.Dibromo-3-chloropropane	.2,4-Trichlorobenzone	Hexachlorobutadiene	Nanhthalene
Client: Projoct: Lab ID: Data File: Instrument: Operator:	r: Lower 50 50	-	1.3-Di	Tetrne	Dibro	1,2-Di	Chlore	Ethyll	1,1,1,	m.p-X	o-Xylene	Styrono	Isopro	Brome	n-Proj	Brome	1,3,6-1	1,1,2,	1,2,3-1	2-Chlo	4-Chile	tort.B	1,2,4-7	sec-Bu	p-Isop	1,3-Di	1.4-Di	1,2-Di	1,2-Di	1,2,4-7	Hexac	Nanht
	% Recovery: 102 106 97	Concentration ug/L (ppb)	Ā	<10	<0.2	7	7	7	<10	7	\$	₽	⊽	7	7	₽	7	<10	₽	7	√	₽	380 vo	7	₹	₽ V	₽	<10	7	180 ve	7	7
D: EB5 GW 12/20/13 12/24/13 12/24/13 Water ug/L (ppb)	une-d4 anzene		methane					nethane		oua	ide	ther (MTBE)	roethene	ane	ane	sthene		2	ine (EDC)	thane	ono	orido			ane	icthanc	e	anone	propene		ropropene	thane
Cliont Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Surrogates: 1,2-Dichloroethano-d4 Toluene-d8 4-Bromofluorobenzeno	Compounds:	Dichlorodifluoromothane	Chlommethane	Vinvl chloride	Bromomethane	Chloroethane	<b>Trichlorofluoromethane</b>	Acetone	1, 1-Dichlorootheno	Methylene chloride	Methyl t-butyl ether (MTBE)	trans-1,2-Dichloroethene	I, 1-Dichloroethane	2,2-Dichloropropane	cis-1,2-Dichloroethene	Chloroform	2-Butanone (MEK)	l,2-Dichloroethane (EDC)	l, l, l-Trichloroethane	1, 1-Dichloropropone	Carbon tetrachloride	Bonzeno	Trichlorcethene	1,2-Dichloropropane	Bromodichloromethane	Dibromomethane	4-Methyl-2-pentanone	cis-1,3-Dichloropropene	Toluene	trans-1,3-Dichloropropene	1.1.2 Trichloroethane

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# ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Analysis For Vo	latile Com	Analysis For Volatile Compounds By EFA Method 8260C	Method 826	50	
Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	EB5 GW 12/20/13 12/24/13 12/24/13 Water wg/L (ppb)		Client: Project: Lab ID: Datn File: Instrument: Operator:	Associated Earth Sciences TV130509B, F&BI 312348 312348-28 1/10 122410.D GCMS9 VM	1248 1348
Surrogates: 1,2-Dichloroethano-d4 Tolueno-d8 4-Bromofluorobenzeno	7 8	% Recovery: 103 102 97	Lower Limit: 50 50	Uppor Limit: 150 150	
Compounds:		Concentration ug/L (ppb)	Compounds:	ids:	Concentration ug/L (ppb)
Dichlorodifluoromethane	hano	<10	1,3-Dichl	l,3-Dichloropropane	<10
Chloromethane		<100	Tetrachlc	Tetrachloroethene	<10
Vinyl chloride		5	Dibromo	Dibromochloromethane	<10
Bromomethane		<10	1,2-Dibro	l,2-Dibromoethane (EDB)	<10
Chloroethane		<10	Chlorobenzene	nzene	<10
Trichlorofluoromethane	ane	<10	Ethylbenzene	20N0	610
Acetone		<100	1,1,1,2 ⁻ T	l, l, l, 2-Tetrachloroethane	<10
1, 1-Dichloroethene		<10	m,p-Xylone	ne	1,600
Methylene chloride		58 lc	o-Xyleno		470
Methyl t-butyl ethor (MTBE)	: (MTBE)	<10	Styrene		<10
trans-1,2-Dichloroethene	hene	<10	Isopropylbenzene	benzene	66
1, 1-Dichloroethane		<10	Bromoform	E	<10
2,2-Dichloropropane	_	<10	n-Propylbonzene	Jonzene	170
cis-1,2-Dichloroethone	00	<10	Bromobenzone	nzono	<10
Chloroform		<10	1,3,6-Trii	1,3,6-Trimethylbenzene	210
2-Butanone (MEI()		<100	1, 1, 2, 2-T	l, l, 2, 2-Totrachloroethane	<10
1,2-Dichloroethane (EDC)	EDC)	<10	1,2,3-Tri	l,2,3.Trichloropropane	<10
1, 1, 1-Trichloroethane	0	<10	2-Chlorotoluene	oluene	<10
1, 1-Dichloropropone		<li>01&gt;</li>	4-Chlorotoluene	oluene	<10
<b>Carbon tetrachloride</b>	-	<10	tert-Buty	tert-Butylbenzene	<10
Benzene		430	1,2,4-Tri	1,2,4-Trimothylbenzeno	830
Trichloroethene		<10	sec-Butylbonzene	lbonzene	14
1.2-Dichloropropane		<10	p-Isoprop	p-Isopropyltoluene	<10
Bromedichloromethane	ane	<10	1,3-Dichl	1, 3-Dichlorobenzene	<10
Dibromomethane		<10	1,4-Dichl	l,4-Dichlorobenzene	<10
4-Methyl-2-pentanone	De	<100	1,2-Dichl	l,2-Dichlorobenzene	<10
cis-1.3-Dichloropropene	ene	<10	1,2-Dibre	.2.Dibromo-3-chloropropane	<100
Toluene		200	1,2,4-Tri	.2.4-Trichlorobenzene	<10
trane-1 3. Dichlomoronene	опеле	<10	Hexachlo	Hexachlorobutadiene	<10
1.1.2. Trichloroothane	alter of	<10	Nanhthalene	lone	130
2-Hexanone	2	<100	1,2,3-Tri	1,2,3-Trichlorobenzene	<10

