WELL INSTALLATION REPORT

Pacific Convenience and Fuels Service Station #2705492

21208 68th Ave South, Kent, Washington, 98032

Facility Site ID # 15543314

VCP No. NW2686

Antea®Group Project No. I42705492
April 30, 2013

Prepared for:
Pacific Convenience & Fuels, LLC
7180 Koll Center Parkway
Suite 100
Pleasanton, CA 94566

Prepared by:
Antea Group
4006 148th Avenue NE
Redmond, WA 98052
800 477 7411

Antea USA, Inc.

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21208 68th Ave S, Kent, Washington

Antea Group Project No. I42705492

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Antea Group (Antea Group) has prepared this report to summarize well installation activities performed at the Pacific Convenience & Fuels, LLC (PC&F) Service Station #2705492 (former ConocoPhillips Service Station) located at 21208 68th Avenue South, Kent, Washington (The Property, Figure 1). The work summarized in this report was performed to further delineate the lateral extent of petroleum hydrocarbon concentrations beneath the property.

1.0 EXECUTIVE SUMMARY

On October 30, 2012, Antea Group personnel directed the advancement of 1 soil boring (MW-13) at the Property (Figure 2). Boring MW-13 was advanced to a total depth of 19.5 feet below ground surface (bgs) and completed as 2-inch groundwater monitoring well set at 18 feet bgs with 15 feet of 0.010" slotted screen. Soil samples were collected at 3 feet bgs with a hand auger during air-knifing activities and at approximate five foot intervals from a split spoon driven ahead of the drill bit into the undisturbed formation. Soil samples above groundwater were submitted for quantitative chemical analyses. Petroleum hydrocarbons were not detected above respective Washington State Model Toxic Control Act (MTCA) Method A cleanup levels and/or laboratory method reporting limits (MRLs) in any sample submitted for laboratory analyses.

2.0 BACKGROUND

2.1 Site Description

The facility is an operating service station. The Property is square in shape and is located at the southeast corner of the intersection of 68th Avenue South and South 212th Street in Kent, Washington (Figure 1). The Property has been assigned site number 2705492. The current service station facility consists of a station building, three underground storage tanks (USTs) and four dispensing islands. The USTs consist of one 10,000 gallon supreme and two 10,000-gallon regular unleaded tanks. The former station configuration included three dispenser islands diagonally oriented on a northwest-southeast axis with a cashier's building located adjacent to the center dispenser island. The former UST field was located adjacent to the southeastern dispenser island. Gasoline was stored in four 12,000 gallon USTs and diesel was stored in one 12,000 gallon UST (Figure 2).

According to information gathered by Rittenhouse–Zeman & Associates Inc. (RZA), the Property has been a gasoline service station since at least 1969. The station formerly operated under various retail gasoline company brands including Chevron USA, Southland Corporation, Mobil Oil Corporation, British Petroleum (BP) Oil Company, ConocoPhillips, and most recently, PC&F. The Property is at an approximate elevation of 25 feet above mean sea level. Topography in the vicinity of the Property is generally flat. The Green River is located approximately ¾ mile west of the Property and flows in a northerly direction. State highway 167 is located approximately 1.3 miles east of the Property and Interstate 5 is located approximately 2 miles west of the Property. The surrounding land use is predominantly commercial.

2.2 Previous Investigations

2.2.1 Historical Motor Fuel Dispensing Facility Configurations, 1969 to 1991

The Property has reportedly operated as a gasoline and diesel-dispensing facility since at least 1969. According to review of the Washington State Department of Ecology (Ecology) UST database, five USTs were installed at the Property in 1964. Documentation regarding the decommissioning and/or removal of the original USTs has not been found. Between 1980 and 1981, the station was remodeled by Southland Corporation. The Underground Storage Tank Removal report prepared by RZA in April 1992 stated that Southland Corporation transferred five 12,000 gallon USTs from another location and installed them at the Property in 1980. The prior usage and condition of the USTs at the time of installation was not reported.

The station was remodeled again in September 1991 and included the demolition and replacement of the station building, dispenser islands, the USTs installed in 1980, and the associated product piping. According to RZA's April 1992 report, four 12,000-gallon gasoline USTs and one 12,000-gallon diesel UST were removed from the Property on October 2 and 3, 1991. A septic tank and associated drain field was also discovered and was subsequently removed during the station upgrade. Following UST decommissioning, the motor fuel products USTs were replaced by one 10,000 gallon supreme and two 10,000-gallon unleaded gasoline USTs oriented east-west in the west central portion of the Property. The station upgrade was completed in December 1991.

2.2.2 Historical Site Characterization Assessments, 1989 to 2012

A soil gas survey was conducted at the Property on February 26, 1989 by Target Environmental Services, Inc. (Target) in accordance with the Property transfer agreement between Mobil Oil Corporation and BP Oil Company. The results of the soil gas survey indicated that petroleum hydrocarbons were concentrated in the subsurface soil in the vicinity of the UST complex and along the product piping, with some migration northwestward along the edge of the dispenser island area. Target stated that low level hydrocarbon impacts were detected in the remaining areas of the Property.

In order to evaluate subsurface soil and groundwater for the presence of petroleum hydrocarbons, RZA conducted a limited subsurface investigation at the Property in April 1989. Prior to the investigation activities, RZA observed that four groundwater monitoring wells (named by RZA as wells "A" through "D") had been installed at the Property in

the region of the UST complex and dispenser islands. RZA installed monitoring well MW-1 to the west of the UST complex on April 12, 1989. Soil observed during the drilling consisted of soft to medium dense sandy silt to approximately 10 feet bgs, underlain by medium dense slightly silty sand to the bottom of the boring, 14 feet bgs. A soil sample was collected for analysis of total petroleum hydrocarbons (TPH) and for benzene, toluene, ethylbenzene, and total xylenes (BTEX). A concentration of TPH was detected at 36 milligrams per kilogram (mg/kg). During the groundwater monitoring activities conducted at the existing wells and at well MW-1 on April 18, 1989, approximately 0.26 feet of liquid petroleum hydrocarbons (LPH) was measured in well B, located southwest of the center dispenser island. Groundwater samples were collected from well MW-1 and well D for analysis of TPH and BTEX. Within the groundwater sample collected from well MW-1, TPH and BTEX were detected at concentrations of 28,000 micrograms per liter (µg/L), 13,040 µg/L, 2,250 µg/L, 290 µg/L, and 1,260 µg/L, respectively.

RZA conducted a subsurface investigation in November 1989 which consisted of the installation of two new wells (MW-2 and MW-3) and the decommissioning of wells A, B, C, and D. Prior to the well decommissioning, approximately 0.5 feet of LPH was measured in well B. Wells MW-2 and MW-3 were installed on November 21, 1989 to a depth of 15 feet bgs. Laboratory analysis of soil samples collected from the borings indicated that concentrations of TPH and BTEX were detected in the 9-foot soil sample interval from boring MW-3 at 5,679 parts per million (ppm), 68.3 ppm, 312 ppm, 71.0 ppm, and 399 ppm, respectively. Concentrations of TPH and BTEX were also detected in groundwater samples collected from wells MW-1 through MW-3 on November 28, 1989.

Four additional groundwater monitoring wells (MW-4 through MW-7) were installed to a depth of 18.5 feet bgs by RZA in February 1991. The wells were installed to further delineate the extent of petroleum hydrocarbons in groundwater and soil beneath the Property. Soil samples were collected from the sample intervals of 2 feet to 3.5 feet bgs and from 7 feet to 8.5 feet bgs from each boring for analysis of petroleum hydrocarbons. Concentrations of TPH as diesel (TPH-D) ranged from 14 ppm to 40 ppm. Concentrations of BTEX were not detected above the laboratory method reporting limits. Groundwater samples were collected from the wells on February 14, 1991. A concentration of benzene was detected within the sample collected from well MW-4 at 232 parts per billion (ppb). Station upgrades including the demolition and replacement of the station building, dispenser islands, USTs and associated product piping were performed at the Property between September and December 1991. Prior to excavation of the new UST complex, an exploratory trench was excavated on September 9, 1991 along the perimeter of the proposed location of the new UST complex. During the limited excavation, large pieces of asphalt and concrete, steel product lines, and a concrete dispenser island with an attached canopy footing were discovered in the northwest corner of the proposed UST location at a depth of approximately 6 feet to 7 feet bgs. Several of the product lines were observed to contain groundwater. According to RZA's April 1992 report, all debris found during the excavation was removed. Well MW-3 was also removed during the excavation activities for the new USTs.

