



ASSOCIATED
ENVIRONMENTAL
GROUP, LLC

Interim Remedial Action Report Acme Bulk Fuel Plant & Cardlock

Conducted on:

Acme Bulk Fuel Facility
303 Thurston Avenue NE
Olympia, Washington 98501
Facility Site ID: 37135969
VCP ID: SW1382
Cleanup Site ID: 11769

Prepared for:

Mr. Christophe Allen
303 Thurston Avenue NE
Olympia, WA 98501-1135

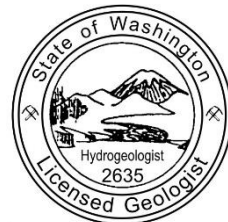
Prepared & Reviewed by:

A handwritten signature in black ink, appearing to be 'R Dilba'.

Rebecca Dilba, R.S.A.
Staff Geologist

A handwritten signature in black ink, appearing to be 'Scott Rose'.

Scott Rose, L.H.G.
Senior Hydrogeologist



SCOTT I ROSE

AEG Project No.: 12-114a
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1.0 INTRODUCTION

Associated Environmental Group, LLC (AEG) has completed an Interim Remedial Action at the former Acme Bulk Fuel Plant, located at 303 Thurston Avenue NE in Olympia, Washington (Site). The Interim Remedial Action consisted of removing five underground storage tanks (USTs), excavating petroleum-contaminated soil (PCS), transporting/disposing of PCS at an approved off-Site facility, treating the groundwater pumped from the excavation, and backfilling the excavation once clearance samples were obtained.

1.1 *Site Description*

The Acme property is listed with the Thurston County Assessor as Parcel Number 78503100300, which is a triangular-shaped parcel and is about 0.60 acres. A general location map, illustrating approximate parcel boundaries, is provided as Figure 1, *Vicinity Map*. A Site diagram is included as Figure 2, *Site Map*.

The Site is currently occupied by a Fast Fuel retail fuel station and is also the location of Acme Fuel Companies bulk fuel terminal for their delivery service. The Fast Fuel retail fueling station serves unleaded, mid-grade, premium gasoline fuel, and diesel fuel. Three aboveground storage tanks (ASTs) are present on Site and are utilized for Acme's delivery services. A 30,000-gallon propane tank is located near the western side of the Site within a fenced-off area used also for general storage. One 30,000-gallon diesel/heating oil AST is located near the northwest corner of the Site along with a loading rack used for transferring fuel from the AST to trucks. The AST and loading rack canopy are fenced off and a concrete berm (about 4 feet high) encircles the AST.

According to the Washington State Department of Ecology (Ecology), six underground storage tanks (USTs) were installed at the Site in 1986. Four have a capacity of 8,000 gallons each (historical contents included leaded and unleaded gasoline and diesel); one is a 500-gallon waste oil UST; and one is 1,000 gallons and is utilized as an oil-water separator for both the AST pump dispenser and UST dispenser. The oil-water separator is connected to sanitary sewer. Two pump island canopies and associated dispensers are located near the northeast area of the Site (approximate location of the 8,000-gallon USTs). Near the southeast corner of the Site is a fenced enclosure utilized for drum and dumpster storage (location of the 500-gallon waste oil UST). A railroad track borders the western boundary of the Site and runs southeast to northwest. In addition to the six USTs described above, a 1,000-gallon UST (reported by Acme as used for gasoline storage) was installed around the early to mid-1970s and closed-in-place around the mid-1980s, around the time the four 8,000-gallon USTs were installed.

The majority of the Site is covered in asphalt. Gravel and soil surrounds the area near the AST and loading dock. Vegetation at the property is minimal, confined to an island at the northeast

corner. The Site and immediate area has been used for commercial and light industrial purposes since the late 1980s. The Site is zoned Urban Waterfront.

1.2 Previous Environmental Activities

1.2.1 Diesel Fuel Spill – 2011

On September 17, 2011, an employee with Kenan Advantage Group, Inc. (KAG) was delivering fuel and started pumping diesel fuel oil into an out-of-service, 70,000-gallon AST, formerly located adjacent to the 30,000-gallon AST at the northwestern area of the Site. Approximately 2,600 gallons of diesel fuel spilled out of the open manhole cover at the bottom of the AST. According to Acme Fuel Company, prior to the incident, the AST was placed out of service due to a small leak at the bottom of the tank. While estimating the cost of repair, the manhole cover had been removed by a contractor and was loosely fitted back on. The majority of the spill percolated into the soil within the secondary containment surrounding the AST.

Immediately following the release, the National Response Corporation (NRC) used vacuum trucks to attempt to recover the free product. The initial emergency response started with recovery of the remaining surface liquid (free product) followed by limited soil excavation around the immediate area of the AST. Following the release, a total of 51 recovery wells and two recovery trenches were installed at the Site (AECOM, 2011). Groundwater was encountered at approximately 5 feet below ground surface (bgs). Free product was predominately observed in the recovery wells located within the secondary containment. Recovery wells where free product was not observed and free product was no longer being recovered were removed. By November 2011, 34 recovery wells had been removed while “*recovery wells that continue to produce diesel for recovery have been retained and continue to be vacuumed*” (AECOM, 2011).

The spill was found to have migrated east through the vadose zone to outside the secondary containment. AECOM reported that as of December 7, 2011, approximately 37,020 gallons of petroleum-impacted water and 1,950 gallons of diesel had been recovered. Further excavation in the area of the spill extending down to the water table resulted in the removal of about 140 tons of soil. On behalf of KAG, AECOM conducted a subsurface investigation at the Site on November 1, 2011 where six borings were advanced via a direct-push probe at locations outside the secondary containment. The following day, five monitoring wells (MW-1 through MW-5) were installed (refer to Figure 2, *Site Map*).

AECOM indicated that soil at monitoring well MW-4 (located adjacent northeast and downgradient of the spill area) was impacted by diesel- and gasoline-range petroleum hydrocarbons (TPH) at 2,600 milligrams per kilogram (mg/Kg) and 580 mg/Kg, respectively. These concentrations are above the Model Toxics Control Act (MTCA) Method A soil cleanup

levels of 2,000 mg/Kg and 30 mg/Kg, respectively. With respect to groundwater, elevated concentrations of diesel-range TPH (1,700 micrograms per liter [$\mu\text{g/L}$]) and benzene (1,600 $\mu\text{g/L}$) were present in MW-4. These concentrations are above their respective MTCA Method A groundwater cleanup levels of 500 $\mu\text{g/L}$ and 5 $\mu\text{g/L}$.

Diesel-range TPH at concentrations above Method A cleanup levels was also reported in monitoring wells MW-3 and MW-5. These wells are located within 60 feet and 40 feet, respectively, to the northeast and north of the former spill area and were placed near the northern property boundary.

1.2.2 Supplemental Site Characterization, AEG – September 2012

Bulk Plant Facility

AEG advanced a total of seven borings (refer to Figure 2, *Site Map*), four within the containment area [B-2, B-4, B-5, and B-7] and three outside of the containment area [B-1, B-3, and B-6]), to assess the following: 1) whether residual TPH contamination exists at the fuel spill area beneath and in vicinity area adjacent to the former 70,000-gallon AST; 2) further characterize areas immediately outside the containment wall area to assess whether the subsurface (soil and groundwater) remains impacted by diesel-range TPH (as formerly reported and confirmed by AECOM); and 3) the potential for migration of TPH and associated volatile organic compounds (VOCs) (from the diesel fuel spill on September 17, 2011) to migrate off property.

Laboratory analytical results for groundwater samples collected from within the containment area, specifically below the former 70,000-gallon AST at boring B-2, indicated the presence of diesel-range TPH (75,000 $\mu\text{g/L}$), carcinogenic polycyclic aromatic hydrocarbons (cPAHs) (3.3 $\mu\text{g/L}$), and benzene (35 $\mu\text{g/L}$). At boring B-4, adjacent south of the former AST, diesel-range TPH (28,000 $\mu\text{g/L}$) and cPAHs (3.0 $\mu\text{g/L}$) were also detected. These concentrations are above their respective MTCA Method A groundwater cleanup levels of 500 $\mu\text{g/L}$ for diesel-range TPH, 0.1 $\mu\text{g/L}$ for total cPAHs, and 5 $\mu\text{g/L}$ for benzene.

Diesel-range TPH was not detected in groundwater collected at borings B-1 and B-3, immediately adjacent north and east, respectively, of the former fuel spill area (outside the containment wall). However, gasoline-range TPH (2,600 $\mu\text{g/L}$ at B-1 and 1,700 $\mu\text{g/L}$ at B-3) and benzene (16 $\mu\text{g/L}$ at B-1) were detected. These concentrations are above their respective MTCA Method A groundwater cleanup levels of 800 $\mu\text{g/L}$ and 5 $\mu\text{g/L}$.

Laboratory analytical results for soil samples collected from boring B-6, located east and downgradient of the former spill area, indicated the presence of diesel-range TPH (4,600 mg/Kg),

gasoline-range TPH (830 mg/Kg), and benzene (0.06 mg/Kg). These detections are above their respective MTCA Method A cleanup levels of 2,000 mg/Kg, 30 mg/Kg, and 0.03 mg/Kg.

Groundwater analytical results for AECOM's monitoring wells showed the presence of diesel-range TPH and/or benzene at MW-3 (northeast), MW-4 (directly adjacent east-northeast), and MW-5 (north of the containment area) above MTCA Method A cleanup levels during AECOM's September 2011 Groundwater Event. In comparison, during AEG's September 2012 Groundwater Event, only benzene was detected at concentrations above the MTCA Method A cleanup level in MW-4 and MW-5.

The direction of groundwater flow for the Site based on AECOM's and AEG's monitoring events is generally to the north with components to the northeast and east.

Fast Fuel Facility

AEG advanced a total of five borings (B-8 through B-12) to assess the subsurface conditions (soil and groundwater media) at the Fast Fuel facility, adjacent to the dispenser islands and USTs, to assess the fuel station's integrity as an operational retail fuel dispensing facility.

Laboratory analytical results indicated no detectable concentrations of all constituents of concern (COCs) (gasoline-, diesel-, and heavy oil-range TPH; and associated VOCs) in all soil and groundwater samples collected in this area of the Site.

Conclusions

The Supplemental Site Characterization for both areas concluded that groundwater beneath the former spill area/former 70,000-gallon AST showed significant impact due to the former fuel spill on September 17, 2011. The concentrations of diesel-range TPH (up to 75,000 µg/L) and cPAHs (up to 6.5 µg/L) were likely associated with the fuel spill because of the type of contaminants detected (associated with the fuel spilled) and the high concentrations reported (i.e., not indicative of weathered/older fuel). A slight to moderate sheen with strong diesel fuel odor was also observed during groundwater sampling activities at borings B-2 and B-4.

Contamination above MTCA Method A cleanup levels remained at the former fuel spill area beneath the former 70,000-gallon AST despite the fuel recovery and remedial action efforts completed by AECOM. AECOM reported that "*diesel collection via the recovery wells, excavation of impacted soil from all accessible impacted areas has also been completed (except directly beneath the AST and associated piping)*" (AECOM, 2011).

The elevated diesel-range TPH concentration detected at boring B-6 (located downgradient and east of the former fuel spill area) may have been associated with the former fuel spill that had occurred on September 17, 2011.

Laboratory analytical results indicated elevated concentrations of gasoline-range TPH in groundwater at borings B-1 and B-3. The potential sources of this contamination were unclear at this point of investigation since gasoline-range TPH was not detected in groundwater in B-6 or B-8 through B-12.

Based on this data, AEG concluded the potential for off-property migration of the COCs (TPH, benzene, and/or cPAHs) existed due to the direction of groundwater flow and elevated TPH and benzene concentrations detected at perimeter monitoring wells MW-3, MW-4, and MW-5 (AECOM's September 2011 Event).

1.2.3 Turbine Pump and Dispenser Sump Soil Sampling, AEG – July 2013

In July 2013, the Acme Fuel Company observed that compression fittings on two of the gasoline turbines at the Fast Fuel facility were leaking and that a compression fitting on one of the dispensers was also leaking. To evaluate the potential impacts that may have had occurred to the exposed soil beneath the leakage, and to determine if other turbines and dispensers had leaked, AEG:

- Sampled the exposed soil beneath all of the dispensers and the backfill material adjacent to all of the UST turbine pumps (refer to Figure 2, *Site Map*) at depths ranging from 6 to 12 inches bgs. The backfill material beneath the dispensers and surrounding the turbine pumps was silty sand with some gravel.
- Analyzed the soil samples for gasoline-range TPH, diesel- and oil-range TPH, and benzene, toluene, ethylbenzene, and xylenes (BTEX).

The sample results indicated that:

- Diesel-range TPH was present **above** the MTCA Method A cleanup levels in three of the samples collected. Two of the samples with results above the cleanup levels were collected beneath the dispensers in what is currently the gasoline fueling area, and one sample was from the backfill soil adjacent to the turbine pump located in the southern portion of the UST nest.
- Gasoline-range TPH and total xylenes were present **above** the MTCA Method A cleanup levels in the backfill soil adjacent to the turbine pump located in the northwestern portion of the UST nest.

- Benzene was present **above** the MTCA Method A cleanup level in the backfill soil adjacent to the turbine pump in the southeastern portion of the UST nest.
- Petroleum hydrocarbons were **not detected above** the MTCA Method A cleanup levels in the samples collected from beneath the dispensers in the diesel fueling area located in the northeastern portion of the Site.

Based on the analytical results, AEG concluded that:

- The soil beneath the dispensers and adjacent to the turbine pumps in the gasoline fueling area of the Fast Fuel facility had been contaminated above the MTCA Method A cleanup levels by the leaks observed from the compression fittings and from historical leakage and de minimis drippage.
- The soil beneath the dispensers in the diesel fueling area had been minimally impacted by de minimis drippage and leakage but not above the MTCA Method A cleanup levels.

1.2.4 Remedial Investigation, AECOM – November 2014

In November 2014, AECOM collected additional soil and groundwater samples from 12 borings (GP-1 through GP-12) advanced throughout the Site as part of a Remedial Investigation (refer to Figure 2, *Site Map*). Based on the analytical results, AECOM concluded they had determined the extent of diesel- and gasoline-range TPH in soil and groundwater.

1.2.5 Off-Property Investigation, AEG – October & December 2015

In October and December 2015, in response to Ecology comments noting data gaps, AEG collected additional soil and groundwater samples from 17 borings (B-13 through B-23 and MW-6 through MW-11) advanced along the Thurston Avenue NE right-of-way (ROW) (refer to Figure 2, *Site Map*). AEG also obtained a groundwater sample from a monitoring well (MMW) identified east of MW-5 along Thurston Avenue NE. AEG was unable to identify the owner of this monitoring well; however, the groundwater collected was analyzed for COCs with no constituents present. Based on the analytical results, AEG determined the extent of diesel- and gasoline-range TPH in soil and in groundwater throughout the Site.

1.3 Site Geology and Hydrogeology

The Site is located within the southern area of the Puget Lowland in western Washington. The Puget Lowland is a north-south trough that lies from the Canadian Border south to the Willapa Hills and between the Olympic Mountains to the west and the Cascade Mountains to the east. The topography is dominated by north-south trending valleys and low, nearly flat-topped terraces that are less than 1,000 feet in elevation. Terraces are deep and eroded by streams and rivers. The

topographic surface of northern Thurston County is largely the result of erosion since the most recent glacial events (Easterbrook, 1970).

According to the *Geologic Map of the Tumwater 7.5-minute Quadrangle, Thurston County, Washington*, the surficial geology at the Site is comprised of fill material. Historical Sanborn Insurance Maps show that several fill events occurred along East Bay of Budd Inlet throughout the late 1800s and early 1900s. Typically, the fill consists of "*clay, silt, sand, gravel, organic matter, shells, rip-rap, and debris emplaced to elevate the land surface and reshape surface morphology; includes engineered and non-engineered fills; shown only where fill placement is relatively extensive, sufficiently thick to be of geotechnical significance, and readily verifiable*" (Walsh, T.J., Logan, R.L., et al., 2003). This fill is underlain by native soils consisting of sands, silts, and clays, and at deeper depths a regional confining layer, which creates artesian groundwater conditions in Olympia (Pioneer, 2011).

The subsurface conditions at the Site generally consist of fill deposits ranging from medium dense, poorly graded sand to silty sand to medium stiff clay to approximately 10 feet bgs. Weathered wood debris/fragments ranging from several inches to at least 2 feet thick were also observed below the clayey soil at depths of approximately 8 to 10 feet bgs. The nature of the soils in the water-bearing zone appears to be the poorly graded sand (medium grained) to silty sand within the fill deposits. Groundwater was encountered at about 5 to 7 feet bgs throughout the Site during subsurface investigation activities. Subsequent groundwater monitoring well measurements show that depth to groundwater ranges from about 2 to 5.5 feet bgs throughout the year.

The direction of shallow groundwater flow at the Site, as measured during AEG's August 2014 and February 2015 groundwater event based on professional surveyed elevations, was generally to the east-northeast and north, respectively. In comparison, AECOM earlier reported that the general direction of groundwater flow was northerly, and "*there are also indications of north-easterly and north-westerly flow*" (AECOM, 2011).

The direction of shallow groundwater flow can be highly variable due to the presence of varying depths to shallow groundwater, and tidal influences in the vicinity. In our professional opinion, the direction of regional groundwater flow in the area will likely fluctuate from generally north to northeast and northwest with tangents to the east, based on surface topography and regional discharge points towards the East Bay (approximately 800 feet east of the Site) and the West Bay of Budd Inlet (approximately 1,300 feet west of the Site).

Because of the facility's location near Puget Sound, AEG continuously logged water levels in monitoring wells MW-1, MW-2, and MW-3 over a two week period in September/October 2015 to determine whether local groundwater gradients are influenced by the diurnal tidal cycle in nearby

Budd Inlet. The data obtained from this study recorded groundwater elevation changes over time, with maximum groundwater elevation peaks recorded on September 26, 2015, October 2, 2015, and October 7, 2015. The maximum amplitude of the signal was less than 0.2 meters (8 inches). Minor fluctuations were superimposed on the major signal.

These logged water level data provide some evidence that groundwater may be influenced by the local tidal cycle, but that the response may be dampened significantly by the Site's location, 800 feet from the nearest shoreline. A more likely explanation is that the changes in groundwater elevations reflect a response to local rainfall patterns influencing shallow groundwater, or other industrial processes nearby. A total of 0.2 inches of rainfall was recorded on September 25, and 0.46 inches was recorded October 7. However, rainfall alone does not explain the peak detected on October 2, 2015, when no rainfall was recorded nearby, supporting some dampened response to tidal influence at the Site. Groundwater elevation changes may also be related to the Site's proximity to the LOTT Wastewater Treatment Facility, immediately across Thurston Avenue NE.

In summary, while there was limited influence of the tidal cycle on groundwater elevations, there was little effect on gradients.

2.0 OBJECTIVES AND SCOPE OF WORK

AEG was retained to perform an Interim Remedial Action at the Site, which included decommissioning five USTs, excavating and disposing of an estimated 6,217.3 tons of PCS, and treating the groundwater pumped from the excavation.

Specific tasks performed included:

- Prepared and submitted a State Environmental Policy Act (SEPA) determination of Non-Significance to the City of Olympia (City).
- Prepared and submitted a Storm Water Pollution Prevention Plan (SWPPP) and Temporary Erosion and Sediment Control (TESC) plan to Ecology, which established policies and procedures to protect the waters of the State from the potential hazards posed by handling of contaminated soils and/or groundwater during Site cleanup work.
- Prepared and submitted a Street Closure Permit to the City with a detail traffic control plan provided for Thurston Avenue and Adams Street and associated sidewalks to ensure safety of local citizens/businesses/and personnel associated with the Site work.
- Used historical analytical data from groundwater sampling to determine and acquire the permits for the final disposition of the treated excavation water to be pumped, treated, and discharged to LOTT Clean Water Alliance (LOTT) sanitary sewer system.
- Submitted formal grading and excavation plans to the City to acquire ROW access and lane closure along Thurston Avenue and Adams Street to store equipment and Baker tanks.
- Arranged both public and private utility locates for the Site and vicinity. The public ROW locates were performed by the Underground Utilities Locate Center; Applied Professional Services, Inc. (APS) provided private utility locates for the Site.
- Provided oversight of subcontractors during PCS removal within the property boundaries to the extent practicable based on the historical soil and groundwater data.
- Continuously logging the subsurface media during the investigation, to observe and document soil lithology, color, moisture content, and sensory evidence of impairment.
- Collected performance and confirmation soil samples for laboratory analyses at various depths, based on the field observations.
- Collected pre-treatment and post-treatment groundwater samples from the groundwater depression pump and treat system.
- Provided soil and groundwater samples to an on-Site mobile laboratory, Libby Analytical (Libby), a Washington State certified mobile analytical laboratory, for analyses.