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Sciences I 312348	L:	Concentration ug/L (ppb)	<b>₽ ₽ ₽</b>	⊽ ⊽	550 ve <1	34 6.0	7 5	13U <1	4	4.4	1 2	7 ⊽	₽ 7	⊽ ≌	24	3.2	√ 7	7 7	v		 ₩	520 Ve
Associated Earth Sciences TV130509B, F&BI 312348 312348-36 122415.D GCMS9 VM	Upper Limit: 150 150 150	inds:	1,3.Dichloropropane Totrachloroathono Dihromochloromethane	1,2-Dibromoethane (EDB) Chlorobenzene	Ethylbonzene 1.1.1.2.Totrachloroethane	lene		(sopropylbenzene Bromoform	n-Propylbenzene	bromobenzene 1,3,5-Trimethylbenzene	1,1,2,2.Tetrachloroethane	1,2,3-1 richaropropane 2-Chlorotolueno	4-Chlorotoluone	tert-Butylbenzene	1,2,4•1 rimourytoenzeno eoc.Rutvibonzene	p-Isopropyltoluene	.3.Dichlorobenzene	1,4-Dichlorobenzene	2.Dibrome-3-chloropropane	1,2,4.Trichlorobenzene	Hexachlorobutadiene	halene
Analysis For Volatile Compounds Dy LFA INCUING 02000 Client Sample ID: BB6 GW Client: As Date Received: 12/20/13 Project: TV Date Extracted: 12/24/13 Lab ID: 31 Date Analyzed: 12/24/13 Data File: 12 Matrix: Vater Coperator: VA	Lower Linit: 50 50	Compounds:	1,3-Dich Totrach Dibrom	1,2-Dibr Chlorob	Ethylbonzene 1.1.1.2-Totrac	m, p-Xylene	Styreno	Isopropylbe Bromoform	n-Propy	Bromou 1,3,5-7'i	1,1,2,2	2-Chlor	4-Chlor	tort-Bu	1,2,4-1 soc-But	p-Isopr	1,3-Dic	1,4-Dic	1.2-Dib	1,2,4-T	Hexach	Naphthalene
	% Recovery: 106 109 99	Concentration ug/L (ppb)	10 10 00 00	, 	1 × 10	;⊽ \	8 ⊥	₫ 5	; ⊽	4 4	<10	⊽ ⊽	' ⊽	⊽ 9	450 ve	; 4	1>	7 ₹		22	<b>ا</b> >	
(olattle Com EB6 GW 12/20/13 12/24/13 12/24/13 12/24/13 Water ug/L (ppb)	le-d4 izone		ıethano		ethano	je	de her (MTBE)	oethene	anc	thene	Q V	ne (EDC) hene	ene	rido		a ne	ethane	0	1 none	anadou	ropropene	hane
Analysis For V Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Surrogates: 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobonzone	Compounds:	Dichlorodifluoromethane Chloromethane	Vinyi chloriue Bromomethane Chlomothane	Trichlorofluoromethano	1, 1-Dichlorocthene	Methylene chloride Methyl t-butyl ether (MTBE)	trans-1,2-Dichloroethene	1, 1-Dichloropropane 2,2-Dichloropropane	cis-1,2-Dichloroethene Chlomform	2-Butanone (MEK)	1,2-Dichloroethane (EDC)	1.1.Dichloropropena	Carbon tetrachlorido	Benzene	Tricnioroetnouo	Bromodichloromethane	Dibromomethano	4-Mothyl-2-pentanone	cis-1,3-Dicnioropropue Toluene	trans-1,3-Dichloropropene	1 1 9. Trichlornethane

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ENVIRONMENTAL CHEMISTS

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# **ENVIRONMENTAL CHEMISTS**

# Analysis For Volatile Compounds By EPA Method 8260C

Analysis for Vo	latile Com	Analysis for volatile Compounds by EFA Method 8260C	Nietnoa 826	20	
Client Sample ID: Date Received: Dato Extracted:	EB6 GW 12/20/13 12/24/13		Client: Project: Lab ID:	Associated Earth Sciences TV130509B, F&BI 312348 312348-36 1/10	1ces 2348
Date Analyzed: Matrix:	12/24/13 Water		Data File: Instrument:	122414.D GCMS9	
Units:	(qdd) Tyßn		Operator:	W	
1		1	Lowor	Upper	
Surrogates:	2	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane-d4	14	103	00	150	
4.Bromofliornhenzene	au	80	60	150	
		:   ·	ł		
Commune		Concentration	Composinde.		Concentration http://mah)
compounds.			modulas	.en	
Dichlorodifluoromethane	hane	<10	1,3-Dichl	1,3-Dichloropropane	<10
Chloromethane		<b>001</b> >	Tetrachi	Tetrachloroethene	<10
Vinyl chloride		5	Dibromo	Dibromochloromethane	<10
Bromomethane		<10	1,2-Dibro	l,2.Dibromoethane (EDB)	<10
Chloroethane		<10	Chlorobenzene	nzono	<b>01</b> >
Trichlorofluoromethano	ano	<10	Ethylbonzone	zone	1,500
Acetone		<100	1,1,1,2-T	1, 1, 1, 2. Tetrachloroethane	<10
1, 1-Dichloroethene		<10	m,p-Xylone	ne	30
Methylene chloride		<50	o-Xylene		<10
Methyl t-butyl ether (MTBE)	r (MTBE)	<10	Styrene		<10
trans-1,2-Dichloroethene	thene	<10	Isopropy	Isopropylbenzene	150
1, 1-Dichloroethane		<10	Bromoform	8	<10
2,2-Dichloropropane	•	<b>0</b> 1>	n-Propylbenzene	benzene	450
cis-1,2-Dichloroethene	ne	<10	Bromobenzene	nzene	<10
Chloroform		<10	1,3,5-Tri	1,3,5-Trimethylbenzene	<10
2-Butanone (MEK)		<100	1,1,2,2-T	1, 1, 2, 2-Tetrachloroethane	<10
1,2-Dichlorcethane (EDC)	(BDC)	<10	1,2,3-Tri	1,2,3Trichloropropane	<10
1, 1, 1-Trichloroethane	ne	<b>0</b> 1>	2-Chlorotoluene	toluene	<10
1,1-Dichloropropene		<10	<b>4-Chlorotoluene</b>	toluene	<10
<b>Carbon tetrachloride</b>	0	<10	tert-Buty	tert-Butylbenzene	<10
Benzene		510	1,2,4-Tri	1,2,4-Trimothylbenzone	10
Trichloroethene		<10	sec-Buty	sec-Butylbenzeno	26
1,2-Dichloropropane	•	<10	p-leoproj	p-Isopropyltaluenc	<10
Bromodichloromethane	ane	<10	1,3-Dichl	1,3-Dichlorobenzene	<10
Dibromomethane		<10	1,4-Dichl	1,4-Dichlorobenzene	<10
4-Methyl-2-pentanone	ne	<100	1,2-Dichl	1,2-Dichlorobenzene	<10
cis-1,3-Dichloropropene	ene	<10	1,2-Dibre	l,2-Dibromo-3-chloropropane	<100
Toluene		20	1,2,4-Tri	1,2,4-Trichlorobenzene	<10
trans.1,3-Dichloropropenc	ropene	<10	Hexachle	Hoxachlorobutadieno	<10
1, 1, 2-Trichloroethane	ne	<10	Naphthaleno	leno	540
2-Hexanone		<100	1,2,3-Tri	1,2,3.Trichlorobenzene	<10 <