Excavation of the new UST complex began on September 24, 1991. Excavated soil was field screened with a PID. The highest PID readings were observed from soil samples obtained near the groundwater interface at depths between 11 feet and 12 feet bgs. Soil samples collected from the new UST complex from depths between 7 feet and 12 feet

bgs contained concentrations of TPH as gasoline (TPH-G) ranging from 8 ppm to 1,400 ppm and total BTEX ranging up to 20 ppm. During excavation dewatering operations, three groundwater samples were collected for laboratory analysis of petroleum hydrocarbons. Concentrations of TPH-G and BTEX were detected up to 60,000 ppm, 6,600 ppm, 12,000 ppm, 360 ppm, and 11,000 ppm, respectively. Upon installation of the new USTs, four UST observation wells (TW-1 through TW-4) were installed in the four corners of the new UST complex. Historic documents indicate that observation well TW-1 was used during groundwater monitoring events conducted by RZA.

The five 12,000-gallon USTs were removed from the Property on October 2 and 3, 1991. Upon removal, a hole approximately the diameter of a pencil was found in the bottom of the unleaded gasoline UST. RZA observed a "brownish emulsion" on the groundwater present at 10.5 feet to 11 feet bgs within the excavation. Soil samples were collected from the sidewalls and bottom of the excavation between 7 feet and 12 feet bgs. Concentrations of TPH-G, TPH-D, and BTEX were detected up to 7,200 ppm, 2,600 ppm, 90 ppm, 540 ppm, 160 ppm, and 1,000 ppm, respectively. The excavation was backfilled with a combination of the previously excavated soil and imported clean fill consisting of silty sand and gravel.

During excavation of the former UST complex, several concrete and polyvinyl chloride (PVC) pipes were discovered in the sidewalls of the UST excavation. The pipes as well as some previously abandoned monitoring wells and well MW-2 were removed during the excavation activities. Another well RZA identified as well "E" was also abandoned during the UST removals. In addition, an 18-inch concrete pipe was also discovered along the southwest corner of the former UST excavation at a depth of 7 feet bgs. Upon checking with the City of Kent, the pipe was grouted at the western and southeastern Property boundary to prevent migration of petroleum hydrocarbons.

The dispenser islands and associated canopy were demolished and removed from the Property in October 1991. Elevated PID readings were observed in soil located near the central footing of the former canopy. During the excavation activities conducted for the new canopy footings, soil samples were collected between 5 feet and 6 feet bgs. Concentrations of TPH-G and TPH-D were detected up to 70 ppm and 110 ppm, respectively. The soil sample collected from the southern-central canopy footing at 5 feet bgs contained concentrations of BTEX at 2.2 ppm, 12 ppm, 7.6 ppm, and 41 ppm, respectively. During the excavations for the new canopy footings, all product lines, vent lines, and former utility lines were traced and subsequently removed to prevent preferential pathways.
During the excavation of the product line trench to the southern dispenser island on November 5, 1991, a 750-gallon concrete septic tank and associated drain field was discovered. Prior to having the septic pumped and cleaned by a septic tank cleaning service, samples were collected from the contents of the septic tank. Concentrations of TPH-G, TPH-D, and BTEX were detected at 320 ppm, 6,200 ppm, 9.6 ppm, 4.2 ppm, 5.6 ppm, and 31 ppm, respectively. The septic tank was removed on November 7, 1991 and a soil sample was collected from beneath the tank between 6 feet and 7.5 feet bgs. Analytical results indicated concentrations of TPH-G, TPH-D, BTEX, and lead were detected at 2,600 ppm, 750 ppm, 13 ppm, 120 ppm, 53 ppm, 300 ppm, and 101 ppm, respectively. All concrete drain pipes associated with the septic tank were removed from the Property during the septic tank excavation activities.

Additional soil was removed from the Property from the region surrounding the three catch basins and the associated storm drain lines. RZA removed black oily sludge from the catch basins and the storm drain line for disposal with the other impacted soil generated during the station upgrades. The former oil water separator was removed from the Property and replaced with two oil water separators installed near the northern and western Property boundaries. During the installation of the northern oil water separator, a small stained soil horizon was noted at approximately 2 feet bgs.

Groundwater monitoring conducted between 1989 and 1993 indicated that the groundwater flow direction was to the north. In order to evaluate if petroleum hydrocarbons had migrated off-Property, an additional investigation was conducted in March 1993. Monitoring well MW-8 was drilled and installed within the right-of-way on the north side of South 212th Street, directly opposite of the Property to a depth of 20 feet bgs. Two soil samples and one groundwater sample were submitted for laboratory analysis of petroleum hydrocarbons. Concentrations of TPH-G, TPH-D, and BTEX were not detected above the laboratory method reporting limits in the soil and groundwater samples.

On January 9, 2008, ATC Associates, Inc. (ATC) performed a Due Diligence site assessment to generate a baseline assessment of the Property at the time of the Property transfer from ConocoPhillips to PC&F. The assessment included the collection of groundwater samples from wells MW-1, MW-4, MW-5, MW-6, MW-7, TW-1, and TW-3 for analysis of petroleum hydrocarbons. The depth to groundwater ranged from 7.58 feet to 8.43 feet bgs. Concentrations of TPH-G and benzene were detected above the MTCA Method A cleanup levels in the groundwater sample collected from tank observation well TW-1 at 2,200 µg/L and 150 µg/L, respectively.

On August 3, 2010, Antea Group personnel directed the drilling and installation of one groundwater monitoring well (MW-9) at the Property. Boring MW-9 was advanced to a depth of 18 feet bgs and completed as a monitoring well. Soil samples were collected from MW-9 at depths of 6, 10, and 15 feet bgs.
Petroleum hydrocarbon concentrations were not detected above the respective MTCA Method A cleanup levels in any of the soil samples collected from boring MW-9. During the drilling and installation of well MW-9, a well was identified approximately 15 feet to the northwest of existing well DC-4. Due to lack of information provided by previous consultants, this well has been arbitrarily named well MW-10.

Groundwater samples were collected from the newly installed well MW-9 and from existing wells MW-1, MW-4 through MW-7, MW-10, DC-1, DC-3, DC-4, TW-1, and TW-3 on September 23, 2010. The laboratory analytical results indicated that concentrations of TPH-G and benzene exceeded the MTCA Method A cleanup level in well MW-10. A concentration of TPH-G was also detected above the MTCA Method A cleanup level in the groundwater sample collected from well TW-1. Petroleum hydrocarbon concentrations were not detected above the respective MTCA Method A cleanup levels in any of the groundwater samples collected from the remaining wells.

On April 16, 2012, Antea Group personnel directed the advancement of 6 soil borings (B-1 through B-6) at the property. An additional boring (B-7) was attempted but was abandoned due to utilities found approximately 18" bgs. Borings B-1 and B-5 were advanced to a total depth of 15 feet bgs and boring B-6 was terminated at a total depth of 7 feet bgs due to the presence of concrete. Soil samples were collected at approximate 5-foot intervals. Laboratory analytical results indicated that petroleum hydrocarbons were detected above respective MTCA Method A cleanup levels for benzene and/or TPH-G in soil samples collected from B-2-10, B-3-3, B-4-3, B-4-10, B-4-15, and B-5-10. Maximum observed concentrations of benzene and TPH-G were 0.0364 mg/kg in sample B-4-10 and 424 mg/kg in sample B-2-10, respectively.

On July 9 and 10, 2012, Antea Group personnel directed the advancement of 3 soil borings (MW-11, MW-12, and AS-1) at the property. Borings MW-11 and MW-12 were advanced to a total depth of 18 feet bgs and completed as 2-inch groundwater monitoring wells with 15 feet of 0.010" slotted screen. Boring AS-1 was advanced at a total depth of 17 feet bgs and completed as an air-sparge well with two feet of 0.020" slotted screen from 13 to 15 feet bgs. Soil samples were collected at 3 feet bgs with a hand auger during air-knifing activities and at approximate 5-foot intervals from a split spoon driven ahead of the drill bit into the undisturbed formation. Petroleum hydrocarbons were detected above respective MTCA Method A cleanup levels for benzene and/or TPH-G in soil samples collected from MW-11-10, AS-1-3, and AS-1-10. Maximum observed concentrations of benzene and TPH-G were 4.51 mg/kg and 8,080 mg/kg in samples collected from MW-11-10.