- Evaluated laboratory analytical results and compared data to MTCA Method A cleanup levels for soil and groundwater.
- Provided oversight of subcontractors during the decommissioning of three 8,000-gallon gasoline USTs, one 8,000-gallon diesel UST, and one 500-gallon waste oil UST; removal of two existing canopies; demolition and removal of the concrete containment area around the 30,000-gallon AST; demolition and disposal of existing bulk fuel load rack; and removal of all existing underground product lines and an oil/water separator.
- Facilitated the transport and disposal of PCS to a Cowlitz County Landfill. An estimated 6,217.3 tons of soil was removed from the subsurface for disposal. No separation of clean overburden was done due to the lack of space to store and maneuver excavated material.
- Added an amendment to the open excavation prior to backfilling (once excavation work was completed to the extent practicable) to accelerate the bioremediation of any potential remaining COCs in the saturated soil and groundwater throughout the Site. The amendment used was a combination of RegenOx[®] In-Situ Chemical Oxidation (RegenOx[®]) and Pelletized Oxygen Release Compound Advanced[®] (ORC-A[®]) by Regensis.
- Prepared this report presenting final documentation of the field activities and methodologies, and summarizing the analytical results, conclusions, and recommendations.

3.0 FIELD ACTIVITIES

3.1 *Surface Demolition, AST Removal, and Fuel Dispenser Decommissioning*

Prior to initiating Site work, AEG provided and/or arranged for the Site security fencing, traffic signs, street closure permits, SWPPP and TESC plans, and the required storm water management best management practices (BMPs) for the Site. On June 29, 2016, Joe Hall Construction (JHC) began to remove the above-grade structures, including the canopies, fuel dispensers, electrical distribution panels, a portion of the aboveground storage tank (AST) containment walls, and the diesel loading rack equipment. The canopies were removed and stored on Site for reuse in the new construction phase of the project. The remaining asphalt surfaces at the Site were removed as part of the Site preparation for the fueling system demolition.

The 30,000-gallon steel AST was removed from the Site on July 1, 2016 after it was rinsed to be recycled for re-use. JHC lifted the AST from the containment area with a crane and loaded it onto a flatbed truck and trailer to be transported to the purchaser location. Following the AST removal, the diesel loading rack was removed, and the remaining concrete pads were demolished. A portion of the concrete containment wall, located along the northwest boundary adjacent to the Union Pacific railroad tracks, was left in place.

3.2 *PCS Excavation*

The PCS excavation, including removal of the USTs and associated piping, was performed over a 10-day period. During the PCS excavation Site work, the Libby mobile laboratory was on Site to analyze performance and confirmation soil samples collected from the excavation as it was expanded vertically and laterally. Excavation continued until confirmation samples demonstrated clean limits (i.e., below MTCA cleanup levels) were achieved. However, the excavation did not extend into the Thurston Avenue ROW due to the presence of utilities, and a requirement by the City to replace the entire sidewalk and asphalt roadway for the whole block. Sample collection locations are illustrated on Figure 3, *Soil Excavation Map*, and in greater detail on Figure 6, *Soil Excavation Map Phase I*, Figure 7, *Soil Excavation Map Phase II*, and Figure 8, *Soil Excavation Map Phase III*. Analytical results of performance and confirmation soil samples are presented in Table 1, *Summary of Excavation Soil Analytical Results*. A total of 6,217.3 tons of PCS were excavated and loaded onto trucks for transport and disposal at Cowlitz County Headquarters Landfill in Castle Rock, Washington.

The excavation started on the west side of the Site, and continued eastward to the USTs. The extent of the excavation is illustrated on Figure 3, *Excavation Site Map*. The total depth of the excavation was dependent on what appeared to be a clay aquitard ranging in depth from about 11 feet bgs on the western end, and tapering to about 6 feet bgs at the eastern limit. Groundwater was

encountered at approximately 4 to 6 feet bgs, depending on the tidal influence. Soil encountered below the fill from about 3 to 8 feet bgs was fine- to coarse-grained sand with shells, gravel, and interbedded clays, followed by a peat or wood debris layer, and then clay with interbedded fines.

To reduce the amount of water being mixed with soil as the smear zone below water was being excavated, a dewatering/treatment system was implemented (see Section 3.4 for details). Once clean confirmation samples were collected in the western portion of the excavation. Backfilling began with quarry spalls to fill the 2- to 3-foot zone of groundwater present in the base of the excavation. Once backfilled with quarry spalls, approximately 1,000 pounds of ORC-A[®] pellets were distributed throughout the western half of the excavation. Excavator buckets were then used to mix the ORC-A[®] pellets into the groundwater and spalls. Above the spalls, 2-inch gravel was used to backfill the western portion of the excavation up to about 5 feet bgs. The remainder of the west half of the excavation was backfilled with imported material to match surface grade. This consisted of 3-inch-minus, angular-engineered, crushed basalt rock from Black Lake Quarry.

Once the USTs were decommissioned and confirmation soil samples collected, a mixture of ORC-A[®] pellets (2,775 pounds) and RegenOx[®] (3,280 pounds of Part A to 680 pounds Part B) was mixed into the eastern half of the excavation. Backfilling of material was consistent with that of the western half.

3.3 UST Decommissioning

Four USTs were removed from the eastern portion of the excavation on July 22, 2016. The USTs were listed in Ecology's database as follows: Tank 1 (8,000-gallon leaded gasoline), Tank 2 (8,000-gallon unleaded gasoline), Tank 3 (8,000-gallon diesel), and Tank 4 (8,000-gallon unleaded gasoline). The USTs were all described to be single-wall, steel tanks with single-wall fiberglass piped supply lines. Both AEG and JHC observed the tank integrity and structural issues (Points of Release) during removal with no observed holes, dents, or corrosion regarding the USTs themselves. Before the UST removal, the main supply lines were taken apart and disposed of while sampling occurred. The turbine on Tank 2 was corroded, and no visible holes, cracks, or punctures were noted in the product lines. The USTs were cleaned inside, certified inert, decommissioned, and disposed of off Site at an appropriate facility.

During UST excavation, performance samples were collected for analysis for gasoline-, diesel-, and oil-range TPH and BTEX. Sampling continued to the south and east, until analyses confirmed non-detection along those sidewalls. Table 1, *Summary of Excavation Soil Analytical Results*, provides a summary of the data for all soil samples collected.

3.4 Groundwater Treatment System

AEG designed a treatment system for the excavation pit water pumped from the excavation. The system included one 18,000-gallon weir-chambered tank, one 20,000-gallon “pre-treatment” tank, duplex bag filters, two 2,000-pound granulated activated carbon (GAC) vessels, and one “post-treatment” 20,000-gallon tank. Figure 9, *Excavation Groundwater Treatment Process Flow Schematic*, illustrates the treatment system.

The excavation groundwater was treated via a two-part filter system. The groundwater pumped from the excavation was first discharged to the 18,000-gallon chambered tank and treated with a Chitosan additive, which is a flocculent used to help the sediment to settle out. Then the water passed through a series of 50-micron media canister filters then through the two GAC vessels. The water then flowed to a 20,000-gallon staging tank for sampling and discharge. The system was set up to bypass the GAC filters if the incoming water was below the permit discharge limits to allow higher flow rates due to the tidal influence on the local groundwater table and the required depth of the excavation.

On July 19, 2016, the treated excavation water was sampled from the second holding tank for COCs, namely gasoline and BTEX. Once analytical results showed the indicator levels were below the discharge permit thresholds, the treated groundwater was then discharged into the sanitary sewer (Outfall 001) via a manhole owned by LOTT located in Adams Street NE. The discharge limitations were provided by LOTT in the “*Discharge Authorization Letter*”, dated May 5, 2016, with a volume restriction of 25,000 gallons per day.

The system was allowed to be operated as a “flow-through” system. This allowed the water to be processed and sampled weekly until the backfill occurred, which aided in dewatering. Following pumping and treating of excavation groundwater, a total of 62,149 gallons of water was discharged to the sewer system during excavation activities, and a total of 418,600 gallons was discharged during the length of the project (which included installation of the replacement USTs).

All “post-treatment” samples were collected from the discharge location at Outfall 001. Samples were analyzed for gasoline- and diesel-range TPH, BTEX, turbidity, and pH prior to discharge. All excavation groundwater sampling results are presented in Table 4, *Summary of Treated Excavation Water Analytical Result*. These samples were used to submit to LOTT in monthly discharge letters for review. Since the last discharge, the LOTT discharge authorization has been discontinued.

4.0 SAMPLING METHODOLOGY

4.1 *Soil Sampling Procedures*

Soil sampling methods for this work followed the protocols established by Ecology and the U.S. Environmental Protection Agency (EPA). To minimize VOC losses, soil sampling and field preservation methods for VOCs followed methods set forth by EPA's Method 5035A and Ecology's guidance, "*Collecting and Preparing Soil Samples for VOC Analysis*". Soils were observed to document soil lithology, color, moisture content, and sensory evidence of contamination. A Photoionization Detector (PID) was used to detect hydrocarbons in the soil.

Soil samples were selected for laboratory analysis based on field observations and PID readings. Soil samples were collected and placed into laboratory-provided, pre-weighed 40-milliliter (ml) volatile organic analysis (VOA) glass vials and pre-weighed 4-ounce glass jars for the analyses of gasoline-, diesel-, and oil-range TPH, and BTEX compounds. The soil samples were either analyzed on Site in a mobile laboratory provided by Libby or taken to Libby's laboratory in Olympia, Washington, for analyses following industry standard chain-of-custody procedures.

4.2 *Groundwater Sampling Procedures*

Groundwater samples collected as part of this remedial action have been from the water within the open excavation, prior to treatment. A sample was initially collected using a bailer to evaluate the concentrations of contaminants for design of the treatment system. Subsequent samples were collected directly from the inlet pipe just above the Baker tank inlet port. These "pre-treatment" samples were used to monitor the total amount of contaminants removed over the life of the system. Secondary samples were collected after the first GAC vessel to ensure it was not saturated. The samples collected after the second GAC vessel were used to submit to LOTT for discharge to stormwater. Table 2, *Summary of Treated Excavation Groundwater Analytical Results*.

Samples were collected in laboratory-provided, pre-weighed 40-ml VOA glass vials and ½-liter amber glass jars for the analyses of gasoline-, diesel-, and oil-range TPH, and BTEX compounds. The groundwater samples were transported to the Libby laboratory in Olympia, Washington, for analyses following industry standard chain-of-custody procedures.

4.3 *Quality Controls*

To ensure that quality information was obtained at the Site:

- All samples were collected in general accordance with industry protocols for the collection, documentation, and handling of environmental samples.

- Nitrile gloves were worn when handling all sampling containers and sampling devices. Clean gloves were used for each sample to prevent cross contamination.
- The sampling equipment was scrubbed with Alconox detergent and rinsed with water prior to each sample extracted.
- Soil samples were tightly packed into laboratory-provided dedicated sampling containers to eliminate sample headspace.
- Groundwater samples were collected using laboratory-provided dedicated sampling containers using zero headspace sampling techniques.
- Upon sampling, all soil and groundwater samples were immediately placed into chilled ice chests, and transported for analysis under a chain-of-custody protocol to the Libby analytical laboratory in Olympia, Washington.

The analytical laboratory provided project quality assurance/quality control (QA/QC), including:

- Surrogate recoveries for each sample.
- Method blank results.
- Trip blank results.
- Laboratory control samples, and Laboratory control sample duplicates.
- Duplicate analyses, matrix or blank spike analyses.
- Duplicate spike analyses.

All analytical laboratory QA/QC results were within required limits. Analytical laboratory results are provided in Appendix B, Supporting Documents, *Laboratory Analytical Results*.

5.0 ANALYTICAL RESULTS

All analytical results of soil and pre-/post-treatment groundwater samples were compared to Ecology's MTCA Method A cleanup levels. Copies of the laboratory analytical results are provided in Appendix B, Supporting Documents, *Laboratory Analytical Results*.

5.1 Soil Results

Table 1, *Summary of Soil Analyticals*, presents the analytical results for all performance and confirmation soil samples as compared to Ecology MTCA Method A soil cleanup levels. All confirmation soil samples collected from the limits of the excavation were below MTCA Method A cleanup levels, with the exception of the north sidewall samples. Contamination had to be left in place as to not jeopardize the structural integrity of Thurston Avenue NE and associated sidewalk. Those samples were all visually contaminated and were collected at various depths throughout the north wall of the excavation. These samples that exceeded MTCA cleanup levels are as follows:

- N2-4-2: diesel-range TPH at 2,420 mg/Kg at about 4 feet bgs.
- N2-6: diesel-range TPH at 2,660 mg/Kg at about 6 feet bgs.
- N5-3: diesel-range TPH at 12,300 mg/Kg at about 3 feet bgs.
- N6-9: gasoline-range TPH and diesel-range TPH at 235 mg/Kg and 2,620 mg/Kg, respectively, at about 9 feet bgs.
- N6-9A (duplicate sample of N6-9): gasoline-range TPH and diesel-range TPH at 92 mg/Kg and 3,620 mg/Kg, respectively, at about 9 feet bgs.
- N7-5.5: gasoline-range TPH and diesel-range TPH at 56 mg/Kg and 3,870 mg/Kg, respectively, at about 5.5 feet bgs.

5.2 Pre- and Post-Treatment Groundwater Results

Table 2, *Summary of Treated Excavation Groundwater Analytical Results*, presents the analytical results of the pre- and post-treatment samples collected from the excavation and treatment system, respectively, as compared to Ecology MTCA Method A groundwater cleanup levels.

Diesel-range TPH was detected in the excavation groundwater above the MTCA Method A cleanup level of 800 µg/L in the initial sampling of the water in the base of the excavation (PRT-1W) at 890,000 µg/L and in PRT-DW1 at 2,130 µg/L. Benzene was detected in a sample at 12.5 µg/L, which is above the MTCA Method A cleanup level of 5 µg/L. However, as the pumping and treating continued during the Site work, concentrations reduced to non-detect, as demonstrated in "pre-treatment" (before carbon treatment) samples PRT-DW2 through PRT-DW10. Discharged

groundwater sampling data indicated the water released to the LOTT Outfall 001 during the PCS and UST removal phases was below the permit requirements for all phases of Site work.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations derived during the excavation assessment activities at the Site are as follows:

6.1 *Conclusions*

Based on the findings from this remedial action, AEG's conclusions are as follows:

- PCS was encountered throughout the excavation. The contamination was consistent with the releases documented at the Site, including the 2011 spill, historical use of the former diesel loading rack and a former gasoline UST, and the UST system associated with the Fast Fuel facility.
- Soil was excavated based on performance sampling vertically and laterally until confirmation samples were obtained as practicable.
- Soil was excavated below the water line to the clay, which presumably acted as an aquitard and prevented further downward migration of contaminants. Throughout the excavation, analytical results of confirmation soil samples collected 6 inches into the dense clay layer proved to be non-detect or below MTCA cleanup levels.
- A total of 6,217.3 tons of PCS was removed and transported off Site for disposal.
- Following pumping and treating of excavation groundwater, a total of 62,149 gallons of water was discharged to the sewer system during excavation activities, and a total of 418,600 gallons was discharged during the length of the project (which included installation of the replacement USTs).

6.2 *Recommendations*

Based on the significant source removal performed at the Site, and the above conclusions, AEG recommends the following:

- Install new groundwater monitoring wells within and downgradient of the excavation, and resume quarterly performance groundwater monitoring of select wells at the Site to monitor the effect the source removal has had groundwater downgradient of the excavation.
- Once a trend of current concentrations of COCs in groundwater has been established, a more thorough evaluation of additional remedial actions (if needed) can be assessed.

7.0 LIMITATIONS

This report summarizes the findings of the services authorized under our agreement with Mr. Christophe Allen. It has been prepared using generally accepted professional practices, related to the nature of the work accomplished. This report was prepared for the exclusive use of Mr. Allen and his designated representatives, for the specific application to the project purpose.

Recommendations, opinions, Site history, and proposed actions contained in this report apply to conditions and information available at the time this report was completed. Since conditions and regulations beyond our control can change at any time after completion of this report, or our proposed work, we are not responsible for any impacts of any changes in conditions, standards, practices, and/or regulations subsequent to our performance of services. We cannot warrant or validate the accuracy of information supplied by others, in whole or part.

8.0 REFERENCES

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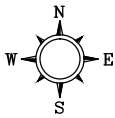
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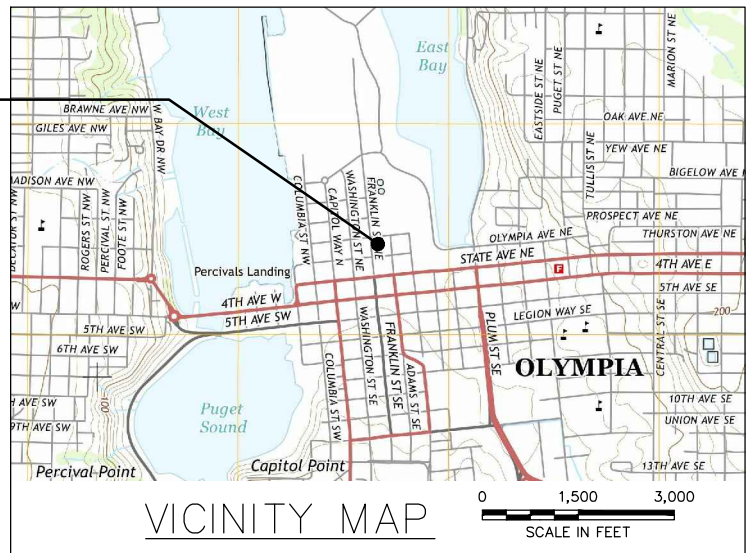
Walsh, T.J., Logan, R.L., et al., 2003. *Geologic Map of the Tumwater 7.5-minute Quadrangle, Thurston County, Washington*, Washington Division of Geology and Earth Resources, Open File Report 2003-25.