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Analysis For Vc	olatile Com	Analysis For Volatile Compounds By EPA Method 8260C	Method 826	00	
Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	EB7 GW 12/20/13 12/24/13 12/24/13 Water Water ug/L (ppb)		Cliont: Project: Lab ID: Data File: Instrumont: Operator:	Associated Earth Sciences TV130509B, F&BI 312348 312348-40 122418.D GCMS9 VM	12348 12348
Surrogates: 1,2-Dichloroethanc-d4 Toluone-d8 4-Bromofluorobenzene		% Recovery: 101 101 96	Lowor Limit: 60 60	Upper Limit: 150 150	
Compounds:		Concontration ug/L (ppb)	Compounds:	:cpi	Concentration ug/L (ppb)
1		•			Ţ
Dichlorodifluoromethane	thane		I,3-Dichl	L.JDichloropropane	75
Chloromethane			Diburne	letracniorocciene Dituomochioromothano	7 5
Vinyl chloride		2.02			7 7
Bromomethane		7	1,2-Dipromoeu	ומעים) אנואנטססמו	7 7
Chloroethane		7 7	Cuiotopeuzeno Peliullisareno	2220	, <u>r</u>
Trichlorolluoromethane	hane	7 =	1 1 1 9.T	i 1 1 9.Tetrachloronthana	  >
Acetone		11	1,1,1,61	Alternototala	7 6
1, 1-Dichloroethene		⊽ '	m,p-Xyleno	00	52
Methylene chloride		\$ <u>5</u>	o-Xylene		4.0
Methyl t-butyl ether (MTBE)	ar (MTBE)	7	Styrone		7 3
trans.1,2.Dichloroethene	sthene	7	Isopropy	Isopropylbenzene	34
1.1-Dichloroethane		<b>دا</b>	Bromoform	8	7
2.2-Dichloropropano	9	<b>د</b> ا	n-Propylbenzene	benzene	65
cis-1.2-Dichloroetheno	eno	<b>د</b> ا	Bromobonzenc	nzene	₽
Chloroform		<ا دا	1,3,5-Tri	1,3,5-Trimethylbenzene	₽
2-Butanone (MEK)		<10	1, 1, 2, 2-T	1, 1, 2, 2-Tetrachloroethane	₽
1, 2-Dichloroethano (EDC)	(EDC)	l>	1,2,3-Tri	1,2,3-Trichloropropane	7
1.1.1.Trichloroethane	ne	₹	2-Chlorotoluene	toluene	7
1, 1-Dichloropropone	e	1>	4-Chlorotoluene	tolueno	7
Carbon tetrachloride	de	<b>1</b>	tort-Buty	lert-Butylbenzene	₽
Benzene		260 ve	1,2,4-Tri	1,2,4-Trimethylbenzeno	1.6
Trichloroethene		~	sec-Buty	sec-Butylbenzene	3.5
1.2-Dichloropropane	je Je	7∽	p-Isoprol	p-Isopropyltoluene	7
Bromodichloromethane	hane	₽	1,3-Dich	1, 3-Dichlorobenzene	₽
Dibromomethane		7	1,4.Dich	1,4.Dichlorobenzene	7
4-Methyl-2-pentanone	one	<10	1,2-Dich	1,2-Dichlorobenzene	4
cis-1.3-Dichloropropene	pene	4	1,2-Dibn	l,2.Dibromo-3.chloropropane	01>
Toluene	•	24	1,2,4-Tri	,2,4-Trichlorobenzene	4
trans-1,3-Dichloropropone	propone	₽	Hexachl	Hexachlorobutadione	7
1,1,2-Trichloroethane	ane	7	Naphthalono	ilono	√ 1
2-Hexanone		<10	1,2,3-Tri	,2,3-Trichlorobenzene	l>

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# ENVIRONMENTAL CHEMISTS

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### ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 312348-08 (Duplicate)

Analyte	Reporting Units	Samplo Result (Wet Wt)	Duplicato Result (Wet Wt)	RPD (Limit 20)
Bonzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

			Percent	
Analyte	Reporting Units	Spike Level	Recovery LCS	Accoptance Critoria
Benzene	mg/kg (ppm)	0.5	86	69-120
Toluene	mg/kg (ppm)	0.5	92	70-117
Ethylbenzene	mg/kg (ppm)	0.5	95	65-123
Xylenes	mg/kg (ppm)	1.5	94	66-120
Gasoline	mg/kg (ppm)	20	95	71-131

### ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING METHOD 8021B AND NWTPH-Gx

Laboratory Code	: 312333-06 (Duplicat	o)		
	Reporting	Samplo	Duplicato	RPD
Analyte	Units	Result	Result	(Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

			Porcont	
Analyto	Reporting Units	Spike Level	Recovery LCS	Acceptance Critoria
Benzene	ug/L (ppb)	50	92	65-118
Toluene	ug/L (ppb)	50	93	72-122
Ethylbonzene	ug/L (ppb)	50	95	73-126
Xylenes	ug/L (ppb)	150	94	74-118
Gasoline	ug/L (ppb)	1,000	98	69-134

### ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348

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

Laboratory Code: La	aboratory Control	l Sample S	Silica Gel			
	_		Percent	Percent		
	Reporting	Spike	Recovery	Recovory	Acceptance	RPD
Analyto	Units	Lovel	LCS	LCSD	Criteria	<u>(Limit 20)</u>
Diesel Extended	ug/L (ppb)	2,500	106	104	61-133	2

### ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348

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

Laboratory Code:	312348-19 (Matrix	Spike) S	ilica Gel				
Analyto	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	500	132	117	63-146	12
Laboratory Code:	Laboratory Contro	d Sample	Silica Gel Percent				
	Reporting	Spike	Recovery	и Ассер	tance		
Analyto	Units	Lovol	LCS	Crit	<u>oria</u>		
Diesel Extended	mg/kg (ppm)	5,000	116	79-1	144		