2.2.3 Historical Site Remedial Activities, 1991 to Present

Groundwater was pumped from well MW-3 during a 24-hour pump test conducted on April 26 and 27, 1991. Flow rates measured during the test ranged from 2.40 gallons per minute (gpm) to 3.04 gpm. Water pumped during the test was treated with an air stripper prior to discharge to the sanitary sewer. The total volume of water discharged was not reported.

During excavation of the new UST complex in September 1991, approximately 850 to 900 cubic yards of soil were removed from the Property and transported to the Fields Shotwell Corporation located in Port Angeles, Washington for thermal treatment. In addition, an estimated total volume of 110,000 gallons of water was pumped from the new UST complex and treated by a portable air stripper prior to discharging to the sanitary sewer.

Following the removal of the USTs in October 1991, a two-inch horizontal PVC vapor recovery line extending approximately 20 feet to the north and south of the building center was installed in the UST excavation at a depth of 7 feet bgs. A 40-foot section of two-inch blank PVC pipe was connected to the vapor line. The blank PVC vapor line reportedly extended to the west and was brought to the surface for future utilization. Four wells (DC-1 through DC-4) were also installed at the Property in late 1991 or early 1992 for possible future use as either groundwater recovery wells or as sparge points for remediation of the impacted groundwater. Documentation of the well installations and installation of a groundwater remediation system has not been found.

According to a Combined Groundwater and SVES Monitoring Report prepared by RZA on February 21, 1994, a soil vapor extraction (SVE) system was reportedly installed at the Property and was activated on November 10, 1993. Based on laboratory analysis of an effluent air sample, RZA calculated the TPH-G and total BTEX recovery rates to be approximately 0.23 pounds per day and 0.01 pounds per day, respectively. A report detailing the SVE system layout, installation, operation, and maintenance has not been found.

On November 29 and 30, 2010, Antea Group personnel directed the drilling and installation of three injection wells (IW-1 through IW-3). All three borings were advanced to a depth of 10 feet bgs and constructed of schedule 40 (SCH 40) PVC with 5-feet of 0.020-inch slotted screen. Soil samples were collected from the drill cuttings for field screening using a photo-ionization detector (PID) and for lithologic descriptions. Soil samples were not submitted for laboratory quantitative chemical analysis. Currently, the injection wells are used to inject 250-gallons of sulfate solution into the subsurface on a bi-weekly basis.

3.0 SCOPE OF WORK

The scope of work performed by Antea Group included the following tasks:

- Development of a site-specific Health and Safety Plan;
- Contracting One-Call and a private underground utility locater to delineate the location and marking of underground utilities and other potential subsurface obstructions in the vicinity of the proposed boring location;
- Clearing for utilities to a minimum depth of 5 feet bgs using an air knife/vacuum rig;
- Collection of a soil sample at 3 feet bgs with a hand auger during utility clearance activities;
- Drilling of 1 soil boring (MW-13);
- Completing MW-13 as 2-inch groundwater monitoring well;
- Collection of soil samples at approximate 5-foot intervals to the maximum depth explored using split-spoons driven into the undisturbed formation with a hollow stem auger drill rig;
- Examination and description of each sample using the Unified Soil Classification System (USCS) and standard geologic techniques;
- Submitting select soil samples for quantitative chemical analysis from each boring interval;
- Profiling, removal, and proper disposal of investigative derived waste; and
- Preparing a report summarizing the findings of the subsurface investigation.

4.0 WELL INSTALLATION

On October 30, 2012, Antea Group personnel directed drilling of one boring (MW-13) at the Property. Prior to the drilling activities, Antea Group coordinated the location and marking of underground utilities in the vicinity of the

proposed boring locations. The utilities survey included contacting the local utility locating service and contracting with a private locating service.

Prior to drilling, the boring location was cleared to a final depth of five feet bgs with an air-knife and vacuum truck. A soil sample was collected with a hand auger at 3 feet bgs during air-knife/vacuum activities. Following air-knifing, the boring was advanced using hollow stem auger drilling equipment. Boring MW-13 was advanced to a total depth of 19.5 feet bgs. Where recovered, soil samples were collected using split spoons advanced approximately every 5 feet to the maximum depth explored. Select soil samples were submitted for quantitative chemical analysis. Boring MW-13 was completed as a 2-inch diameter groundwater monitoring well set at 18 feet bgs with 15 feet of 0.010" slotted screen. Boring log, soil sampling intervals, and lithology descriptions are included in Appendix A. Field data sheets are included in Appendix B.

Soil encountered during drilling included fine to medium grained sands, gravelly sands, and sandy silts. Groundwater was encountered in MW-13 at a depth of approximately 11 feet bgs. No odors or visible staining were noted in MW-13.

5.0 WASTE MANAGEMENT

Soil cuttings and decontamination fluids generated during drilling activities were temporarily stored in properly labeled 55-gallon DOT drums. Analytical data for soil samples were used for disposal profiling. The drums were removed by PSC Environmental on January 11, 2013 and properly disposed of by Burlington Environmental in Kent Washington. Waste manifest documentation is included in Appendix C.

6.0 SAMPLE COLLECTION AND ANALYSIS

6.1 Soil Sampling

Soil samples were field screened using a PID for volatile petroleum hydrocarbons. Based on PID readings, soil samples from each boring were selected for quantitative chemical analysis for petroleum hydrocarbons. The soil samples were individually labeled, registered on a Chain-of-Custody form, and placed in a chilled cooler pending delivery to a certified analytical laboratory. Soil analytical results are presented in Table 1 and shown on Figure 3.

6.2 Laboratory Analysis

Soil and groundwater samples were submitted to Pace Analytical Laboratories of Seattle, WA for quantitative chemical analysis.

One or more soil samples were analyzed for the following parameters:

- TPH-G range using Northwest Method NWTPH-Gx;
- BTEX using EPA Method 8260; and
- Total Lead using EPA Method 6010.

7.0 SOIL ANALYTICAL RESULTS

Laboratory analytical results indicate that concentrations of BTEX and TPH-G were not detected above MTCA Method A cleanup levels and/or laboratory MRLs in any soil samples submitted for analyses. Total lead was detected at a maximum concentration of 21.6 mg/kg (MW-13-10).

Soil analytical results are presented in Table 1 and shown on Figure 3. The laboratory analytical report is included in Appendix D.

8.0 SUMMARY AND CONCLUSIONS

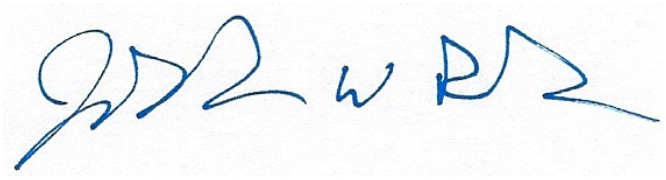
Antea Group directed the drilling of one boring (MW-13) at the property on October 30, 2012. MW-13 was completed as a 2" groundwater monitoring well. Laboratory analysis of soil samples collected from MW-13 indicate that BTEX and TPH-G were not detected above MTCA Method A cleanup levels and/or laboratory MRLs in all soil samples submitted for analyses. Groundwater samples will be collected from the well during the next sampling event and the analytical results will be included in the next quarterly groundwater monitoring report. Additional investigation down-gradient of MW-12 may be warranted to complete subsurface investigation.

Please call (425) 498-7724 if you have any questions regarding the contents of this report.

