



**CONESTOGA-ROVERS
& ASSOCIATES**

www.CRAworld.com



Remediation Progress Report Fourth Quarter 2013

Phillips 66 Renton Terminal
2423 Lind Avenue Southwest
Renton, Washington

Agreed Order No. DE 7882
Agency No. 2070

Conestoga-Rovers & Associates

20818 44th Ave. West, Suite 190
Lynnwood, Washington 98036

July 2014 • 070496 • Report No. 34



Partners in
Sustainability



CONESTOGA-ROVERS
& ASSOCIATES

www.CRAworld.com

Remediation Progress Report Fourth Quarter 2013

Phillips 66 Renton Terminal
2423 Lind Avenue Southwest
Renton, Washington

Agreed Order No. DE 7882
Agency No. 2070

A handwritten signature in black ink that reads "Matthew Davis".

Matthew Davis, LG

Edwin Turner, LG

Conestoga-Rovers & Associates
20818 44th Avenue West, Ste 190
Lynnwood, Washington 98036

Table of Contents

	Page
Section 1.0 Introduction.....	1
Section 2.0 Description of Remediation Systems and Operational Status	1
Section 3.0 Fourth Quarter 2013 Remediation Activities	3
Section 4.0 Summary of Compliance Sampling.....	4
Section 5.0 Summary of System Performance.....	5
Section 6.0 Conclusions.....	7

List of Figures (Following Text)

Figure 1	Vicinity Map
Figure 2	Site Plan
Figure 3	Phillips 66 System - Process and Instrumentation Diagram
Figure 4	ExxonMobil/BP System - Process and Instrumentation Diagram
Figure 5	Phillips 66 System - Benzene Mass Removal Graph
Figure 6	Phillips 66 System - TPH Mass Removal Graph
Figure 7	ExxonMobil/BP System - Benzene Mass Removal Graph
Figure 8	ExxonMobil/BP System - TPH Mass Removal Graph
Figure 9	Groundwater Elevation Contours – November 2013

**List of Tables
(Following Text)**

- | | |
|---------|--|
| Table 1 | Phillips 66 System - Summary of Operational Parameters |
| Table 2 | ExxonMobil/BP System - Summary of Operational Parameters |
| Table 3 | Phillips 66 System - Dissolved Phase Analytical Data |
| Table 4 | Phillips 66 System - Vapor Phase Analytical Data |
| Table 5 | ExxonMobil/BP System - Dissolved Phase Analytical Data |
| Table 6 | ExxonMobil/BP System - Vapor Phase Analytical Data |
| Table 7 | Phillips 66 System - Mass Removal Summary |
| Table 8 | ExxonMobil/BP System - Mass Removal Summary |

List of Appendices

- | | |
|------------|-------------------------------|
| Appendix A | Laboratory Analytical Reports |
|------------|-------------------------------|

Section 1.0 Introduction

This remediation progress report summarizes the field activities, system operational parameters, compliance sampling results, and system performance for the period of October 1, 2013 through December 31, 2013 at the Phillips 66 Company Renton Terminal located at 2423 Lind Avenue Southwest, Renton, Washington (Site, Figure 1). On August 5, 2010 ExxonMobil Oil Corporation, ConocoPhillips (now Phillips 66) Risk Management and Remediation, and The Washington State Department of Ecology (Ecology) entered into an Agreed Order (Order No. DE 7882). Prior to the agreed order, the site was divided into two separate sites; the northern portion associated with the pre-1990 release in the loading rack area managed by BP and ExxonMobil and the southern portion associated with the November 2002 release from AST No. 2 managed by Phillips 66. The agreed order was set in place to combine the sites and coordinate assessment and remediation activities between the two responsible parties. The purpose of this quarterly remediation progress report is to present the results of and evaluate the performance of the interim remedial actions. Remediation activities were completed in accordance with the Interim Action Work Plans included as an appendix to the Agreed Order and the site-specific Health and Safety Plan (HASP).

Section 2.0 Description of Remediation Systems and Operational Status

Phillips 66 Remediation System

The Phillips 66 remediation system is a dual-phase extraction (DPE) system consisting of six extraction wells (RWx-2, LAIx-4, LAIx-5, LAIx-7, LAIx-8, and LAIx-9) from which both soil vapor and groundwater are extracted and three extraction wells (LAIx-6, HWx-1W, and HWx-1E) from which only groundwater is extracted. The locations of the extraction wells are presented on Figure 2.

Extracted groundwater is pumped from the wells to a groundwater treatment system consisting of an oil/water separator, air stripper, solids settling tank, particulate filters, and 2-stage liquid-phase granular activated carbon (GAC) system. The treated water effluent is discharged to the combined sanitary/stormwater system under King County Discharge Authorization Permit No. 4057-03. Air effluent from the air stripper is routed to a 3-stage vapor-phase GAC vessel system that is part of the soil vapor treatment system.

Extracted soil vapor is pulled from the wells via vacuum to a soil vapor treatment system consisting of an air-water separator and the 3-stage GAC vessel system. The treated air effluent

is discharged to the atmosphere under Puget Sound Clean Air Agency (PSCAA) discharge permit No. 9648. A process and instrumentation diagram is presented on Figure 3.

During the reporting period, the Phillips 66 remediation system ran for approximately 63 days. Adjusted for routine maintenance shutdowns, the system uptime was approximately 85 percent. The following system shutdowns occurred during the reporting period:

- October 17, 2013 – System down due to an air stripper sump high level alarm
- October 24, 2013 - System down due to a transfer tank high level alarm
- November 7, 2013 – System down due to a transfer tank high level alarm
- December 2, 2013 – System down due to freezing temperatures

ExxonMobil/BP Remediation System

The ExxonMobil/BP remediation system is a groundwater extraction (GWE) system consisting of two GWE wells (R-1 and R-2). The locations of the system wells are presented on Figure 2.

Extracted groundwater is pumped from the wells to a groundwater treatment system consisting of an oil-water separator and air stripper. The treated water effluent is discharged to the combined sanitary/stormwater system under King County Discharge Authorization Permit 264-05. Air effluent from the air stripper is discharged to the atmosphere under PSCAA discharge permit No. 3601. A process and instrumentation diagram is presented on Figure 4.

During the reporting period, the ExxonMobil/BP Remediation System ran for approximately 45 days. Adjusted for routine maintenance shutdowns, the system uptime was approximately 48.7 percent. The following system shutdowns occurred during the reporting period:

- October 11, 2013 – System down due to an air stripper transfer tank high level alarm
- October 17, 2013 – System down due to an air stripper transfer tank high level alarm
- October 24, 2013 – System down due to an air stripper transfer tank high level alarm
- November 15, 2013 – System down due to an air stripper transfer tank high level alarm
- November 22, 2013 - System down due to an air stripper transfer tank high level alarm
- December 2, 2013 – System was shut down due to freezing temperatures
- December 23, 2013 – System down due to a blower low pressure alarm
- January 1, 2014 – System was down due to an air stripper transfer tank high level alarm

Section 3.0 Fourth Quarter 2013 Remediation Activities

Phillips 66 Remediation System

Remediation activities for the Phillips 66 remediation system consist of equipment maintenance, performance monitoring, monthly compliance sampling, system shutdown response, and troubleshooting/repairs. Scheduled visits for routine O&M are made once a week. Performance monitoring and monthly compliance sampling was performed on October 3, 2013, November 1, 2013, and December 20, 2013. Hydraulic monitoring to assess containment of the contaminant plume was performed on November 25, 2013. A summary of the operational data collected for the Phillips 66 system is presented in Table 1.

The following equipment repairs and maintenance activities were completed:

- October 11, 2013 – Cleaned air stripper influent flow meter

ExxonMobil/BP Remediation System

Remediation activities for the ExxonMobil/BP remediation system consist of equipment maintenance, performance monitoring, monthly compliance sampling, system shutdown response, and troubleshooting/repairs. Scheduled visits for routine O&M are made once a week. Performance monitoring and monthly compliance sampling was performed on October 3, 2013, November 1, 2013, and December 20, 2013. Hydraulic monitoring to assess containment of the contaminant plume was performed on November 25, 2013. A summary of the operational data collected for the ExxonMobil/BP system is presented in Table 2.

The following equipment repairs and maintenance activities were completed:

- October 17, 2013 – Cleaned and inspected float switch on feed tank
- November 7, 2013 – Adjusted float switch in feed tank
- November 22, 2013– Adjusted float switch in feed tank

Section 4.0 Summary of Compliance Sampling

Phillips 66 Remediation System

The King County Discharge Authorization for the Phillips 66 system requires semi-annual compliance sampling. Samples were collected monthly during this period to monitor performance and verify compliance on October 3, 2013, November 1, 2013, and December 20, 2013. Groundwater samples were collected from the wellfield influent, air stripper effluent, midpoint between the two GAC vessels, and the treated water effluent. Samples were analyzed for total petroleum hydrocarbons quantified as gasoline (TPHg) per Ecology Method NWTPH-Gx, TPH quantified as diesel (TPHd) and TPH quantified as oil (TPHo) per Ecology Method NWTPH-Dx, benzene, toluene, ethylbenzene, total xylenes (BTEX) per EPA Method 8260, and fats, oils, and grease (FOG) per EPA Method 1664A. The point of compliance for the permit is after the last GAC vessel. All samples collected demonstrated compliance with the permit conditions. Laboratory analytical reports are presented in Appendix A. Water compliance sampling data is presented on Table 3.

The PSCAA air discharge permit for the Phillips 66 system requires monthly compliance sampling for TPHg and benzene. Compliance samples were collected on October 3, 2013, November 1, 2013, and December 20, 2013. Air samples were collected from the soil vapor extraction (SVE) wellfield influent, air stripper effluent, total vapor-phase GAC influent, midpoint between GAC vessels 1 and 2, midpoint between GAC vessels 2 and 3, and the treated vapor effluent. Samples were analyzed for TPHg and BTEX per EPA Method TO-14. All samples collected demonstrated compliance with permit conditions. Air compliance sampling data is presented on Table 4.

ExxonMobil/BP Remediation System

The King County Discharge Authorization for the ExxonMobil/BP system requires semi-annual compliance sampling. Samples were collected monthly this period to monitor performance and verify compliance on October 3, 2013, November 1, 2013, and December 20, 2013. Groundwater samples were collected from the well R-1 influent, well R-2 influent, total influent, and treated water effluent. Samples were analyzed for TPHg per Ecology Method NWTPH-Gx, TPHd and TPHo per Ecology Method NWTPH-Dx, BTEX per EPA Method 8260, and FOG per EPA Method 1664A (only in December). The point of compliance for the permit is at the treated water effluent. All samples collected demonstrated compliance with the permit conditions. Laboratory analytical reports are presented in Appendix A. Water compliance sampling data is presented on Table 5.

The PSCAA air discharge permit for the ExxonMobil/BP system requires monthly compliance sampling for TPHg and BTEX. Compliance samples were collected on October 3, 2013, November 1, 2013, and December 20, 2013. Air samples were collected from the air stripper effluent and analyzed for TPHg and BTEX per EPA Method TO-14. All samples collected demonstrated compliance with permit conditions. Air compliance sampling data is presented on Table 6.

Section 5.0 Summary of System Performance

Phillips 66 Remediation System

During the reporting period, the volume of groundwater extracted has increased from the previous reporting period and is consistent with historical volumes. The increase in groundwater extraction volumes can be attributed primarily to increased up time and a higher water table. Influent contaminant concentrations in extracted groundwater have decreased from previous reporting periods. Concentrations continue an overall downward trend. Influent concentrations will continue to be monitored to determine if this trend continues.

SVE well field influent concentrations have decreased from the previous reporting period, which is consistent with the downward trend in concentrations observed over the last year. Mass removal rates and total mass removed are presented on Table 7 and Figures 5 and 6.

During the reporting period, the Phillips 66 DPE system operated consistently with the exception of the downtimes noted in Section 2.0. The process volumes and mass removed for the reporting period are as follows:

<i>Period</i>	<i>SVE Hours</i>	<i>Gallons of Water extracted</i>	<i>Pounds of TPH Removed</i>
Prior to October 3, 2013	77,446.3	4,445,527	53,901.6
October 3, 2013 to January 7, 2014	1539.3	152,417	26.8
Since System Startup	78,985.6	4,597,944	53,928.4

ExxonMobil/BP Remediation System

During the reporting period, the volume of groundwater extracted has increased from the previous reporting period. The increase in the volume of water extracted is due to a lower

water table during the dry season and is consistent with historical volumes. Influent contaminant concentrations continue to be significantly lower than concentrations in monitoring wells surrounding the extraction wells. Based on influent concentrations, the current system does not appear to be effectively capturing areas of the plume with the highest concentrations. Contaminant removal rates for the ExxonMobil/BP system are consistent with historical removal rates. Mass removal rates and total mass removed are presented on Table 8 and Figures 7 and 8.

During the reporting period the ExxonMobil/BP groundwater extraction system operated consistently with the exception of the downtimes noted in Section 2.0. The process volumes and mass removed for the reporting period are as follows:

<i>Period</i>	<i>Gallons of Water extracted</i>	<i>Pounds of TPH Removed</i>
January 2007 to October 3, 2013	4,563,198	219.71
October 3, 2013 to January 7, 2014	179,640	6.14
Since January 2007	4,742,838	225.85

* Data prior to January 2007 not available

The primary purpose of the Phillips 66 and ExxonMobil/BP remediation systems is to remove contaminant mass from the subsurface and hydraulically contain the groundwater contaminant plume to prevent further migration. Hydraulic monitoring was performed during the groundwater sampling activities. Procedures for hydraulic monitoring are included in the Site Interim Compliance Monitoring Plan (CMP). Groundwater elevation contours in the area of the Phillips 66 system indicate radial flow from the middle of the tank farm area, which is consistent with historical flow patterns at the site. Groundwater elevation contours in the northern portion where the ExxonMobil/BP system is operating indicate a flow direction inward toward trench R-1 and west toward trench R-2, consistent with historical groundwater flow directions. Groundwater elevation contours are presented on Figure 9.

Section 6.0 Conclusions

Phillips 66 Remediation System

The Phillips 66 remediation system continues to operate consistent with historical performance. The current system size and configuration does not allow the SVE system to perform optimally. Isolating vacuum to higher concentration wells and reducing vacuum dilution would dramatically improve the performance of the SVE system. This, however, would require significant changes to the current system components. These system improvements will be addressed as part of the final remedial action.

Groundwater flow directions and gradients on the southern portion of the Site are consistent with historical groundwater flow directions. The GWE portion of the Phillips 66 system does not appear to have a significant effect on flow directions and gradients. Groundwater quality data in wells to the south (downgradient) of tank 2 indicate that despite apparent inadequate groundwater control, contaminant migration is not likely occurring.