### ENVIRONMENTAL CHEMISTS

Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

<u>mit 20)</u>
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Analyte	Reporting Units	Spike Level	Recovery LCS	Accoptance Criteria	
Lead	mg/kg (ppm)	50	97	80-120	

### **ENVIRONMENTAL CHEMISTS**

### Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348

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

Laboratory Code: 312369-01 (Matrix Spike)

	<b>n</b>	0.1	a .	Percent	•
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Lovel	Result	MS	Critoria
Dichlorodifivoromethano	ug/L (ppb)	50	<1	92	55-141
Chloromethano	uz/l. (ppb)	60	<10	86	67-131
/inyl chloride	ug/l. (cpb)	50 59	-02	96	61-139
Broinsmethano Chloroethano	ug/l. (cpb)	50 50	<1	122 91	66 ID
Prichlorofluoromethane	աց/Լ (ppb) աշ/Լ (ppb)	50 60	4	91 93	68-136 71-128
leetano	այ/լ.(թե)	250	<10	97	48-149
1.Dichloroethene	ug/L (ppb)	50	<1	86	71-123
lethylene chloride	ug/1.(ppb)	50 50 50	<5	<b>9</b> 5	61-126
lethyl t-butyl ether (MTBE)	ug/L (pab)	50	<1	98	65-125
rans-1,3-Dichlcroethene	us/L (npb)	50	<i< td=""><td>92</td><td>72-122</td></i<>	92	72-122
1-Dichloroethane	ug/L (ppb)	50	<i< td=""><td>85</td><td>79-113</td></i<>	85	79-113
13-Dichleropropano	ug/L (ppb)	60	<1	95	66-132
is-1,2-Dichloroothene	ug/L (ppb)	60 60	<1	95 03	73-119
Chloroform	up'l. (ppb)	50	<1	93	80-112
Butenane (AIEK)	ug/l. (ppb)	250	<10	105	60-123
2 Dichloroethane (EDC)	ug/L (ppb)	150 80 80	<1	08 85	78-113
, L 1-Trichlaroethane L 1-Dichlaroe ropena	ացե (բբե) ացե (բբե)	50 50	<1 <1	80 80	79-110 67-121
Larbon tetrachloride	աց/Լ (օրե)	30	<1	102	72-123
le name	ug/1.(ppb)	50 50	⊲35	91	79-100
Nichloroethene	աչվե (զգն)	50	<1	91	75-100
2-Dichleropropane	ug/l. (ppb)	50 60 50	<1	97	50-111
lromodichloromethane	ug/l. (cpb)	50	<i></i>	101	78-117
Diromomethano	ug/1. (cpb)	80 250 50	<1	101	50-112
Methyl-2-pontansne	uz/1. (pph)	250	<10	118	79-120
is-1,3-Dichloropropens	ug/L (ppb)	50	<1	102	76-130
"cluese	ug/L (ppb)	50	<1	92	73-117
rans-L3-Dichleropropene	ug/L (ppb)	50	<1	99	75-122
12-Trichloroethano	us/L (cpb)	50	<1	97	81-111
llexanone	us/L (npb)	250	<10	100	75-130
S-Dichloropropano	ug/L (ppb)	50 50	<1	95 87	81-111
'etrachlaroethene hbramachlaramethane	սց/Լ (օրե) սց/Լ (օրե)	80	</td <td>92</td> <td>72-113 69-129</td>	92	72-113 69-129
2 Dibromorthage (EDB)	արե (ԵՇԾ)	50	4	90	83-114
hierobensene	արե (Երել)	50	à		75-115
thyibanzens	ug/1. (cpb)	ឆ	- i	87	71-120
1.1.2 Tetrachloroethano	ug/L (ppb)	50	<	96	78-122
ap-Xylene	ve/L (cob)	100	<2	87	63-128
-Xyleno	սց/Լ (բբե)	50	<1	90	61-120
lyrene	ug/L (ppb)	80	<1	91	70-122
sopropylbenzene	ug/l. (ppb)	50	<1	90	76-118
lromoform	ug/l. (ppb)	50	<1	94	49-138
Propylbenzene	ug/l. (npb)	60	<1	90	74-117
romobenzeno	ug/1, (ppb)	60	<1 <1	90 90	70-121
15-Trimethylbenzene 122-Tetrachlaroothane	ug/l. (ppb) ug/l. (ppb)	50 50	<1 <1	<u>ິ</u> ນ	61-112
23 Trichleropropage	ug/1. (ppb)	20 20	<1	58 58	19-120 72-119
Chierataluese	uz/1. (ppb)	80	<1	86	77-114
Chlorotolueno	up/1. (pcb)	60	<.	86	81-100
art Butylbenzene	up/L. (cob)	60	<1	50	81-11G
2.4-Trimethylbenzeno	ug/L.(cpb)	50	<1	93 93	74 115
ec-Butyibensene	ug/L (ppb)	50	<1	88	77-118
Isopropyltoluene	ug/L (ppb)	50	<1	90	64-132
3-Dichlorobenzeno	ug/L (ppb)	50	<1	00	81-111
4-Dichlorchensono	ug/L (ppb)	60	<1	87	78-110
2 Dichlorobenzene	up/L (oph)	50	<1	91	81-111
2-Dibramo-3-chlaropropane	ug/L (opb)	50	<10	108	63-129
2.4 Trichlarabeaseno	ug/l. (opb)	50	<	103	74-115
lezachlorobutadiene Japhthalene	ug/l.(oph)	50 50	<) <)	03 108	67-130
23 Trichlorobenseno	ug/1. (ppb)	50 50	S	105	63-156