9.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

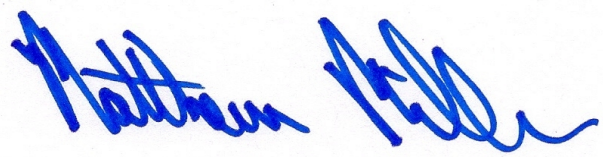
Prepared by:

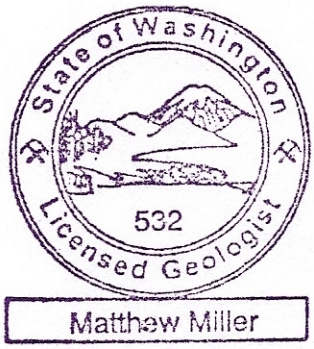


Date: April 30, 2013

Joe Rounds
Project Manager

Reviewed by:





Date: April 30, 2013

Matthew Miller, LG
Project Manager

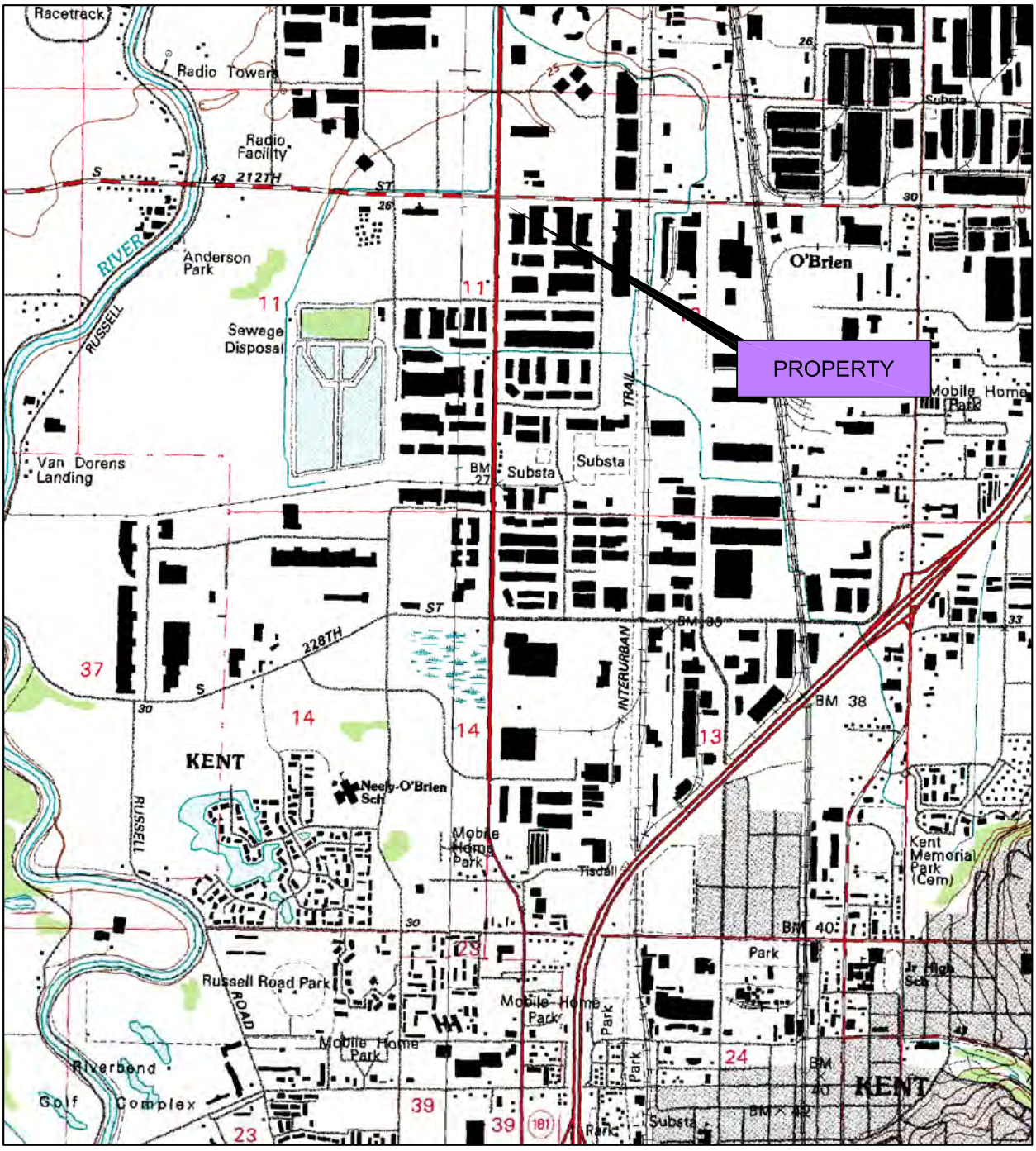
Tables

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
Pacific Convenience and Fuels Facility No. 2705492
21208 68th Avenue S
Kent, Washington 98032

Sample ID	Sample Date	Depth BGS (feet)	Analysis					
			Gasoline Range (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Lead (mg/kg)
MW-13-3	10/30/2012	3	<5.7	<0.0040	<0.0040	<0.0040	<0.012	7.3
MW-13-6	10/30/2012	6	<6.0	<0.0044	<0.0044	<0.0044	<0.013	6.0
MW-13-10	10/30/2012	10	<6.8	<0.0043	<0.0043	<0.0043	<0.013	21.6
MTCA Method A Cleanup Levels:			**100/30[a]**	**0.03**	**7**	**6**	**9**	**250**

NOTES:
All concentrations are in milligrams per kilogram (mg/kg).
< = Less than the stated laboratory reporting limit.
Gasoline range = Gasoline range hydrocarbons by Ecology Method NWTPH-Gx
BTEX = Aromatic compounds by EPA Method 8260
Total and dissolved lead by EPA Method 6010
[a] MTCA Method A Cleanup levels for TPH-g are 100 mg/kg when no Benzene is present and 30 mg/kg when Benzene is present.

Figures



N

Scale (miles)

0 0.1 0.2 0.3 0.4 0.5 0.75 1

0 1000 2000 3000 4000

Scale (feet)

from Des Moines and Renton 7.5 minute USGS Quadrangles

Figure 1
SITE LOCATION MAP

ELT PROJECT 2705492
FORMER BP FACILITY NO. 11054
21208 68th AVENUE SOUTH
KENT, WASHINGTON

Project No.	Prepared by	Drawn by	
142705492	JK	JH	
Date	Reviewed by	Filename	
2/10/11	JR	2705492SLC	