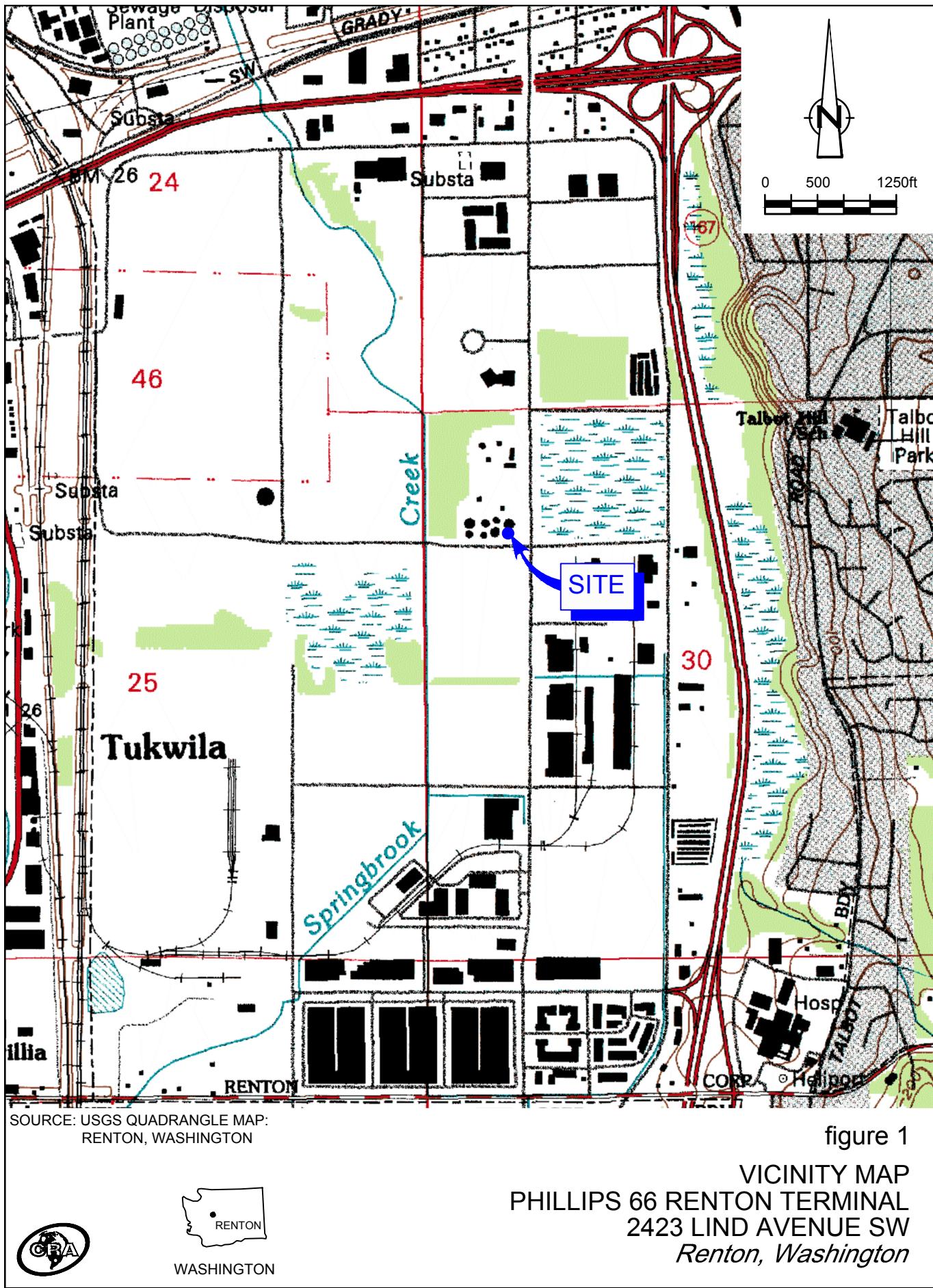
ExxonMobil/BP Remediation System

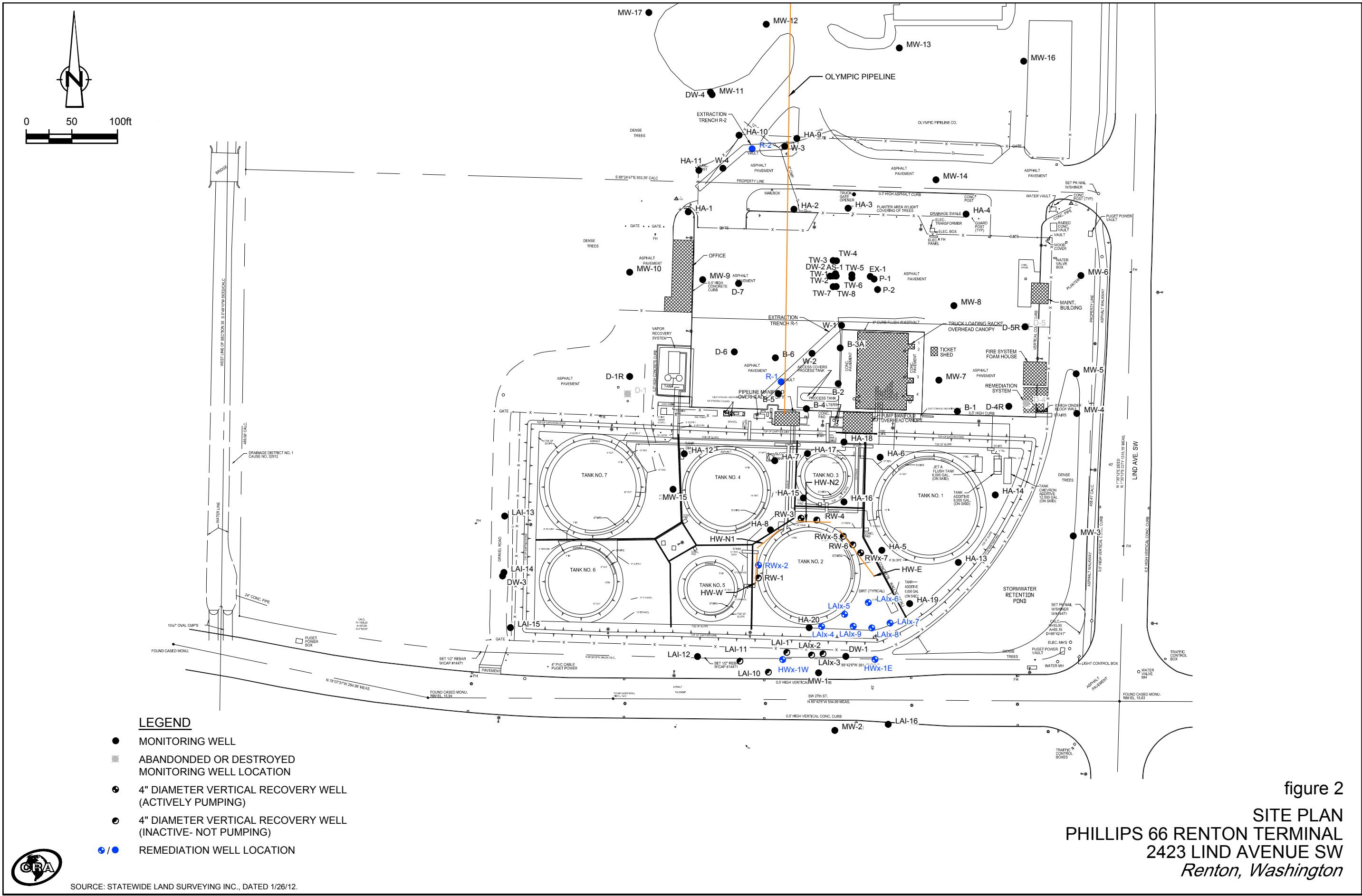
The ExxonMobil/BP system continues to operate consistent with historical performance. Groundwater elevation contours were consistent with historical groundwater flow directions. Based on the results of the recent remedial investigation, a significant portion of the contaminant plume to the north is outside of the influence of the current remediation system and will be addressed as part of the final remedial action.

The following activities will be performed during 1st Quarter 2014:

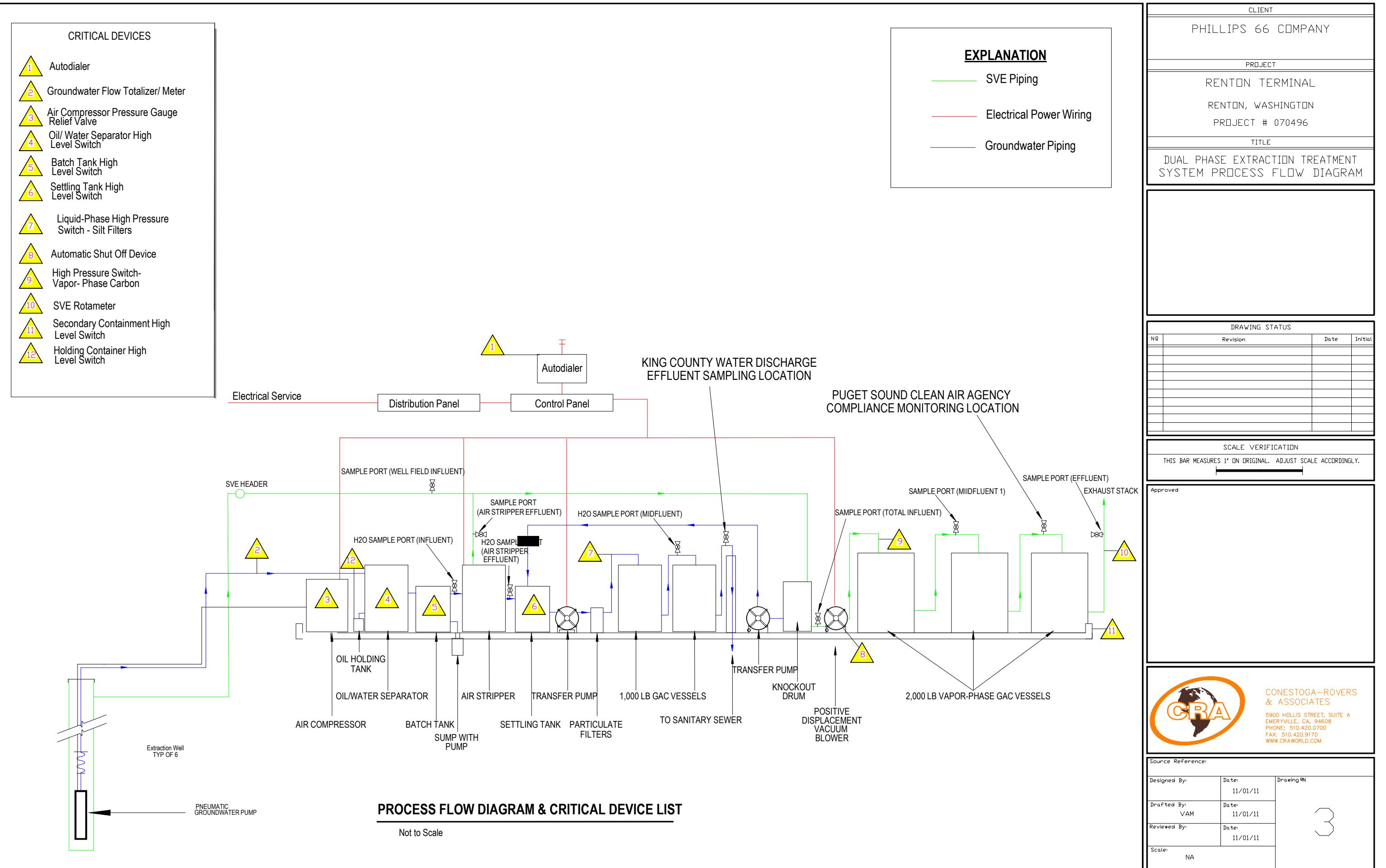
- O&M of the current remediation systems in accordance with the CMP
- Groundwater sampling and hydraulic monitoring in accordance with the CMP
- Activities in preparation of new system installation