FIGURES

FILENAME	DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
12-114A_1504_1.DWG	ICD	12/4/2015	NP	12/4/2015



PROJECT LOCATION

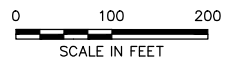


NOTES

1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.
VICINITY IMAGE SOURCE: U.S. GEOLOGICAL SURVEY-2014, 7.5 MINUTE QUADRANGLE MAP TUMWATER, WASHINGTON

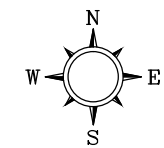


AIEG ASSOCIATED ENVIRONMENTAL GROUP, LLC

FIGURE 1
VICINITY MAP

ACME BULK FUEL PLANT
303 THURSTON AVENUE NE
OLYMPIA, WASHINGTON

PROJECT NUMBER 12-114a
 APPROVED BY NP 12/04/2015
 CHECKED BY NP 12/04/2015
 DRAWN BY ICD 12/04/2015
 FILENAME 12-114A_1504_1.DWG



- LEGEND**
- MW-1 AECOM MONITORING WELL LOCATIONS
 - MW-6 AEG MONITORING WELL LOCATIONS
 - B-1 2012 AEG BORING LOCATIONS
 - B-13 2015 AEG BORING LOCATIONS
 - GP-1 2011 AECOM GEOPROBE LOCATION
 - GP-2-1114 2014 AECOM GEOPROBE LOCATION
 - D-1 2014 AEG DISPENSER SAMPLE LOCATION
 - T-1 2014 AEG TURBINE SAMPLE LOCATION
 - CATCH BASIN
 - ELECTRIC LINE
 - WATER LINE
 - SANITARY SEWER
 - GAS LINE
 - STORM DRAIN
 - FENCE
 - 4' CONCRETE WALL WITH 4' CHAIN LINK FENCE
 - RAILROAD

- NOTES**
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REFERENCE
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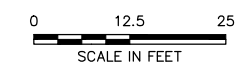
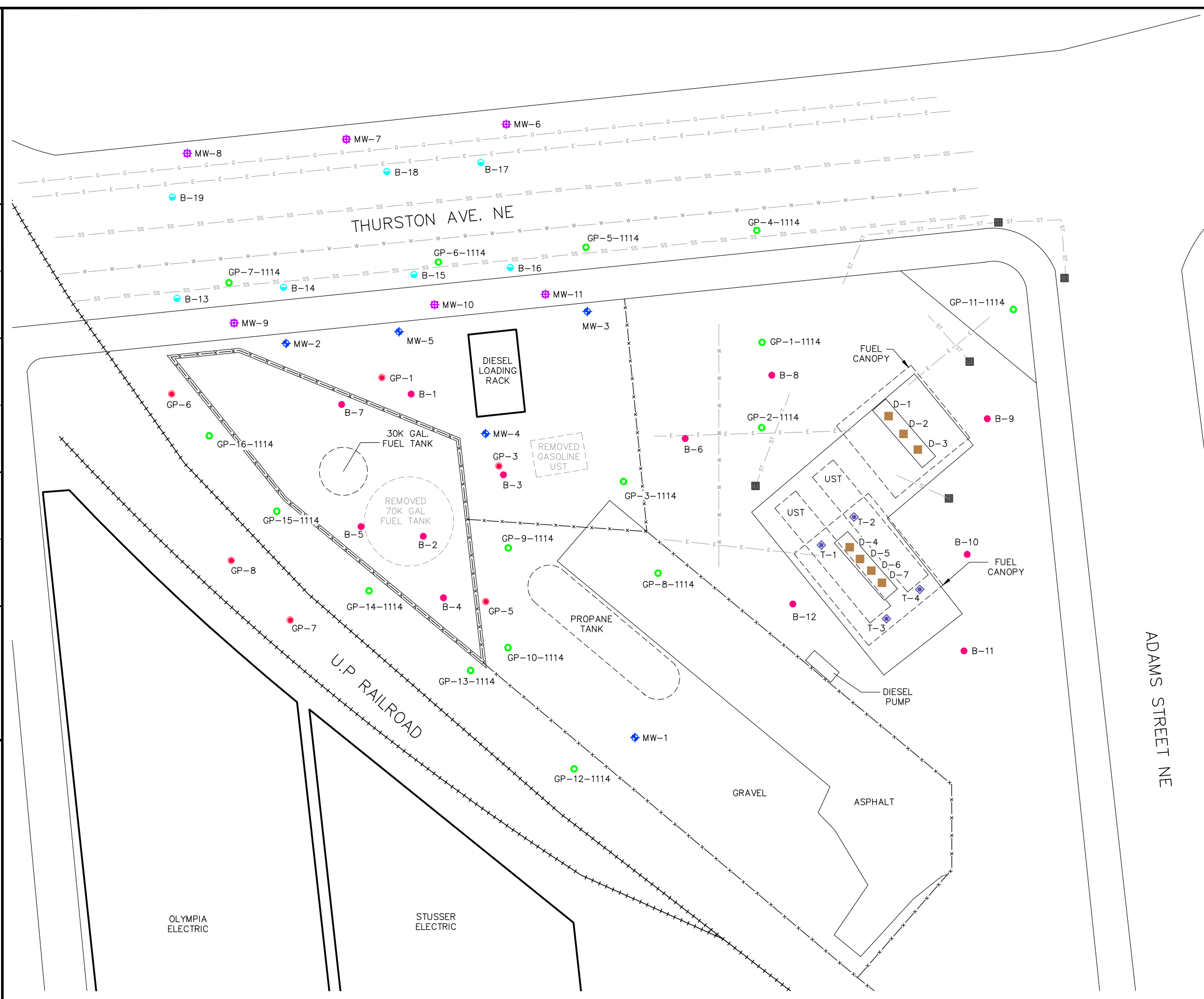


FIGURE 2
SITE MAP

ACME BULK FUEL PLANT
 303 THURSTON AVENUE NE
 OLYMPIA, WASHINGTON



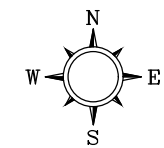
PROJECT NUMBER 12-114a

APPROVED BY NP 10/25/2016

CHECKED BY NP 10/25/2016

DRAWN BY ICD 10/25/2016

FILENAME 12-114A_1504_5.DWG



LEGEND

- MW-1 AECOM MONITORING WELL LOCATIONS
- MW-6 AEG MONITORING WELL LOCATIONS
- W1-4 PERFORMANCE SAMPLES (ABOVE MTCA IN RED)
- T1B CONFIRMATION SAMPLES (ABOVE MTCA IN RED)
- Extent of Excavation

- Removed Concrete Barrier
- Removed Chain Link Fence
- Catch Basin
- Electric Line
- Water Line
- Sanitary Sewer
- Gas Line
- Storm Drain
- Fence
- 4' Concrete Wall with 4' Chain Link Fence
- Railroad

NOTES

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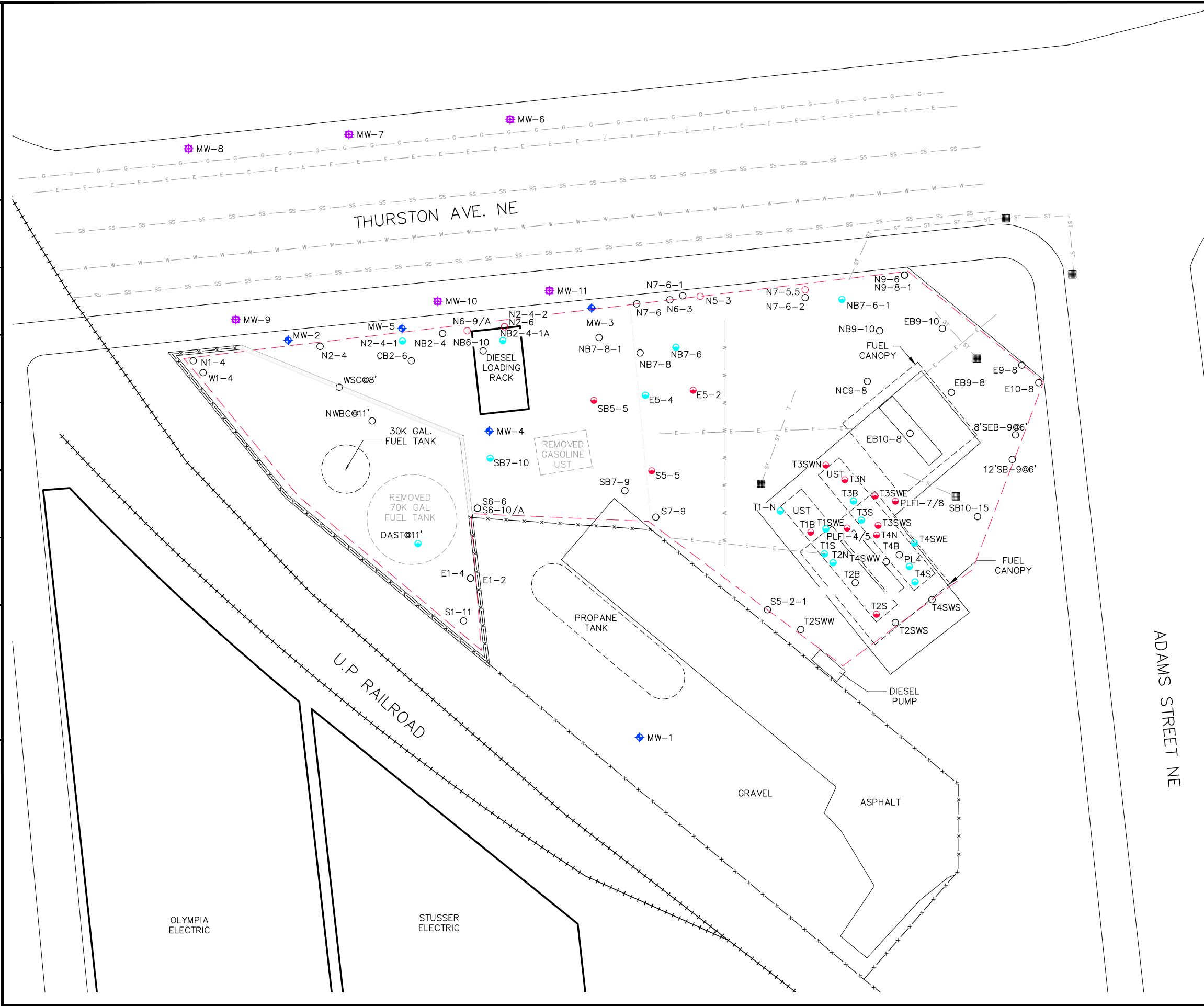
DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.



FIGURE 3

SOIL EXCAVATION MAP

ACME BULK FUEL PLANT
303 THURSTON AVENUE NE
OLYMPIA, WASHINGTON



OLYMPIA ELECTRIC

STUSSER ELECTRIC

GRAVEL

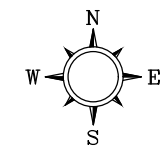
ASPHALT

ADAMS STREET NE

THURSTON AVE. NE

U.P. RAILROAD

FILENAME 12-114A_1504_5.DWG
 DRAWN BY ICD 10/25/2016
 CHECKED BY NP 10/25/2016
 APPROVED BY NP 10/25/2016
 PROJECT NUMBER 12-114a



- LEGEND**
- MW-1 AECOM MONITORING WELL LOCATIONS
 - MW-6 AEG MONITORING WELL LOCATIONS
 - W1-4 PERFORMANCE SAMPLES (ABOVE MTCA IN RED)
 - T1B CONFIRMATION SAMPLES (ABOVE MTCA IN RED)
 - EXTENT OF EXCAVATION
 - DIESEL PLUME IN SOIL
 - REMOVED CONCRETE BARRIER
 - REMOVED CHAIN LINK FENCE
 - CATCH BASIN
 - ELECTRIC LINE
 - WATER LINE
 - SANITARY SEWER
 - GAS LINE
 - STORM DRAIN
 - FENCE
 - 4' CONCRETE WALL WITH 4' CHAIN LINK FENCE
 - RAILROAD

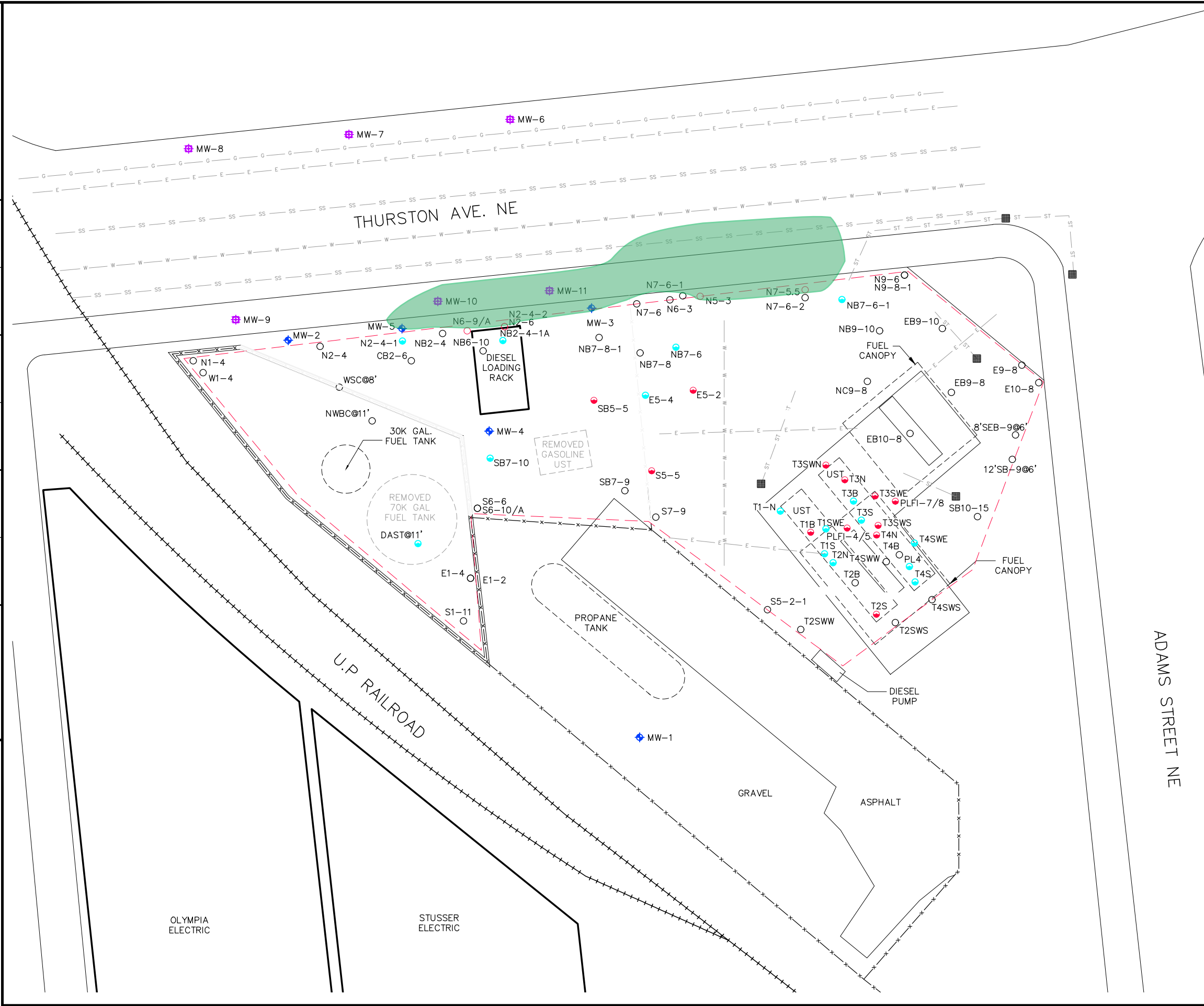
- NOTES**
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REFERENCE
 DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.



FIGURE 4
SOIL PLUME MAP DIESEL

ACME BULK FUEL PLANT
 303 THURSTON AVENUE NE
 OLYMPIA, WASHINGTON



OLYMPIA ELECTRIC
 STUSSER ELECTRIC

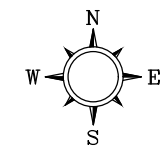
PROJECT NUMBER 12-114a

APPROVED BY NP 10/25/2016

CHECKED BY NP 10/25/2016

DRAWN BY ICD 10/25/2016

FILENAME 12-114a_1504_5.DWG



LEGEND

- MW-1 AECOM MONITORING WELL LOCATIONS
- MW-6 AEG MONITORING WELL LOCATIONS
- W1-4 PERFORMANCE SAMPLES (ABOVE MTCA IN RED)
- T1B CONFIRMATION SAMPLES (ABOVE MTCA IN RED)
- EXTENT OF EXCAVATION
- GASOLINE PLUME
- REMOVED CONCRETE BARRIER
- REMOVED CHAIN LINK FENCE
- CATCH BASIN
- ELECTRIC LINE
- WATER LINE
- SANITARY SEWER
- GAS LINE
- STORM DRAIN
- FENCE
- 4' CONCRETE WALL WITH 4' CHAIN LINK FENCE
- RAILROAD

NOTES

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REFERENCE

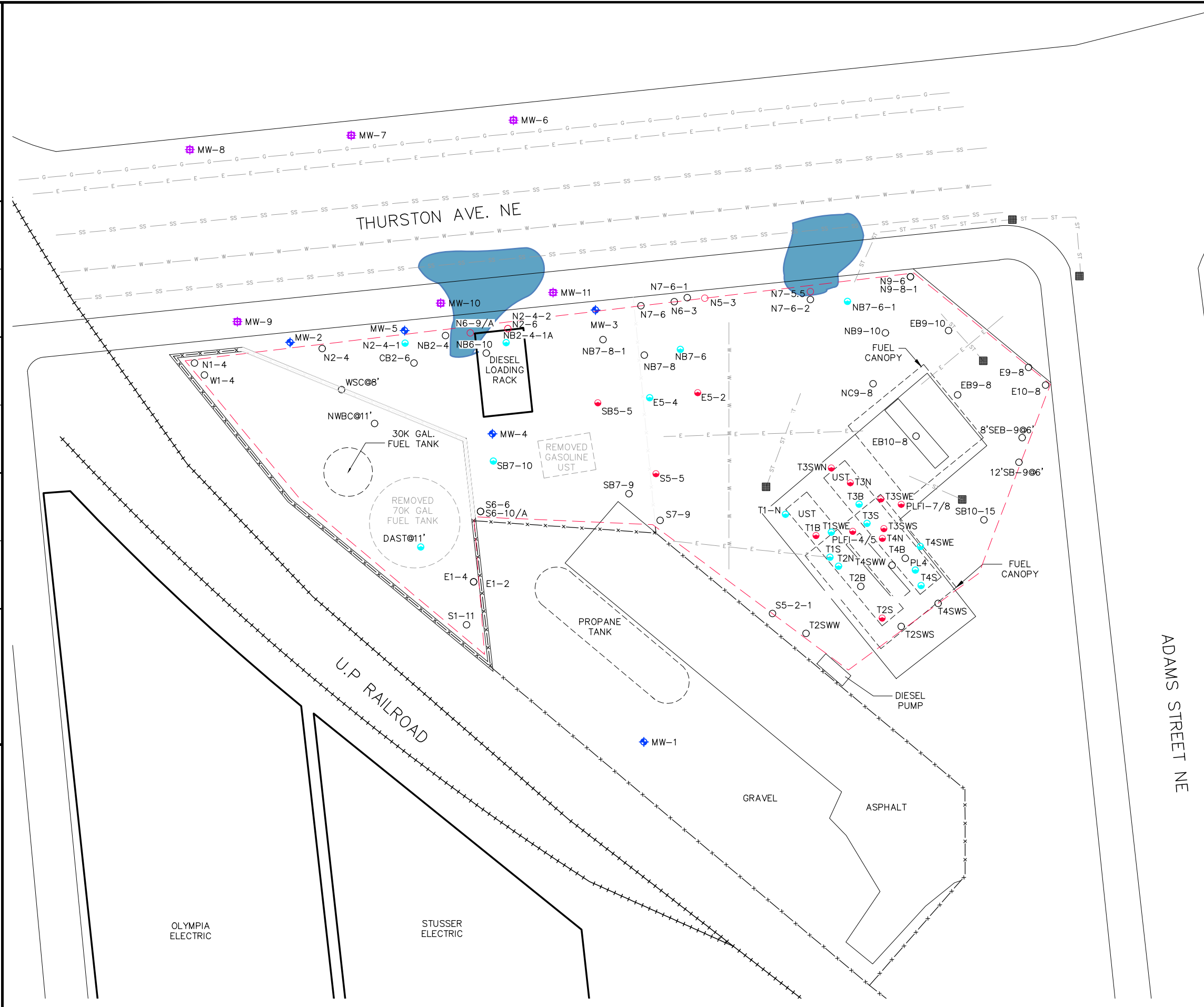
DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.