anteagroup

PROJECT NUMBER	142705492
APPROVED BY	
CHECKED BY	
DRAWN BY	ICD 10/26/2012
FILENAME	142705492_1203_3_1.DWG

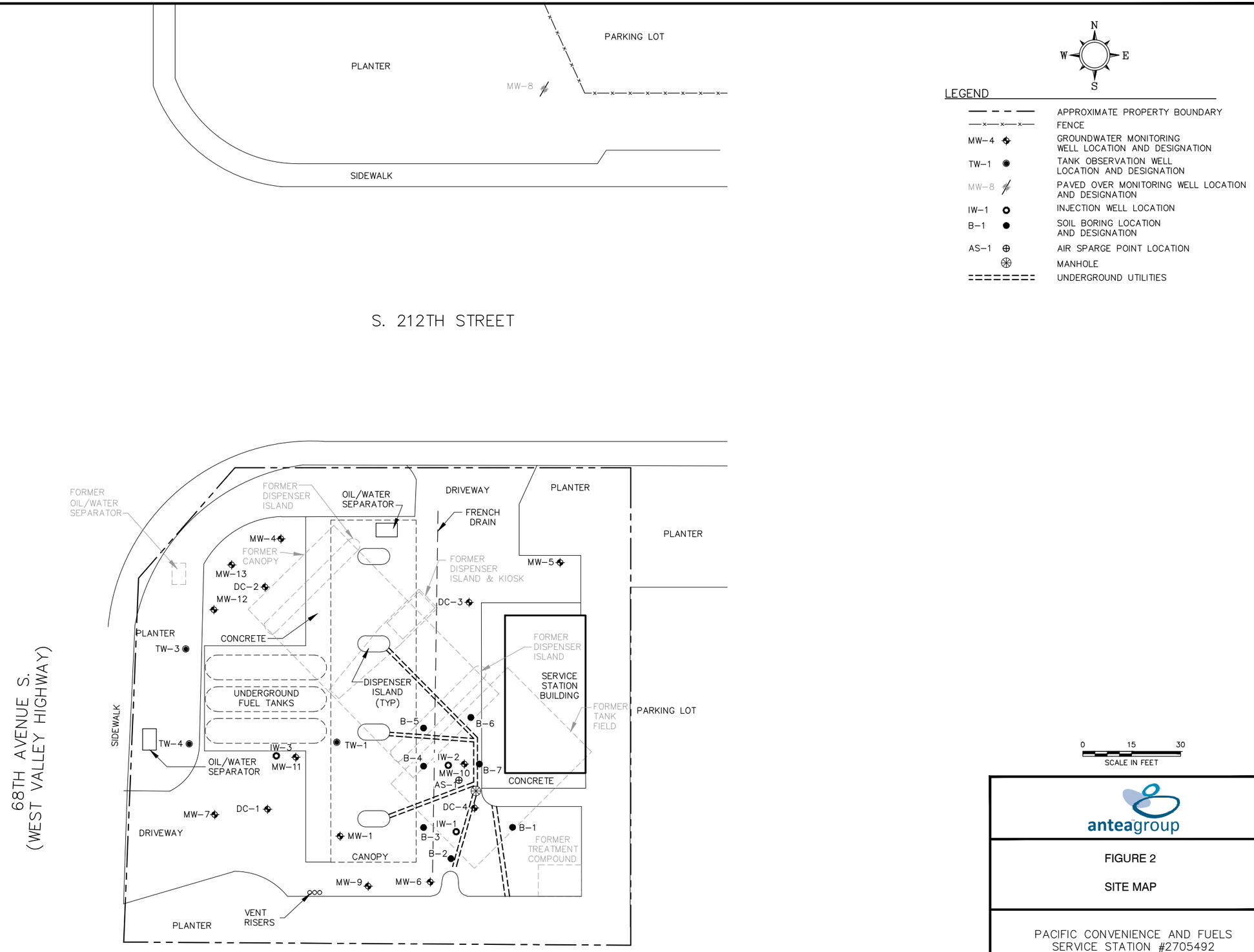


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FIGURE 2

SITE MAP

PACIFIC CONVENIENCE AND FUELS
SERVICE STATION #2705492
21208 68th AVENUE SOUTH
KENT, WASHINGTON

PROJECT NUMBER	142705492
APPROVED BY	
CHECKED BY	
DRAWN BY	ICD 4/30/2013
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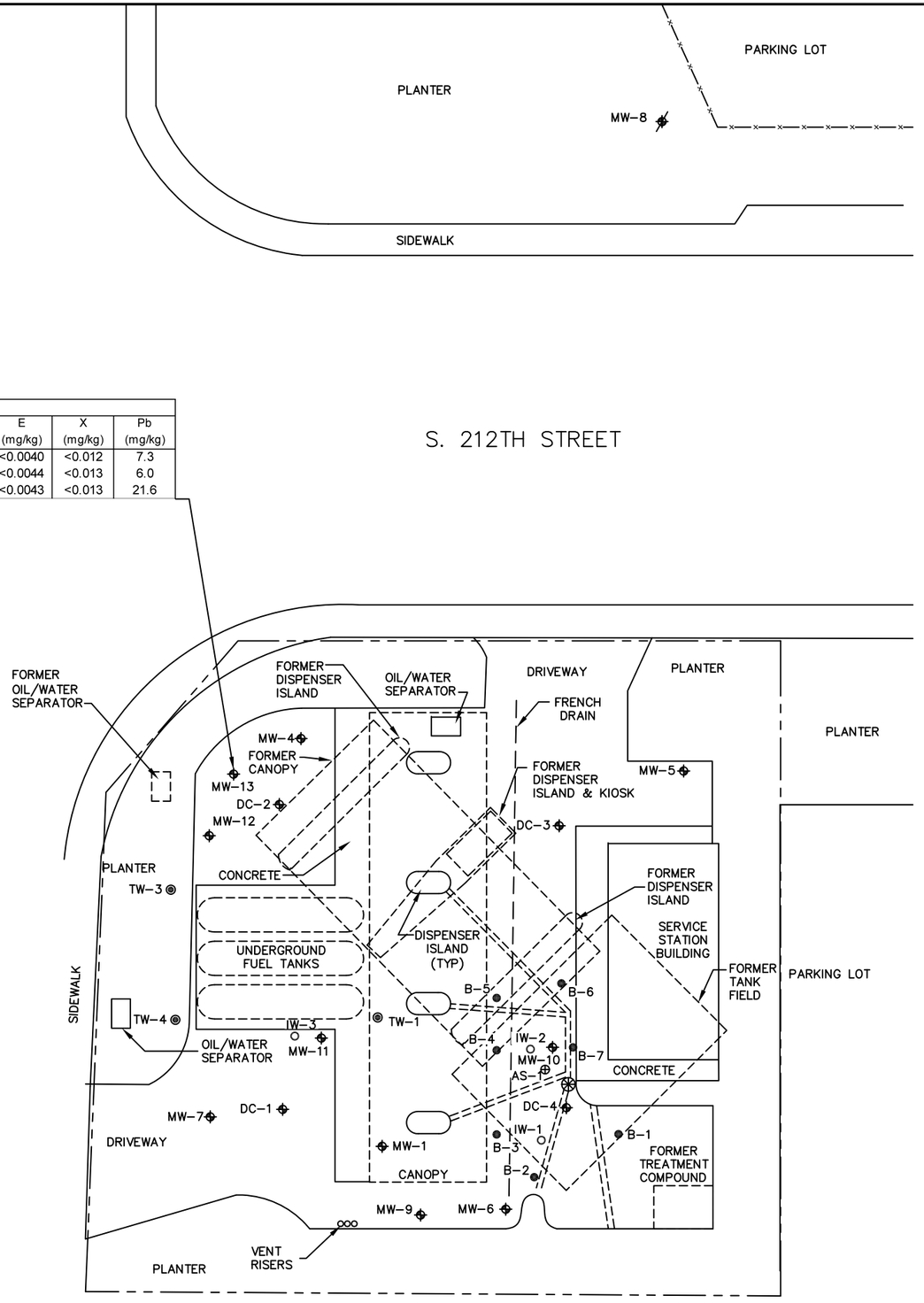

MW-13							
DATE	DEPTH (feet)	TPH-G (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	Pb (mg/kg)
10/30/12	3	<5.7	<0.0040	<0.0040	<0.0040	<0.012	7.3
10/30/12	6	<6.0	<0.0044	<0.0044	<0.0044	<0.013	6.0
10/30/12	10	<6.8	<0.0043	<0.0043	<0.0043	<0.013	21.6

N
W E
S

LEGEND

— — —	APPROXIMATE PROPERTY BOUNDARY
—x—x—x—	FENCE
MW-4	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
TW-1	TANK OBSERVATION WELL LOCATION AND DESIGNATION
MW-8	PAVED OVER MONITORING WELL LOCATION AND DESIGNATION
IW-1	INJECTION WELL LOCATION
B-1	SOIL BORING LOCATION AND DESIGNATION
AS-1	AIR SPARGE POINT LOCATION
	MANHOLE
========	UNDERGROUND UTILITIES
TPH-G	TOTAL PETROLEUM HYDROCARBONS – GASOLINE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
Pb	LEAD
<	NOT DETECTED ABOVE LIMIT NOTED
mg/kg	MILLIGRAMS PER KILOGRAM
	BOLD VALUES INDICATE EXCEEDANCE OF MTCA METHOD A CLEANUP LEVELS

NOTE:
COORDINATES ARE REFERENCED TO THE WASHINGTON NORTH COORDINATE SYSTEM, NAD 83.