### **ENVIRONMENTAL CHEMISTS**

### Date of Report: 01/02/14 Date Received: 12/20/13 Project: TV130509B, F&BI 312348

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

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spiko	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Lovel	LCS	LCSD	Criteria	(Limit 20)
Dichlorodifluoromethano	ug/1. (npb)	50	108	110	64-149	2 2
hloromethane	ug/L (ppb)	60	96	98	67-133	2
/inyl chlaride	ug/L (ppb)	50	100	103	73-132	0
ircmomethane	ug/1.(ppb)	50 60	128 vo 100	136 vo 101	68-123	6
richlarof waremethane	սց/Լ (րթն) սց/Լ (թջն)	50	93	50	68-126 70-132	1 0
etiano	արե արտ	250	113	119	44-145	5
1-Dichloroethene	ug/L (1pb)	50	68	່ມີ	75-110	ĭ
fethylong chloridg	ug/L (ppb)	50	99	103	63-131	÷
fethyl t-butyl ether (MTISE)	uc/L (ppb)	60	107	108	70-122	i
rans-1,2-Dichloroethene	ug/L (ppb)	60	94	01	70-118	Ó
I-Dichloroethane	ug/L (npb)	60	68	90	80-110	Î.
2-Dichloropropano	ug/L (ppb)	50	111	112	CC-141	1
is 12 Dichlaroetheno	uz/L (ppb)	50 50	99	100	81-111	1
hloroform	u2/L (ppl)	50	96	<b>\$8</b>	81-100	2
Butaneno (AIEK)	ug/L (ppb)	20 20 20 20 20	11G	117	63-140	l l
2 Dichloroethane (EDC)	wall (ppb)	50	101	107	79-100	3
1.1.Trichloroethane	us/L (ppb)	50	95	9G	80-115	2
1-Dichloropropens	ug/L (ppb)	20	92 106	90 101	78-113	2
larben tetnichloride Ienteno	uz/L (ppb) uz/L (ppb)	50 50	94	101 Bi	72-125 81-106	2
richlarootheno		50	54 90	93	77-108	2 2 2 0 0 3
2-Dichloropropone	սց/Լ (բբե) սց/Լ (բբե)	00 00	50 101	101	83-109	
romadichlärtmethang	սքե(թթե)	õ	106	100	76-130	3
hbrememethane	սց/Լ (բբե)	<u></u>	106	100	50-110	2
Methyl-3-pentanone	ug/L (opb)	250	124	131	50-142	3
la-LS Dichlarcpropeng	ugl (oph)	60	iii	116	76-125	, i
alueno	uz/L (ppb)	60 50	53	92	83-108	i
ans-13-Dichloropropene	ug/L (opb)	50	105	100	76-128	3
L2 Trichloroethano	ug/L (ppb)	60	101	101	83-110	3
Hexanono	ug/L (ppb)	250 50 50	109	114	63-145	4
3-Dichloropropane	ug/L (ppb)	50	98 65	102	83-110	4 2
etrachloroothene	uc/L (ppb)	60		84	78-100	2
libromochloromethano	up/L (ppb)	50	97	100	63-140	3
2 Dibromoethane (EDB)	ug/L (ppb)	50	99	103	85-113	4
hlorobenseze	vg/L (opb)	50	95	96	84-108	1
hylbensene	us/L (ppb)	50	88	86	84-110	2
1, L2 Tetrachloroethano	ug/L (ppb)	50 100	101	101	76-125	0
up-Xylene	up/L (spb)		89 92	88 97	84-112 82-113	1
Xylene Lyrene	սց/ե (թրե) սց/ե (թրե)	50	97 91	95	84116	i i
opropyibensena	us/L (ppb)	50 50 50 50	91	89	81-122	
romelerm	ug/L (ppb)	žõ	03	101	40-161	1
Propylbenseno	ug/L (ppb)	50 50 50	ตั	86	81-115	2 3 3
romobenzae	ug/L (ppl)	<u>50</u>	83 83	91	80-113	ĩ
3.5-Trimethylbonzene	ug/L (ppb)	50	91	90	83-117	i
1.2.2 Tetrachloroethano	ug/L (ppb)	60	95	9G	79-118	i
2.3-Trichloropropano	ug/L (ppb)	50 50	91	92	74 118	i
Chlorotolucne	ug/L (opb)	50	85	81	79-112	1
Chlorotolwene	ug/L (ppb)	50	87	8G	81-113	1
rt Butylbenzene	ug/L (spb)	60	90	88	8)-119	2
2.4-Trimethylbenzene	ug/L (ppb)	50	91	92	83-116	2 2 2
e-Butyibenzene	us/L (ppb)	50	88	86	83-116	2
[copropy]tolueno	ug/L (ppb)	60	92	<u>90</u>	82-110	2
3 Dichlarabansena	ug/L (ppb)	50 50	93	92	83-111	o
4-Dichlorobenzeno 2-Dichlorobenzeno	ug/L (ppb)	50	91	91	82-100	ě.
2 Dibramo-3-chicropropane	ug/L (ppb)	50	94 115	95 110	83-111 62-133	1
24 Trichlorghenzens	ug/L (ppb) ug/L (ppb)	50	108	112	77-117	-
exachlerobytadieno	աք/ե (թթե)	ŝ	105	107	74 118	
anhthalene	ug(L (cpb)	50 50	115	121	75-131	25
2.3-Trichlerobenzeno	ug/1. (cpt)	õ	116 vo	122 vo	82-115	š

### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

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

A1 – More than one compound of similar molecule structure was identified with equal probability.

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

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

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

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dy - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr • The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogenoity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The result is below normal reporting limits. The value reported is an estimate.

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

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

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

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

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

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

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyto response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

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

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

312348				SAMPLI	E CHAIN C	FC	CUS	то	DY	,	HE	ري	120	9/1	13 1	153/200
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Company AES	1	<del>~~~~~</del>		PRO	ECT NAME	狗	).			T	PC	#	11	CI Stan	dard (2 Weel	a) In Liwe
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6.9-					<b>★</b> -Foll			<b>FC</b>						o Will	call with ins	nuctions
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<u> </u>	Lab	Date	Time		# of	csel	TPH-Oasoline	8021B	VOCs by 8260	SVOCs by 8270 HPS						• ••
Sample ID	Ð	Sampled	Sampled	Sample Ty	pe containers	TPH-Diesel	e e e	À	5	칠뙾	2					Notes
						Ħ	Ē	BTEX by	<u>Š</u>	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HCID					-10
EBI 2.5-3.5'	OIA- G	12/19/13	0758	Soil	5			<u>y</u>	╈	1		╈	1-		X-per	<u>~ LS</u> 10/13
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EB1 4-5'	8		0810	soil	5							1-	1-			EC 12/20/1
631 9.5-101	04		0815	soil	5			X		╈	X	+			<u> </u>	MC.
EB2 4-51	3		0885	soil	5			1								
832 6-7'	06		0840	soil	5							+	1-			<del></del>
EB2 GW	071		0840	water	5	$\neg$	X	x	┢	+		╋	1-			
EBZ 8,5'	08		0845	soil				X	╈	+	X	╈				
EB2 9.5-10'	OT D		08415	8011	4		+	<u> </u>		┢		+		┢──╊		
683 4-5'	10/5	V	0930	8011	5	1	1	X		╈	X	+	840		Mariji at.	1. 2
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Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Dissel	TPH-Oasoline	BTEX by 8021B	1	SVOCs by 8270 2	LYS SAH	Tet-1 P6 3	EQU	ESI	ED				Notes	)
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Fax (206) 283-5044	Ph. (206) 285-8282	Source THA DOI 10 2000	Friedman & Bruya, Inc.	6129 9-10'	639 7.5-81	637 7-7,5'	687 5.5-6.5'	637 4.55	687 3-4'	6B8 Com	EP8 9-10	16-8 8-91	688 4-5'	Sample ID			City. State. ZIP Varanit.		Company ff-ES	848
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# APPENDIX B