FIGURE 5

SOIL PLUME MAP GAS

ACME BULK FUEL PLANT
303 THURSTON AVENUE NE
OLYMPIA, WASHINGTON



OLYMPIA ELECTRIC

STUSSER ELECTRIC

GRAVEL

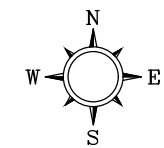
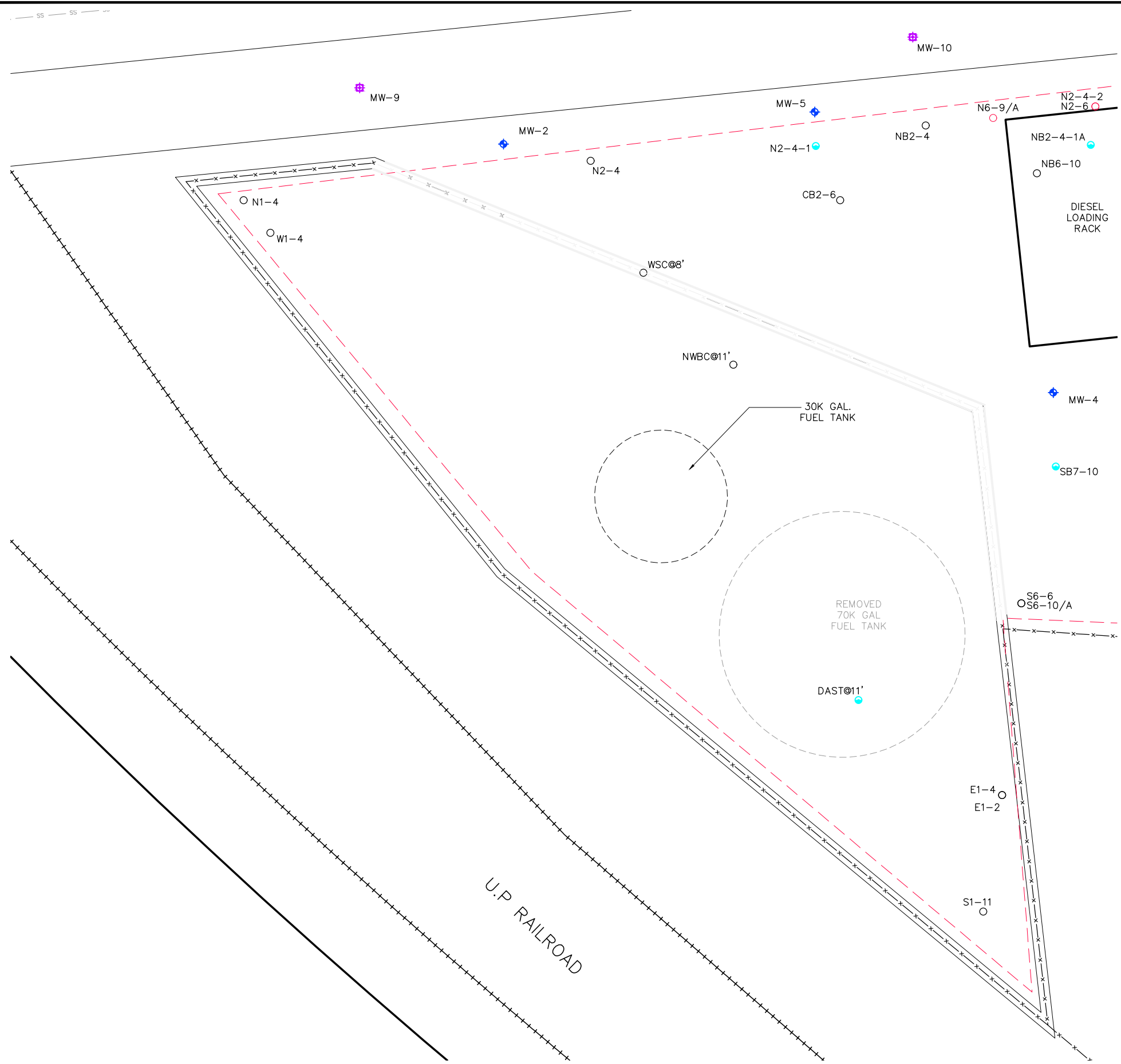
ASPHALT

ADAMS STREET NE

THURSTON AVE. NE

U.P. RAILROAD

FILENAME 12-114A_1504_5.DWG
 DRAWN BY ICD 10/25/2016
 CHECKED BY NP 10/25/2016
 APPROVED BY NP 10/25/2016
 PROJECT NUMBER 12-114a



- LEGEND**
- MW-1 AECOM MONITORING WELL LOCATIONS
 - MW-6 AEG MONITORING WELL LOCATIONS
 - W1-4 PERFORMANCE SAMPLES (ABOVE MTCA IN RED)
 - T1B CONFIRMATION SAMPLES (ABOVE MTCA IN RED)
 - EXTENT OF EXCAVATION
 - REMOVED CONCRETE BARRIER
 - CATCH BASIN
 - ELECTRIC LINE
 - WATER LINE
 - SANITARY SEWER
 - GAS LINE
 - STORM DRAIN
 - FENCE
 - 4' CONCRETE WALL WITH 4' CHAIN LINK FENCE
 - RAILROAD

- NOTES**
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REFERENCE
 DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.



FIGURE 6
SOIL EXCAVATION MAP
PHASE I

ACME BULK FUEL PLANT
 303 THURSTON AVENUE NE
 OLYMPIA, WASHINGTON

PROJECT NUMBER 12-114a

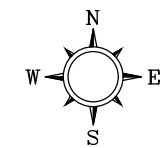
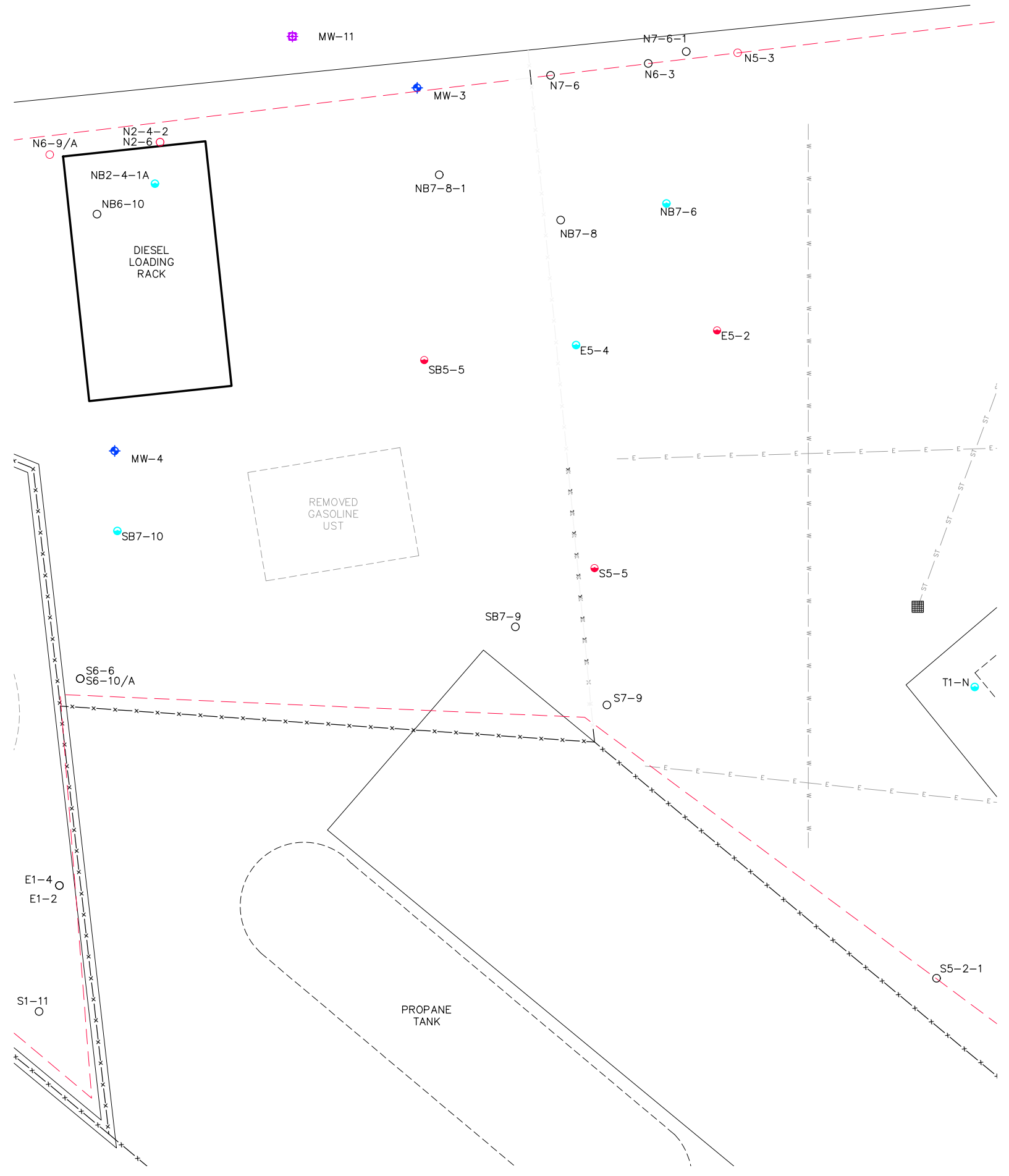
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CHECKED BY NP 10/25/2016

DRAWN BY ICD 10/25/2016

FILENAME 12-114A_1504_5.DWG

12-114A_1504_5.DWG



LEGEND

MW-1	◆	AECOM MONITORING WELL LOCATIONS
MW-6	⊕	AEG MONITORING WELL LOCATIONS
W1-4	●	PERFORMANCE SAMPLES (ABOVE MTCA IN RED)
T1B	○	CONFIRMATION SAMPLES (ABOVE MTCA IN RED)
	---	EXTENT OF EXCAVATION

---	REMOVED CHAIN LINK FENCE
■	CATCH BASIN
—E—	ELECTRIC LINE
—W—	WATER LINE
—SS—	SANITARY SEWER
—G—	GAS LINE
—ST—	STORM DRAIN
—x—x—	FENCE
====x====	4' CONCRETE WALL WITH 4' CHAIN LINK FENCE
+++++	RAILROAD

- NOTES**
1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
 2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.

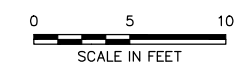
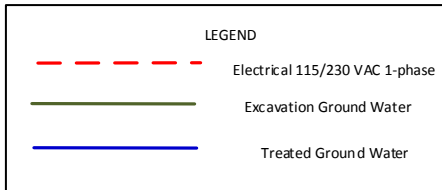
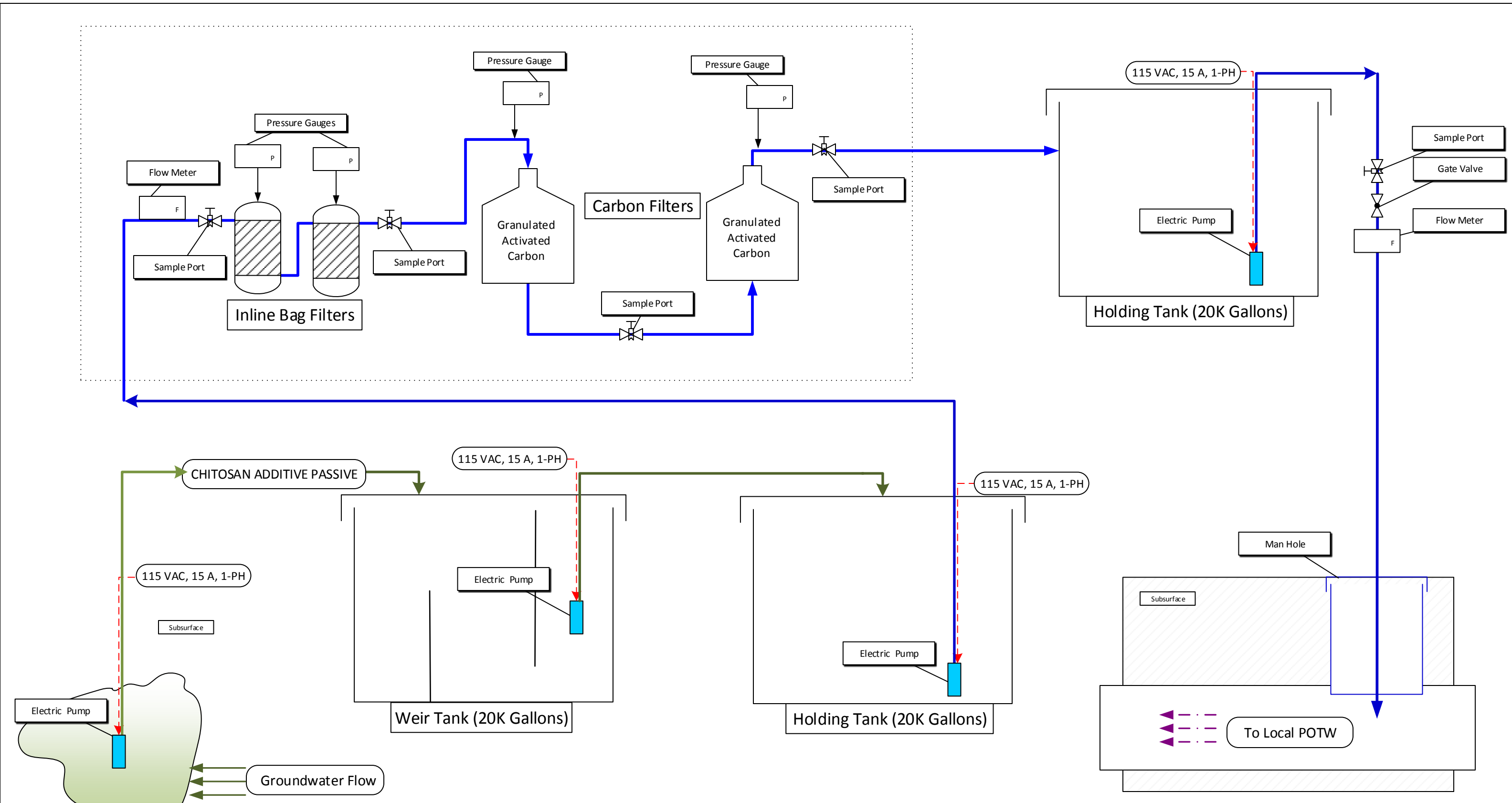



FIGURE 7
SOIL EXCAVATION MAP
PHASE II

ACME BULK FUEL PLANT
303 THURSTON AVENUE NE
OLYMPIA, WASHINGTON





ASSOCIATED ENVIRONMENTAL GROUP, LLC

FIGURE 9

Excavation Groundwater Treatment Process Flow Schematic

Associated Environmental Group, LLC		SIZE	FSCM NO	DWG NO	REV
303 Thurston Avenue NE, Olympia, WA		SCALE	NONE	CSS	1
				SHEET	1 OF 1

Extraction From OPEN Excavation

Groundwater Flow

Weir Tank (20K Gallons)

Holding Tank (20K Gallons)

To Local POTW

Holding Tank (20K Gallons)

Inline Bag Filters

Granulated Activated Carbon

Granulated Activated Carbon

Carbon Filters

Pressure Gauges

Pressure Gauge

Pressure Gauge

Flow Meter

Electric Pump

Electric Pump

Electric Pump

Man Hole

Subsurface

Subsurface

CHITOSAN ADDITIVE PASSIVE

115 VAC, 15 A, 1-PH

115 VAC, 15 A, 1-PH

115 VAC, 15 A, 1-PH

115 VAC, 15 A, 1-PH

Sample Port

Gate Valve

Flow Meter

Sample Port

Sample Port

Sample Port

Sample Port

P

P

P

P

F

F

TABLES

Table 1 - Summary of Excavation Soil Analytical Results
Acme Bulk Fuel Plant
Olympia, Washington

Sample Number	Depth Collected (feet)	Date Collected	Confirmation or Performance Sample	Volatile Organic Compounds				Total Petroleum Hydrocarbons (TPH)		
				Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Diesel	Heavy Oil
N1-4	4.0	7/12/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
W1-4	4.0	7/12/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
E1-2	2.0	7/12/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
E1-4	4.0	7/12/2016	C	<0.02	<0.10	<0.05	<0.15	<10	500	<250
S1-11	11.0	7/12/2016	C	<0.02	<0.10	<0.05	<0.15	<10	113	<250
N2-4	4.0	7/13/2016	C	<0.02	<0.10	<0.05	<0.15	<10	174	<250
N2-4-1	4.0	7/13/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
NB2-4	4.0	7/13/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
N2-4-2	4.0	7/13/2016	P	<0.02	<0.10	<0.05	<0.15	<10	2,420	<250
NB2-4-1A	4.0	7/13/2016	P	<0.02	<0.10	<0.05	<0.15	<10	3,600	<250
NB2-4-1	4.0	7/13/2016	P	<0.02	<0.10	<0.05	<0.15	<10	9,950	<250
CB2-6	6.0	7/13/2016	C	<0.02	<0.10	<0.05	<0.15	<10	122	<250
N2-6	6.0	7/13/2016	C	<0.02	<0.10	<0.05	<0.15	<10	2,660	<250
DAST1@11'	11.0	7/15/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
NWBC@11'	11.0	7/15/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
WSC@8'	8.0	7/15/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
S5-5	5.0	7/18/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
E5-4	4.0	7/18/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
E5-2	2.0	7/18/2016	P	<0.02	<0.10	<0.05	<0.15	51	1,680	<250
N5-3	3.0	7/18/2016	C	<0.02	<0.10	<0.05	<0.15	12	12,300	<250
S5-2-1	2.0	7/18/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T1-N	5.0	7/18/2016	P	<0.02	<0.10	0.12	0.27	405	<50	<250
SB5-5	5.0	7/18/2016	P	<0.02	<0.10	<0.05	<0.15	249	190	<250
N6-3	3.0	7/19/2016	C	<0.02	<0.10	<0.05	<0.15	<10	97	<250
S6-6	8.0	7/19/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
N6-9	9.0	7/19/2016	C	<0.02	<0.10	<0.05	<0.15	235	2,620	<250
N6-9A	9.0	7/19/2016	C	<0.02	<0.10	<0.05	<0.15	92	3,620	<250
S6-10	10.0	7/19/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	270
NB6-10	10.0	7/19/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
S6-10-1	10.0	7/19/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
SB7-10	10.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
N7-6	6.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250

Table 1 - Summary of Excavation Soil Analytical Results
Acme Bulk Fuel Plant
Olympia, Washington

Sample Number	Depth Collected (feet)	Date Collected	Confirmation or Performance Sample	Volatile Organic Compounds				Total Petroleum Hydrocarbons (TPH)		
				Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Diesel	Heavy Oil
N7-6-1	6.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
NB7-6	6.0	7/20/2016	P	<0.02	<0.10	<0.05	<0.15	<10	380	<250
N7-6-2	6.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	131	<250
N7-5.5	5.5	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	56	3,870	<250
NB7-6-1	6.0	7/20/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
NB7-8	8.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
NB7-8-1	8.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
SB7-9	9.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
S7-9	9.0	7/20/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T1S	3.0	7/21/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T2N	3.0	7/21/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T3N	3.0	7/21/2016	P	0.11	6.89	1.68	70.5	1400	<50	<250
T3S	3.0	7/21/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T4N	3.0	7/21/2016	P	3.07	119	6.19	79.1	689	<50	<250
T2S	3.0	7/21/2016	P	<0.02	<0.10	<0.05	<0.15	<10	20,900	<250
T4S	3.0	7/21/2016	P	<0.02	<0.10	<0.05	<0.15	<10	119	<250
PLFI-4/5	4.0	7/22/2016	P	0.19	7.11	0.97	14.5	79	<50	<250
PLFI-7/8	4.0	7/22/2016	P	0.056	0.19	0.19	0.91	46	364	<250
PL4	4.0	7/22/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T2S-A	5.0	7/22/2016	P	0.035	0.51	0.26	3.35	128	74,700	<250
T1SWE*	8.0	7/22/2016	P	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T3SWN*	8.0	7/22/2016	P	0.24	0.75	11.9	18.3	2,200	708	<250
T3SWE*	8.0	7/22/2016	P	0.11	<0.10	11.8	38.9	8,040	<50	<250
T4SWW*	8.0	7/22/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T2SWW*	8.0	7/22/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T3B	12.0	7/22/2016	C	<0.02	0.33	0.11	0.84	13	<50	<250
T3SWS*	8.0	7/22/2016	P	<0.02	0.39	0.35	1.95	358	<50	<250
T1B	12.0	7/22/2016	P	<0.02	0.55	147	890	17,000 E	<50	<250
T2SWS*	8.0	7/22/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
T2B	12.0	7/22/2016	C	<0.02	0.37	0.07	0.70	<10	<50	<250
T4B	12.0	7/22/2016	C	<0.02	0.61	0.57	3.52	29	<50	<250
T4SWE*	8.0	7/22/2016	C	<0.02	0.35	0.062	0.61	<10	<50	<250
T4SWS*	8.0	7/22/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250

Table 1 - Summary of Excavation Soil Analytical Results
Acme Bulk Fuel Plant
Olympia, Washington