0 15 30
SCALE IN FEET

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FIGURE 3

SOIL ANALYTICAL RESULTS MAP
10/30/2012

PACIFIC CONVENIENCE AND FUELS
SERVICE STATION #2705492
21208 68th AVENUE SOUTH
KENT, WASHINGTON

Appendix A

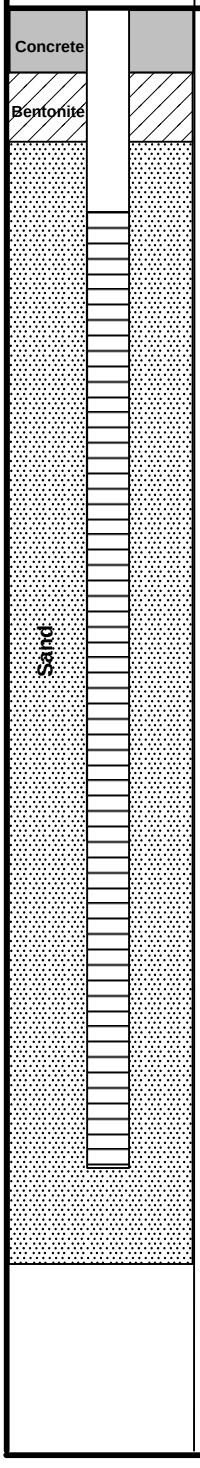
Boring Logs

Antea Group

WELL/BORING: MW-13

INSTALLATION DATE: 10/30/2012	DRILLING METHOD: HSA
PROJECT: I42705492	SAMPLING METHOD: Split Spoon
CLIENT: COP-ELT	BORING DIAMETER: 8.25"
LOCATION: 21208 68th Avenue South	BORING DEPTH: 19.5'
CITY: Kent	WELL CASING: SCH 40 PVC 2"
STATE: WA	WELL SCREEN: 3' - 18' (0.010")
DRILLER: Cascade Drilling, Inc.	SAND PACK: 2' – 19.5' (2x12)

CASING ELEVATION	-
SURVEY DATE:	-
DTW:	-



FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	DESCRIPTION/LOGGED BY: Megan Richard
					1					Cobbles present.
					2					
		DMP	0.7	NA	3			SP		Gravelly SAND: brown; 70% fine to medium sand; 30% fine to medium subrounded gravel; loose; no staining; no odor.
					4					
		DMP	1.0	3 2 2	5			ML		Sandy SILT: brown; no staining; no odor.
					6					
					7					
					8					
					9					
▽		MST WET	1.5	2 2 2	10			ML		Sandy SILT: brown at 10', turning gray at 10.5'; 80% silt; 20% fine sand; mild odor in gray stained area.
					11					
					12					
					13					
					14					
		WET	1.7	7 8 9	15			SP		SAND: black; medium grained sand; no staining; no odor.
					16					
					17					
		WET	3.8	8 9 10	18			SP		SAND: black; medium grained becoming finer; woody debris at 19.5'; no odor.
					19					
					20					
					21					
					22					

Appendix B

Field Data Sheets

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FIELD ACTIVITY LOG

BEGINNING ODOMETER:	DATE: 10-30-12
ENDING ODOMETER:	PROJECT NUMBER: 2705492.0001
FIELD ACTIVITY SUBJECT: Well Installation	RECORDED BY: MR / REVIEWED BY:

TIME	DESCRIPTION OF ACTIVITIES AND EVENTS
7:15	Mob to site.
7:45	Arrive on site.
8:00	APS (Jeff Braun) on site.
	H+S tailgate conducted.
8:15	Cascade (Dave, Steve, + Brent)
	on site.
8:30	APS off site. H+S tailgate with Cascade.
9:00	Begin air-knifing MW-13.
9:45	MW-3 air-knifed to 5.5' bgs. No utilities encountered.
10:00	Begin drilling MW-13.
	Groundwater encountered @ 11' bgs.
	Set well @ 18' w/ 15' of 0.010" screen.
	Well Developed - approximately 20 gallons purged.
13:00	off-site - headed to lab.

SKETCH:

WEATHER CONDITIONS: Cloudy - Upper 50's	CHANGES IN PLANS, SPECS., NEW ISSUES, FOLLOW UP NEEDED: 8:00 - Called Jre - figure is off. MW-13 close to MW-12 + MW-4. Can't move to planter
AMBIENT AIR MONITORING: 0 ppm	
VISITORS ONSITE: —	TELEPHONE CALLS: due to power lines overhead.
ANTEA GROUP PERSONNEL ONSITE: MR	

Appendix C

Waste Manifest Documentation

***24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 ***

SHIPPING PAPER

Lading Manifest: 761931-12

	DELIVERY DATE / JOB # 1583620
SHIPPER / CUSTOMER: PC&F STATION 2705492 / 76-Station	POINT OF CONTACT: SERVICE MANAGER / megan Richard
ADDRESS: 21208 68TH AVE. SOUTH	PHONE #: (253)872-0193 / 206-854-8799
CITY, STATE, ZIP: KENT WA 98032	
CARRIER / TRANSPORTER: BURLINGTON ENVIRONMENTAL, LLC	PHONE #: (253)383-3044
CONSIGNEE / FACILITY: BURLINGTON ENVIRONMENTAL, LLC.	POINT OF CONTACT
ADDRESS: 20245 77TH AVENUE SOUTH	PHONE #: (253)872-8030
CITY, STATE, ZIP: KENT , WA 98032	

HM	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	Containers No.	Containers Type	Total Quantity	UOM
A	NON HAZARDOUS, NON-DOT REGULATED (SOIL)	2	DM	1297	P
B	NON-HAZARDOUS LIQUID (PURGE WATER)	2	DM	686	P
C					
D					

Special Handling Instruction and Additional Information:

a) 425995-02 - NON HAZ SOIL - LP01 LPH01 STAB01 STARR01 (1) b) 443613-02 - NON HAZ PURGE WATER - WAT05 WATH05 WATH06 (2)

Placards Provided YES_____ NO._____

SHIPPER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, vessel, and rail according to applicable international and national government regulations.

		MONTH	DAY	YEAR
(SHIPPER) PRINT OR TYPE NAME: x Megan Richard	SIGNATURE: x MR As authorized agent for PC&F	01	11	13
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME: x DANIEL J. SHARLOW	SIGNATURE: x DJS	1	11	13
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME: x Evelyn Cruz	SIGNATURE: x EC	1	22	13

CONSIGNEE

Appendix D

Analytical Laboratory Reports

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 14, 2012

Joe Rounds
Antea USA
4006 148th Ave NE
Redmond, WA 98052

RE: Project: 2705492
Pace Project No.: 10211139

Dear Joe Rounds:
Enclosed are the analytical results for sample(s) received by the laboratory on October 30, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen Jang for
Jennifer Gross
jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Brandon Bickler, Antea USA
Thuan Bui, Antea USA
Eric Larsen, Antea USA
Justin Miller, ELT_Antea Group, Washington
Matthew Miller, ELT_Antea Group, Washington
Megan Richard, Antea USA
Dan Rowlands, Antea USA
Hitomi Somics, Antea USA
Bryan Taylor, BP_Antea USA

Pace Analytical Services, Inc.
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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 2705492
Pace Project No.: 10211139

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: 2705492
Pace Project No.: 10211139

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10211139001	**MW-13-3**	Solid	10/30/12 09:30	10/30/12 12:50
10211139002	**MW-13-6**	Solid	10/30/12 10:15	10/30/12 12:50
10211139003	**MW-13-10**	Solid	10/30/12 10:30	10/30/12 12:50
10211139004	**Trip Blanks**	Solid	10/30/12 06:00	10/30/12 12:50

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SAMPLE ANALYTE COUNT

Project: 2705492
Pace Project No.: 10211139

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10211139001	**MW-13-3**	NWTPH-Gx/8021	KT1	2	PASI-M
		EPA 6010	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260	CNC	8	PASI-M
10211139002	**MW-13-6**	NWTPH-Gx/8021	KT1	2	PASI-M
		EPA 6010	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260	CNC	8	PASI-M
10211139003	**MW-13-10**	NWTPH-Gx/8021	KT1	2	PASI-M
		EPA 6010	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260	CNC	8	PASI-M
10211139004	**Trip Blanks**	NWTPH-Gx/8021	KT1	2	PASI-M
		EPA 8260	CNC	8	PASI-M

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 2705492
Pace Project No.: 10211139

Sample: MW-13-3 **Lab ID: 10211139001** Collected: 10/30/12 09:30 Received: 10/30/12 12:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx/8021 GCV	Analytical Method: NWTPH-Gx/8021 Preparation Method: NWTPH-Gx/8021							
TPH as Gas	ND	mg/kg	5.7	1	11/12/12 12:55	11/12/12 21:43	.....	
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%	75-125	1	11/12/12 12:55	11/12/12 21:43	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**7.3**	mg/kg	0.27	1	11/06/12 09:28	11/07/12 12:27	7439-92-1	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**12.9**	%	0.10	1		11/07/12 00:00		
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0040	1	11/02/12 15:13	11/05/12 20:28	71-43-2	
Ethylbenzene	ND	mg/kg	0.0040	1	11/02/12 15:13	11/05/12 20:28	100-41-4	
Toluene	ND	mg/kg	0.0040	1	11/02/12 15:13	11/05/12 20:28	108-88-3	
Xylene (Total)	ND	mg/kg	0.012	1	11/02/12 15:13	11/05/12 20:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	75-125	1	11/02/12 15:13	11/05/12 20:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	75-138	1	11/02/12 15:13	11/05/12 20:28	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1	11/02/12 15:13	11/05/12 20:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1	11/02/12 15:13	11/05/12 20:28	460-00-4	