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# **Exploration** Logs



Asso	cla	ited E	larth	Sciences, Inc.		Exploration	n Log	
	[	Ī.			Project Number TV130509B	Exploration Nu EB-1	mber	Sheet 1 of 1
Project		me		Freddie's C	isino		Ground Surface E	levailon (ft)
Location Driller/E Hamma	qu			Fife, WA ESN / Direc N/A	Push / Geoprobe	······································	Datum Date Start/Finish Hole Diamoter (in)	N/A _12/19/13,12/19/13 _2 inches
Depth (ft)	S T	Samples	Graphic Symbol		DESCRIPTION		Well Completion Water Level Blows/6	Blows/Foot 0 20 30 40
	Ħ		TT		Aljuvium			
				Slightly maist, b EB1-2.5-3.5 P	own, fine to medium silty SAND, few fi D = 0.0 ppm	ine gravel; no odor (SM).		
- 5				Becomes line to EB1-4-5 PiD =	medium silly SAND, with fine to coars 0.0 ppm	o gravel; no odor (SM).		
				Slightly maist, b	own. fine to coarse silty SAND. few fin	e lo coarse gravel: no	*	
- 10					own, fine to coarse silly SAND, few fin D = 0.1 ppm tion boring at 10 feet ntonite.			
	) : ) :	3. OD 3. OD		poon Samplar (SF poon Sampler (D	8 M) 🚺 Ring Sample 🧏	- Moisturo 2 Water Level () 2 Water Level at time of	drilling (ATD)	Logged by: ESC Approved by:

Associa	led E	larth S	clence	s, Inc.		Exploration	1 Lo	g						
₩.	<b>E</b>	17.5 A			Project Number TV130509B	Exploration Num EB-2	nber	-	{			heet of 1		
Project Nan ocation	ne		Fred	die's Cr WA	asino	<u> </u>	Ground		eoshu		ion (ft) N/A			
Driller/Equi tammer W	pmen Notast	t Trees	ESN	/ Direc	Push / Geoprobe		Date Si Hole Di	larti		· 3	12/19/	13,12	/19/1	3
								-		<u>ل (ا</u>	2 inch	es		_
Depth (ft) 	Samples	Graphic Symbol					Well Completion	er Level	DISMO	B	lows/f	Foot		
ă T	S	90			DESCRIPTION		- S		ă)	10	20 3	10 41	)	
	·····				Alluvium	·····	+	╈		Ť	<del>1</del>			_
5	:		PID = ( Slighthy slight o PID = ( Grades	0.1.0000	rown, fine to medium siity SAND, fow fi ue and gray, fine to medium SAND, litt or (SW). 0.1 ppm									
			Grades	s to very n	to coarso sandy SILT, frace fine grave 0.1 ppm noist, brown, fine SILT; organic odor (N			Ŧ						
				.5 PID = 	······································	~	$\left  \right $							
10					n, line to medium SAND; organic odor D = 0.1 ppm		1							
					ton boring at 10 fast									
15														
Sample		• •												
<u> </u>	• OD			mpler (SP mpler (D i	& M) 👖 Ring Sample 🛛 🖓	- Moisturo Water Level () Water Level at time of a	trilling (A	ATC	)			ged by: roved t		C

(^C

Associated Ear			Project Number	Exploration Exploration Num		1_	r		Sheet		—
			TV130509B	EB-3		_			1 of 1		
roject Name ccalion	F	reddie's C ife. WA			Datum			vation (f			_
riller/Equipment ammer Weight/Di	Ē	SN / Direc /A	t Push / Geoprabe		Date St Hole Di			.12/1 _2.inc	9/13,12 :hes	2/19/13	
	Symbol				Well Completion	Varor Level Blows/6		Blow	s/Foot		
			DESCRIPTION			5	10	20	30 4	10	
- 10		avel; organic D = 0.4 ppm ightly moist, B3-4-5 PiD D = 0.4 ppm ary moist, bro B3-6-7 PiD B3-6-7 PiD ery moist, bro B3-7-7.5 Pi ery moist, bro B3-8-9 PiD B3-8-9 PiD B3-8-10 Pil	Alluvium pray and blue, fine to coarse silly SAND odor (SM). = 0.4 ppm wn, fine to medium sand, SILT; organic = 0.1 ppm wn, fine silly SAND; organic odor (SM). D = 0.1 ppm wn, fine SILT; organic odor (ML). = 0.1 ppm	: odor (ML)							
Sampler Typ											

Asso	ciate	d Earth	Sciences, Inc.		<b>Exploratio</b>	n Lo	g					
	Ī			Project Number TV130509B	Exploration Nu EB-4	mber				Sheet 1 of 1		
Project Location		· · · · ·	Freddie's Cr Fife, WA			Groun		urface E	levation _N//			
Driller/E	nqiupE		ESN / Direc	t Push / Geoprobe		Date S	itart		_12	/19/13,1	2/19/1	3
Hamme	¥We≄ T``I	ght/Drop	_N/A			Hole u	nsi(	eler (in)	) <u>_2</u> ir	nches	·	
E		4 40				ģ	SV0			· <b>-</b> .		S.
Depth (fl)	S T	Graphic Symbol				Well Completion	tor L		BIO	ws/Foot		Other Tests
<b>°</b>	T o	3 0		DESCRIPTION		8	^M	1	0 20	30	40	ð
				Alluvium	<u></u>			1-	<b>├</b> ──		11	
-												
			Slightly moist, g	ray and blue, fine to coarse silly SAND,	few fine to coarse							
T			gravel; petroleur EB4-2.5-3 PID									
			Slightly moist, d EB4-3.5-4 PID	ark brown, fine SILT; petroleum odor (N ) = 84.3 ppm	/L.).		Ŧ					
			Moist, dark brow EB4-4-5 PID =	vn, fine SiLT (ML). • 86.9 ppm						1		
- 5	Η				~	-		1				
			PID = 5.2 ppm	vn, fine sandy SILT; petroleum odor (S)	r <b>v</b> j.							
}						-		1				11
			Grades to moist EB4-6.5-7.5 P	; slight petroleum odor. ID = 0.5 ppm								
ł												
			Organic odor. EB4-8-9 PID =	: 0 5 mm								
				0.0 pp								
- 10	H		Organic odor. EB4-9-10 PID	= 0.6 ppm		7						
			Bottom of explora Ground water has	ation boring at 10 feet s slight sheen. Backfilled with bentonite.								
Ì				•								
										Ì		
ł												
									{			
	<b>}</b>	Í										
- 15						Ì						
ž												
5 531		Type (ST)			· · · · · · · · · · · · · · · · · · ·							
	] 2" (		Ipoon Sampler (SP	די) 🚺 No Recovery M	- Molsturo				(	Loggad b	y: ES	SC
SIE 111 Acruar Christenet Anaeca	3.0	DD Split S	ipoon Sampler (D	& M) 🚺 Ring Sample 🛛 🖓					4	Approved	i by:	
1 8	Gra	b Sample	1	🛛 Shelby Tube Samplo 🔻	Water Level at time of	drilling (	ATI	<b>)</b> }				l