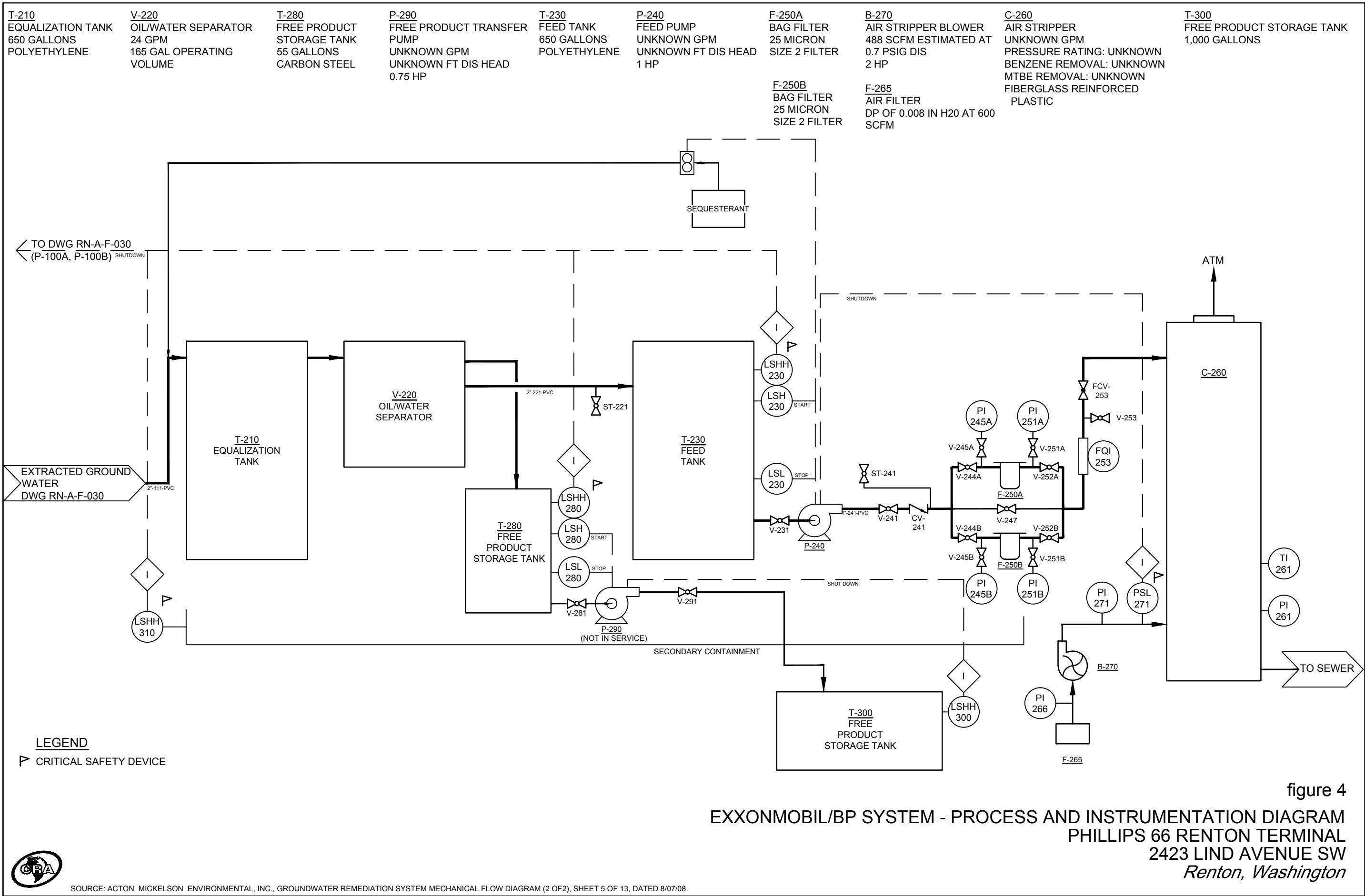
Figures





70496-2RM00(034)GN-WA002 MAR 31/2014





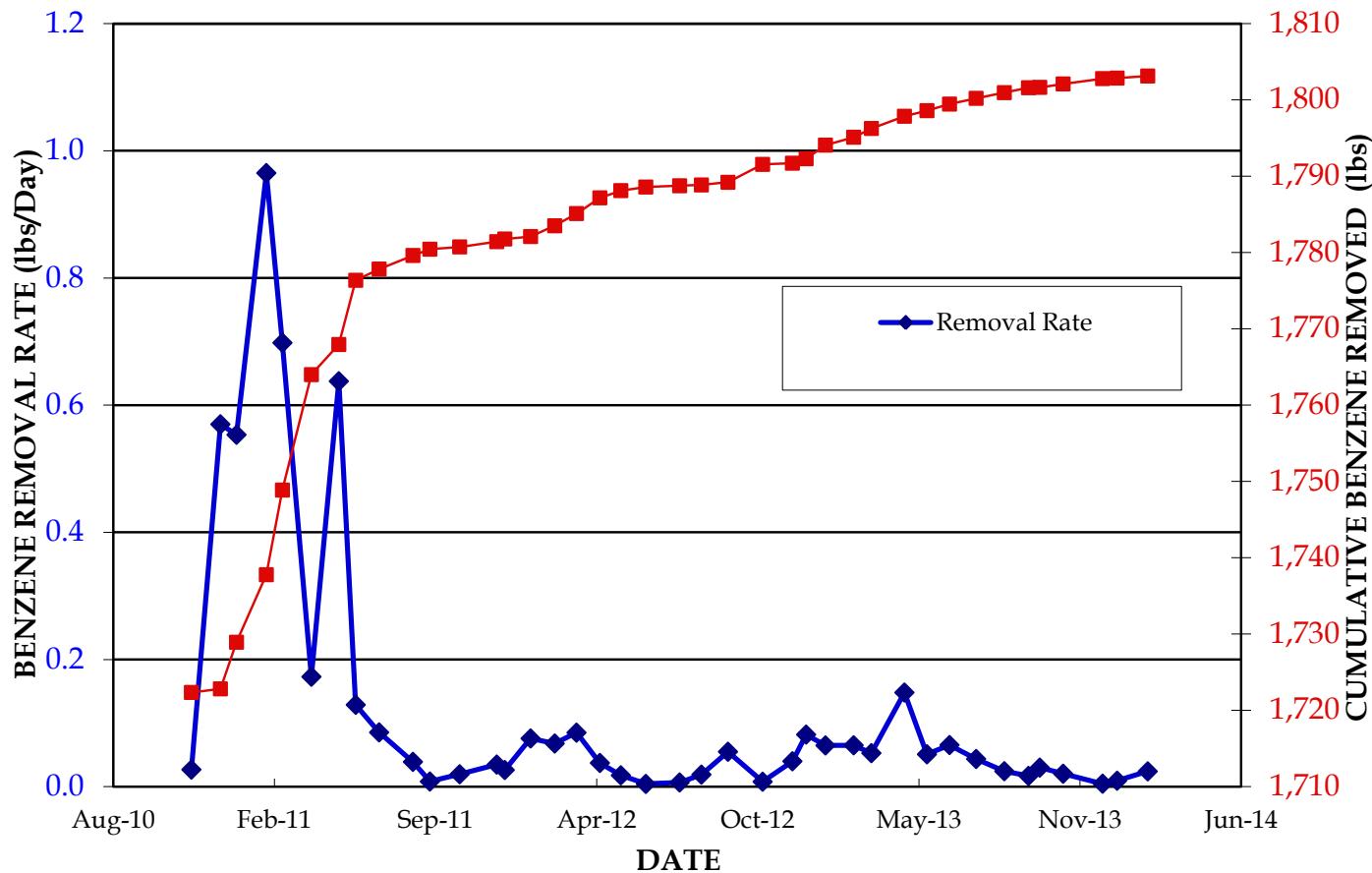


figure 5

PHILLIPS 66 SYSTEM - BENZENE MASS REMOVAL GRAPH
PHILLIPS 66 RENTON TERMINAL
Renton Washington



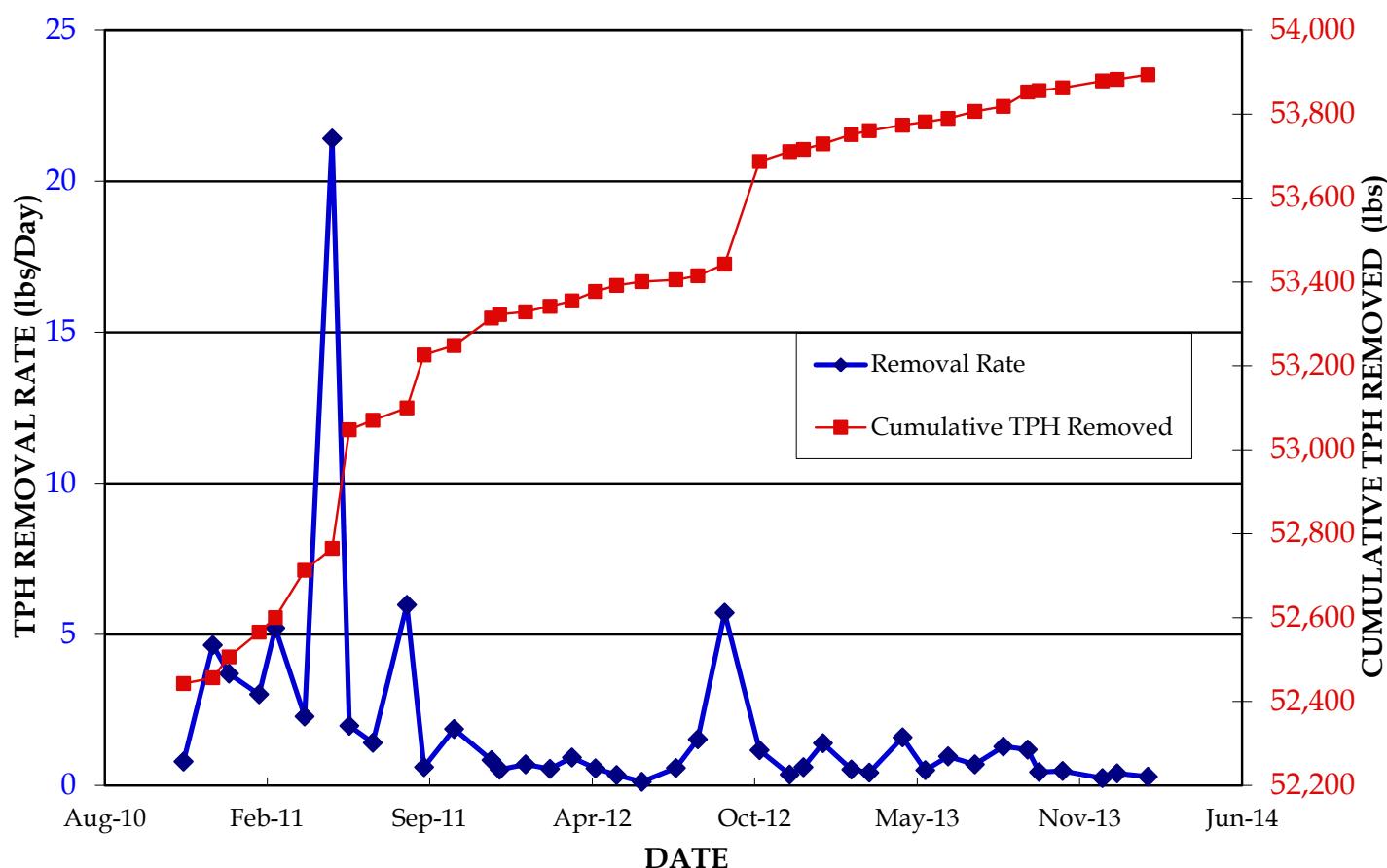


figure 6
PHILLIPS 66 SYSTEM - TPH MASS REMOVAL GRAPH
PHILLIPS 66 RENTON TERMINAL
Renton Washington