Sample: MW-13-6 **Lab ID: 10211139002** Collected: 10/30/12 10:15 Received: 10/30/12 12:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx/8021 GCV	Analytical Method: NWTPH-Gx/8021 Preparation Method: NWTPH-Gx/8021							
TPH as Gas	ND	mg/kg	6.0	1	11/12/12 12:55	11/12/12 22:04	.....	
Surrogates								
a,a,a-Trifluorotoluene (S)	80	%	75-125	1	11/12/12 12:55	11/12/12 22:04	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**6.0**	mg/kg	0.32	1	11/06/12 09:28	11/07/12 12:33	7439-92-1	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**21.7**	%	0.10	1		11/07/12 00:00		
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0044	1	11/02/12 15:13	11/05/12 20:45	71-43-2	
Ethylbenzene	ND	mg/kg	0.0044	1	11/02/12 15:13	11/05/12 20:45	100-41-4	
Toluene	ND	mg/kg	0.0044	1	11/02/12 15:13	11/05/12 20:45	108-88-3	
Xylene (Total)	ND	mg/kg	0.013	1	11/02/12 15:13	11/05/12 20:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%	75-125	1	11/02/12 15:13	11/05/12 20:45	1868-53-7	

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ANALYTICAL RESULTS

Project: 2705492
Pace Project No.: 10211139

Sample: MW-13-6 **Lab ID: 10211139002** Collected: 10/30/12 10:15 Received: 10/30/12 12:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A							
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	75-138	1	11/02/12 15:13	11/05/12 20:45	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1	11/02/12 15:13	11/05/12 20:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1	11/02/12 15:13	11/05/12 20:45	460-00-4	

Sample: MW-13-10 **Lab ID: 10211139003** Collected: 10/30/12 10:30 Received: 10/30/12 12:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx/8021 GCV	Analytical Method: NWTPH-Gx/8021 Preparation Method: NWTPH-Gx/8021							
TPH as Gas	ND	mg/kg	6.8	1	11/12/12 12:55	11/12/12 22:45	.....	
Surrogates								
a,a,a-Trifluorotoluene (S)	98	%	75-125	1	11/12/12 12:55	11/12/12 22:45	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**21.6**	mg/kg	0.36	1	11/06/12 09:28	11/07/12 12:39	7439-92-1	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**24.1**	%	0.10	1		11/07/12 00:00		
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0043	1	11/02/12 15:13	11/05/12 21:03	71-43-2	
Ethylbenzene	ND	mg/kg	0.0043	1	11/02/12 15:13	11/05/12 21:03	100-41-4	
Toluene	ND	mg/kg	0.0043	1	11/02/12 15:13	11/05/12 21:03	108-88-3	
Xylene (Total)	ND	mg/kg	0.013	1	11/02/12 15:13	11/05/12 21:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	75-125	1	11/02/12 15:13	11/05/12 21:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	75-138	1	11/02/12 15:13	11/05/12 21:03	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1	11/02/12 15:13	11/05/12 21:03	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125	1	11/02/12 15:13	11/05/12 21:03	460-00-4	

Sample: Trip Blanks **Lab ID: 10211139004** Collected: 10/30/12 06:00 Received: 10/30/12 12:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx/8021 GCV	Analytical Method: NWTPH-Gx/8021 Preparation Method: NWTPH-Gx/8021							
TPH as Gas	ND	mg/kg	5.0	1	11/12/12 12:55	11/12/12 21:23	.....	
Surrogates								
a,a,a-Trifluorotoluene (S)	81	%	75-125	1	11/12/12 12:55	11/12/12 21:23	98-08-8	
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0040	1	11/02/12 15:13	11/05/12 18:43	71-43-2	

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ANALYTICAL RESULTS

Project: 2705492
Pace Project No.: 10211139

Sample: Trip Blanks **Lab ID: 10211139004** Collected: 10/30/12 06:00 Received: 10/30/12 12:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5035A							
Ethylbenzene	ND	mg/kg	0.0040	1	11/02/12 15:13	11/05/12 18:43	100-41-4	
Toluene	ND	mg/kg	0.0040	1	11/02/12 15:13	11/05/12 18:43	108-88-3	
Xylene (Total)	ND	mg/kg	0.012	1	11/02/12 15:13	11/05/12 18:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%	75-125	1	11/02/12 15:13	11/05/12 18:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	75-138	1	11/02/12 15:13	11/05/12 18:43	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1	11/02/12 15:13	11/05/12 18:43	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	1	11/02/12 15:13	11/05/12 18:43	460-00-4	

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QUALITY CONTROL DATA

Project: 2705492
Pace Project No.: 10211139

QC Batch: GCV/10017 Analysis Method: NWTPH-Gx/8021
QC Batch Method: NWTPH-Gx/8021 Analysis Description: NWTPH-Gx Solid GCV
Associated Lab Samples: 10211139001, 10211139002, 10211139003, 10211139004

METHOD BLANK: 1331399 Matrix: Solid
Associated Lab Samples: 10211139001, 10211139002, 10211139003, 10211139004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	mg/kg	ND	5.0	11/12/12 21:02	
a,a,a-Trifluorotoluene (S)	%	80	75-125	11/12/12 21:02	

LABORATORY CONTROL SAMPLE & LCSD: 1331400 1331401

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	50	50.0	47.4	100	95	75-135	5	20	
a,a,a-Trifluorotoluene (S)	%				76	83	75-125			

MATRIX SPIKE SAMPLE: 1331402

Parameter	Units	10211139001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
TPH as Gas	mg/kg	ND	57.8	57.8	100	70-130	
a,a,a-Trifluorotoluene (S)	%				100	75-125	

SAMPLE DUPLICATE: 1331403

Parameter	Units	10211139002 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	mg/kg	ND	ND		30	
a,a,a-Trifluorotoluene (S)	%	80	96	12		

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QUALITY CONTROL DATA

Project: 2705492
Pace Project No.: 10211139

QC Batch: MPRP/36244 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 10211139001, 10211139002, 10211139003

METHOD BLANK: 1327134 Matrix: Solid
Associated Lab Samples: 10211139001, 10211139002, 10211139003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.30	11/07/12 11:43	

LABORATORY CONTROL SAMPLE: 1327135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	47.2	42.5	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1327136 1327137

Parameter	Units	10210564001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	5.2	37.3	42.3	37.7	40.5	87	83	75-125	7	30	

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QUALITY CONTROL DATA

Project: 2705492
Pace Project No.: 10211139

QC Batch: MPRP/36271 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10211139001, 10211139002, 10211139003

SAMPLE DUPLICATE: 1327937

Parameter	Units	10210458035 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.6	7.4	3	30	

SAMPLE DUPLICATE: 1327938

Parameter	Units	10210333009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.1	22.2	.4	30	

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QUALITY CONTROL DATA

Project: 2705492
Pace Project No.: 10211139

QC Batch: MSV/21998 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035 Low Level
Associated Lab Samples: 10211139001, 10211139002, 10211139003, 10211139004

METHOD BLANK: 1326876 Matrix: Solid
Associated Lab Samples: 10211139001, 10211139002, 10211139003, 10211139004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0040	11/05/12 18:25	
Ethylbenzene	mg/kg	ND	0.0040	11/05/12 18:25	
Toluene	mg/kg	ND	0.0040	11/05/12 18:25	
Xylene (Total)	mg/kg	ND	0.012	11/05/12 18:25	
1,2-Dichloroethane-d4 (S)	%	102	75-138	11/05/12 18:25	
4-Bromofluorobenzene (S)	%	100	75-125	11/05/12 18:25	
Dibromofluoromethane (S)	%	106	75-125	11/05/12 18:25	
Toluene-d8 (S)	%	100	75-125	11/05/12 18:25	