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I			ciences, Inc.	Project Number		<u>1 La</u>	g			Sheet						
	Ż. E			1 of 1												
Project Nan	no		Freddie's Casino         Ground Surface Bevalu           Effe, WA         Datum Finish           ESN / Direct Push / Geographa         Date Start/Frish           N/A         Hoto Diameter (in)													
Location Onition/Equip	oment	-	ESN / Direc	Push / Geoprobe		Datum Date \$	Stort/F		N/A	2/13.1	2/19/1	3				
Hammer W	eigh:/D	NOD .	N/A			Hate (	Name	ter (in)	_2 inc	hes						
Dopth (f) L (s	Sampies Graphic	Symbol		DESCRIPTION		Woll Completion	Water Level Biows/6*	10	Blows		•0	Other Tests				
		TH.		Alluvium				1-1	- T-	1-	1					
- 5	and the second secon		Slightly moist, b EBS-4-5 PID =	rey and blue, fine to coarse sily SAND, n odor (SM). : 11.1 ppm rown, fine SILT; petroleum odor (ML). 138 ppm 			Ŧ									
- 10			EBS-6.5 P. Organic odor. EBS-6.5-7.5 P. PID = 4.1 ppm Organic odor. PID = 0.7 ppm Moist, brown, fir EBS-6-10 PID		•	-										
- 15 Sample [] 2 [] 3 [] 3 [] 3 [] 6 [] 6																
Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sa		çili Spi çît Spi	oon Sampler (SF oon Sampler (D	& M) 📳 Ring Sample 🛛 📿	- Moisium Water Level () Water Lovel at time of t		(ATD)	II		gged by proved		sc				



Associated Earth S	Sciences, Inc.	<u> </u>	Exploration	Lo	g							
		Project Number TV130509B	Exploration Num EB-6	iber				heet of 1				
Project Name Location	Freddie's Ca Fife, WA	isino		Ground Dalum		face Ele	vation (ft)					
Driller/Equipment Hammer Weight/Drop	ESN / Direct N/A	Push / Geoprobe	Date S	m								
		· · · · · · · · · · · · · · · · · · ·		1								
Depth (ft) 1 co Samples Symbol		DESCRIPTION		Well Comptation	Water Lovel Blows/6"	10	Blows/F	Foot 40 40	Other Tests			
		Alluvium		+								
- 10	petroleum odor ( EB6-3-4 PiD = Grades to brown Grades to blue a EB6-4-5 PID = Slightly moist, br gravel; petroleum EB6-6-7 PID = EB6-7.5-8 PID Organic odor. PID = 12.2 ppm EB6-9.5-10 PID	nd gray. 1.2 ppm ay and blue, fine to medium sity SANI n odor (SM). 103 ppm <u>= 43.8 ppm</u> a SILT; petroleum odor (ML). = 5.5 ppm D = 5.8 ppm fine SILT; slight petroleum odor (ML)	D, few fine to coarse — — — — — — — — — — —		×							
- 15	Bottem of explora Slanding water in	Ven boring at 15 feet 10 to 15 foot sleeve has shean. Backfille	d with bantcnite.									
	poon Sampler (SP poon Sampler (D &	K M) 🚺 Ring Samplo 🖓	- Moisture Water Level () Water Level at time of t	trilling (	ATD)	⊾		jed by: roved by:	ESC			

Associated Eart	h Sciences, Inc.		Exploratio	n Log		<u></u>				
		Project Number TV130509B	Sheet 1 of 1							
Project Name Location Driller/Equipment Hammer Weight/Dro	Freddie's C Fife, WA ESN / Direc N/A	asino t Push / Geoprobe	Datum Date Start/Fir	Ground Surface Elevation (fi)						
Dapth (ft) 	pomulés	DESCRIPTION		Well Completion Water Level Blows/6*	Blows/Foot					
5	EB7-3.5-4 PiD EB7-4-5 PiD =	Alluvium		7		0				
10	Bottom of explore Water has a sligh	Ven boring at 10 feet It sheen. Backfilled with bentanite.	<u>-</u>							
15										
	t Spoon Sampler (SP t Spoon Sampler (D &	L M) 🚺 Ring Sample 🗸	- Moisture Water Level () Water Level at time of	dritting (ATD)	Loggad by: Approved t					

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Associa	ted E	arth S	ciences, Inc.		Exploration	n Lo	g_					
B [	Ŧ.	Ч _{Р.}		Project Number TV130509B	Exploration Nur EB-8	nber			si 1	of 1		
Project Nar Location Driffer/Equi Hammer W	ipmen	1	Freddie's Ca Fife, WA ESN / Direct N/A	sino Push / Geoprobe		Datum Date S	tart		avation (ft) _N/A _12/19/ _2_inche	13,12/ s	19/13	
Depth (ft)	Samples	Graphic Symbol		DESCRIPTION		Well Completion	Water Level	-9/Sw018	Blows/F	Foot 0 40		Other Tests
- 5			PID = 0.0 ppm EB8-4-5 PiD =	Alluvium own, fine to coarse silty SAND; no odd	ы (SM).							
- 10 - 15 NG 11 Accurate (2018000001 1000133			Becomes slightly PID = 0.0 ppm EB8-9-10 PID : Bottom of explora Backfilled with be	n, fino SILT; organic odor (ML). 0.0 ppm 								
	2° 0 3° 0	-	Spoon Sampler (Si Spoon Sampler (D	& M) 🚺 Ring Sample	M - Moisturo 文 Water Lavel () 文. Water Level at time o	af drilling	(A)	TD)		igad by arovad l		;