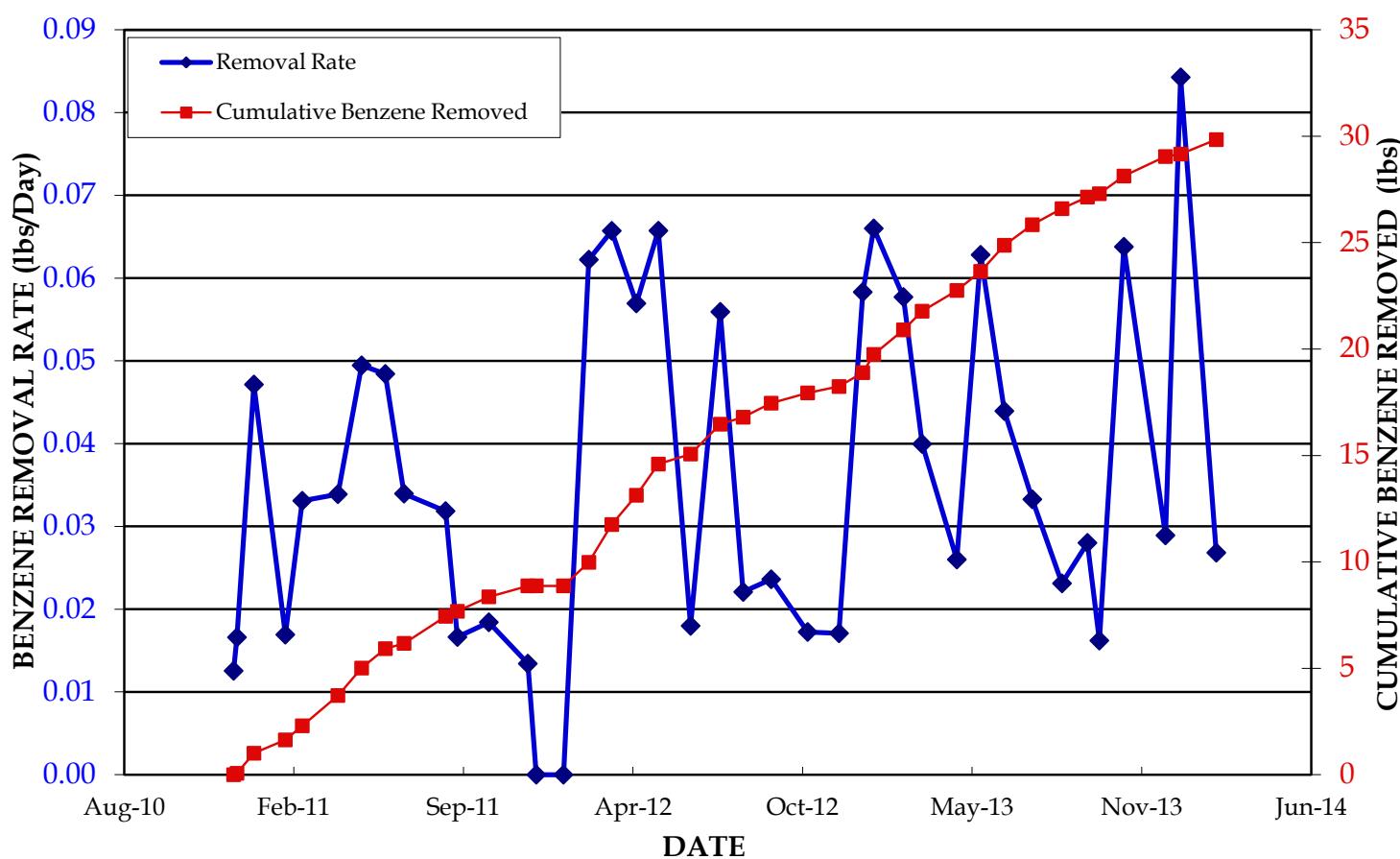


figure 7

EXXONMOBIL / BP SYSTEM - BENZENE MASS REMOVAL GRAPH
PHILLIPS 66 RENTON TERMINAL
Renton Washington



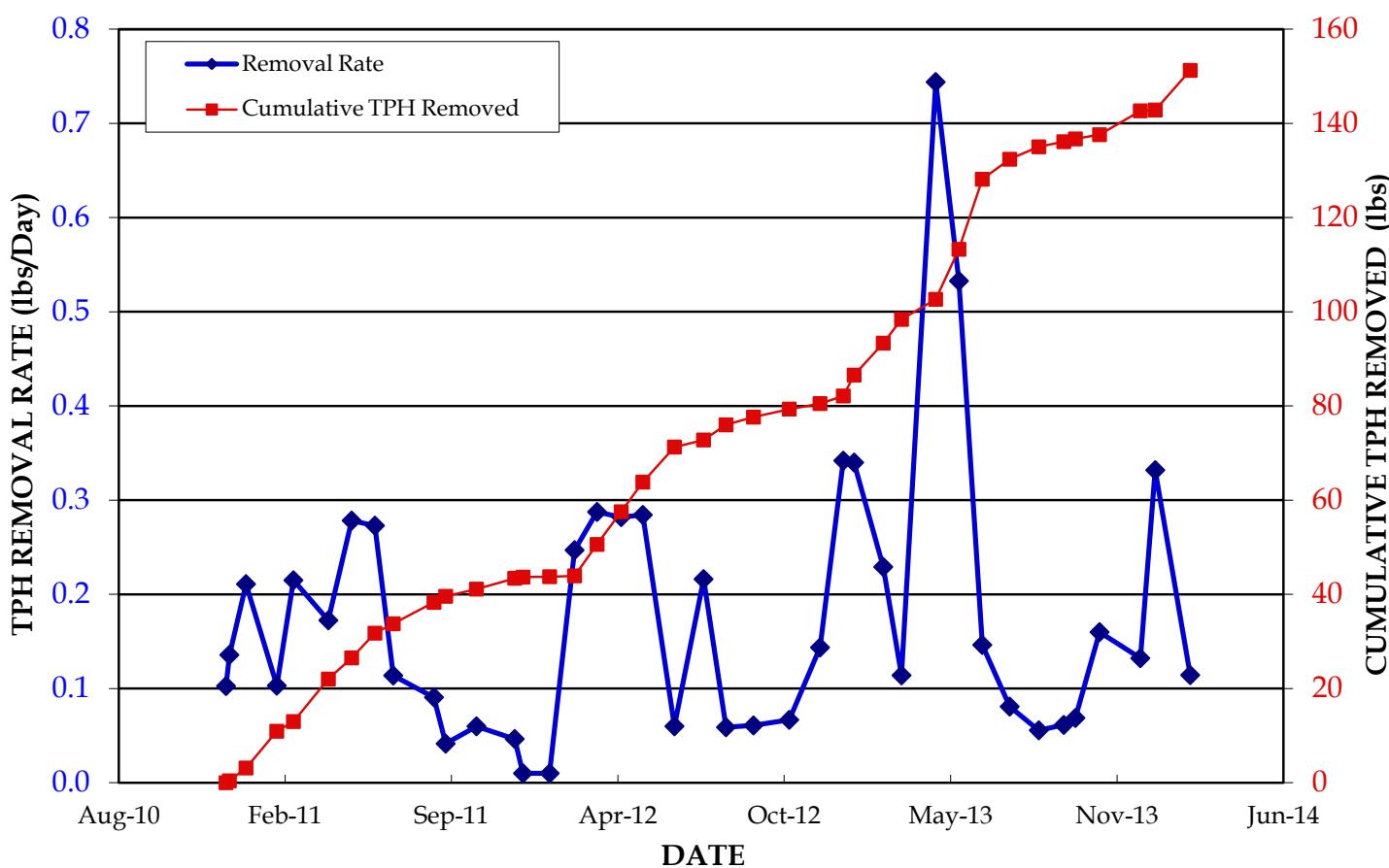
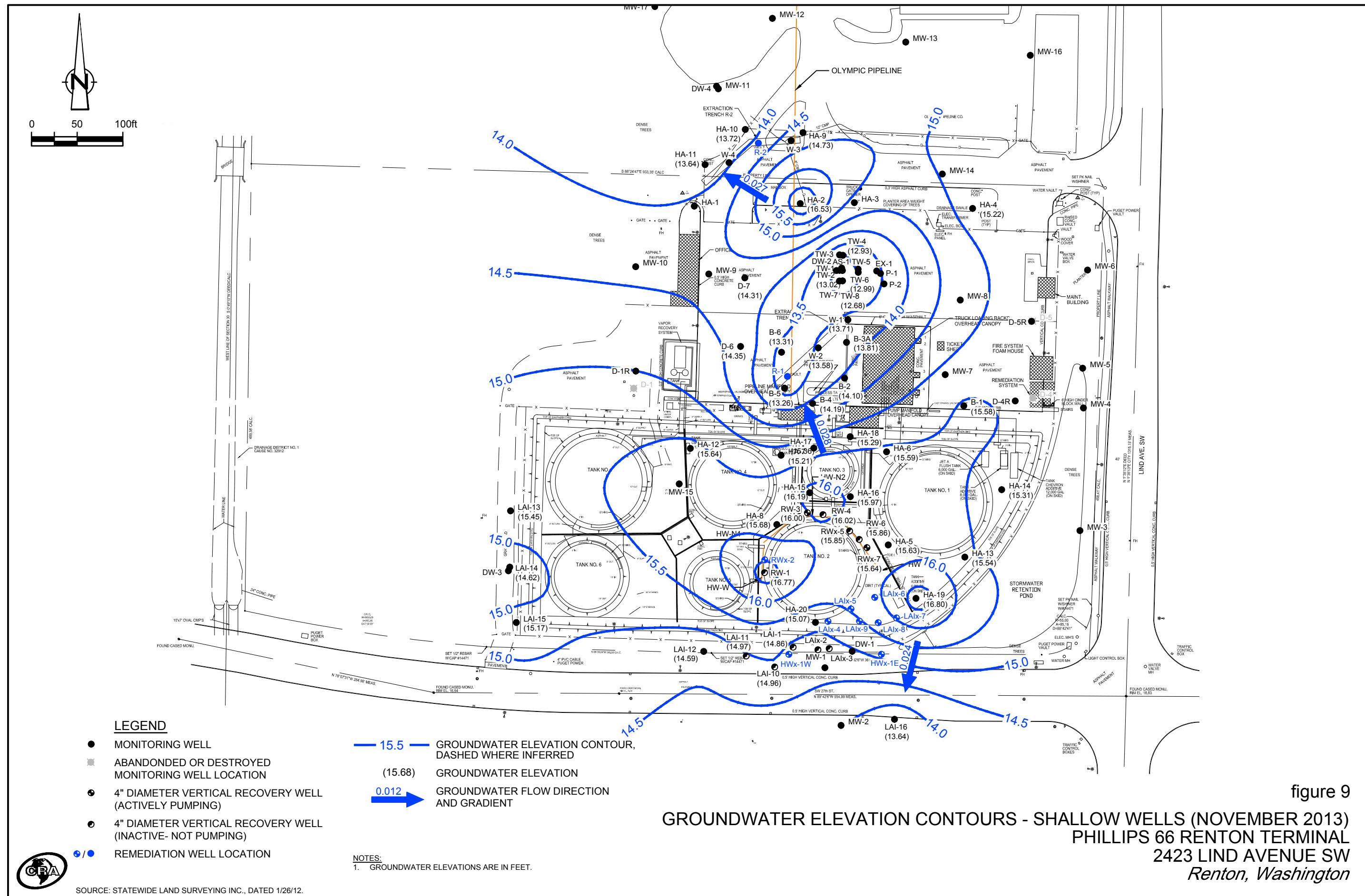


figure 8

EXXONMOBIL / BP SYSTEM - TPH MASS REMOVAL GRAPH
PHILLIPS 66 RENTON TERMINAL
Renton Washington





70496-2RM00(034)GN-WA004 MAR 31/2014

Tables

TABLE 1

Page 1 of 6

PHILLIPS 66 SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

Date	<i>Soil Vapor Extraction System</i>								<i>Groundwater Extraction System</i>			Cumulative Volume of Water Treated (gallons)
	Hour Meter (hours)	Total Vacuum (in. H₂O)	Total Influent Temperature (°F)	Total Influent Flowrate (scfm)	Influent PID (ppmV)	C-1 PID (ppmV)	C-2 PID (ppmV)	Effluent PID (ppmV)	Hour Meter (hours)	Water Meter Reading (gallons)		
12/09/10	1,389.3	25	100	210	1.8	1.8	0.2	3.3	20,913.8	711,224		3,215,544
12/17/10	1,393.4	35	100	210	--	--	--	--	20,914.8	711,445		3,215,765
12/20/10	1,397.4	35	100	210	--	--	--	--	20,918.7	712,485		3,216,805
12/21/10	1,419.7	36	100	210	22.8	1.9	0.3	2.3	20,941.0	718,185		3,222,505
12/29/10	1,529.5	40	75	210	33.7	0.0	0.0	0.0	21,050.7	752,260		3,256,580
12/30/10	1,556.3	40	100	210	--	--	--	--	21,076.1	760,809		3,265,129
01/05/11	1,559.0	35	100	210	--	--	--	--	--	760,940		3,265,260
01/06/11	1,583.4	35	100	210	23.3	1.7	0.5	2.8	21,102.1	768,341		3,272,661
01/10/11	1,678.4	35	100	210	0.0	0.0	0.0	0.0	21,196.2	790,309		3,294,629
01/12/11	1,632.1	35	95	210	--	--	--	--	21,200.0	792,260		3,296,580
01/18/11	1,821.5	35	105	210	14.7	1.6	1.0	4.1	21,339.1	830,160		3,334,480
01/19/11	1,849.4	35	105	210	--	--	--	--	21,336.8	837,044		3,341,364
01/25/11	1,907.0	37	100	210	20.3	0.0	0.0	0.0	21,424.6	849,720		3,354,040
01/27/11	1,955.3	35	105	210	17.4	1.1	0.5	3.3	21,471.1	863,494		3,367,814
02/01/11	1,969.5	35	105	210	--	--	--	--	21,484.8	866,299		3,370,619
02/03/11	2,011.5	35	100	210	--	--	--	--	21,527.2	877,830		3,382,150
02/11/11	2,023.0	35	105	210	--	--	--	--	21,538.4	881,910		3,386,230
02/14/11	2,034.6	40	100	210	86.1	1.5	0.0	1.3	21,549.6	886,823		3,391,143
02/16/11	2,064.0	40	100	210	57.6	2.0	0.8	1.8	21,577.0	897,988		3,402,308
02/23/11	2,231.7	30	100	210	17.6	1.4	0.9	2.1	21,746.4	925,254		3,429,574
03/01/11	2,233.7	35	100	210	78.6	3.5	0.4	0.0	21,747.6	925,872		3,430,192
03/08/11	2,339.9	35	105	210	61.9	5.6	6.0	1.0	21,852.3	951,757		3,456,077
03/09/11	2,342.3	35	105	210	60	0.1	0.0	0.0	21,854.7	952,363		3,456,683
03/14/11	2,371.4	35	105	210	50	0.4	0.0	0.0	21,883.5	959,647		3,463,967
03/22/11	2,557.2	35	105	210	48	0.8	0.2	0.3	22,069.2	1,006,270		3,510,590
03/24/11	2,609.7	35	100	210	--	--	--	--	22,121.6	1,015,100		3,519,420
03/29/11	2,676.9	35	100	210	63.5	0.8	0.0	0.0	22,228.8	1,038,117		3,542,437
04/05/11	2,858.4	35	100	210	53	0.4	0.0	0.0	22,369.3	1,066,420		3,570,740
04/13/11	2860.7	35	100	210	0.0	0.0	0.0	0.0	22,370.8	1,066,420		3,570,740
04/15/11	2864.4	35	100	210	--	--	--	--	22,373.3	1,068,338		3,572,658
04/18/11	2897.9	35	100	210	38.3	0.0	0.0	0.0	22,406.5	1,077,180		3,581,500
04/19/11	--	--	--	--	--	--	--	--	--	--		--

TABLE 1

PHILLIPS 66 SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

<i>Soil Vapor Extraction System</i>								<i>Groundwater Extraction System</i>			<i>Cumulative Volume of Water Treated</i>
<i>Date</i>	<i>Hour</i>	<i>Total Vacuum</i>	<i>Total Influent Temperature</i>	<i>Total Influent Flowrate</i>	<i>Influent PID</i>	<i>C-1 PID</i>	<i>C-2 PID</i>	<i>Effluent PID</i>	<i>Hour Meter</i>	<i>Water Meter Reading</i>	
04/26/11	3063.0	35	120	210	69.3	0.0	0.0	0.0	22,571.8	1,103,148	3,607,468
05/03/11	3147.3	35	120	210	70	0.0	0.0	0.0	22,655.8	1,117,500	3,621,820
05/13/11	3386.7	35	125	210	--	--	--	--	22,895.2	1,135,172	3,639,492
05/16/11	3389.3	35	112	210	15	0.4	0.1	0.1	22,898.0	1,135,792	3,640,112
05/17/11	3409.9	35	113	210	11.1	0.2	0.0	0.0	22,918.6	1,140,353	3,644,673
05/24/11	3580.8	35	115	196	8.3	0.3	0.1	0.0	23,089.5	1,170,742	3,675,062
06/02/11	3607.6	35	120	196	--	--	--	--	23,116.2	1,176,106	3,680,426
06/07/11	3726.8	30	105	210	7.8	0.1	0.0	0.0	23,235.4	1,181,785	3,686,105
06/14/11	3894.2	35	110	210	9.3	0.0	0.0	0.0	23,401.2	1,192,630	3,696,950
06/22/11	3973.9	35	120	210	--	--	--	--	23,484.0	1,198,593	3,702,913
06/28/11	3994.4	35	120	196	16.5	0.0	0.0	0.0	23,504.5	1,201,716	3,706,036
07/06/11	4000.1	33	140	210	15.1	--	--	--	23,510.2	1,202,600	3,706,920
07/12/11	4000.5	20	110	100	13.2	--	--	--	23,514.2	1,203,070	3,707,390
07/14/11	4008.3	20	95	100	--	--	--	--	23,514.3	1,203,109	3,707,429
07/19/11	4123.7	30	110	98	33	0.0	0.0	0.0	23,629.8	1,207,790	3,712,110
07/26/11	4224.5	27	70	100	--	--	--	--	23,730.4	1,211,680	3,716,000
08/03/11	4233.9	23	100	100	48.4	6.6	0.3	0.4	23,741.8	1,212,390	3,716,710
08/11/11	4431.7	35	120	100	--	--	--	--	23,939.8	1,217,794	3,722,114
08/17/11	4499.8	33	110	100	36.3	0.1	0.0	0.0	24,010.5	1,219,880	3,724,200
08/24/11	4667.8	30	110	100	30	0.0	0.0	0.0	24,178.3	1,222,796	3,727,116
08/30/11	4820.0	29	110	100	45.0	0.0	0.0	0.0	24322.3	1,224,480.0	3,728,800
09/07/11	5006.5	35	120	100	41.0	0.4	0.0	0.0	24517.0	1,226,561.0	3,730,881
09/15/11	5196.1	32	120	100	39.4	0.0	0.0	0.0	24706.8	1,228,430.0	3,732,750
09/21/11	5342.0	28	120	100	38.1	0.0	0.0	0.0	24862.5	1,229,880.0	3,734,200
09/28/11	5507.8	28	110	100	4.3	0.0	0.0	0.0	25018.9	1,231,530.0	3,735,850
10/03/11	5629.8	28	105	100	64	0.1	0.2	0.0	25141.0	1,232,740.0	3,737,060
10/14/11	5892.8	30	100	100	69.9	0.1	0.1	0.0	25404.0	1,235,348.0	3,739,668
10/17/11	5966.5	29	110	100	25.0	0.0	0.0	0.0	25477.6	1,236,020.0	3,740,340
10/25/11	6157.4	35	100	100	80.0	--	--	--	25668.6	1,238,147.0	3,742,467
11/02/11	6347.9	35	95	100	--	--	--	--	25859.2	1,247,837.0	3,752,157
11/08/11	6492.0	30	100	100	17.9	0.6	0.3	0.2	26003.4	1,252,432.0	3,756,752
11/16/11	6682.7	35	90	100	20.6	0.0	0.0	0.0	26194.0	1,259,230.0	3,763,550
11/23/11	6732.1	32	90	200	5.2	0.0	0.0	0.0	26243.1	1,261,060.0	3,765,380
11/29/11	6733.7	33	80	200	6.4	0.0	0.0	0.0	26244.1	1,261,275.0	3,765,595