LABORATORY CONTROL SAMPLE: 1326877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.05	0.053	106	73-126	
Ethylbenzene	mg/kg	.05	0.056	112	75-130	
Toluene	mg/kg	.05	0.054	109	75-126	
Xylene (Total)	mg/kg	.15	0.17	112	75-129	
1,2-Dichloroethane-d4 (S)	%			95	75-138	
4-Bromofluorobenzene (S)	%			102	75-125	
Dibromofluoromethane (S)	%			99	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326878 1326879

Parameter	Units	10210219003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	<4.4 ug/kg	.051	.057	0.054	0.059	106	103	66-137	8	30	
Ethylbenzene	mg/kg	<4.4 ug/kg	.051	.057	0.053	0.058	105	102	69-147	8	30	
Toluene	mg/kg	<4.4 ug/kg	.051	.057	0.054	0.058	105	101	63-144	7	30	
Xylene (Total)	mg/kg	<13.1 ug/kg	.15	.17	0.16	0.17	105	99	66-149	5	30	
1,2-Dichloroethane-d4 (S)	%						102	97	75-138			
4-Bromofluorobenzene (S)	%						99	101	75-125			
Dibromofluoromethane (S)	%						103	101	75-125			
Toluene-d8 (S)	%						99	101	75-125			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 2705492
Pace Project No.: 10211139

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326880 1326881

Parameter	Units	10210453035 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	<5.0 ug/kg	.066	.054	0.073	0.060	111	109	66-137	20	30	
Ethylbenzene	mg/kg	<5.0 ug/kg	.066	.054	0.059	0.047	90	87	69-147	22	30	
Toluene	mg/kg	<5.0 ug/kg	.066	.054	0.067	0.054	102	99	63-144	22	30	
Xylene (Total)	mg/kg	<14.9 ug/kg	.2	.16	0.17	0.14	89	86	66-149	22	30	
1,2-Dichloroethane-d4 (S)	%						97	100	75-138			
4-Bromofluorobenzene (S)	%						103	103	75-125			
Dibromofluoromethane (S)	%						101	103	75-125			
Toluene-d8 (S)	%						101	100	75-125			

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 2705492
Pace Project No.: 10211139

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705492
Pace Project No.: 10211139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10211139001	**MW-13-3**	NWTPH-Gx/8021	GCV/10017	NWTPH-Gx/8021	GCV/10018
10211139002	**MW-13-6**	NWTPH-Gx/8021	GCV/10017	NWTPH-Gx/8021	GCV/10018
10211139003	**MW-13-10**	NWTPH-Gx/8021	GCV/10017	NWTPH-Gx/8021	GCV/10018
10211139004	**Trip Blanks**	NWTPH-Gx/8021	GCV/10017	NWTPH-Gx/8021	GCV/10018
10211139001	**MW-13-3**	EPA 3050	MPRP/36244	EPA 6010	ICP/14851
10211139002	**MW-13-6**	EPA 3050	MPRP/36244	EPA 6010	ICP/14851
10211139003	**MW-13-10**	EPA 3050	MPRP/36244	EPA 6010	ICP/14851
10211139001	**MW-13-3**	ASTM D2974	MPRP/36271		
10211139002	**MW-13-6**	ASTM D2974	MPRP/36271		
10211139003	**MW-13-10**	ASTM D2974	MPRP/36271		
10211139001	**MW-13-3**	EPA 5035A	MSV/21978	EPA 8260	MSV/21998
10211139002	**MW-13-6**	EPA 5035A	MSV/21978	EPA 8260	MSV/21998
10211139003	**MW-13-10**	EPA 5035A	MSV/21978	EPA 8260	MSV/21998
10211139004	**Trip Blanks**	EPA 5035A	MSV/21978	EPA 8260	MSV/21998

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2514111

Page: 1 of 1

1625832

15 of 19

Section A Required Client Information:

Company:	Antea Group
Address:	4006 148th Ave NE Redmond, WA 98052
Email To:	joe.rounds@anteagroup.com
Phone:	206-484-2748
Fax:	425-869-1692
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Joe Rounds
Copy To:	Megan Richard
Purchase Order No.:	
Project Name:	ELT
Project Number:	2705492.0001

Section C Invoice Information: Same as Left

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Karen Jang
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: WA

Section D Required Client Information

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Sodium bisulfate	Analysis Test Y/N	BTEX 8260	NWTPH-Gx	Total Pb	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-13-3	SL	G			10-30-12	9:30		6	2						2	2		X	X	X		
2	MW-13-6	SL	G			10-30-12	10:15		6	2						2	2		X	X	X		
3	MW-13-10	SL	G			10-30-12	10:30		6	2						2	2		X	X	X		
4	Trip Blanks	-	-			10-30-12	6:00		4							2	2		X	X			
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Megan Richard - Antea	10-30-12	12:50	Jyothi Swamy	10/30/12	12:20	0.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Megan Richard

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-30-12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Container Count

2514111

CLIENT: Antea

COC PAGE 1 of 1
COC ID# 1625832

Trip Blank(s) Provided? Y / N

Pace Analytical
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Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG				Comments
1										1	1	2	2						
2										1	1	2	2						
3										1	1	2	2						
4												2	2						
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can

Sample Condition Upon Receipt

Pace Analytical

Client Name: Antea Project # 2514111

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other foam bits Temp. Blank ☑ Yes ☐ No

Thermometer Used IR1 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8°C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing ≤ 6°C

Date and Initials of person examining contents: MS 10/30/12

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.	
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.	
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.	
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.	
Follow Up / Hold Analysis Requested:	☐Yes ☑No ☐N/A	8.	
Sufficient Volume:	☑Yes ☐No ☐N/A	9.	
Correct Containers Used:	☑Yes ☐No ☐N/A	10.	
-Pace Containers Used:	☑Yes ☐No ☐N/A		
Containers Intact:	☑Yes ☐No ☐N/A	11.	
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	12.	
Sample Labels match COC:	☑Yes ☐No ☐N/A	13.	
-Includes date/time/ID/Analysis Matrix: Soil			
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A		
Exceptions: VOA, coliform, TOC, O&G	☐Yes ☐No ☑N/A	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	15.	
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	16.	
Trip Blanks Present:	☑Yes ☐No ☐N/A	17.	
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A		
Pace Trip Blank Creation Date:			

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Karen Jang **Date:** 10/31/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

51345
Line 2

1132

10211139

Chain of Custody

Pace Analytical®
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Workorder: 2514111 **Workorder Name:2705492** **Owner Received Date: 10/30/2012** **Results Requested By: 11/13/2012**

Report to	Subcontract to
Karen Jang Pace Analytical Services, Inc. 940 South Harney Seattle WA 98108 Phone (206)767-5060 Fax (206)767-5063	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: NAOH	Preserved Containers: Unpreserved	Requested Analysis: 8260 BTEX	NWTPH-Gx	6010 Total Pb	Dry weights	LAB USE ONLY
1	MW-13-3	PS	10/30/2012 09:30	2514111001	Solid	1	2	X	X	X	X	10211139001
2	MW-13-6	PS	10/30/2012 10:15	2514111002	Solid	1	2					002
3	MW-13-10	PS	10/30/2012 10:30	2514111003	Solid	1	2					003
4	Trip Blanks	PS	10/30/2012 06:00	2514111004	Solid	1						004
5												

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	11/1/12 800	[signature]	11-2-12 805
2				
3				

Comments: Please see attached profile list for list of RL's.

Cooler Temperature on Receipt 2.5 °C	Custody Seal (Y) or N	Received on Ice (Y) or N	Samples Intact (Y) or N

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: 22Aug2012 Page 1 of 1
	Document No.: F-MN-L-213-rev.04	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace, WA

Project #: WO# 10211139

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7939 5844 5092 950

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: Temp Blank? ☑ Yes ☐ No

Thermometer Used: ☑ B88A912167504 ☐ 80512447 Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.5 Biological Tissue Frozen? ☐ Yes ☐ No Date and Initials of Person Examining Contents: CW 11.2.12

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☑ No	☐ N/A	10. CW 11.2.12
Filtered Volume Received for Dissolved Tests?	☐ Yes	☑ No	☐ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☑ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No	☐ N/A	
	☑ Yes	☐ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☑ No	☐ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☑ No	☐ N/A	2V69M, 2DG9B
Pace Trip Blank Lot # (If purchased): No lot #				

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time: Field Data Required? ☐ Yes ☐ No

Comments/Resolution:

Project Manager Review: Karen Jang **Date:** 11/05/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)