Sample Number	Depth Collected (feet)	Date Collected	Confirmation or Performance Sample	Volatile Organic Compounds				Total Petroleum Hydrocarbons (TPH)		
				Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Diesel	Heavy Oil
NC9-8	8.0	7/25/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
E9-8	8.0	7/25/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
EB9-8	8.0	7/25/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
N9-6	6.0	7/25/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
N9-8-1	8.0	7/25/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
EB9-10	9.0	7/25/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
NB9-10	10.0	7/25/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
EB10-8	8.0	7/26/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
E10-8	8.0	7/26/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
SB10-12	12.0	7/26/2016	C	<0.02	<0.10	<0.05	0.30	<10	<50	<250
HOT-FP	2.0	7/26/2016	C	--	--	--	--	--	<50	<250
HOT-SWE2	6.0	7/26/2016	C	--	--	--	--	--	<50	<250
HOT-SWW6	6.0	7/26/2016	C	--	--	--	--	--	<50	<250
T1B-1	10.0	7/26/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
HOT-BE	5.0	7/27/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
HOT-BW	5.0	7/27/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
HOT-BC	5.0	7/27/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
HOT-Stock	Stockpile	7/27/2016	Stockpile	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
8'SE B-9@6'SC	6.0	7/28/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
8'SE B-9@9'SBC	9.0	7/28/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
12'S B-9@6'SC	6.0	7/28/2016	C	<0.02	<0.10	<0.05	<0.15	<10	<50	<250
12'S B-9@9'SBC	9.0	7/28/2016	C	<0.02	<0.10	<0.05	<0.15	<10	258	<250
PQL				0.02	0.10	0.05	0.15	10	50	250
MTCA Method A Cleanup Levels				0.03	7	6	9	30*	2,000	2,000

Notes:

All values are presented in milligram per kilogram (mg/kg)

-- = Not analyzed for constituent

< = Not detected at the listed laboratory detection limits

E = Reported result is an estimate because it exceeds the calibration range

PQL = Practical Quantification Limit (laboratory detection limit)

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels

* Sample collected at approximately 5 to 6 feet along the sidewall of each UST

P = Performance sample, removed

C = Confirmation sample, left in place

Table 2 - Summary of Treated Excavation Groundwater Analytical Results

Acme Bulk Fuel Plant
Olympia, Washington

Sample Number	Date Collected	Volatile Organic Compounds				Total Petroleum Hydrocarbons (TPH)		
		Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline	Diesel	Heavy Oil
PRT-1 W	7/15/2016	<4.0	<20.0	<10.0	<20.0	<500	890,000	<2,000
CS-1	7/18/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
CS-2	7/19/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
CS-3	7/20/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
WS-2	7/21/2016	4.0	<2.0	<1.0	<3.0	280	<200	<400
WS-3	7/21/2016	4.3	<2.0	<1.0	<3.0	210	<200	<400
CS-4	7/21/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
CS-5	7/22/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
WS-4	7/22/2016	12.2	3.1	<1.0	<3.0	580	<200	<400
CS-6	7/25/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
WS-5	7/25/2016	2.5	<2.0	<1.0	3.2	190	<200	<400
CS-7	7/26/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
CS-8	7/27/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW1	8/12/2016	<1.0	<2.0	<1.0	<3.0	<100	2,130	<400
PRT DW2	8/15/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW3	8/16/2016	<1.0	<2.0	<1.0	<3.0	138	<200	<400
PRT-DW4	8/18/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW5	8/19/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW6	8/22/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW7	8/23/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW8	8/24/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW9	8/25/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PRT-DW10	8/26/2016	<1.0	<2.0	<1.0	<3.0	<100	<200	<400
PQL		1.0	2.0	1.0	3.0	100	200	400
LOTT Discharge Limits		70	2,000	2,000	2,000	50,000	50,000	50,000

Notes:

All values are presented in micrograms per liter (µg/l)

-- = Not analyzed for constituent

< = Not detected at the listed laboratory detection limits

PQL = Practical Quantification Limit (laboratory detection limit)

LOTT Discharge Limits from Discharge Authorization Letter dated May 5, 2016

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels

* TPH-Gasoline Cleanup Level with the presence of Benzene anywhere at the Site

APPENDIX A

Site Photographs



Photo # 1: Day 1 of excavation, starting in the northwest corner of the Property.

Photo # 2: End of Day 1, area where historical diesel AST excavated.



Photo #3: Day 2 of excavation. Progress made along the western edge of the Property. Approximate depth 3'.



Photo #4:

Excavation Day 5, showing the well head in the southwestern portion of the Property.

Photo #5:

Stockpile of soil along the eastern side of the Property showing the vent lines from the former USTs.



Photo #6:

Excavation Day 6 of the center part of the Property. Approximate depth is around 5'.

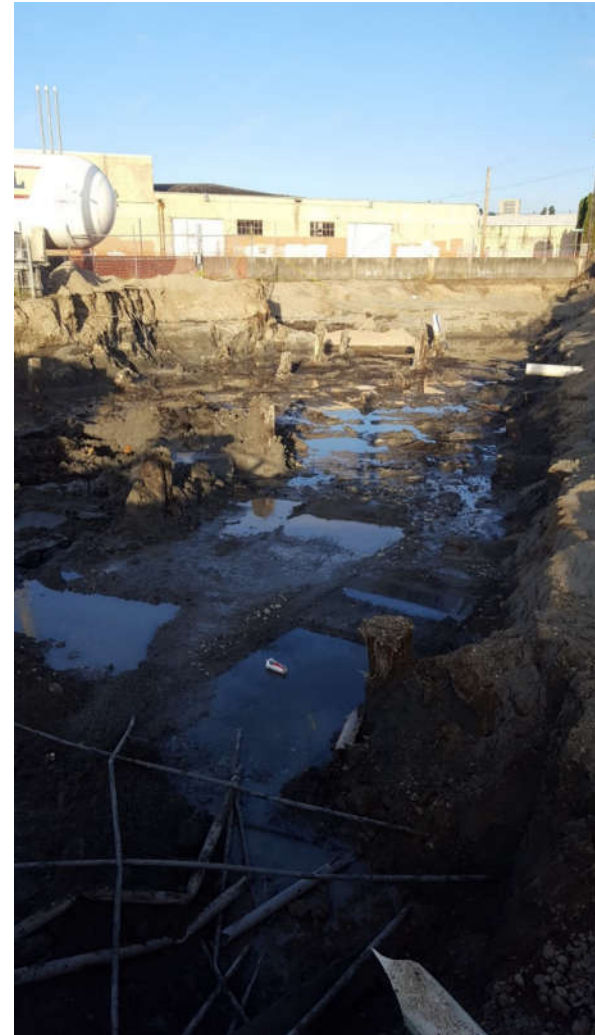


Photo #7:

End of Day 6 excavation, showing groundwater level around 6'.



Photo #8:

Beginning of excavation Day 7. Sandy layer had fingers of contamination and had to excavate to approximately 9-10' bgs.



Photo #9: Soil that remained in place from the northern side wall. String hydrocarbon odor with sheen.



Photo #10: Beginning of backfill day 8 on the west side. Photo shows water sitting on top of clay layer.



Photo # 11: Bottom of excavation pit Day 8. Total depth between 8-9 feet bgs. Extra one foot of soil was removed to expose clay layer.



Photo #12: ORC-A spread around the clean backfill on the westside.



Photo #13:

Exposing the turbines and top of UST systems.



Photo # 14: Hand digging around fill ports/turbines as to not break the piping from the UST.



Photo # 15: Mixing of the ORC-A.



Photo # 16: Snell Crane Service brought in to remove the four, 8,000 gallon USTs.



Photo # 17: Removal of TANK-1. No visible holes, pits, or damage observed.



Photo # 18: Removal of TANK-4. No visible holes, pits, or damage observed.



Photo # 19: Removal of TANK-3. No visible holes, pits, or damage observed.



Photo # 20: Removal of TANK-2. No visible holes, pits, or damage observed.





Photo # 22: Excavated tank pit.

APPENDIX B

Supporting Documents
Laboratory Datasheets
Soil Disposal Documentation



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 18, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160712-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/12/16	nd	nd	nd	nd	nd	101
LCS	7/12/16	79%	83%				99
N1-4	7/12/16	nd	nd	nd	nd	nd	100
W1-4	7/12/16	nd	nd	nd	nd	nd	92
W1-4 Dup	7/12/16	nd	nd	nd	nd	nd	88
E1-2	7/12/16	nd	nd	nd	nd	nd	84
E1-4	7/12/16	nd	nd	nd	nd	nd	85
S1-11	7/12/16	nd	nd	nd	nd	nd	99
W1-4 MS	7/12/16	91%	92%				88
W1-4 MSD	7/12/16	97%	94%				86
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160712-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/12/16	103	nd	nd
N1-4	7/12/16	100	nd	nd
N1-4 Dup	7/12/16	68	nd	nd
W1-4	7/12/16	100	nd	nd
E1-2	7/12/16	111	nd	nd
E1-4	7/12/16	119	500	nd
S1-11	7/12/16	96	113	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Dustin Newman

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 7/12/16 Page: 1 of 1

Client: AEG

Project Manager: O. Swift

Address: 6005 11th Ave SE

Project Name: ACME Bulk Fuel

City: Olympia State: WA Zip:

Location: 303 Thurston Ave City, State: Olympia, WA

Phone: Fax:

Collector: B. Dilber Date of Collection: 7/12/16

Client Project # 12-114A

Email: bdilber@acme.com



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes					
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082		MTCA 5 Metals	RCRA 8 Metals			
1 NI-4	4	0822	soil	water	X	X		X												
2 WI-4	4	0820	soil	}	X	X		X												
3 EI-2	2	1030	soil		X	X		X												
4 EI-4	4	1032	soil		X	X		X												
5 OI-11	11	1330	soil		X	X		X												
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				

Relinquished by:	Date / Time	Received by:	Date / Time
		<i>[Signature]</i>	7/12/16
Relinquished by:	Date / Time	Received by:	Date / Time
Relinquished by:	Date / Time	Received by:	Date / Time

Sample Receipt	
Good Condition?	Y N
Temp.	°C
Seals Intact?	Y N N/A
Total Number of Containers	

Remarks:
ML

TAT: 24HR 48HR 5-DAY



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 18, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160713-10
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/13/16	nd	nd	nd	nd	nd	99
LCS	7/13/16	123%	128%				82
N2-4	7/13/16	nd	nd	nd	nd	nd	97
N2-4 Dup	7/13/16	nd	nd	nd	nd	nd	88
N2-4-1	7/13/16	nd	nd	nd	nd	nd	99
NB2-4	7/13/16	nd	nd	nd	nd	nd	98
N2-4-2	7/13/16	nd	nd	nd	nd	nd	101
NB2-4-1A	7/13/16	nd	nd	nd	nd	nd	99
NB2-4-1	7/13/16	nd	nd	nd	nd	nd	98
CB2-6	7/13/16	nd	nd	nd	nd	nd	100
N2-6	7/13/16	nd	nd	nd	nd	nd	97
N2-4 MS	7/13/16	79%	83%				98
N2-4 MSD	7/13/16	81%	86%				100
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160713-10
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/13/16	80	nd	nd
N2-4	7/13/16	68	174	nd
N2-4-1	7/13/16	111	nd	nd
NB2-4	7/13/16	68	nd	nd
N2-4-2	7/13/16	int	2420	nd
NB2-4-1A	7/13/16	int	3600	nd
NB2-4-1	7/13/16	int	9950	nd
CB2-6	7/13/16	75	122	nd
N2-6	7/13/16	int	2660	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Dustin Newman

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154

Date: 7-13-16 Page: 1 of 1

Client: AEC

Project Manager: C Swift

Address: 605 11th Ave SE

Project Name: Acme Bulk Fuel

City: Oly State: WA Zip: _____

Location: 303 Thurston Ave City, State: Oly, WA

Phone: 360-352-9835 Fax: _____

Collector: B Dilba Date of Collection: 7-13-16

Client Project # _____

Email: bdilba@regwa.com

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes						
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx/Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals		RCRA 8 Metals					
1 N2-4	4	0828	Soil	VDA/DA	X	X		X													
2 N2-4-1	4	0839	}	}	X	X		X													
3 NB2-4	4	1006			X	X		X													
4 N2-4-2	4	1206			X	X		X													
5 NB2-4-1A	4	1212			X	X		X													
6 NB2-4-1	4	1216			X	X		X													
7 CB2-4	6	1331			X	X		X													
8 N2-6	6	1337			X	X		X													
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					

Relinquished by: <u>[Signature]</u>	Date / Time: <u>7/13/16 1612</u>	Received by: <u>[Signature]</u>	Date / Time: <u>7-13-16</u>	Sample Receipt Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers: _____	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____		
Relinquished by: _____	Date / Time: _____	Received by: _____	Date / Time: _____		



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 18, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160715-6
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/17/16	nd	nd	nd	nd	nd	88
LCS	7/17/16	107%	88%				72
DAST1 @ 11'	7/17/16	nd	nd	nd	nd	nd	66
DAST1 @ 11' Dup	7/17/16	nd	nd	nd	nd	nd	69
NWBC @ 11'	7/17/16	nd	nd	nd	nd	nd	82
WSC @ 8'	7/17/16	nd	nd	nd	nd	nd	88
WSC @ 8' MS	7/17/16	120%	91%				68
WSC @ 8' MSD	7/17/16	121%	107%				87
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160715-6
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/16/16	94	nd	nd
DAST1 @ 11'	7/16/16	92	nd	nd
NWBC @ 11'	7/16/16	91	nd	nd
WSC @ 8'	7/16/16	93	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160715-6
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Gasoline (µg/l)	Surrogate Recovery (%)
Method Blank	7/17/16	nd	nd	nd	nd	nd	88
LCS	7/17/16	107%	88%				72
PRT-1 W	7/17/16	nd	nd	nd	nd	nd	66
PRT-1 W Dup	7/17/16	nd	nd	nd	nd	nd	71
PRT-1 W MS	7/17/16	97%	85%				75
PRT-1 W MSD	7/17/16	110%	97%				79
Practical Quantitation Limit		4.0	20.0	10.0	20.0	500	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160715-6
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/16/16	101	nd	nd
PRT-1 W	7/16/16	int	890000	nd
PRT-1 W Dup	7/16/16	int	780000	nd
Practical Quantitation Limit			1000	2000

"nd" Indicates not detected at the listed detection limits.
"int" Indicates that interference prevents determination.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 7.15.16 Page: 1 of 1

Client: AEG

Project Manager: BECKY / CHARLIE

Address: 603 11th AVE SE

Project Name: ACME

City: OLYMPIA State: WA Zip: 98546

Location: 303 THURSTON City, State: WA

Phone: 362-9835 Fax:

Collector: SHAWN Date of Collection: 7.15.16

Client Project # 12-114a

Email: SLOMBAROFNE@AEGWA.COM



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes								
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-DX	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals		RCRA 8 Metals							
1	DAST 1 @ 11'	11'	1320	SPL	2 LIME WA 1 JAR	X	X			X													
2	NWBC @ 11'	11'	1400	↓	↓	↓	↓			↓													
3	WBC @ 8'	8'	1430																				
4	PRT-1 W	-	1440	H ₂ O	1 AMB/300ml	↓	↓			↓													
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							

Relinquished by: [Signature] Date / Time: 7.15.16 1540
 Received by: [Signature] Date / Time: 7.15.16 15:41

Relinquished by: [Signature] Date / Time: 7.15.16 1540
 Received by: [Signature] Date / Time: 7.15.16 15:41

Relinquished by: [Signature] Date / Time: 7.15.16 1540
 Received by: [Signature] Date / Time: 7.15.16 15:41

Sample Receipt		Remarks:
Good Condition?	Y N	
Temp.	<u>12</u> °C	
Seals Intact?	Y N N/A	
Total Number of Containers	<u>13</u>	TAT: <u>24HR</u> 48HR 5-DAY



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 22, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160718-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/18/16	nd	nd	nd	nd	nd	95
LCS	7/18/16	100%	104%				96
S5-5	7/18/16	nd	nd	nd	nd	nd	95
E5-4	7/18/16	nd	nd	nd	nd	nd	95
E5-2	7/18/16	nd	nd	nd	nd	46	98
E5-2 Dup	7/18/16	nd	nd	nd	nd	51	94
N5-3	7/18/16	nd	nd	nd	nd	12	97
S5-2-1	7/18/16	nd	nd	nd	nd	nd	99
T1-N	7/18/16	nd	nd	0.12	0.27	405	97
SB5-5	7/18/16	nd	nd	nd	nd	249	98
SB5-5 Dup	7/18/16	nd	nd	nd	nd	225	93
E5-2 MS	7/18/16	91%	86%				91
E5-2 MSD	7/18/16	85%	84%				97
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

ACME BULK FUEL PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L160718-40

Client Project # 12-114A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/18/16	72	nd	nd
S5-5	7/18/16	97	nd	nd
E5-4	7/18/16	90	nd	nd
E5-4 Dup	7/18/16	85	nd	nd
E5-2	7/18/16	int	1680	nd
N5-3	7/18/16	int	12300	nd
S5-2-1	7/18/16	92	nd	nd
T1-N	7/18/16	83	nd	nd
SB5-5	7/18/16	118	190	nd

Practical Quantitation Limit

50

250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Dustin Newman

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160718-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/18/16	nd	nd	nd	nd	nd	95
LCS	7/18/16	100%	104%				96
CS-1	7/18/16	nd	nd	nd	nd	nd	97
CS-1 Dup	7/18/16	nd	nd	nd	nd	nd	95
CS-1 MS	7/18/16	81%	75%				93
CS-1 MSD	7/18/16	91%	81%				92
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160718-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/18/16	79	nd	nd
CS-1	7/18/16	115	nd	nd
CS-1 Dup	7/18/16	95	nd	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Dustin Newman

4139 Libby Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154

Date: 7-18-16 Page: 1 of 1

Client: AEG LLC

Project Manager: C Swift

Address:

Project Name: ACME BULK Fuel

City: State: Zip:

Location: Olympia City, State: WA

Phone: 360-352-9835 Fax:

Collector: B Dilts Date of Collection: 7-18-16

Client Project # 12-1149

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes			
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals				
1 SS-5	1030	5	see	vacua	X	X			X										
2 ES-4	1034	4																	
3 ES-2	1120	2																	
4 NS-3	1250	3																	
5 SS-2-1	1336	2																	
6 TI-N	1332	5																	
7 CS-1	1420		H2O	vacua	X				X										
8 SS-5	1442	5	see	vacua	X	X			X										
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			

Relinquished by: <u>[Signature]</u>	Date / Time: <u>7/18/16 1532</u>	Received by: <u>[Signature]</u>	Date / Time: <u>7-18-16 1532</u>	Sample Receipt			Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	Y	N	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Temp.	°C		
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	Y	N	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers			TAT: 24HR 48HR 5-DAY



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 20, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160719-1
Client Project # 12-714A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analysis of pH by Standard Method 4500-H+

Sample Number	Date Analyzed	pH
WS-1	7/19/16	10.4

ANALYSES PERFORMED BY: Maria Friedrich

Libby Environmental, Inc.

ACME FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160719-1
Client Project # 12-714A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analysis of Turbidity by EPA Method 180.1 in Water

Sample Number	Date Analyzed	Turbidity NTU
Method Blank	7/19/16	nd
WS-1	7/19/16	70.7
WS-1 Dup	7/19/16	76.2
Practical Quantitation Limit		0.5

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Maria Friedrich

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154

Date: 7-19-16 Page: 1 of 1

Client: AEGL, LLC

Project Manager: Charlie Swift

Address:

Project Name: Acme Fuel

City: State: Zip:

Location: City, State: Olympia, wa

Phone: Fax:

Collector: B. Dilka Date of Collection: 7-19-16

Client Project # 12-714a

Email:



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HC/D	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	pH	Turbidity	Field Notes
1		0951	H ₂ O	Poly												X	X	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: <u>[Signature]</u>	Date / Time: <u>0954 7/19/16</u>	Received by: <u>[Signature]</u>	Date / Time: <u>7/19/16 954</u>	Sample Receipt Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers: <u>1</u>	Remarks: <u>RUSH</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 22, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160719-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/19/16	nd	nd	nd	nd	nd	91
LCS	7/19/16	92%	86%				93
N6-3	7/19/16	nd	nd	nd	nd	nd	95
N6-3 Dup	7/19/16	nd	nd	nd	nd	nd	95
S6-6	7/19/16	nd	nd	nd	nd	nd	92
N6-9	7/19/16	nd	nd	nd	nd	235	106
N6-9A	7/19/16	nd	nd	nd	nd	92	103
S6-10	7/19/16	nd	nd	nd	nd	nd	97
NB6-10	7/19/16	nd	nd	nd	nd	nd	92
S6-10-1	7/19/16	nd	nd	nd	nd	nd	92
N6-3 MS	7/19/16	88%	69%				81
N6-3 MSD	7/19/16	90%	85%				92
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160719-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/19/16	82	nd	nd
N6-3	7/19/16	85	97	nd
S6-6	7/19/16	81	nd	nd
N6-9	7/19/16	int	2620	nd
N6-9A	7/19/16	int	3620	nd
S6-10	7/19/16	105	nd	270
NB6-10	7/19/16	75	nd	nd
S6-10-1	7/19/16	85	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Dustin Newman

Libby Environmental, Inc.