TABLE 1

PHILLIPS 66 SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

<i>Soil Vapor Extraction System</i>									<i>Groundwater Extraction System</i>			<i>Cumulative Volume of Water Treated</i>
<i>Date</i>	<i>Hour</i>	<i>Total Vacuum</i>	<i>Total Influent</i>	<i>Total Influent</i>	<i>Influent PID</i>	<i>C-1 PID</i>	<i>C-2 PID</i>	<i>Effluent PID</i>	<i>Hour Meter</i>	<i>Water Meter Reading</i>		
12/09/11	6974.6	29	90	200	2.6	0.0	0.0	0.0	26485.0	1,284,500.0		3,788,820
12/14/11	7083.8	26	75	190	1.2	0.0	0.0	0.0	26590.9	1,290,910.0		3,795,230
12/21/11	7174.6	38	85	200	5.0	0.0	0.0	0.0	26681.6	1,298,390.0		3,802,710
12/29/11	7177.3	30	90	200	--	--	--	--	26684.2	1,298,690.0		3,803,010
01/04/12	7209.3	45	100	190	2.6	0.0	0.0	0.0	26716.2	1,302,370.0		3,806,690
01/10/12	7271.1	28	50	210	1.1	0.0	0.0	0.0	26778.2	1,310,770.0		3,815,090
01/17/12	7373.9	41	90	200	1.8	0.0	0.0	0.0	26881.0	1,319,880.0		3,824,200
01/24/12	7398.9	28	90	210	5.8	0.0	0.0	0.0	26905.9	1,323,120.0		3,827,440
01/31/12	7502.2	34	90	200	9.3	0.0	0.0	0.0	27009.0	1,337,860.0		3,842,180
02/09/12	7718.1	35	95	200	3.3	0.0	0.0	0.0	27225.0	1,362,440.0		3,866,760
02/16/12	7885.1	30	85	200	--	--	--	--	27391.9	1,378,194.0		3,882,514
02/21/12	8007.5	45	95	200	0.6	0.0	0.0	0.0	27514.3	1,391,524.0		3,895,844
03/02/12	8229.4	31	80	200	4.1	0.0	0.0	0.0	27736.1	1,413,780.0		3,918,100
03/07/12	8285.0	40	90	200	0.7	0.0	0.0	0.0	27791.7	1,420,688.0		3,925,008
03/15/12	8285.0	--	--	--	--	--	--	--	27791.7	1,420,688.0		3,925,008
03/20/12	8485.8	38	90	190	0.4	0.0	0.0	0.0	27992.4	1,439,440.0		3,943,760
03/27/12	8653.2	44	110	190	0.0	0.0	0.0	0.0	28159.8	1,458,610.0		3,962,930
04/05/12	8866.9	48	100	190	0.0	0.0	0.0	0.0	28373.8	1,476,720.0		3,981,040
04/12/12	9039.6	40	95	190	4.7	0.0	0.0	0.0	28546.6	1,490,172.0		3,994,492
04/20/12	9226.3	38	100	190	0.5	0.0	0.0	0.0	28733.3	1,508,710.0		4,013,030
04/26/12	9373.9	37	105	190	2.2	0.0	0.0	0.0	28880.9	1,521,208.0		4,025,528
05/01/12	9476.8	40	95	200	4.7	0.0	0.0	0.0	28983.8	1,531,500.0		4,035,820
05/11/12	9715.4	38	90	200	0.4	0.0	0.0	0.0	29222.3	1,550,120.0		4,054,440
05/17/12	9767.1	35	90	200	0.5	0.0	0.0	0.0	29274.1	1,556,050.0		4,060,370
05/24/12	9911.9	35	100	210	1.4	0.0	0.0	0.0	29419.1	1,564,702.0		4,069,022
06/01/12	10105.6	40	100	200	1.1	0.0	0.0	0.0	29612.8	1,571,790.0		4,076,110
06/08/12	10273.5	30	100	200	10.0	0.0	0.0	0.0	29780.9	1,580,170.0		4,084,490
06/18/12	10511.4	35	105	210	--	--	--	--	30018.8	1,580,225.0		4,084,545
06/29/12	10683.7	33	100	200	17.1	0.0	0.0	0.0	30191.1	1,580,500.0		4,084,820
07/03/12	10778.7	35	100	210	23.5	0.0	0.0	0.0	30286.1	1,587,800.0		4,092,120
07/13/12	11016.9	39	100	200	0.4	0.0	0.0	0.0	30524.4	1,596,090.0		4,100,410
07/18/12	11073.3	35	100	200	0.8	0.0	0.0	0.0	30580.8	1,599,550		4,103,870
07/24/12	11217.2	30	100	210	--	--	--	--	30724.7	1,604,590		4,108,910
08/01/12	11406.3	30	120	210	3.1	0.2	0.1	0.0	30913.0	1,610,297		4,114,617

TABLE 1

PHILLIPS 66 SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

<i>Soil Vapor Extraction System</i>									<i>Groundwater Extraction System</i>			<i>Cumulative Volume of Water Treated</i>
<i>Date</i>	<i>Hour</i>	<i>Total Vacuum</i>	<i>Total Influent</i>	<i>Total Influent</i>	<i>Influent PID</i>	<i>C-1 PID</i>	<i>C-2 PID</i>	<i>Effluent PID</i>	<i>Hour Meter</i>	<i>Water Meter Reading</i>		
08/09/12	11406.3	30	120	210	3.1	0.2	0.1	0.0	30913.0	1,610,297		4,114,617
08/31/12	11574.9	30	100	210	0.1	0.0	0.0	0.0	31081.3	1,616,630		4,120,950
09/05/12	11700.3	30	100	200	0.1	0.0	0.0	0.0	31206.8	1,619,750		4,124,070
09/11/12	11842.5	30	100	200	4.9	0.0	0.0	0.0	31349.1	1,621,790		4,126,110
09/25/12	12174.8	30	110	210	26.3	2.8	0.8	0.3	31657.6	1,628,210		4,132,530
10/05/12	12414.7	30	100	200	18.8	3.3	0.2	0.6	31871.4	1,631,070		4,135,390
10/12/12	12581.4	25	100	200	37.7	3.8	0.6	0.4	32038.2	1,631,760		4,136,080
10/19/12	12746.5	30	110	210	25.5	6.1	0.1	0.1	32203.3	1,631,832		4,136,152
10/24/12	12868.7	--	--	210	21.4	0.3	0.3	0.0	32325.5	1,634,281		4,138,601
11/02/12	13082.2	30	100	210	4.4	2.4	1.4	0.0	32538.8	1,636,510		4,140,830
11/08/12	13226.7	28	115	200	3.5	3.6	1.1	0.0	32683.7	1,641,700		4,146,020
11/16/12	13352.1	25	75	210	2.9	2.6	1.4	0.0	32809.2	1,642,820		4,147,140
11/30/12	13353.6	40	105	210	1.3	0.0	0.0	0.0	32810.6	1,643,135		4,147,455
12/04/12	13448.9	35	100	200	--	--	--	--	32905.9	1,651,120		4,155,440
12/10/12	13595.7	35	100	200	--	--	--	--	33052.7	1,660,450		4,164,770
12/17/12	13706.1	33	90	200	0.6	1.6	0.0	0.0	33163.0	1,668,780		4,173,100
12/28/12	13969.2	35	95	210	2.1	0.0	0.0	0.0	33426.4	1,678,171		4,182,491
01/04/13	14084.2	35	90	210	8.1	0.0	0.0	0.0	33541.5	1,685,777		4,190,097
01/10/13	14229.2	35	100	200	12.3	0.0	0.0	0.0	33686.2	1,691,330		4,195,650
01/25/13	14234.0	35	105	210	0.2	0.0	0.0	0.0	33689.8	1,691,493		4,195,813
01/31/13	14376.5	40	90	210	0.2	0.0	0.0	0.0	33832.1	1,691,639		4,195,959
02/08/13	14567.6	28	100	200	12.4	0.0	0.0	0.0	34023.1	1,691,870		4,196,190
02/14/13	14611.9	30	100	210	1.9	0.0	0.0	0.0	34067.4	1,692,962		4,197,282
02/19/13	14641.3	30	100	210	0.6	0.0	0.0	0.0	34096.7	1,693,661		4,197,981
02/25/13	14773.7	38	100	200	0.4	0.0	0.0	0.0	34229.0	1,698,650		4,202,970
03/01/13	14867.0	36	100	200	--	--	--	--	34322.4	1,700,070		4,204,390
03/06/13	14986.6	35	100	210	0.4	0.0	0.0	0.0	34442.0	1,701,149		4,205,469
03/08/13	15035.2	35	100	210	1.5	0.0	0.0	0.0	34490.7	1,701,661		4,205,981
03/11/13	15106.1	35	100	210	0.8	0.0	0.0	0.0	34561.0	1,702,293		4,206,613
03/27/13	15489.7	35	105	200	1.3	0.0	0.0	0.0	34945.1	1,705,941		4,210,261
04/03/13	15517.7	35	105	210	--	--	--	--	34973.5	1,706,223		4,210,543
04/10/13	15595.0	42	100	200	1.4	0.6	0.0	0.0	35038.8	1,712,000		4,216,320
04/18/13	15767.0	--	--	--	7.0	0.0	0.0	0.0	35210.5	1,730,944		4,235,264
05/09/13	15865.4	35	115	210	14.3	0.00	0.00	0.00	35352.4	1,737,114		4,241,434

TABLE 1

PHILLIPS 66 SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

<i>Soil Vapor Extraction System</i>									<i>Groundwater Extraction System</i>			<i>Cumulative Volume of Water Treated</i>
<i>Date</i>	<i>Hour</i>	<i>Total Vacuum</i>	<i>Total Influent</i>	<i>Total Influent</i>	<i>Influent PID</i>	<i>C-1 PID</i>	<i>C-2 PID</i>	<i>Effluent PID</i>	<i>Hour Meter</i>	<i>Water Meter Reading</i>		
05/16/13	15869.2	35	105	210	0.4	0.00	0.00	0.00	35356.2	1,738,866		4,243,186
05/21/13	15984.2	35	100	210	5.3	0.10	0.00	0.00	35471.2	1,765,951		4,270,271
05/30/13	16141.6	30	95	210	1.4	0.00	0.00	0.00	35629.3	1,797,991		4,302,311
06/04/13	16144.0	35	105	210	8.7	0.00	0.00	0.00	35631.5	1,798,804		4,303,124
06/13/13	16274.1	35	105	210	1.8	0.00	0.10	0.00	35761.6	1,822,664		4,326,984
06/21/13	16447.4	22	100	220	1.5	0.00	0.00	0.00	35765.8	1,823,430		4,327,750
06/28/13	16615.8	50	120	210	--	--	--	--	35838.3	1,835,191		4,339,511
07/02/13	16644.5	40	120	210	--	--	--	--	35866.7	1,839,189		4,343,509
07/10/13	16673.1	40	120	210	--	--	--	--	35895.2	136 a		4,347,761
07/16/13	16796.8	40	125	155	7.6	0.00	0.00	0.00	36018.9	14,570		4,362,195
07/23/13	16851.2	30	125	150	4.6	0.00	0.00	0.00	36068.0	18,097		4,365,722
07/30/13	17014.4	60	110	140	6.0	0.00	0.30	0.00	36231.3	33,212		4,380,837
08/08/13	17015.6	30	100	175	11.0	0.00	0.00	0.00	36232.5	33,444		4,381,069
08/12/13	17017.9	18	100	170	17.1	0.00	0.00	0.00	36234.7	33,636		4,381,261
08/20/13	17209.3	45	110	175	12.9	0.00	0.00	0.00	36426.2	49,760		4,397,385
08/26/13	17352.6	10	110	150	10.0	0.00	0.00	0.00	36569.5	54,346		4,401,971
09/05/13	17593.9	30	120	100	33.8	0.00	0.00	0.00	36810.8	61,491		4,409,116
09/09/13	17604.4	45	100	150	--	--	--	--	--	61,613		4,409,238
09/19/13	17845.6	35	100	160	31.0	1.20	0.00	0.00	37062.7	82,138		4,429,763
09/26/13	17856.8	35	100	160	31.5	0.00	0.00	0.00	37073.8	95,372		4,442,997
10/03/13	17912.8	35	100	160	23.9	0.00	0.00	0.00	37129.5	97,902		4,445,527
10/11/13	18104.2	35	90	160	3.5	0.00	0.00	0.00	37320.0	135,200		4,482,825
10/17/13	18212.1	35	90	160	4.7	0.00	0.00	0.00	37428.3	152,090		4,499,715
10/24/13	18216.2	35	80	175	3.6	0.00	0.00	0.00	37432.2	153,328		4,500,953
11/01/13	18273.3	45	100	150	2.7	0.00	0.00	0.00	37488.3	163,749		4,511,374
11/07/13	18416.0	35	90	170	2.4	0.00	0.00	0.00	37630.6	180,762		4,528,387
11/15/13	18603.5	35	90	170	1.2	0.00	0.10	0.10	37818.2	196,559		4,544,184
11/20/13	18728.1	45	110	150	5.4	0.00	0.00	0.00	37942.6	208,754		4,556,379
11/27/13	18883.5	40	90	160	1.6	0.30	0.20	0.00	38098.0	231,477		4,579,102
12/02/13	19003.5	35	80	170	--	--	--	--	38218.2	246,090		4,593,715
12/16/13	19003.5	--	--	--	--	--	--	--	38218.2	246,090		4,593,715
12/20/13	19097.4	30	75	170	0.5	0.00	0.00	0.00	38310.3	246,410		4,594,035
12/23/13	19171.3	24	70	170	0.5	0.00	0.00	0.00	38384.2	246,410		4,594,035
01/03/14	19435.3	35	75	170	0.8	0.10	0.00	0.00	38648.3	247,010		4,594,635

TABLE 1

Page 6 of 6

PHILLIPS 66 SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

<i>Soil Vapor Extraction System</i>									<i>Groundwater Extraction System</i>			<i>Cumulative Volume of Water Treated</i>
<i>Date</i>	<i>Hour</i>	<i>Total Vacuum</i>	<i>Total Influent</i>	<i>Total Influent</i>	<i>Influent PID</i>	<i>C-1 PID</i>	<i>C-2 PID</i>	<i>Effluent PID</i>	<i>Hour Meter</i>	<i>Water Meter Reading</i>		
01/07/14	19452.1	32	100	180	14.2	0.00	0.00	0.00	38665.1	250,319		4,597,944
01/17/14	19694.4	40	90	160	2.9	0.10	0.00	0.00	38907.4	286,563		4,634,188
01/20/14	19763.4	30	80	180	1.1	0.10	0.00	0.00	38976.5	295,629		4,643,254
01/31/14	19974.7	35	80	170	--	--	--	--	39185.2	323,067		4,670,692
02/14/14	20086.9	30	100	150	2.7	0.30	0.10	0.00	39395.5	342,869		4,690,494
02/26/14	20367.9	36	100	150	0.8	0.00	0.00	0.00	39576.4	400,227		4,747,852
02/28/14	20411.3	35	90	170	1.2	0.10	0.00	0.00	39597.3	403,816		4,751,441
03/03/14	20484.7	35	100	150	8.6	0.30	0.30	0.10	39670.6	415,225		4,762,850
03/11/14	20594.8	32	100	150	8.8	0.00	0.00	0.00	39780.7	436,795		4,784,420
03/21/14	20835.3	35	90	160	3.6	0.00	0.00	0.00	40021.2	437,833		4,785,458
03/27/14	20839.4	35	90	160	17.5	0.00	0.00	0.00	40025.3	438,764		4,786,389
04/02/14	20842.1	30	90	170	0.1	0.00	0.00	0.00	40028.0	439,398		4,787,023
04/10/14	21034.6	40	100	160	0.4	0.00	0.00	0.00	40220.5	468,211		4,815,836