<u>∽</u> [	_	_	ed Eartl			h		Deal	ject Numl			Ex		tion	Lo	g	1				heet		
		Ţ,							130509	B				8-9							of 1		
	Project   Localics		8	Ļ	Fife. \	lie's Ca	sino								Groui Datur		uda	ce Elé	wation				
10	Driller/E	quip	ment		ESN /	/ Direct	Push	/ Geo	probe					_ 1	Dale	Start			_12	/19/	13,12	/19/1	3
ľ	Hamme	r We F	sight/Drop	L 9	N/A_										Hole   T	r r	- <b>m</b> -	' (in)	_2.i	nche	<u>s</u>		_
	Depth (ft)	S	Samples Graphic Svembol												Vel Completion	ter Level	DWS/ID		Blo	ws/F	oot		
1	ă	Т	<i>8</i>	1				D	)ESCRI	PTION					ð	§ '	20	10	20	) 3	0 4	>	
-		┢╋		r,†					Alluvi	Um						Ħ	╈					-	1
	- 5				SM), IB9-2-2, Silightly, IB9-3-4, IB9-3-4, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5, IB9-5,	3 PID = moist, gr modor ( 4 PID = .0 ppm moist, da 5-5 PID moist, gr 5-6.5 PID sist, dark 5-8 PID noist, dark 5-8 PID moist, tr moist, tr 10 PID =	0.0 ppm ay and t SM). 0.4 ppm = 0.0 pp = 0.0 pp brown, 1 = 0.0 pp = 0.0 pp	an, fino s m, fino s SILT; c gpm fine SA fine SA m e SILT; m	edium silty le to coarr SILT; orga rganic od 	SAND, t so silly SA anic odor or (ML).	(ML), I	-		r ^^									
AESBOR 1305098.GP3 January 10. 2014	San U E	2" 3"		l Spoc I Spoc		npler (SP npler (D 8		N 🚺	o Recove ing Samp helby Tub	lo	₽	Mcislure Water L Water L	evel ()	me of d	illing	(ATI	)				ed by: oved t		sc

Associated Earth	Sciences, Inc.		Exploration	1 Log	1								
		Project Number TV130509B	Exploration Nun EB-10	ıber				Sheet 1 of 1					
Project Name Location	Freddie's Ca Fife, WA			Ground Datum	i Su	face Ek							
Driller/Equipment Hammer Weight/Drop	ESN / Direct	Push / Geoprobe		Date St Hole Di			_N/A _12/19/13,12/19/13 _2 inches						
				<u> </u>	<b>T</b> *								
				Well Completion			Blow	vs/Foot					
Depth (f) -1 (S Samples Symbol				Mul	Blows/6								
		DESCRIPTION	······································		<b>`</b>	10	20	30 4	0				
- 5	Slightly moist, g peiroleum odor EB10-4-4.5 PID = 12.0 ppm	ray and blue, fine to medium silty SAN (SM). D ≈ 20.0 ppm	D, few fino gravel; slight		F								
- 10	PID = 0.0 ppm EB10-9-10 Pic												
	Boltom of explor Backfiked with be	sicon boring at 10 feet mionite.											
- 15													
Sampler Type (ST)				<u></u>		•		<u>.                                     </u>	<u> </u>				
( <b>m</b> )	Spoon Sampler (SF Spoon Sampler (D		A - Molsture 7. Water Lovel ()					.oggađ by \pproved					
Grab Sample		· • ·	. Water Level at time of c	triling (/		)		-					



Freddies Club (asino

Krazan Hassociates 066-00148 Test Pit Loys 0'- 3' 3'-6' Gray Sandy gravel; no odor TP-1: Gray, clayer silt; no odor, no Bope6' groundwater observed. 7-P-2: Sundy gravel; nu odor 6'-41 4'-8' Brown clayey silt; no odor, groundwater BOPC 8' Seepage observed from 6407' indepth. 0'-8' Gray, Sandy gravel; strong gasoline odor. TP-3: no groundwater observed heavy Bod 8' caving to 6' TP-4: 01-10' Gray. Sandy gravel; strong gasoline Pope 10' oder throughout, no ground water observed due to heavy Caving to 6, Soil from buttom of pit appeared wet 0' - 3'Gray sandy gravel ; strong gas odor TP-S: 3' - 5'Brown, silty Sand; strong gas odor, BORC 5' no groundwater observed. 01-4' Gray/brown, Sandy gravel; moderate TP-6: 4'-5' Brown silfy sond; milogas odor, no Bupes' ground water observed.

P.2

1/3

DLD K/6/00

Oct 06 00 12:39p

2/2 TP-7: O'-4' Gray, silty sand, strong gas odor Boper to 3', becomes slight odor at 4, no ground water observed 0'-3' Gray, sandy silt; strong gas öder to Z', mild oder to 3' TP-9: 3'-35' Gray, Fine to med. Sand; slight gas Odor, Bope 3.5' ground water seeping in from 3' (Sheen) TP-9; Gray silt; med. gas odor 0'-1' Gray clayer silt, Slight gas odor 31-41 Gray, medium Sand, Dogas odor, Bagay' groundwater seeping in from 3' (shean) 01-31 Brown Sundy gravel; no odor TP-10 Gray Sandy gravel; Slight gas-odur 3'-4' Gray, Fine Sandy silt; slight to no 41-121 1 gas odor, after sitting open ~ 1 hour. ISUPP12 slight welling of side wall observed of 10 TP-11: O-3'Brown sandy gravel; no odor Gray Sandy gravel, no odor 41-8' Gray, Fine Sandy Silt, no odor R'-10' Gray, Fine to med Sand; no odor Gray, Finctomed Sand; no odor, Bopelo' groundwater observed at 8.5' (no sheen)

Oct 06 00 12:40p

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TP-12:	0'-3' Brown Sandy gravel, no odor
	S'-4' Gray SANdy gravel; no odor
18 6 5 5 mai 1 49 4 6 6 4 6 may 9 6 6 4 1	41-9' (500 500 500 - 1)
• • • • • • • • • • • • • • • • • • •	41-9' Gray, Fine Sandy Silt, No odor
	91-10' Gray, Fine to med. sand; no odor,
, because appare to the second same appare to the 4-4	Bopelo' no groundwater observed but sand
*	@ 60Hom appeared wet.
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