ACME FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160719-40
Client Project # 12-114A

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Olympia, WA 98506
Phone: (360) 352-2110
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Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/19/16	nd	nd	nd	nd	nd	91
LCS	7/19/16	92%	86%				93
CS-2	7/19/16	nd	nd	nd	nd	nd	88
CS-2 Dup	7/19/16	nd	nd	nd	nd	nd	97
CS-2 MS	7/19/16	94%	91%				94
CS-2 MSD	7/19/16	103%	84%				74
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/19/16	82	nd	nd
CS-2	7/19/16	85	nd	nd
CS-2 Dup	7/19/16	65	nd	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Dustin Newman



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 22, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160720-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/20/16	nd	nd	nd	nd	nd	96
LCS	7/20/16	87%	81%				95
SB7-10	7/20/16	nd	nd	nd	nd	nd	93
N7-6-1	7/20/16	nd	nd	nd	nd	nd	78
N7-6	7/20/16	nd	nd	nd	nd	nd	94
N7-6 Dup	7/20/16	nd	nd	nd	nd	nd	72
NB7-6	7/20/16	nd	nd	nd	nd	nd	83
N7-6-2	7/20/16	nd	nd	nd	nd	nd	80
N7-5.5	7/20/16	nd	nd	nd	nd	56	101
NB7-6-1	7/20/16	nd	nd	nd	nd	nd	94
NB7-8	7/20/16	nd	nd	nd	nd	nd	75
NB7-8-1	7/20/16	nd	nd	nd	nd	nd	90
SB7-9	7/20/16	nd	nd	nd	nd	nd	96
S7-9	7/20/16	nd	nd	nd	nd	nd	97
S7-9 Dup	7/20/16	nd	nd	nd	nd	nd	77
S7-9 MS	7/20/16	87%	69%				78
S7-9 MSD	7/20/16	87%	71%				80
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160720-40
Client Project # 12-114A

4139 Libby Road NE
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Phone: (360) 352-2110
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Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/20/16	120%	nd	nd
SB7-10	7/20/16	116%	nd	nd
N7-6-1	7/20/16	95%	nd	nd
N7-6	7/20/16	65%	nd	nd
NB7-6	7/20/16	112%	380	nd
N7-6-2	7/20/16	120%	131	nd
N7-5.5	7/20/16	int	3780	nd
N7-5.5 Dup	7/20/16	int	3870	nd
NB7-6-1	7/20/16	101%	nd	nd
NB7-8	7/20/16	96%	nd	nd
NB7-8 Dup	7/20/16	93%	nd	nd
NB7-8-1	7/20/16	97%	nd	nd
SB7-9	7/20/16	101%	nd	nd
S7-9	7/20/16	66%	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Brook Claybrooke

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160720-40
Client Project # 12-114A

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Phone: (360) 352-2110
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Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/20/16	nd	nd	nd	nd	nd	96
LCS	7/20/16	87%	81%				95
CS-3	7/20/16	nd	nd	nd	nd	nd	76
CS-3 MS	7/20/16	83%	70%				74
CS-3 MSD	7/20/16	107%	98%				89
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

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AEG, LLC
Olympia, Washington
Libby Project # L160720-40
Client Project # 12-114A

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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/20/16	80%	nd	nd
CS-3	7/20/16	66%	nd	nd
CS-3 Dup	7/20/16	69%	nd	nd
Practical Quantitation Limit			200	400

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Brook Claybrooke

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 7/20/16 Page: 1 of 1

Client: ARPA

Project Manager: Cl Swift

Address:

Project Name: ARME Bulk Fuel

City: Olympia State: WA Zip: 98501

Location: City, State: Olympia, WA

Phone: 360-352-9825 Fax:

Collector: B. Palen Date of Collection: 7/20/16

Client Project # H2 12-1149

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes			
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx Dx	c PAH 8270	PAH 8270	Semi-Vol 8270	PCB 8082	MTCA 5 Metals		RCRA 8 Metals		
1 SB7-10	10	0810	soil	Vial 102	X	X		X										
2 N7-6-1	6	0721																
3 N7-6	6	0715																
4 NB7-6	6	0724																
5 CS3-	-	0911	(120)															
6 N7-6-2	6	0934	soil															
7 N7-5.5	5.5	0936																
8 NB7-6-1	6	1009																
9 NB7-B	8	1131																
10 NB7-8-1	8	1132																
11 SB7-9	9	1241																
12 SA-9	9	1248																
13																		
14																		
15																		
16																		
17																		

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time	Received by:	Date / Time		
Relinquished by:	Date / Time	Received by:	Date / Time		



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 26, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

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The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

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Senior Chemist
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Olympia, Washington
Libby Project # L160721-40
Client Project # 12-114A

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Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/21/16	nd	nd	nd	nd	nd	90
LCS	7/21/16	98%	87%				91
T1S	7/21/16	nd	nd	nd	nd	nd	84
T1S Dup	7/21/16	nd	nd	nd	nd	nd	66
T2N	7/21/16	nd	nd	nd	nd	nd	67
T3N	7/21/16	0.11	6.89	1.68	70.5	1400	95
T3S	7/21/16	nd	nd	nd	nd	nd	96
T4N	7/21/16	3.07	119	6.19	79.1	689	94
T2S	7/21/16	nd	nd	nd	nd	nd	94
T4S	7/21/16	nd	nd	nd	nd	nd	94
T1S MS	7/21/16	90%	97%				94
T1S MSD	7/21/16	95%	92%				96
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

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"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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Libby Project # L160721-40
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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/21/16	104%	nd	nd
Method Blank	7/25/16	133%	nd	nd
T1S	7/21/16	117%	nd	nd
T2N	7/21/16	124%	nd	nd
T3N	7/21/16	int	nd	nd
T3N Dup	7/21/16	int	nd	nd
T3S	7/21/16	134%	nd	nd
T4N	7/21/16	123%	nd	nd
T2S	7/25/16	int	20900	nd
T4S	7/21/16	134%	119	nd
Practical Quantitation Limit			50	250

"E" Indicate reported result is an estimate because it exceeds the calibration range.

"nd" Indicates not detected at the listed detection limits.

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

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Client Project # 12-114A

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Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/21/16	nd	nd	nd	nd	nd	90
LCS	7/21/16	98%	87%				91
WS-2	7/21/16	3.6	nd	nd	nd	240	90
WS-2 Dup	7/21/16	4.0	nd	nd	nd	280	68
WS-3	7/21/16	4.3	nd	nd	nd	210	65
CS-4	7/21/16	nd	nd	nd	nd	nd	66
WS-2 MS	7/21/16	85%	74%				87
WS-2 MSD	7/21/16	91%	79%				89
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/21/16	104%	nd	nd
WS-2	7/21/16	106%	nd	nd
WS-2 Dup	7/21/16	114%	nd	nd
WS-3	7/21/16	116%	nd	nd
CS-4	7/21/16	116%	nd	nd
Practical Quantitation Limit			200	400

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 26, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

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Sincerely,

Sherry L. Chilcutt
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Libby Environmental, Inc.

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AEG, LLC
Olympia, Washington
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Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/21/16	nd	nd	nd	nd	nd	90
LCS	7/21/16	98%	87%				91
T1S	7/21/16	nd	nd	nd	nd	nd	84
T1S Dup	7/21/16	nd	nd	nd	nd	nd	66
T2N	7/21/16	nd	nd	nd	nd	nd	67
T3N	7/21/16	0.11	6.89	1.68	70.5	1400	95
T3S	7/21/16	nd	nd	nd	nd	nd	96
T4N	7/21/16	3.07	119	6.19	79.1	689	94
T2S	7/21/16	nd	nd	nd	nd	nd	94
T4S	7/21/16	nd	nd	nd	nd	nd	94
T1S MS	7/21/16	90%	97%				94
T1S MSD	7/21/16	95%	92%				96
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/21/16	104%	nd	nd
T1S	7/21/16	117%	nd	nd
T2N	7/21/16	124%	nd	nd
T3N	7/21/16	int	nd	nd
T3N Dup	7/21/16	int	nd	nd
T3S	7/21/16	134%	nd	nd
T4N	7/21/16	123%	nd	nd
T2S	7/21/16	int	6610 E	nd
T4S	7/21/16	134%	119	nd
Practical Quantitation Limit			50	250

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/21/16	nd	nd	nd	nd	nd	90
LCS	7/21/16	98%	87%				91
WS-2	7/21/16	3.6	nd	nd	nd	240	90
WS-2 Dup	7/21/16	4.0	nd	nd	nd	280	68
WS-3	7/21/16	4.3	nd	nd	nd	210	65
CS-4	7/21/16	nd	nd	nd	nd	nd	66
WS-2 MS	7/21/16	85%	74%				87
WS-2 MSD	7/21/16	91%	79%				89
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160721-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/21/16	104%	nd	nd
WS-2	7/21/16	106%	nd	nd
WS-2 Dup	7/21/16	114%	nd	nd
WS-3	7/21/16	116%	nd	nd
CS-4	7/21/16	116%	nd	nd
Practical Quantitation Limit			200	400

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Olympia, WA 98506
 Ph: 360-352-2110 Fax: 360-352-4154

Date: 7-21-16 Page: 1 of 1

Client: AEG

Project Manager: C Swift

Address:

Project Name: ACME Bulk Fuel

City: State: Zip:

Location: City, State: Olympia, WA

Phone: 360-352-9835 Fax:

Collector: B Dilba Date of Collection: 7-21-16

Client Project #

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes			
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals				
1 <u>WS-2</u>	<u>-</u>	<u>0945</u>	<u>H2O</u>	<u>402 Jar</u>	<u>X</u>	<u>X</u>			<u>X</u>										
2 <u>WS-3</u>	<u>-</u>	<u>1330</u>	<u>H2O</u>	<u>1 JMS 2 VOA</u>	<u>X</u>	<u>X</u>			<u>X</u>										
3 <u>CS-4</u>	<u>-</u>	<u>1410</u>	<u>H2O</u>	<u>1 AMSER 2 VOA</u>	<u>X</u>	<u>X</u>			<u>X</u>										
4 <u>T1S</u>	<u>3</u>	<u>1421</u>	<u>soil</u>	<u>1 jar</u>	<u>X</u>	<u>X</u>													
5 <u>T2N</u>	<u>3</u>	<u>1435</u>	<u>soil</u>																
6 <u>T3N</u>	<u>3</u>	<u>1420</u>	<u>soil</u>																
7 <u>T3S</u>	<u>3</u>	<u>1447</u>																	
8 <u>T4N</u>	<u>3</u>	<u>1450</u>																	
9 <u>T2S</u>	<u>3</u>	<u>1558</u>																	
10 <u>T4S</u>	<u>3</u>	<u>1600</u>																	
11																			
12																			
13																			
14																			
15																			
16																			
17																			

Relinquished by: <u>[Signature]</u>	Date / Time: <u>7/21/16 1608</u>	Received by: <u>[Signature]</u>	Date / Time: <u>7-21-16</u>	Sample Receipt Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers	Remarks: <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 28, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160722-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/22/16	nd	nd	nd	nd	nd	91
Method Blank	7/26/16	nd	nd	nd	nd	nd	98
LCS	7/22/16	86%	82%				93
LCS	7/26/16	84%	94%				119
PLFI-4/5	7/22/16	0.19	7.11	0.97	14.5	79	96
PLFI-7/8	7/22/16	0.056	0.19	0.19	0.91	46	97
PL4	7/22/16	nd	nd	nd	nd	nd	86
PL4 Dup	7/22/16	nd	nd	nd	nd	nd	94
T2S-A	7/22/16	0.035	0.51	0.26	3.35	128	103
T1SWE	7/22/16	nd	nd	nd	nd	nd	93
T3SWN	7/22/16	0.24	0.75	11.9	18.3	2200	83
T3SWE	7/22/16	0.11	nd	11.8	38.9	8040	96
T4SWW	7/22/16	nd	nd	nd	nd	nd	99
T2SWW	7/22/16	nd	nd	nd	nd	nd	93
T3B	7/26/16	nd	0.33	0.11	0.84	13	97
T3SWS	7/26/16	nd	0.39	0.35	1.95	358	85
T1B	7/26/16	nd	0.55	147	890	17000 E	89
T2SWS	7/22/16	nd	nd	nd	nd	nd	100
T2B	7/26/16	nd	0.37	0.070	0.70	nd	98
T4B	7/26/16	nd	0.61	0.57	3.52	24	96
T4B Dup	7/26/16	nd	0.45	0.42	2.22	29	96
T4SWE	7/26/16	nd	0.35	0.062	0.61	nd	99
T4SWS	7/22/16	nd	nd	nd	nd	nd	85
PL4 MS	7/22/16	112%	117%				95
PL4 MSD	7/22/16	101%	100%				94
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"E" Reported result is an estimate because it exceeds the calibration range.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160722-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/22/16	101%	nd	nd
Method Blank	7/25/16	133%	nd	nd
Method Blank	7/26/16	100%	nd	nd
PLFI-4/5	7/22/16	89%	nd	nd
PLFI-7/8	7/22/16	int	364	nd
PL4	7/22/16	93%	nd	nd
PL4 Dup	7/22/16	104%	nd	nd
T2S-A	7/22/16	int	74700	nd
T1SWE	7/26/16	80%	nd	nd
T3SWN	7/22/16	int	708	nd
T3SWE	7/22/16	109%	nd	nd
T4SWW	7/22/16	108%	nd	nd
T4SWW Dup	7/22/16	118%	nd	nd
T2SWW	7/22/16	91%	nd	nd
T3B	7/26/16	112%	nd	nd
T3SWS	7/26/16	119%	nd	nd
T1B	7/22/16	128%	nd	nd
T2SWS	7/22/16	115%	nd	nd
T2B	7/25/16	120%	nd	nd
T4B	7/26/16	80%	nd	nd
T4SWE	7/25/16	124%	nd	nd
T4SWS	7/22/16	129%	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160722-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/22/16	nd	nd	nd	nd	nd	91
LCS	7/22/16	86%	82%				93
CS-5	7/22/16	nd	nd	nd	nd	nd	94
WS-4	7/22/16	12.2	2.7	nd	nd	570	75
WS-4 Dup	7/22/16	10.9	3.1	nd	nd	580	93
WS-4 MS	7/22/16	95%	103%				89
WS-4 MSD	7/22/16	91%	79%				
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

"E" Indicates result is an estimate because it exceeds the calibration range.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

ACME BULK FUEL PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L160722-40

Client Project # 12-114A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/22/16	101%	nd	nd
Method Blank	7/25/16	130%	nd	nd
CS-5	7/22/16	117%	nd	nd
CS-5 Dup	7/22/16	114%	nd	nd
WS-4	7/25/16	128%	nd	nd
Practical Quantitation Limit			200	400

"*" Indicates the product is of unknown origin in the light oil range .

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 7/22/16 Page: 1 of 2

Client: AEG, LLC

Project Manager: C Swift

Address:

Project Name: ACME BULK Fuel

City: Olympia State: WA Zip: 98501

Location: City, State: Olympia WA

Phone: 360-352-9835 Fax:

Collector: B Dilba Date of Collection: 7-22-16

Client Project # 12-114a

Email:



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	NWTPH-Dx/Dx	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	Field Notes
1 PIFI-415	4	0700	Soil	Van Lier	X	X		X								
2 PLFI-718	4	0718														
3 PL4	4	0748														
4 T25-A	5	0818														
5 CS-5	-	0845	H2O	amber/wat	X	X		X								
6 WS-4	-	0800	H2O	S	X	X		X								
7 T1SWE	8	0929	Soil	(WA/Soil)												
8 T3SWN	8	1000														
9 T3SWE	8	1014														
10 T4SWW	8	1044														
11 T2SWW	8	1050														
12 T3B	12	1033														
13 T3SWS	8	1034														
14 T1B	12	0947														
15 T2SWS	8	1115														
16 T2B	12	1110														
17 T4B	12	1130														

Relinquished by: [Signature] Date / Time: 7/22/16 1424
 Received by: [Signature] Date / Time: 7-22-16
 Relinquished by: _____ Date / Time: _____
 Received by: _____ Date / Time: _____
 Relinquished by: _____ Date / Time: _____
 Received by: _____ Date / Time: _____

Sample Receipt		Remarks: ML
Good Condition?	Y N	
Temp.	°C	
Seals Intact?	Y N N/A	
Total Number of Containers		TAT: 24HR 48HR 5-DAY

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 7-22-16 Page: 2 of 2

Client: AEG, LLC

Project Manager: C Swift

Address:

Project Name: ACME BULK FUEL

City: Olympia State: WA Zip: 98501

Location: City, State: Olympia, WA

Phone: Fax:

Collector: B Dilba Date of Collection: 7-22-16

Client Project # 12-114g

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes							
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCAs 5 Metals	RCRAs 8 Metals								
1 T4SWE	8	1122	soil	var jar		X		X															
2 T4SWS	8	1134	soil	var jar		X		X															
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							

Relinquished by: <u>[Signature]</u> Date / Time: <u>7/22/16 1424</u>	Received by: <u>[Signature]</u> Date / Time: <u>7-22-16</u>	Sample Receipt Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers:	Remarks: <u>ML</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Received by:		
Relinquished by:	Received by:		
Relinquished by:	Received by:		



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 28, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160725-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/25/16	nd	nd	nd	nd	nd	98
LCS	7/25/16	67%	70%				94
NC9-8	7/25/16	nd	nd	nd	nd	nd	94
NC9-8 Dup	7/25/16	nd	nd	nd	nd	nd	94
E9-8	7/25/16	nd	nd	nd	nd	nd	66
EB9-8	7/25/16	nd	nd	nd	nd	nd	103
N9-6	7/25/16	nd	nd	nd	nd	nd	95
N9-8-1	7/25/16	nd	nd	nd	nd	nd	98
EB9-10	7/25/16	nd	nd	nd	nd	nd	104
NB9-10	7/25/16	nd	nd	nd	nd	nd	96
L160722-40 MS	7/25/16	112%	117%				
L160722-40 MSD	7/25/16	101%	100%				
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160725-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/25/16	133%	nd	nd
NC9-8	7/25/16	127%	nd	nd
NC9-8 Dup	7/25/16	121%	nd	nd
E9-8	7/25/16	131%	nd	nd
EB9-8	7/25/16	130%	nd	nd
N9-6	7/25/16	121%	nd	nd
N9-8-1	7/25/16	131%	nd	nd
EB9-10	7/25/16	126%	nd	nd
NB9-10	7/25/16	134%	nd	nd
NB9-10 Dup	7/25/16	132%	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160725-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/25/16	nd	nd	nd	nd	nd	98
LCS	7/25/16	67%	70%				94
CS-6	7/25/16	nd	nd	nd	nd	nd	72
WS-5	7/25/16	2.5	nd	nd	3.2	180	95
WS-5 Dup	7/25/16	2.0	nd	nd	nd	190	97
WS-5 MS	7/25/16	71%	88%				95
WS-5 MSD	7/25/16	72%	84%				90
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

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"E" Indicates result is an estimate because it exceeds the calibration range.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

ACME BULK FUEL PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L160725-40

Client Project # 12-114A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel ($\mu\text{g/l}$)	Oil ($\mu\text{g/l}$)
Method Blank	7/25/16	130%	nd	nd
CS-6	7/25/16	131%	nd	nd
WS-5	7/25/16	127%	nd	nd
WS-5 Dup	7/25/16	123%	nd	nd
Practical Quantitation Limit			200	400

"*" Indicates the product is of unknown origin in the light oil range .