TABLE 2

Page 1 of 6

**EXXONMOBIL/BP SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON**

Date	Groundwater Extraction Data								Air Stripper Operational Data			
	R1 Hour Meter (hours)	R2 Hour Meter (hours)	Total Hour Meter (hours)	Air Stripper Hour Meter (hours)	R1 Totalizer Reading (gallons)	R2 Totalizer Reading (gallons)	Effluent Totalizer Reading (cf)	Volume of Water Treated (gallons)	Air Stripper Velocity (fpm)	Air Stripper Pressure (in. H₂O)	Air Stripper Flow Rate (scfm)	Effluent PID (ppmV)
12/17/10	6,631.9	4,297.2	--	--	--	--	5,847	43,739	--	--	--	--
12/20/10	6,631.9	4,335.2	--	--	--	--	6,907	51,668	--	--	--	--
12/21/10	6,632.0	4,346.1	--	--	--	--	7,187	53,762	--	7.0	--	6.2
12/29/10	6,631.9	4,497.0	--	--	--	--	9,968	74,566	--	6.0	--	3.6
12/30/10	6,634.0	4,516.4	--	--	--	--	10,387	77,700	--	7.0	--	--
01/05/11	6,634.1	4,516.4	--	--	--	--	10,404	77,827	--	7.0	--	--
01/06/11	6,635.7	4,517.8	--	--	--	--	10,551	78,927	--	7.0	--	5.4
01/10/11	6,692.0	4,566.0	--	--	23,389	17,778	16,048	120,047	--	7.0	--	0.0
01/18/11	6,765.2	4,653.3	--	--	--	--	24,142	180,595	--	7.0	--	3.0
01/19/11	6,775.5	4,659.2	--	--	54,514	49,763	25,003	187,035	--	7.0	--	--
01/25/11	6,819.0	4,692.2	--	--	74,622	64,610	29,785	222,807	--	7.0	--	3.2
01/27/11	6,834.0	4,699.6	--	--	81,550	67,818	31,148	233,003	--	7.0	--	3.2
02/01/11	6,865.8	4,718.1	--	35.5	96,672	76,558	34,406	257,375	--	7.0	--	--
02/03/11	6,878.7	4,723.4	--	49.2	102,680	79,028	35,646	266,651	--	7.0	--	--
02/11/11	6,883.9	4,726.7	--	--	--	--	36,178	270,630	--	--	--	--
02/14/11	6,884.2	4,727.0	--	129.1	105,259	80,727	36,209	270,862	362	7.0	289.2	0.8
02/16/11	6,884.9	4,727.4	--	173.8	105,590	80,988	36,289	271,461	620	7.0	495.3	1.7
02/23/11	6,970.2	4,795.2	--	238.2	131,073	97,377	42,210	315,753	700	7.0	559.2	--
03/01/11	6,971.3	4,796.1	--	238.9	131,394	97,675	42,289	316,344	613	7.0	489.7	5
03/08/11	7,055.7	4,858.3	--	305.3	155,972	117,100	48,442	362,371	550	7.0	439.4	2
03/14/11	7,113.4	4,922.9	--	369.3	173,207	136,693	53,381	399,318	695	7.0	555.2	1
03/22/11	7,193.3	5,022.3	--	447.3	196,781	152,490	58,823	440,027	641	7.0	512.1	3
03/23/11	7,212.1	5,064.8	--	463.8	196,781	152,490	59,908	448,143	--	7.0	--	--
03/24/11	7,220.4	5,074.9	69.3	--	204,682	157,602	60,595	453,282	--	--	--	--
03/29/11	7,254.4	5,101.7	162.0	510.8	214,610	165,934	63,166	472,514	526	7.0	420.2	3
04/05/11	7,324.7	5,182.8	334.9	599.9	234,628	189,161	69,024	516,335	437	7.0	349.1	0.3
04/13/11	7,356.2	5,216.4	409.2	757.5	244,318	197,959	71,500	534,857	437	7	349.1	1.3
04/15/11	7,356.3	5,216.5	409.5	757.7	--	--	--	--	--	--	--	2.3
04/19/11	7,359.9	5,217.5	415.1	856.2	245,426	198,248	71,679	536,196	400	7	319.6	2.1
04/26/11	7,443.4	5,217.5	583.6	911.8	271,569	198,248	75,165	562,273	430	7	343.5	2.7
05/03/11	7,487.3	5,219.0	708.9	944.1	285,392	199,004	77,210	577,571	342	7	273.2	5.4
05/13/11	7,546.1	5,169.5	947.7	985.5	20,863	221,163	83,756	626,538	--	--	--	--

TABLE 2

**EXXONMOBIL/BP SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON**

Date	Groundwater Extraction Data								Air Stripper Operational Data			
	R1 Hour Meter	R2 Hour Meter	Total Hour Meter	Air Stripper Hour Meter	R1 Totalizer Reading	R2 Totalizer Reading	Effluent Totalizer Reading	Volume of Water Treated	Air Stripper Velocity	Air Stripper Pressure	Air Stripper Flow Rate	Effluent PID
05/16/11	7,562.7	5,302.2	1,019.4	1,004.6	28,276	235,588	86,668	648,322	470	7	375.5	8
05/17/11	7,567.6	5,305.3	1,040.8	1,007.8	30,462	236,932	87,125	651,740	350	7	279.6	15
05/24/11	7,586.6	5,314.1	1,124.5	1,108.1	38,872	240,924	88,832	664,510	500	7	399.5	5
06/02/11	7,640.9	5,347.6	1,246.8	1,222.4	54,849	251,261	92,437	691,477	66.9	7	53.4	--
06/07/11	7,691.1	5,372.2	1,368.6	1,244.3	69,034	258,511	95,438	713,926	430	7	343.5	6
06/14/11	7,751.0	5,407.6	1,493.0	1,262.8	81,812	263,491	98,017	733,218	430	7	343.5	4.1
06/22/11	7,753.7	5,409.2	1,499.2	1,263.5	82,361	263,645	98,104	733,869	--	7	--	--
06/28/11	7,817.9	5,442.3	1,607.4	1,283.0	95,781	269,517	100,763	753,760	340	7	271.6	0
07/06/11	7,849.4	5,442.5	1,668.5	1,289.9	102,293	269,544	101,699	760,761	420	8	336.4	2.2
07/12/11	7,870.7	5,442.5	1,698.1	1,411.1	106,745	269,544	102,349	765,624	612	6	487.8	--
07/14/11	7,900.1	5,444.0	1,743.8	1,417.5	112,782	269,992	103,240	772,289	--	8	--	--
07/19/11	7,933.1	5,459.4	1,860.7	1,431.7	122,656	274,092	105,179	786,794	488	8	390.8	5.5
07/26/11	7,964.4	5,466.4	2,027.7	1,446.8	134,993	276,019	107,161	801,620	--	7	--	--
08/03/11	8,035.6	5,471.7	2,215.8	1,461.0	147,652	277,422	109,136	816,394	643	2	507.5	1.4
08/11/11	8,075.4	5,475.5	2,412.7	1,473.0	159,224	278,440	110,865	829,328	--	2	--	--
08/17/11	8,087.8	5,476.4	2,458.8	1,476.5	163,038	278,677	111,385	833,218	--	1.5	--	2.2
08/24/11	8,119.9	5,479.0	2,626.3	1,486.0	172,309	279,611	112,822	843,967	--	1.0	--	0.3
08/30/11	8,145.1	5,480.4	2,772.1	1,492.9	179,751	279,769	113,904	852,061	2.68	1	2.1	0.4
09/07/11	8,175.8	5,480.4	2,966.6	1,501.0	188,612	279,783	115,244	862,085	570	1	448.8	1.4
09/15/11	8,203.0	5,480.5	3,155.3	1,508.2	196,485	279,789	116,471	871,264	2.71	2	2.1	0.0
09/21/11	8,203.4	5,493.0	3,297.5	1,511.2	196,549	283,013	117,067	875,722	664	2	524.1	0.0
09/28/11	8,233.3	5,509.9	3,467.1	1,522.7	204,931	286,691	118,849	889,052	2.58	1	2.0	0.0
10/03/11	8,251.1	5,517.4	3,588.5	1,528.8	209,947	288,254	119,837	896,443	675	2	532.7	0.7
10/14/11	8,291.6	5,567.6	3,851.5	1,551.9	221,269	10,441	123,359	922,789	600	2	473.6	4.5
10/17/11	8,303.6	5,569.5	3,924.6	1,555.6	224,688	10,862	123,937	927,113	--	2	--	0.0
10/25/11	8,336.1	5,596.1	4,116.9	1,570.7	233,896	17,416	126,269	944,558	540	2	426.2	--
11/02/11	8,338.1	5,596.5	4,128.1	1,571.3	23,446	17,524	126,523	946,458	500	2	394.6	--
11/08/11	8,374.1	5,620.2	4,271.0	1,586.4	244,724	23,206	128,798	963,476	550	2	434.1	2.9
11/16/11	8,415.0	5,640.4	4,462.6	1,603.4	265,429	28,488	131,284	982,073	560	2.5	442.5	2.3
11/23/11	8,441.4	5,699.9	4,609.0	1,626.7	266,244	41,195	134,483	1,006,003	630	2	497.2	1.3
11/29/11	8,495.1	5,711.8	4,775.1	1,659.2	279,244	58,257	138,756	1,037,967	540	2	426.2	1.8
12/09/11	8,532.4	5,787.0	4,898.4	1,793.7	289,930	61,608	--	1,045,990	664	2	524.1	0.5
12/13/11	--	--	--	1,886.2	--	--	140,901	1,054,013	--	--	--	--
12/14/11	8,533.5	5,878.8	4,899.7	1,909.6	290,266	62,682	141,007	1,054,806	955	2	753.7	1.3

TABLE 2

**EXXONMOBIL/BP SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON**

Date	<i>Groundwater Extraction Data</i>								<i>Air Stripper Operational Data</i>			
	R1 Hour Meter	R2 Hour Meter	Total Hour Meter	Air Stripper Hour Meter	R1 Totalizer Reading	R2 Totalizer Reading	Effluent Totalizer Reading	Volume of Water Treated	Air Stripper Velocity	Air Stripper Pressure	Air Stripper Flow Rate	Effluent PID
12/21/11	8,597.7	5,901.2	5,066.1	1,911.8	17,735	66,055	144,083	1,077,816	813	2	641.7	0.0
12/29/11	8,598.6	5,901.5	5,068.6	1,915.4	18,031	66,160	144,256	1,079,110	--	--	--	--
01/04/12	8,604.5	5,907.4	5,074.5	2,015.4	19,809	67,680	144,808	1,083,239	808	2	637.7	0.8
01/10/12	8,630.4	5,945.1	5,113.3	2,060.1	27,786	77,963	147,414	1,102,733	627	2	494.9	0.1
01/17/12	8,637.0	5,960.5	5,152.5	2,171.1	29,872	81,955	148,323	1,109,533	647	2	510.7	0.7
01/24/12	8,637.0	5,966.0	5,157.3	2,172.6	29,876	83,436	148,626	1,111,800	670	2	528.8	1.2
01/31/12	8,637.0	6,097.9	5,321.5	2,336.1	29,876	116,974	153,114	1,145,372	459	3	363.2	0.2
02/09/12	8,660.2	6,193.4	5,539.5	2,363.8	37,246	136,440	156,727	1,172,399	690	2	544.6	1.7
02/16/12	8,746.5	6,250.7	5,705.8	2,408.5	64,850	151,008	162,364	1,214,567	--	--	--	--
02/21/12	8,799.1	6,304.9	5,828.9	2,446.4	81,652	167,569	166,691	1,246,935	560	2	442.0	1.2
03/02/12	8,894.5	6,374.0	6,066.2	2,508.3	111,763	186,746	172,710	1,291,961	894	1	703.9	0.0
03/07/12	8,937.5	6,495.2	6,187.9	2,535.4	125,523	193,002	175,430	1,312,308	600	2	473.6	0.8
03/15/12	8,998.0	6,621.6	6,360.2	2,583.5	144,033	211,767	180,159	1,347,683	657	2	518.5	0.0
03/20/12	9,018.1	6,643.6	6,382.3	2,693.1	150,304	214,881	181,383	1,356,839	580	2	457.8	0.0
03/27/12	9,097.0	6,722.4	6,551.0	2,751.0	174,680	235,691	186,672	1,396,404	591	2	466.5	0.0
04/05/12	9,185.1	6,842.1	6,767.6	2,820.6	201,599	259,885	192,771	1,442,027	989	2	780.6	0.2
04/12/12	9,216.0	6,869.4	6,849.3	2,838.9	211,013	263,769	194,707	1,456,510	518	2	408.8	1.2
04/20/12	9,299.7	6,927.9	7,038.5	3,031.6	236,119	282,423	200,460	1,499,545	747	2	589.6	0.7
04/26/12	9,352.7	6,970.9	7,186.3	3,063.6	251,147	7,083	204,370	1,528,794	550	2	434.1	1.2
05/01/12	9,392.2	6,993.5	7,303.2	3,085.4	262,267	15,135	206,921	1,547,877	560	2	442.0	1.8
05/11/12	9,471.1	7,035.4	7,541.0	3,129.9	284,330	29,414	211,240	1,580,185	796	2	628.2	0.0
05/17/12	9,516.7	7,048.6	7,686.9	3,150.8	6,493	33,785	213,537	1,597,368	769	2	606.9	0.9
05/24/12	9,531.9	7,052.9	7,738.4	3,273.7	10,700	35,113	214,361	1,603,532	600	2	473.6	1.2
06/08/12	9,596.0	7,093.0	7,931.4	3,305.0	28,629	47,340	214,773	1,606,614	894	2	705.6	1.7
06/18/12	9,597.0	7,094.1	7,932.5	3,541.3	28,881	47,690	214,960	1,608,012	550	2	434.1	--
06/29/12	9,699.5	7,158.5	8,197.9	3,593.6	58,299	67,604	221,798	1,659,164	705	2	556.4	0.0
07/03/12	9,727.3	7,170.3	8,291.6	3,667.2	66,474	71,381	223,473	1,671,694	687	2	542.2	0.0
07/13/12	9,793.1	7,183.1	8,532.8	3,694.0	85,806	75,467	226,837	1,696,859	874	2	689.8	0.0
07/18/12	9,824.0	7,303.4	8,653.3	3,705.3	94,741	75,524	228,373	1,708,230	880	2	694.5	0.0
07/24/12	9,834.6	7,305.5	8,679.2	3,709.3	97,815	76,078	228,418	1,708,567	967	2	763.2	--
08/01/12	9,888.2	7,322.2	8,889.6	3,729.8	113,325	80,766	231,346	1,730,468	530	2	418.3	1.2
08/09/12	9,888.2	7,322.2	8,889.6	3,729.8	113,325	80,766	231,346	1,730,468	--	--	--	--
08/31/12	9,940.6	7,327.4	9,293.1	3,753.6	--	82,145	235,039	1,758,092	694	2	547.7	0.0
09/05/12	9,965.6	7,328.9	9,417.2	3,761.3	135,760	82,506	236,194	1,766,731	717	2	565.9	0.0

TABLE 2

**EXXONMOBIL/BP SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON**

*Groundwater Extraction Data**Air Stripper Operational Data*

Date	R1 Hour Meter	R2 Hour Meter	Total Hour Meter	Air Stripper Hour Meter	R1 Totalizer Reading	R2 Totalizer Reading	Effluent Totalizer Reading	Volume of Water Treated	Air Stripper Velocity	Air Stripper Pressure	Air Stripper Flow Rate	Effluent PID
	R1 Hour Meter	R2 Hour Meter	Total Hour Meter	Air Stripper Hour Meter	R1 Totalizer Reading	R2 Totalizer Reading	Effluent Totalizer Reading	Volume of Water Treated	Air Stripper Velocity	Air Stripper Pressure	Air Stripper Flow Rate	Effluent PID
09/11/12	9,991.2	7,330.0	9,560.3	3,769.1	143,269	82,776	237,384	1,775,632	1042	2	822.4	0.2
09/25/12	10,041.9	7,330.4	9,895.6	3,784.4	158,051	82,888	239,742	1,793,270	622	2	490.9	0.0
10/05/12	10,005.2	7,330.4	9,971.0	3,787.2	151,101	82,890	240,290	1,797,369	784	2	618.8	0.0
10/12/12	10,061.6	7,330.4	10,017.9	3,909.3	163,846	82,894	240,867	1,801,685	944	2	745.1	19.8
10/19/12	10,076.4	7,371.8	10,110.6	3,919.1	168,169	88,780	242,320	1,812,554	550	2	434.1	3.3
10/24/12	10,096.8	7,373.0	10,232.0	3,925.5	174,126	89,038	243,285	1,819,772	580	2	457.8	3.4
11/2/12	10,135.6	7,373.0	10,445.0	3,937.8	186,174	89,058	244,471	1,828,643	575	2	453.8	1.5
11/8/12	10,149.9	7,412.5	10,501.7	3,973.6	190,730	98,736	246,946	1,847,156	826	2	651.9	0.8
11/16/12	10,198.1	7,412.4	10,652.5	4,032.6	205,855	98,768	249,122	1,863,433	878	2	693.0	0.6
11/30/12	10,199.0	7,412.4	10,653.5	4,033.0	206,159	98,787	249,376	1,865,332	600	2	473.6	1.8
12/4/12	10,270.1	7,412.5	10,748.3	4,056.4	228,989	98,799	252,510	1,888,775	964	2	760.8	--
12/10/12	10,270.6	7,412.9	10,749.0	4,056.6	229,074	98,878	252,643	1,889,770	729	2	575.4	--
12/17/12	10,386.2	7,579.9	10,919.5	4,121.9	265,921	123,537	260,627	1,949,490	783	2	618.0	0.0
12/28/12	10,388.1	7,582.3	10,921.9	4,122.9	266,422	123,992	260,865	1,951,270	615	2	485.4	0.8
1/4/13	10,513.1	7,687.6	11,088.4	4,171.1	2,865	141,740	266,508	1,993,480	550	2	434.1	1.1
1/10/13	10,638.5	7,810.2	11,233.3	4,218.5	28,493	160,776	272,294	2,036,759	865	2	682.7	0.2
1/25/13	10,639.4	7,811.3	11,235.0	4,219.0	28,702	--	272,522	2,038,465	650	2	513.0	1.2
1/31/13	10,639.7	7,811.6	11,377.9	4,219.1	28,721	160,989	272,541	2,038,607	550	2	434.1	--
2/8/13	10,808.3	7,928.7	11,569.3	4,273.5	63,335	184,755	280,135	2,095,410	733	2	578.5	1.7
2/14/13	10,898.7	7,963.8	11,712.5	4,298.8	81,610	191,547	283,410	2,119,907	600	2	473.6	1.6
2/19/13	10,967.0	7,989.2	11,831.9	4,318.1	94,704	196,083	285,856	2,138,203	585	2	461.7	0.3
2/25/13	11,041.5	8,037.5	11,978.0	4,342.7	108,695	204,307	288,302	2,156,499	580	3	458.9	1.4
3/1/13	11,085.2	8,090.1	12,070.7	--	117,037	208,877	290,549	2,173,307	--	3	--	--
3/6/13	11,144.0	8,187.9	12,190.8	4,380.7	12,954	216,868	292,846	2,190,488	600	3	474.7	2.7
3/8/13	11,167.4	8,234.7	12,239.7	4,389.4	132,316	219,220	293,746	2,197,220	660	3	522.2	0.9
3/11/13	11,203.2	8,253.0	12,310.3	4,404.2	138,410	225,140	295,097	2,207,326	550	3	435.2	1.8
3/27/13	11,342.3	8,328.9	12,607.0	4,468.8	163,975	247,408	300,955	2,251,143	521	3	412.2	3.0
4/3/13	11,441.0	8,353.0	12,778.0	4,501.0	181,465	253,598	304,054	2,274,324	550	3	435.2	--
4/10/13	11,525.8	8,448.5	12,943.9	4,547.6	196,546	276,232	308,417	2,306,959	567	3	448.6	3.4
4/18/13	11,648.2	8,528.5	13,138.8	4,596.2	218,990	1,119	313,150	2,342,362	580	3	458.9	3.0
5/9/13	11,849	8,630	13,412	4678.7	255,904	19,812	320,777	2,399,412	530	3	416.3	8.4
5/16/13	11,888	8,640	13,481	4791.6	263,982	22,022	322,238	2,410,340	650	3	510.5	1.6
5/21/13	11,948	8,671	13,598.3	4810.4	275,855	27,678	324,826	2,429,698	590	3	463.4	1.5
5/30/13	12,044	8,776	13,816.5	4850.6	4,181	45,098	329,917	2,467,779	--	3	--	1.6

TABLE 2

EXXONMOBIL/BP SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

Date	<i>Groundwater Extraction Data</i>								<i>Air Stripper Operational Data</i>			
	R1 Hour Meter	R2 Hour Meter	Total Hour Meter	Air Stripper Hour Meter	R1 Totalizer Reading	R2 Totalizer Reading	Effluent Totalizer Reading	Volume of Water Treated	Air Stripper Velocity	Air Stripper Pressure	Air Stripper Flow Rate	Effluent PID
6/4/13	12,093	8,791	13,933.9	4968.0	13,907	47,673	331,728	2,481,325	--	3	--	5.9
6/13/13	12,176	8,811	14,151.5	4990.0	30,558	51,206	334,672	2,503,347	--	3	--	2.9
6/21/13	12,241	8,826	14,340.8	5007.0	44,773	53,501	336,991	2,520,693	--	3	--	1.3
6/28/13	12,265	8,831	14,411.3	5111.3	49,755	54,369	337,765	2,526,482	--	3	--	--
7/2/13	12,309	8,865	14,508.5	5124.9	58,355	58,953	339,604	2,540,238	--	3	--	--
7/10/13	12,377	8,891	14,706.0	5141.6	71,882	61,260	341,886	2,557,307	--	3	450.0	--
7/16/13	12,421	8,904	14,847.8	5152.0	80,757	62,303	343,308	2,567,944	--	3	350.0	--
7/23/13	12,471	8,918	15,016.8	5163.2	90,569	63,201	344,930	2,580,076	--	3	400.0	1.9
7/30/13	12,515	8,931	15,180.3	5173.0	99,360	63,662	346,367	2,590,825	--	3	459	2.5
8/8/13	12,569	8,932	15,395.8	5184.7	110,207	64,062	348,093	2,603,736	--	3	382	6.4
8/12/13	12,579	8,932	15,440.6	5240.6	112,330	64,109	348,483	2,606,653	--	3	391	2.3
8/20/13	12,614	8,932	15,632.3	5251.1	121,330	64,159	350,068	2,618,509	--	3	402	9.9
8/26/13	12,635	8,932	15,775.5	5257.4	127,129	64,159	351,078	2,626,063	--	3	487	15.5
9/5/13	12,644	8,934	15,841.7	5438.0	129,747	65,489	351,884	2,632,092	--	3	383	14.2
9/9/13	12,649	8,937	15,854.2	5521.2	131,185	67,476	352,464	2,636,431	--	--	--	--
9/19/13	12,719	8,945	16,098.7	5542.7	146,421	72,720	355,656	2,660,307	--	4	401	4.4
9/26/13	12,755	8,954	16,236.0	5585.8	155,680	78,706	357,815	2,676,456	--	4	404	404
10/3/13	12,794	9,005	16,331.0	5677.9	165,304	87,370	360,351	2,695,425	--	4	--	0.0
10/11/13	12,800	9,019	16,345.1	5858.8	166,680	89,541	361,061	2,700,736	--	4	422	0.3
10/17/13	12,864	9,070	16,427.4	5942.9	180,933	96,710	364,146	2,723,812	--	4	394	1.6
10/24/13	12,887	9,078	16,474.2	6072.1	188,230	98,255	365,266	2,732,190	--	4	394	1.2
11/01/13	12,984	9,109	16,644.0	6129.6	208,611	103,550	369,232	2,761,855	--	4	--	0.8
11/7/2013	13,000	9,122	16,667.5	6255.7	212,369	105,442	370,091	2,768,281	--	4	391	0.8
11/15/2013	13,096	9,190	16,734.9	6397.5	223,120	113,624	372,877	2,789,120	--	4	395	1.0

TABLE 2

Page 6 of 6

**EXXONMOBIL/BP SYSTEM-SUMMARY OF OPERATIONAL PARAMETERS
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON**

Date	<i>Groundwater Extraction Data</i>								<i>Air Stripper Operational Data</i>			
	R1 Hour Meter	R2 Hour Meter	Total Hour Meter	Air Stripper Hour Meter	R1 Totalizer Reading	R2 Totalizer Reading	Effluent Totalizer Reading	Volume of Water Treated	Air Stripper Velocity	Air Stripper Pressure	Air Stripper Flow Rate	Effluent PID
11/22/2013	13,113	9,252	16,838.8	6494.7	238,687	125,520	376,827	2,818,666	--	3	--	1.4
11/27/2013	13,165	9,271	16,955.5	6513.8	251,048	129,242	379,294	2,837,119	--	3	--	1.1
12/2/2013	13,172	9,273	16,972.8	6621.9	252,533	129,633	379,690	2,840,081	--	--	--	--
12/16/2013	13,172	9,273	16,972.8	6621.9	252,533	129,633	379,690	2,840,081	--	--	--	--
12/20/2013	13,227	9,292	17,404.1	6638.8	265,790	134,115	382,327	2,859,806	--	4	380	2.3
12/23/2013	13,228	9,293	17,405.7	6639.0	266,002	134,275	382,404	2,860,382	--	5	55	0.0
1/3/2014	13,229	9,294	17,407.1	6639.8	266,267	134,536	382,670	2,862,372	--	4	380	1.5
1/7/2014	13,254	9,317	17,436.9	6719.8	272,727	140,736	384,367	2,875,065	--	3	345	3.0
1/17/2014	13,358	9,416	17,634.9	6816.9	7,765	164,248	390,943	2,924,254	--	5	310	0.7
1/20/2014	13,368	9,425	17,644.1	6881.4	10,071	164,672	391,331	2,927,156	--	3	303	2.0
1/31/2014	13,465	9,563	17,846.2	6976.6	34,022	170,854	395,347	2,957,196	--	5	380	--
2/14/2014	13,541	9,647	17,970.0	7021.3	52,725	190,069	398,099	2,977,781	--	5	316	0.0
2/18/2014	13,582	9,706	18,044.6	7049.5	62,729	203,041	401,151	3,000,609	--	5	380	0.0
2/26/2014	13,681	9,843	18,211.0	7139.1	86,448	223,290	407,032	3,044,599	--	5	283	0.0
2/28/2014	13,715	9,873	18,254.2	7156.6	94,691	227,864	408,667	3,056,829	--	5	380	0.0

Notes:

scfm Standard cubic feet per minute

°F Degrees Fahrenheit

ppmV Parts per million volume

-- Not collected

TABLE 3

PHILLIPS 66 SYSTEM-DISSOLVED PHASE ANALYTICAL DATA
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

Date	Total Influent								Air Stripper Effluent								Carbon Midpoint								Total Effluent							
	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethy- benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHo ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethy- benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHo ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethy- benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHo ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethy- benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHo ($\mu\text{g/L}$)	pH (S.U.)	FOG ($\mu\text{g/L}$)		
12/21/10	4,000	6,500	330	6,100	45,000	<2500	240 J	67	120	5.2	101	730	350	36 J	0.64 J	0.8 J	0.044 J	1.28 J	33 J	110 J	66 J	<2.0	0.36 J	0.016 J	0.10 J	<50	92 J	64 J	7.68	--		
01/10/11	3,620	5,630	328	6,950	42,000	1,540	407	49.3	65.9	4	76.3	328	160	<385	<1.0	<1.0	<1.0	<3.0	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	<50	<77.7	<388	7.8	--		
02/16/11	2,330	3,120	224	4,500	43,000	1,580	<385	325	548	26	431	5,240	337	<426	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<3.0	<50.0	<320	<381	7.5	--		
03/08/11	3,480	4,330	219	5,650	45,100	12,800	2,550	187	313	16.5	209	2,720	386	<379	--	--	--	--	--	--	--	<1.0	<1.0	<1.0	<3.0	<50.0	114	<388	7.7	--		
04/19/11	6,300	408	7,420	6,080	58,000	1,800	<380	111	9.5	177	145	1,510	320	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<78	<390	--	--		
05/17/11	5,910	517	9,110	6,790	78,000	1,300	<380	78.6	8.1	142	119	993	270	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<75	380	<1.0	<1.0	<1.0	<3.0	<50.0	180	<400	--	--		
06/14/11	6,870	586	10,100	6,780	66,700	1,400	<380	147	3.5	176	221	1,590	210	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<78	<390	7.1	--		
07/06/11	9,510	731	12,300	7,910	59,000	1,200	<380	<1.0	<1.0	<3.0	<50.0	<1.0	<1.0	<1.0	<3.0	<50.0	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<82	<410	--	--
08/17/11	454	590	28.6	589	4,730	<390	170	<1.0	<1.0	<1.0	<3.0	<50.0	<380	<76	<1.0	<1.0	<1.0	<3.0	<50.0	<77	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--			
09/07/11	130	173	9.8	159	1,530	240	<380	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	170	<400	8.3	--			
10/14/11	102	89.9	3.2	95.5	693	150	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<78	<390	--	--		
11/23/11	1,440	1,930	118	1,500	12,700	200	<390	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<77	<380	--	--			
12/09/11	1,250	1,090	73.5	1,680	12,200	150	<380	11.3	7.4	<1.0	31.6	291	<82	<410	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--		
01/10/12	3,150	4,130	263	3,360	26,700	290	<380	2.9	2.8	<1.0	6.5	90	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--		
02/09/12	837	886	102	1,480	18,300	590	<380	2.0	1.4	<1.0	5.3	69.9	140	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<75	<380	--	--		
03/07/12	1,690	1,800	134	2,690	15,500	190	<380	10.7	9.5	<1.0	42.6	235	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<75	<380	--	--		
04/05/12	1,060	758	40.2	3,250	22,700	600	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<140	<390	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<80	<400	--	--		
05/01/12	1,300	993	46.3	3,160	20,900	1,300	<380	11.8	8.7	<1.0	32.9	279	150	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<77	<380	--	--		
06/01/12	554	420	<10.0	1,070	4,520	300	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<93	<470	<1.0	<1.0	<1.0	<3.0	<50.0	<75	<380	--	--		
07/13/12	752	892	32.6	671	5,270	120	<390	<1.0	1.8	1	<3.0	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<79	<400	<1.0	<1.0	<1.0	<3.0	<50.0	<78	<390	--	--		
08/09/12	118	176	13.8	305	2,050	120	<380	<1.0	<1.0	<1.0	<3.0	<50.0	120	<410	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--		
09/11/12	86.8	77.7	4.9	90	710	<77	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<75	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--		
10/24/12	459	320	9	888	5,590	430	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<170	<330	<1.0	<1.0	<1.0	<3.0	<50.0	<170	<350	<1.0	<1.0	<1.0	<3.0	<50.0	<160	<320	7.2	--		
11/30/12	1,860	2,710	155	2,080	17,100	1,900	230	<1.0	<1.0	<1.0	<3.0	<100	<110	<110	<1.0	<1.0	<1.0	<3.0	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	<100	<100	400	--	--		
12/17/12	3,200	2,420	42	4,180	17,800	4,600	320	11.2	4.6	<1.0	94.8	455	780	490	<1.0	<1.0	<1.0	<3.0	<100	440	<1.0	<1.0	<1.0	<3.0	<100	<100	400	--	--			
01/10/13	2,560	2,410	52	3,050	11,100	14,400	27,500	<1.0	<1.0	<1.0	<3.0	<100	460	<100	<1.0	<1.0	<1.0	<3.0	<100	<100	<100	<1.0	<1.0	<1.0	<3.0	<100	<110	<110	--	--		
02/14/13	2,550	2,500	75	2,480	17,300	3,400	<410	100	77.2	1.6	137	944	1,800	<420	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--	--		
03/08/13	408	342	<5.0	458	2,500	1,100	<430	<1.0	<1.0	<1.0	<3.0	<100	<430	<430	<1.0	<1.0	<1.0	<3.0	<100	<410	<410	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--	--		
04/18/13	2,340	2,320	80	3,420	19,800	2,100	<400	155	75.2	2	311	1,510	1,900	<410	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--	--		
05/16/13	1,930	2,460	252	2,220	14,900	<390	<390	12.8	10.1	<1.0	14.5	124	<380	<380	<1.0	<1.0	<1.0	<3.0	<100	<380	<380	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--	--		
06/13/13	2,500	1,970	107	3,090	15,200	640	<400	440	240	5.9	758	4,010	640	<390	<1.0	<1.0	<1.0	<3.0	<100	<390	<390	<1.0	<1.0	<1.0	<3.0	<100	<390	<390	7.1	<6200		
07/16/13	828	449	<10.0	1730	8,040																											