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 28, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

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Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160726-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/26/16	nd	nd	nd	nd	nd	98
LCS	7/26/16	84%	94%				119
EB10-8	7/26/16	nd	nd	nd	nd	nd	101
E10-8	7/26/16	nd	nd	nd	nd	nd	102
SB10-12	7/26/16	nd	nd	nd	0.30	nd	95
T1B-1	7/26/16	nd	nd	nd	nd	nd	100
T1B-1 Dup	7/26/16	nd	nd	nd	nd	nd	88
T1B-1 MS	7/26/16	83%	91%				92
T1B-1 MSD	7/26/16	92%	71%				
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

ACME BULK FUEL PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L160726-40

Client Project # 12-114A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/26/16	100%	nd	nd
EB10-8	7/26/16	123%	nd	nd
E10-8	7/26/16	87%	nd	nd
E10-8 Dup	7/26/16	83%	nd	nd
SB10-12	7/26/16	120%	nd	nd
HOT-FP	7/26/16	85%	nd	nd
HOT-SWE2	7/26/16	124%	nd	nd
HOT-SWW6	7/26/16	94%	nd	nd
T1B-1	7/26/16	94%	nd	nd
T1B-1 Dup	7/26/16	86%	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160726-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/26/16	nd	nd	nd	nd	nd	98
LCS	7/26/16	84%	94%				119
CS-7	7/26/16	nd	nd	nd	nd	nd	96
CS-7 Dup	7/26/16	nd	nd	nd	nd	nd	97
CS-7 MS	7/26/16	74%	82%				94
CS-7 MSD	7/26/16	83%	90%				95
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

"E" Indicates result is an estimate because it exceeds the calibration range.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

ACME BULK FUEL PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L160726-40

Client Project # 12-114A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/l)	Oil (µg/l)
Method Blank	7/26/16	121%	nd	nd
CS-7	7/26/16	128%	nd	nd
CS-7 Dup	7/26/16	127%	nd	nd
Practical Quantitation Limit			200	400

"*" Indicates the product is of unknown origin in the light oil range .

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154

Date: 7-26-16 Page: 1 of 1

Client: AEG, LLC

Project Manager: C Swift

Address:

Project Name: ACME BULK FUEL

City: Olympia State: WA Zip: 98501

Location: City, State: Olympia, WA

Phone: 360-352-9835 Fax:

Collector: B Dilba Date of Collection: 7-26-16

Client Project # 12-1149

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes									
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals										
1 EB10-8	8	0743	soil	vial / bar		X	X		X																
2 E10-8	8	0705	soil	vial / bar		X	X		X																
3 SB10-12	12	1017	soil	vial / bar		X	X		X																
4 HOT-EP	2	1131							X																
5 HDT-SWE2	6								X																
6 HDT-SWUB	6	1206	soil			X	X		X																
7 T1B-1	10'					X	X		X																
8 C3-7		1420	Hzo	vial / jar		X	X		X																
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers	Remarks: <div style="font-size: 2em; color: green; text-align: center;">ML</div> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time	Received by:	Date / Time		
Relinquished by:	Date / Time	Received by:	Date / Time		
Relinquished by:	Date / Time	Received by:	Date / Time		



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

July 28, 2016

Charlie Swift
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Mr. Swift:

Please find enclosed the analytical data report for the ACME Bulk Fuel Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160727-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Surrogate Recovery (%)
Method Blank	7/27/16	nd	nd	nd	nd	101
LCS	7/27/16	70%	77%			97
HOT-BE	7/27/16	nd	nd	nd	nd	103
HOT-BW	7/27/16	nd	nd	nd	nd	104
HOT-BW Dup	7/27/16	nd	nd	nd	nd	105
HOT-BC	7/27/16	nd	nd	nd	nd	102
HOT-BW MS	7/27/16	74%	78%			87
HOT-BW MSD	7/27/16	71%	85%			101
Practical Quantitation Limit		0.02	0.10	0.05	0.15	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

ACME BULK FUEL PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L160727-40

Client Project # 12-114A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/27/16	89%	nd	nd
HOT-BE	7/27/16	94%	nd	nd
HOT-BW	7/27/16	124%	nd	nd
HOT-BW Dup	7/27/16	91%	nd	nd
HOT-BC	7/27/16	87%	nd	nd
HOT-Stock	7/27/16	91%	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160727-40
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

Sample Number	Date Analyzed	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Gasoline (ug/l)	Surrogate Recovery (%)
Method Blank	7/27/16	nd	nd	nd	nd	nd	101
LCS	7/27/16	70%	77%				97
CS-8	7/27/16	nd	nd	nd	nd	nd	104
CS-8 Dup	7/27/16	nd	nd	nd	nd	nd	98
CS-8 MS	7/27/16	79%	93%				101
CS-8 MSD	7/27/16	71%	81%				97
Practical Quantitation Limit		1.0	2.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

ACME BULK FUEL PROJECT

AEG, LLC

Olympia, Washington

Libby Project # L160727-40

Client Project # 12-114A

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/l)	Oil (µg/l)
Method Blank	7/27/16	126%	nd	nd
CS-8	7/27/16	132%	nd	nd
CS-8 Dup	7/27/16	135%	nd	nd
Practical Quantitation Limit			200	400

"*" Indicates the product is of unknown origin in the light oil range .

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154

Date: 7-27-16 Page: 1 of 1

Client: AEG, LLC

Project Manager: C Swift

Address:

Project Name: ACME BULK FUEL

City: Olympia State: WA Zip: 98501

Location: City, State: Olympia WA

Phone: 360-352-9835 Fax:

Collector: B Dilby Date of Collection: 7-27-16

Client Project # 12-114a

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes								
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx <u>act</u>	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals		RCRA 8 Metals							
1	<u>05-8</u>	<u>0819</u>	<u>Hzo</u>	<u>up lawn</u>																			
2	<u>5</u>	<u>0833</u>	<u>soil</u>	<u>ice / can</u>			X	X															
3	<u>5</u>	<u>0841</u>	<u>soil</u>				X	X															
4	<u>5</u>	<u>0825</u>	<u>soil</u>				X	X															
5	<u>-</u>	<u>0857</u>	<u>soil</u>						X														<u>ic BTEX in 2,3,4 run for 60s</u>
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers	Remarks: <div style="font-size: 2em; color: green; text-align: center;">ML</div>
Relinquished by:	Date / Time	Received by:	Date / Time		
Relinquished by:	Date / Time	Received by:	Date / Time		



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

August 2, 2016

Becky Dilba
Associated Environmental Group, LLC
605 11th Avenue SE, Suite 201
Olympia, WA 98501

Dear Ms. Dilba:

Please find enclosed the analytical data report for the ACME Project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160728-3
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	7/28/16	nd	nd	nd	nd	nd	98
LCS	7/28/16	82%	79%				73
8'SE B-9 @ 6'SC	7/28/16	nd	nd	nd	nd	nd	83
8'SE B-9 @ 9'SBC	7/28/16	nd	nd	nd	nd	nd	77
12'S B-9 @ 6'SC	7/28/16	nd	nd	nd	nd	nd	84
12'S B-9 @ 6'SC Dup	7/28/16	nd	nd	nd	nd	nd	87
12'S B-9 @ 9'SBC	7/28/16	nd	nd	nd	nd	nd	98
12'S B-9 @ 6'SC MS	7/28/16	83%	88%				77
12'S B-9 @ 6'SC MSD	7/29/16	75%	77%				83

Practical Quantitation Limit 0.02 0.10 0.05 0.15 10

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

ACME BULK FUEL PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L160728-3
Client Project # 12-114A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/28/16	101%	nd	nd
8'SE B-9 @ 6'SC	7/28/16	106%	nd	nd
8'SE B-9 @ 9'SBC	7/28/16	104%	nd	nd
12'S B-9 @ 6'SC	7/28/16	104%	nd	nd
12'S B-9 @ 6'SC Dup	7/28/16	106%	nd	nd
12'S B-9 @ 9'SBC	7/28/16	int	258	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Maria Friedrich

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE
Olympia, WA 98506
Ph: 360-352-2110
Fax: 360-352-4154

Date: 7.28.16 Page: 1 of 1

Client: AEL

Project Manager: BECKY DELBA

Address: 605 11th AVE SE.

Project Name: NCME

City: OLYMPIA State: WA Zip: 98501

Location: 303 THURSTON City, State: OLYMPIA

Phone: 360-352-9835 Fax:

Collector: SHAWN Date of Collection: 7/28/16

Client Project # 12114A

Email: SLOMBARDENC@AELWA.COM



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes								
					VOC 8260	NWTPH-Gx	BTEX 8021	NWTPH-HCID	NWTPH-Dx	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals		RCRA 8 Metals							
1	8'SE B-906'SC	6'	1100	SPL	2WAS 1JAL	X	X			X													
2	8'SE B-909'SBC	9'	1110																				
3	12'S.B-906'SC	6'	1120																				
4	12'S.B-909'SBC	9'	1130																				
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							

Relinquished by: [Signature] Date / Time: 7.28.16 1220
 Received by: [Signature] Date / Time: 7.28.16 1220

Relinquished by: _____ Date / Time: _____
 Received by: _____ Date / Time: _____

Relinquished by: _____ Date / Time: _____
 Received by: _____ Date / Time: _____

Sample Receipt

Good Condition? Y N
 Temp. °C
 Seals Intact? Y N N/A
 Total Number of Containers

Remarks:

TAT: 24HR 48HR 5-DAY

#Name?

Transaction Listing - Date by Day

FROM: Friday, July 01, 2016 TO: Tuesday, September 27, 2016
For Selected Accounts and All Sites

<i>Date Out by Date</i>					-----Type Codes-----												
Trans. #	Site	Account	Truck #	Trailer #	Date Out	Time Out	Net Weight	Tran Pay	Veh	Org	Mat	Dest	Tip Fee	Special \$	Tax \$	Total Fee	
Tuesday, Jul 12 2016																	
461437	LF	8017	8017	0	07-12-2016	10:51:00 AM	29.21	1	1	13	26	58	32	642.62	0	0	642.62
461438	LF	8017	8017	0	07-12-2016	10:53:00 AM	28.57	1	1	13	26	58	32	628.54	0	0	628.54
461446	LF	8017	8017	0	07-12-2016	2:20:00 PM	33.14	1	1	13	26	58	32	729.08	0	0	729.08
461447	LF	8017	8017	0	07-12-2016	2:21:00 PM	34.22	1	1	13	26	58	32	752.84	0	0	752.84
# of Transactions		4			Total Tons:		125.14	Total \$:		\$2,753.08			\$0.00	\$0.00	\$2,753.08		
Wednesday, Jul 13 2016																	
461462	LF	8017	8017	0	07-13-2016	11:52:00 AM	35.03	1	1	13	26	58	32	770.66	0	0	770.66
461463	LF	8017	8017	0	07-13-2016	11:57:00 AM	36.01	1	1	13	26	58	32	792.22	0	0	792.22
461464	LF	8017	8017	0	07-13-2016	12:00:00 PM	34.34	1	1	13	26	58	32	755.48	0	0	755.48
461472	LF	8017	8017	0	07-13-2016	2:14:00 PM	33.87	1	1	13	26	58	32	745.14	0	0	745.14
461474	LF	8017	8017	0	07-13-2016	2:17:00 PM	31.14	1	1	13	26	58	32	685.08	0	0	685.08
461476	LF	8017	8017	0	07-13-2016	2:19:00 PM	29.21	1	1	13	26	58	32	642.62	0	0	642.62
# of Transactions		6			Total Tons:		199.60	Total \$:		\$4,391.20			\$0.00	\$0.00	\$4,391.20		
Thursday, Jul 14 2016																	
461502	LF	8017	8017	0	07-14-2016	10:12:00 AM	32.76	1	1	13	26	58	32	720.72	0	0	720.72
461503	LF	8017	8017	0	07-14-2016	10:13:00 AM	32.49	1	1	13	26	58	32	714.78	0	0	714.78
461504	LF	8017	8017	0	07-14-2016	10:16:00 AM	36.84	1	1	13	26	58	32	810.48	0	0	810.48
# of Transactions		3			Total Tons:		102.09	Total \$:		\$2,245.98			\$0.00	\$0.00	\$2,245.98		
Friday, Jul 15 2016																	
461512	LF	8017	8017	0	07-15-2016	10:54:00 AM	36.42	1	1	13	26	58	32	801.24	0	0	801.24
461513	LF	8017	8017	0	07-15-2016	10:55:00 AM	33.61	1	1	13	26	58	32	739.42	0	0	739.42
461514	LF	8017	8017	0	07-15-2016	10:56:00 AM	33.21	1	1	13	26	58	32	730.62	0	0	730.62
461535	LF	8017	8017	0	07-15-2016	2:11:00 PM	31.42	1	1	13	26	58	32	691.24	0	0	691.24
461537	LF	8017	8017	0	07-15-2016	2:16:00 PM	33.73	1	1	13	26	58	32	742.06	0	0	742.06

Date Out by Date

-----**Type Codes**-----

Trans. #	Site	Account	Truck #	Trailer #	Date Out	Time Out	Net Weight	Tran	Pay	Veh	Org	Mat	Dest	Tip Fee	Special \$	Tax \$	Total Fee
461538	LF	8017	8017	0	07-15-2016	2:17:00 PM	34.26	1	1	13	26	58	32	753.72	0	0	753.72
461542	LF	8017	8017	0	07-15-2016	2:20:00 PM	31.82	1	1	13	26	58	32	700.04	0	0	700.04
# of Transactions		7			Total Tons:		234.47			Total \$:		\$5,158.34	\$0.00	\$0.00	\$5,158.34		
Monday, Jul 18 2016																	
461551	LF	8017	8017	0	07-18-2016	7:59:00 AM	31.43	1	1	13	26	58	32	691.46	0	0	691.46
461555	LF	8017	8017	0	07-18-2016	9:17:00 AM	34.06	1	1	13	26	58	32	749.32	0	0	749.32
461556	LF	8017	8017	0	07-18-2016	9:59:00 AM	26.56	1	1	13	26	58	32	584.32	0	0	584.32
461557	LF	8017	8017	0	07-18-2016	10:20:00 AM	34.01	1	1	13	26	58	32	748.22	0	0	748.22
461562	LF	8017	8017	0	07-18-2016	10:56:00 AM	31.16	1	1	13	26	58	32	685.52	0	0	685.52
461563	LF	8017	8017	0	07-18-2016	11:15:00 AM	27.40	1	1	13	26	58	32	602.8	0	0	602.8
461569	LF	8017	8017	0	07-18-2016	11:27:00 AM	28.41	1	1	13	26	58	32	625.02	0	0	625.02
461570	LF	8017	8017	0	07-18-2016	11:31:00 AM	27.72	1	1	13	26	58	32	609.84	0	0	609.84
461571	LF	8017	8017	0	07-18-2016	12:07:00 PM	28.84	1	1	13	26	58	32	634.48	0	0	634.48
461573	LF	8017	8017	0	07-18-2016	12:08:00 PM	25.04	1	1	13	26	58	32	550.88	0	0	550.88
461574	LF	8017	8017	0	07-18-2016	12:09:00 PM	31.86	1	1	13	26	58	32	700.92	0	0	700.92
461578	LF	8017	8017	0	07-18-2016	12:31:00 PM	30.52	1	1	13	26	58	32	671.44	0	0	671.44
461579	LF	8017	8017	0	07-18-2016	12:32:00 PM	29.18	1	1	13	26	58	32	641.96	0	0	641.96
461580	LF	8017	8017	0	07-18-2016	12:35:00 PM	29.76	1	1	13	26	58	32	654.72	0	0	654.72
461581	LF	8017	8017	0	07-18-2016	12:39:00 PM	31.27	1	1	13	26	58	32	687.94	0	0	687.94
461582	LF	8017	8017	0	07-18-2016	12:51:00 PM	27.14	1	1	13	26	58	32	597.08	0	0	597.08
461589	LF	8017	8017	0	07-18-2016	1:23:00 PM	33.36	1	1	13	26	58	32	733.92	0	0	733.92
461590	LF	8017	8017	0	07-18-2016	1:27:00 PM	29.74	1	1	13	26	58	32	654.28	0	0	654.28
461591	LF	8017	8017	0	07-18-2016	1:30:00 PM	30.33	1	1	13	26	58	32	667.26	0	0	667.26
461592	LF	8017	8017	0	07-18-2016	1:31:00 PM	29.05	1	1	13	26	58	32	639.1	0	0	639.1
461597	LF	8017	8017	0	07-18-2016	1:53:00 PM	34.63	1	1	13	26	58	32	761.86	0	0	761.86
461598	LF	8017	8017	0	07-18-2016	1:54:00 PM	30.70	1	1	13	26	58	32	675.4	0	0	675.4
461599	LF	8017	8017	0	07-18-2016	1:56:00 PM	24.25	1	1	13	26	58	32	533.5	0	0	533.5
461600	LF	8017	8017	0	07-18-2016	1:57:00 PM	33.29	1	1	13	26	58	32	732.38	0	0	732.38
461601	LF	8017	8017	0	07-18-2016	1:58:00 PM	31.57	1	1	13	26	58	32	694.54	0	0	694.54
# of Transactions		25			Total Tons:		751.28			Total \$:		\$16,528.16	\$0.00	\$0.00	\$16,528.16		
Tuesday, Jul 19 2016																	

Date Out by Date

-----Type Codes-----

Trans. #	Site	Account	Truck #	Trailer #	Date Out	Time Out	Net Weight	Tran Pay	Veh	Org	Mat	Dest	Tip Fee	Special \$	Tax \$	Total Fee	
461604	LF	8017	8017	0	07-19-2016	8:34:00 AM	30.83	1	1	13	26	58	32	678.26	0	0	678.26
461605	LF	8017	8017	0	07-19-2016	8:53:00 AM	27.30	1	1	13	26	58	32	600.6	0	0	600.6
461606	LF	8017	8017	0	07-19-2016	8:54:00 AM	32.86	1	1	13	26	58	32	722.92	0	0	722.92
461607	LF	8017	8017	0	07-19-2016	9:00:00 AM	35.17	1	1	13	26	58	32	773.74	0	0	773.74
461623	LF	8017	8017	0	07-19-2016	9:57:00 AM	30.08	1	1	13	26	58	32	661.76	0	0	661.76
461624	LF	8017	8017	0	07-19-2016	10:12:00 AM	27.59	1	1	13	26	58	32	606.98	0	0	606.98
461625	LF	8017	8017	0	07-19-2016	10:13:00 AM	29.42	1	1	13	26	58	32	647.24	0	0	647.24
461626	LF	8017	8017	0	07-19-2016	10:15:00 AM	24.90	1	1	13	26	58	32	547.8	0	0	547.8
461627	LF	8017	8017	0	07-19-2016	10:17:00 AM	28.06	1	1	13	26	58	32	617.32	0	0	617.32
461633	LF	8017	8017	0	07-19-2016	10:28:00 AM	35.32	1	1	13	26	58	32	777.04	0	0	777.04
461634	LF	8017	8017	0	07-19-2016	10:30:00 AM	33.91	1	1	13	26	58	32	746.02	0	0	746.02
461635	LF	8017	8017	0	07-19-2016	10:31:00 AM	31.65	1	1	13	26	58	32	696.3	0	0	696.3
461637	LF	8017	8017	0	07-19-2016	10:34:00 AM	36.53	1	1	13	26	58	32	803.66	0	0	803.66
461641	LF	8017	8017	0	07-19-2016	10:40:00 AM	31.61	1	1	13	26	58	32	695.42	0	0	695.42
461642	LF	8017	8017	0	07-19-2016	10:42:00 AM	33.43	1	1	13	26	58	32	735.46	0	0	735.46
461643	LF	8017	8017	0	07-19-2016	10:43:00 AM	32.70	1	1	13	26	58	32	719.4	0	0	719.4
461646	LF	8017	8017	0	07-19-2016	11:00:00 AM	34.07	1	1	13	26	58	32	749.54	0	0	749.54
461647	LF	8017	8017	0	07-19-2016	12:49:00 PM	33.68	1	1	13	26	58	32	740.96	0	0	740.96
461648	LF	8017	8017	0	07-19-2016	12:54:00 PM	38.39	1	1	13	26	58	32	844.58	0	0	844.58
461650	LF	8017	8017	0	07-19-2016	12:58:00 PM	34.28	1	1	13	26	58	32	754.16	0	0	754.16
461652	LF	8017	8017	0	07-19-2016	1:13:00 PM	39.40	1	1	13	26	58	32	866.8	0	0	866.8
461654	LF	8017	8017	0	07-19-2016	1:18:00 PM	36.04	1	1	13	26	58	32	792.88	0	0	792.88
461655	LF	8017	8017	0	07-19-2016	1:29:00 PM	38.07	1	1	13	26	58	32	837.54	0	0	837.54
461657	LF	8017	8017	0	07-19-2016	1:49:00 PM	27.32	1	1	13	26	58	32	601.04	0	0	601.04
461659	LF	8017	8017	0	07-19-2016	1:54:00 PM	32.49	1	1	13	26	58	32	714.78	0	0	714.78
461661	LF	8017	8017	0	07-19-2016	1:58:00 PM	31.39	1	1	13	26	58	32	690.58	0	0	690.58
461663	LF	8017	8017	0	07-19-2016	2:00:00 PM	30.98	1	1	13	26	58	32	681.56	0	0	681.56
461668	LF	8017	8017	0	07-19-2016	2:02:00 PM	34.16	1	1	13	26	58	32	751.52	0	0	751.52

# of Transactions	28	Total Tons:	911.63	Total \$:	\$20,055.86	\$0.00	\$0.00	\$20,055.86
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Wednesday, Jul 20 2016

461673	LF	8017	8017	0	07-20-2016	7:15:00 AM	25.92	1	1	13	26	58	32	570.24	0	0	570.24
461674	LF	8017	8017	0	07-20-2016	7:34:00 AM	35.55	1	1	13	26	58	32	782.1	0	0	782.1

Date Out by Date

-----**Type Codes**-----

Trans. #	Site	Account	Truck #	Trailer #	Date Out	Time Out	Net Weight	Tran	Pay	Veh	Org	Mat	Dest	Tip Fee	Special \$	Tax \$	Total Fee
461680	LF	8017	8017	0	07-20-2016	7:46:00 AM	27.37	1	1	13	26	58	32	602.14	0	0	602.14
461682	LF	8017	8017	0	07-20-2016	7:54:00 AM	19.36	1	1	13	26	58	32	425.92	0	0	425.92
461683	LF	8017	8017	0	07-20-2016	7:55:00 AM	26.03	1	1	13	26	58	32	572.66	0	0	572.66
461692	LF	8017	8017	0	07-20-2016	8:09:00 AM	33.58	1	1	13	26	58	32	738.76	0	0	738.76
461693	LF	8017	8017	0	07-20-2016	8:10:00 AM	31.42	1	1	13	26	58	32	691.24	0	0	691.24
461694	LF	8017	8017	0	07-20-2016	8:12:00 AM	32.33	1	1	13	26	58	32	711.26	0	0	711.26
461696	LF	8017	8017	0	07-20-2016	8:14:00 AM	32.26	1	1	13	26	58	32	709.72	0	0	709.72
461702	LF	8017	8017	0	07-20-2016	10:42:00 AM	30.71	1	1	13	26	58	32	675.62	0	0	675.62
461703	LF	8017	8017	0	07-20-2016	10:44:00 AM	32.47	1	1	13	26	58	32	714.34	0	0	714.34
461705	LF	8017	8017	0	07-20-2016	10:49:00 AM	30.60	1	1	13	26	58	32	673.2	0	0	673.2
461707	LF	8017	8017	0	07-20-2016	10:52:00 AM	27.28	1	1	13	26	58	32	600.16	0	0	600.16
461708	LF	8017	8017	0	07-20-2016	10:54:00 AM	34.39	1	1	13	26	58	32	756.58	0	0	756.58
461710	LF	8017	8017	0	07-20-2016	10:59:00 AM	29.09	1	1	13	26	58	32	639.98	0	0	639.98
461711	LF	8017	8017	0	07-20-2016	11:01:00 AM	27.75	1	1	13	26	58	32	610.5	0	0	610.5
461717	LF	8017	8017	0	07-20-2016	11:20:00 AM	31.29	1	1	13	26	58	32	688.38	0	0	688.38
461718	LF	8017	8017	0	07-20-2016	11:21:00 AM	27.05	1	1	13	26	58	32	595.1	0	0	595.1
461726	LF	8017	8017	0	07-20-2016	1:46:00 PM	25.90	1	1	13	26	58	32	569.8	0	0	569.8
461728	LF	8017	8017	0	07-20-2016	1:54:00 PM	30.68	1	1	13	26	58	32	674.96	0	0	674.96
461730	LF	8017	8017	0	07-20-2016	2:03:00 PM	25.39	1	1	13	26	58	32	558.58	0	0	558.58
461733	LF	8017	8017	0	07-20-2016	2:06:00 PM	26.15	1	1	13	26	58	32	575.3	0	0	575.3
461734	LF	8017	8017	0	07-20-2016	2:07:00 PM	25.96	1	1	13	26	58	32	571.12	0	0	571.12
461737	LF	8017	8017	0	07-20-2016	2:10:00 PM	30.68	1	1	13	26	58	32	674.96	0	0	674.96

# of Transactions	24	Total Tons:	699.21	Total \$:	\$15,382.62	\$0.00	\$0.00	\$15,382.62
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Thursday, Jul 21 2016

461740	LF	8017	8017	0	07-21-2016	8:57:00 AM	22.22	1	1	13	26	58	32	488.84	0	0	488.84
461741	LF	8017	8017	0	07-21-2016	9:00:00 AM	21.24	1	1	13	26	58	32	467.28	0	0	467.28
461752	LF	8017	8017	0	07-21-2016	10:22:00 AM	22.38	1	1	13	26	58	32	492.36	0	0	492.36
461753	LF	8017	8017	0	07-21-2016	10:42:00 AM	20.98	1	1	13	26	58	32	461.56	0	0	461.56
461754	LF	8017	8017	0	07-21-2016	10:49:00 AM	22.51	1	1	13	26	58	32	495.22	0	0	495.22
461757	LF	8017	8017	0	07-21-2016	11:23:00 AM	21.81	1	1	13	26	58	32	479.82	0	0	479.82
461762	LF	8017	8017	0	07-21-2016	11:28:00 AM	22.04	1	1	13	26	58	32	484.88	0	0	484.88
461763	LF	8017	8017	0	07-21-2016	11:28:00 AM	25.35	1	1	13	26	58	32	557.7	0	0	557.7

Date Out by Date

-----Type Codes-----

Trans. #	Site	Account	Truck #	Trailer #	Date Out	Time Out	Net Weight	Tran Pay	Veh	Org	Mat	Dest	Tip Fee	Special \$	Tax \$	Total Fee	
461764	LF	8017	8017	0	07-21-2016	11:30:00 AM	27.10	1	1	13	26	58	32	596.2	0	0	596.2
461765	LF	8017	8017	0	07-21-2016	11:30:00 AM	24.95	1	1	13	26	58	32	548.9	0	0	548.9
461768	LF	8017	8017	0	07-21-2016	11:35:00 AM	25.04	1	1	13	26	58	32	550.88	0	0	550.88
461769	LF	8017	8017	0	07-21-2016	11:50:00 AM	25.53	1	1	13	26	58	32	561.66	0	0	561.66

# of Transactions	12	Total Tons:	281.15	Total \$:	\$6,185.30	\$0.00	\$0.00	\$6,185.30
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Friday, Jul 22 2016

461771	LF	8017	8017	0	07-22-2016	8:41:00 AM	29.32	1	1	13	26	58	32	645.04	0	0	645.04
461775	LF	8017	8017	0	07-22-2016	9:58:00 AM	25.47	1	1	13	26	58	32	560.34	0	0	560.34
461776	LF	8017	8017	0	07-22-2016	10:03:00 AM	26.60	1	1	13	26	58	32	585.2	0	0	585.2
461779	LF	8017	8017	0	07-22-2016	10:19:00 AM	28.16	1	1	13	26	58	32	619.52	0	0	619.52
461780	LF	8017	8017	0	07-22-2016	10:25:00 AM	28.41	1	1	13	26	58	32	625.02	0	0	625.02
461782	LF	8017	8017	0	07-22-2016	10:33:00 AM	25.33	1	1	13	26	58	32	557.26	0	0	557.26
461784	LF	8017	8017	0	07-22-2016	10:35:00 AM	31.63	1	1	13	26	58	32	695.86	0	0	695.86
461785	LF	8017	8017	0	07-22-2016	10:36:00 AM	34.80	1	1	13	26	58	32	765.6	0	0	765.6
461787	LF	8017	8017	0	07-22-2016	10:38:00 AM	33.10	1	1	13	26	58	32	728.2	0	0	728.2
461789	LF	8017	8017	0	07-22-2016	10:40:00 AM	25.87	1	1	13	26	58	32	569.14	0	0	569.14

# of Transactions	10	Total Tons:	288.69	Total \$:	\$6,351.18	\$0.00	\$0.00	\$6,351.18
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Monday, Jul 25 2016

461853	LF	8017	8017	0	07-25-2016	12:19:00 PM	33.41	1	1	13	26	58	32	735.02	0	0	735.02
461855	LF	8017	8017	0	07-25-2016	1:24:00 PM	35.14	1	1	13	26	58	32	773.08	0	0	773.08
461856	LF	8017	8017	0	07-25-2016	1:26:00 PM	35.96	1	1	13	26	58	32	791.12	0	0	791.12
461857	LF	8017	8017	0	07-25-2016	1:27:00 PM	40.71	1	1	13	26	58	32	895.62	0	0	895.62
461858	LF	8017	8017	0	07-25-2016	1:30:00 PM	35.93	1	1	13	26	58	32	790.46	0	0	790.46
461865	LF	8017	8017	0	07-25-2016	1:37:00 PM	37.02	1	1	13	26	58	32	814.44	0	0	814.44
461866	LF	8017	8017	0	07-25-2016	1:37:00 PM	37.10	1	1	13	26	58	32	816.2	0	0	816.2
461867	LF	8017	8017	0	07-25-2016	1:38:00 PM	37.23	1	1	13	26	58	32	819.06	0	0	819.06
461876	LF	8017	8017	0	07-25-2016	1:51:00 PM	30.28	1	1	13	26	58	32	666.16	0	0	666.16
461878	LF	8017	8017	0	07-25-2016	1:55:00 PM	36.94	1	1	13	26	58	32	812.68	0	0	812.68
461879	LF	8017	8017	0	07-25-2016	1:57:00 PM	37.16	1	1	13	26	58	32	817.52	0	0	817.52
461881	LF	8017	8017	0	07-25-2016	1:58:00 PM	37.86	1	1	13	26	58	32	832.92	0	0	832.92
461882	LF	8017	8017	0	07-25-2016	2:01:00 PM	32.02	1	1	13	26	58	32	704.44	0	0	704.44

Date Out by Date

-----Type Codes-----

Trans. #	Site	Account	Truck #	Trailer #	Date Out	Time Out	Net Weight	Tran Pay	Veh	Org	Mat	Dest	Tip Fee	Special \$	Tax \$	Total Fee	
461883	LF	8017	8017	0	07-25-2016	2:02:00 PM	31.60	1	1	13	26	58	32	695.2	0	0	695.2
461884	LF	8017	8017	0	07-25-2016	2:05:00 PM	29.23	1	1	13	26	58	32	643.06	0	0	643.06
461885	LF	8017	8017	0	07-25-2016	2:06:00 PM	32.29	1	1	13	26	58	32	710.38	0	0	710.38
# of Transactions		16			Total Tons:		559.88	Total \$:					\$12,317.36	\$0.00	\$0.00	\$12,317.36	
Tuesday, Jul 26 2016																	
461906	LF	8017	8017	0	07-26-2016	9:37:00 AM	29.56	1	1	13	26	58	32	650.32	0	0	650.32
461907	LF	8017	8017	0	07-26-2016	9:38:00 AM	30.95	1	1	13	26	58	32	680.9	0	0	680.9
461915	LF	8017	8017	0	07-26-2016	9:52:00 AM	36.93	1	1	13	26	58	32	812.46	0	0	812.46
461916	LF	8017	8017	0	07-26-2016	10:23:00 AM	30.94	1	1	13	26	58	32	680.68	0	0	680.68
461917	LF	8017	8017	0	07-26-2016	10:23:00 AM	31.81	1	1	13	26	58	32	699.82	0	0	699.82
461919	LF	8017	8017	0	07-26-2016	10:26:00 AM	33.80	1	1	13	26	58	32	743.6	0	0	743.6
461922	LF	8017	8017	0	07-26-2016	10:29:00 AM	31.55	1	1	13	26	58	32	694.1	0	0	694.1
461924	LF	8017	8017	0	07-26-2016	10:50:00 AM	32.95	1	1	13	26	58	32	724.9	0	0	724.9
461927	LF	8017	8017	0	07-26-2016	10:55:00 AM	30.21	1	1	13	26	58	32	664.62	0	0	664.62
461930	LF	8017	8017	0	07-26-2016	11:00:00 AM	29.80	1	1	13	26	58	32	655.6	0	0	655.6
461931	LF	8017	8017	0	07-26-2016	11:06:00 AM	26.34	1	1	13	26	58	32	579.48	0	0	579.48
# of Transactions		11			Total Tons:		344.84	Total \$:					\$7,586.48	\$0.00	\$0.00	\$7,586.48	
Wednesday, Jul 27 2016																	
461950	LF	8017	8017	0	07-27-2016	11:26:00 AM	34.03	1	1	13	26	58	32	748.66	0	0	748.66
461991	LF	8017	8017	0	07-27-2016	12:41:00 PM	28.65	1	1	13	26	58	32	630.3	0	0	630.3
461993	LF	8017	8017	0	07-27-2016	12:44:00 PM	33.57	1	1	13	26	58	32	738.54	0	0	738.54
# of Transactions		3			Total Tons:		96.25	Total \$:					\$2,117.50	\$0.00	\$0.00	\$2,117.50	
Thursday, Jul 28 2016																	
462026	LF	8017	8017	0	07-28-2016	11:06:00 AM	27.08	1	1	13	26	58	32	595.76	0	0	595.76
462027	LF	8017	8017	0	07-28-2016	11:08:00 AM	35.78	1	1	13	26	58	32	787.16	0	0	787.16
462030	LF	8017	8017	0	07-28-2016	11:24:00 AM	29.85	1	1	13	26	58	32	656.7	0	0	656.7
462038	LF	8017	8017	0	07-28-2016	12:42:00 PM	30.54	1	1	13	26	58	32	671.88	0	0	671.88
462039	LF	8017	8017	0	07-28-2016	12:56:00 PM	17.69	1	1	13	26	58	32	389.18	0	0	389.18
# of Transactions		5			Total Tons:		140.94	Total \$:					\$3,100.68	\$0.00	\$0.00	\$3,100.68	
Monday, Aug 22 2016																	

Date Out by Date

-----Type Codes-----

Trans. #	Site	Account	Truck #	Trailer #	Date Out	Time Out	Net Weight	Tran Pay	Veh	Org	Mat	Dest	Tip Fee	Special \$	Tax \$	Total Fee	
462533	LF	8017	8017	0	08-22-2016	10:43:00 AM	29.07	1	1	13	26	58	32	639.54	0	0	639.54
462539	LF	8017	8017	0	08-22-2016	12:22:00 PM	31.63	1	1	13	26	58	32	695.86	0	0	695.86
462542	LF	8017	8017	0	08-22-2016	12:49:00 PM	29.78	1	1	13	26	58	32	655.16	0	0	655.16

# of Transactions	3	Total Tons:	90.48	Total \$:	\$1,990.56	\$0.00	\$0.00	\$1,990.56
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Tuesday, Aug 23 2016

462553	LF	8017	8017	0	08-23-2016	7:10:00 AM	30.82	1	1	13	26	58	32	678.04	0	0	678.04
462566	LF	8017	8017	0	08-23-2016	8:48:00 AM	34.44	1	1	13	26	58	32	757.68	0	0	757.68
462567	LF	8017	8017	0	08-23-2016	9:40:00 AM	33.51	1	1	13	26	58	32	737.22	0	0	737.22
462568	LF	8017	8017	0	08-23-2016	9:41:00 AM	32.13	1	1	13	26	58	32	706.86	0	0	706.86
462569	LF	8017	8017	0	08-23-2016	9:42:00 AM	32.26	1	1	13	26	58	32	709.72	0	0	709.72
462571	LF	8017	8017	0	08-23-2016	9:45:00 AM	36.16	1	1	13	26	58	32	795.52	0	0	795.52
462572	LF	8017	8017	0	08-23-2016	9:47:00 AM	38.29	1	1	13	26	58	32	842.38	0	0	842.38
462574	LF	8017	8017	0	08-23-2016	9:53:00 AM	31.53	1	1	13	26	58	32	693.66	0	0	693.66
462579	LF	8017	8017	0	08-23-2016	1:36:00 PM	31.55	1	1	13	26	58	32	694.1	0	0	694.1
462580	LF	8017	8017	0	08-23-2016	1:42:00 PM	33.81	1	1	13	26	58	32	743.82	0	0	743.82
462582	LF	8017	8017	0	08-23-2016	1:50:00 PM	31.42	1	1	13	26	58	32	691.24	0	0	691.24
462583	LF	8017	8017	0	08-23-2016	1:53:00 PM	26.36	1	1	13	26	58	32	579.92	0	0	579.92
462587	LF	8017	8017	0	08-23-2016	2:00:00 PM	29.67	1	1	13	26	58	32	652.74	0	0	652.74

# of Transactions	13	Total Tons:	421.95	Total \$:	\$9,282.90	\$0.00	\$0.00	\$9,282.90
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Wednesday, Aug 24 2016

462591	LF	8017	8017	0	08-24-2016	9:16:00 AM	29.25	1	1	13	26	58	32	643.5	0	0	643.5
462598	LF	8017	8017	0	08-24-2016	10:18:00 AM	29.54	1	1	13	26	58	32	649.88	0	0	649.88
462599	LF	8017	8017	0	08-24-2016	10:26:00 AM	34.00	1	1	13	26	58	32	748	0	0	748
462601	LF	8017	8017	0	08-24-2016	10:40:00 AM	30.09	1	1	13	26	58	32	661.98	0	0	661.98
462605	LF	8017	8017	0	08-24-2016	11:18:00 AM	35.53	1	1	13	26	58	32	781.66	0	0	781.66
462606	LF	8017	8017	0	08-24-2016	11:19:00 AM	32.40	1	1	13	26	58	32	712.8	0	0	712.8
462607	LF	8017	8017	0	08-24-2016	11:20:00 AM	33.18	1	1	13	26	58	32	729.96	0	0	729.96
462615	LF	8017	8017	0	08-24-2016	11:44:00 AM	35.56	1	1	13	26	58	32	782.32	0	0	782.32
462617	LF	8017	8017	0	08-24-2016	12:14:00 PM	32.23	1	1	13	26	58	32	709.06	0	0	709.06
462618	LF	8017	8017	0	08-24-2016	12:15:00 PM	34.68	1	1	13	26	58	32	762.96	0	0	762.96
462619	LF	8017	8017	0	08-24-2016	1:32:00 PM	36.84	1	1	13	26	58	32	810.48	0	0	810.48

Cowlitz County Dept of Public Works
Cowlitz County Landfill - Charge Transaction Summary

From 9/1/2016 to 9/30/2016

Totals by Date

Day of Week	Date	Count	Weight	Tip Fee	Spec Fee	Tax Fee	Total Fee
Intentionally Left Blank – Transactions Were For a Different Project							
Thursday	9/29/2016	1	30.52	\$671.44	\$0.00	\$0.00	\$671.44
Totals		33	921.98	\$20,283.56	\$0.00	\$0.00	\$20,283.56

ACME

Totals by Category

Transaction Details

Site	Date	Time	Trans #	Truck	Trlr	Material Type	----- Weights -----			----- Fees -----		
							Gross	Tare	Net	Rate\$	Tip \$	Spec \$
Intentionally Left Blank – Transactions Were For a Different Project												

Cowlitz County Dept of Public Works
Cowlitz County Landfill - Charge Transaction Summary

From 9/1/2016 to 9/30/2016

Transaction Details

----- Weights ----- ----- Fees -----
Site Date Time Trans # Truck Trlr Material Type Gross Tare Net Rate\$ Tip \$ Spec \$ Total \$

Intentionally Left Blank – Transactions Were For a Different Project

LF 9/29/2016 12:26:00 PM 463343 8017 0 58=PCS 5 49.12 18.60 30.52 \$22.00 \$671.44 \$0.00 \$671.44

ACME (12-114a)