TABLE 4

PHILLIPS 66 SYSTEM-VAPOR PHASE ANALYTICAL DATA
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

Soil Vapor Extraction Well Influent									Air Stripper Effluent									Total Influent									Carbon Midpoint 1									Carbon Midpoint 2									Total Effluent								
Date	Benzene (ppmV)	Toluene (ppmV)	Ethyl-benzene (ppmV)	Total Xylenes (ppmV)	TPHg (ppmV)	Benzene (ppmV)	Toluene (ppmV)	Ethyl-benzene (ppmV)	Total Xylenes (ppmV)	TPHg (ppmV)	Benzene (ppmV)	Toluene (ppmV)	Ethyl-benzene (ppmV)	Total Xylenes (ppmV)	TPHg (ppmV)	Benzene (ppmV)	Toluene (ppmV)	Ethyl-benzene (ppmV)	Total Xylenes (ppmV)	TPHg (ppmV)	Benzene (ppmV)	Toluene (ppmV)	Ethyl-benzene (ppmV)	Total Xylenes (ppmV)	TPHg (ppmV)	Benzene (ppmV)	Toluene (ppmV)	Ethyl-benzene (ppmV)	Total Xylenes (ppmV)	TPHg (ppmV)	Benzene (ppmV)	Toluene (ppmV)	Ethyl-benzene (ppmV)	Total Xylenes (ppmV)	TPHg (ppmV)																		
11/15/10	3.1	6.1	0.18	1.18	33.6	3.8	5.2	<0.16	4.5	<11.2	0.13	0.41	0.02	0.242	2.6	0.018	0.033	<0.0015	0.0133	1.5	<0.017	<0.017	<0.017	<0.051	6.7	0.21	0.68	<0.017	<0.051	11.2	0.13	0.56	0.01	0.08	11.66																		
12/21/10	0.53	1.46	0.09	0.67	14.79	11.61	14.63	0.48	6.35	65.43	5.65	7.45	0.25	3.35	31.29	0.0056	0.06	0.004	0.03	2.53	<0.0627	0.07	0.01	0.04	3.70	0.13	0.56	0.01	0.08	3.5																							
01/10/11	0.21	0.56	0.023	0.212	2.6	4.6	6.7	<0.76	3.15	<53.10	5.7	7.7	0.24	2.89	18.0	0.064	0.096	<0.01	<0.042	2.4	<0.0014	0.039	<0.0014	<0.042	0.33	0.051	0.23	<0.018	<0.054	3.5																							
02/16/11	10.0	50.9	<2.2	20.8	244	9.2	14.8	0.48	3.6	11.8	14.3	13.4	0.65	8.4	18.9	1.6	<.07	<.07	<.497	<4.9	<0.017	0.058	<0.017	0.125	<1.2	<0.072	0.29	<0.072	<0.212	<5.0																							
03/08/11	3.5	12.0	<1.1	4.7	134	13.5	25.7	0.77	7.2	56.4	8.9	14.5	<0.54	3.88	<37.6	<0.0034	<0.0034	<0.0034	<0.0101	<0.24	<0.0084	0.0014	<0.00084	<0.00084	<0.00084	<0.0056	0.088	<0.0056	<0.166	<0.4																							
04/13/11	0.60	4.1	0.43	4.4	18.7	--	--	--	--	--	<0.041	0.15	<0.041	0.051	9.9	0.0047	0.042	0.0018	0.0047	2.2	<0.0084	0.0088	<0.00084	<0.00084	0.88	<0.0084	<0.00084	<0.00084	<0.00084	1.1																							
05/17/11	7.9	27.2	1.1	12.9	287	25.7	49.7	<4.5	12.7	<312	7.9	27.2	1.1	12.9	287	0.0024	0.013	<0.0015	0.0107	0.53	<0.014	0.023	<0.014	<0.014	0.17	0.019	0.054	0.043	0.0304	0.26																							
06/07/11	4.6	20	0.68	8.6	172	83.8	152	6.2	56.5	330	0.40	1.4	0.052	0.40	14.0	<0.0084	0.0012	<0.00084	<0.00084	<0.059	0.029	0.11	0.012	0.018	<0.059	<0.0084	<0.00084	<0.00084	<0.00084	0.12																							
07/06/11	33.1	141	3.5	54.1	1,210	29.2	40.7	0.76	27.4	152	0.32	1.3	<0.028	0.47	14.8	<0.0084	0.0037	<0.0084	<0.00254	<0.059	<0.0084	0.015	<0.0084	<0.0254	<0.059	<0.014	<0.014	<0.028	<0.099																								
08/17/11	6.9	29.8	1.7	67	1,000	<0.0084	0.0011	<0.0084	0.0017	0.16	1.3	9.9	0.33	10.2	186	<0.0084	0.002	<0.0084	0.0029	0.2	0.001	0.007	0.035	0.0132	1.1	0.057	0.005	<0.0084	0.0127	0.56																							
09/07/11	1.1	6.7	0.5	24.7	271	<0.0013	0.021	<0.0013	0.051	0.69	<0.27	0.44	<0.27	2.13	<18.8	<0.0014	0.016	<0.0014	<0.0041	0.1	<0.0013	0.025	0.017	0.109	1.5	<0.013	0.018	<0.013	<0.039	0.14																							
10/14/11	10.4	40.1	1.5	52.5	933	0.083	0.28	0.092	0.29	6.2	0.65	2.4	0.078	2.7	58.1	0.0061	0.028	<0.0014	0.036	1.2	<0.0087	0.0091	0.0018	0.092	3.3	<0.0084	0.046	<0.0084	0.012	0.94																							
11/29/11	4.5	6.7	<0.27	4.6	352	0.014	0.048	0.023	0.070	1.8	0.12	0.18	<0.0067	0.112	9.2	<0.0014	0.017	<0.0014	<0.0042	0.22	<0.0091	0.0047	<0.00084	<0.0038	0.24	0.014	0.039	<0.0084	0.035	0.21																							
12/09/11	1.3	2.8	<0.28	<0.84	111	0.61	0.47	0.025	0.66	4.1	0.065	0.12	<0.017	<0.015	4.7	<0.0084	0.0081	<0.00084	<0.00254	0.29	<0.0063	0.0074	<0.00084	<0.00254	0.38	<0.0084	0.044	<0.0084	0.0254	0.19																							
01/10/12	1.5	3.1	0.12	0.99	42.1	0.013	0.039	0.014	0.022	0.32	0.047	0.076	<0.0039	0.027	1.1	<0.0084	0.0039	<0.0084	<0.00254	<0.059	0.018	0.02	<0.00084	<0.00254	0.18	<0.0089	0.021	<0.0089	0.0254	0.28																							
02/09/12	0.11	0.22	<0.017	0.15	<1.2	3.1	2.1	<0.12	3.6	<9.4	0.87	0.64	0.035	1.24	2.5	<0.0084	0.013	<0.0084	0.005	0.33	<0.0084	0.0046	<0.00084	<0.00254	0.2	<0.0088	0.012	<0.0084	<0.00254	0.32																							
03/07/12	0.90	1.9	0.051	0.323	9.7	5.1	4.6	0.19	5.2	19.7	0.90	1.9	0.051	0.233	9.7	<0.0084	0.0045	<0.0084	<0.00254	0.62	<0.0084	0.033	<0.00084	<0.0137	0.74	<0.0084	0.038	<0.0084	<0.00254	0.26																							
04/05/12	0.019	0.066	<0.0042	0.051	1.0	<0.0067	0.014	<0.0067	0.016	0.60	0.33	0.3	<0.017	0.39	2.6	<0.0084	0.011	<0.0084	<0.00254	0.17	<0.00840	0.0089	<0.0012	<0.0084	<0.0254	0.35																											
05/01/12	1.1	2.1	0.019	0.288	87.2	18.4	14.3	<0.54	13.8	77.4	0.02	0.0	<0.0042	<0.0126	0.95	0.035	0.12	0.016	0.066	0.48	0.001	0.041	<0.00840	0.0057	0.37	<0.0084	0.047	<0.0084	0.0254	0.53																							
06/08/12	2.7	5.4	<0.27	1.41	124	0.0014	0.006	<0.0084	0.003	0.84	0.02	0.0	0.002	0.052	1.5	<0.0084	0.0053	<0.0084	<0.00254	0.41	<0.00840	0.005	<0.00084	<0.00254	0.40	<0.0084	0.0084	<0.0084	<0.00254	0.25																							
07/13/12	7.1	16.1	1	8.7	374	0.0029	0.016	0.021	0.0206	0.75	0.02	0.3	0.019	0.071	8.4	0.024	0.028	<0.0084	<0.00254	1.30	0.0013	0.034	<0.0084	<0.00254	1.00	0.001	0.034	<0.0084	0.0254	0.93																							
08/09/12	10.8	24.3	1.8	20.6	753	0.0004	0.008	0.003	0.04	1.4	0.30	1.0	0.054	0.67	22.5	0.0042	0.0073	0.013	0.00505	1.40	0.0025	0.025	<0.00084	<0.00254	0.72	0.00092	0.015	<0.00084	<0.00254	0.33																							
09/11/12	7.5	57.5	1.4	37.2	588	<0.0067	0.012	<0.0067	0.0080	1.2	0.94	3.8	0.160	3.1	89.1	<0.0084	0.0018	<0.0084	<0.00254	1.50	<0.0084	0.021	<0.0084	<0.00254	1.60	<0.0084	0.037	<0.0084	<0.00254	0.71																							
10/24/12	3.4	34.2	1.6	36.2	615	<0.045	0.09	<0.045	0.305	<3.2	0.1	0.68	0.051	0.61	17	0.0037	0.023	0.037	0.0205	0.9	0.0094	0.009	0.0015	0.0164	0.76	<0.0084	0.021	<0.0084	<0.00254	0.087																							
11/30/12	1.2	0.27	0.24	2.29	37.5	4.1	4.5	0.14	2.12	5.8	0.21	0.28	0.018	0.253	<1.2	<0.0042	<0.0042	<0.0042	<0.016	0.97	<0.0084	0.00094	<0.0084	<0.00254	0.071	<0.0084	0.009	<0.0084	<0.00254	0.091																							
12/17/12	0.41	0.89	0.055	0.49	7.6	0.061	0.053	<0.015	0.061	<1.1	0.021	0.037	<0.0050	0.035	0.49	0.032	0.056	0.075	0.042	0.96	0.021	0.091	<0.010	0.032	0.18	<0.0084	0.012	<0.0084	<0.00254	0.11																							
01/10/13	0.042	0.15	<0.017	0.29	7.1	<0.017	<0.017	<0.017	<0.051	<1.2	<0.017	<0.017	<0.051	<1.2	<0.0084	0.0051	<0.0084	0.00205	<0.059	<0.017	<0.017	<0.051	<1.2	<0.0084	<0.0084	<0.0084	<0.00254	0.059																									
02/14/13	0.058	0.1	0.014	0.09	1.9	0.0085	0.012	0.0019	0.0164	0.14	0.035	0.040	0.0025	0.0270	0.25	<0.0084	0.0084	0.0084	<0.00084	0.0224	0.21	0.0099	0.019	<0.0099	<0.00284	0.34	<0.0084	0.017	<0.0084	<0.00254	0.059																						
03/08/13	<0.017	0.2	<0.017	0.223	81.3	1.4	0.85	<0.023	1.03	5	0.70	0.41	<0.023	0.35	5.0	<0.0013	<0.013	<0.013	<0.039	0.24	<0.0084	0.014	<0.0084	<0.00254	0.27	<0.0084	0.030	<0.0084	<0.00254	0.15																							
04/18/13	0.04	0.19	<0.028	0.27	9																																																

TABLE 5

EXXONMOBIL/BP SYSTEM-DISSOLVED PHASE ANALYTICAL DATA
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

Date	R1 Influent						R2 Influent						Total Influent						Total Effluent												
	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	FOG	pH	
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(S.U.)		
12/21/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	600	7.8	300	157	4,300	550	54 J	1.0 J	0.33 J	0.75 J	0.92 J	63	160	41 J	--	8.12	
01/10/11	1,750	37.2	547	138	4,750	871	<408	738	12.4	458	205	5,670	728	<388	1,380	26.5	475	186	5,340	832	<377	5.2	<1.0	2.1	<3.0	<50.0	118	<381	--	7.6	
02/16/11	548	25.9	381	98.3	4,830	563	<379	30	<1.0	58.9	25.5	1,430	281	<379	446	11.9	99.5	58.2	2,280	436	<379	2.4	<1.0	<1.0	<3.0	53.8	159	<379	--	7.6	
03/08/11	1,400	69.5	556	160	7,200	690	<377	500	4.8	247	145	4,820	331	<377	958	39.9	383	146	5,750	472	<377	3.2	<1.0	1.7	<3.0	62.1	<75.8	<379	--	7.9	
4/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	916	31.4	272	83.8	3,999	670	<380	5.1	<1.0	1.4	<3.0	134	290	<380	<4700	--	
5/17/2011	1,940	191	811	214	7,620	940	<380	754	9.5	706	251	7,810	850	<380	1,370	11.6	662	189	6,870	840	<380	26.2	2.3	10.9	5	263	160	<380	--	--	
6/14/2011	1,670	230	671	158	8,040	840	<380	1,080	9.8	752	167	9,450	730	<380	1,540	177	640	155	7,888	800	<380	25.2	2.9	9.5	4.1	252	120	<380	--	7.6	
7/6/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,080	66.4	118	61.2	3,060	560	<380	21.8	<1.0	1.3	<3.0	163	80	<380	<4800	--	
8/17/2011	1,920	36.2	465	66.8	6,110	1,600	<400	1,570	9	682	46	8,310	930	<400	1,830	26.8	141	51.7	4,730	480	<380	5.4	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
9/7/2011	2,300	30.6	574	47	6,520	770	<380	976	6.5	517	15	5,830	600	<380	1,560	13.4	6.4	35	3,380	510	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	8.4	
10/14/2011	2,090	26.1	409	37.1	4,940	770	<390	221	2.3	272	6.7	3,520	400	<380	1,340	16.3	218	23.8	3,720	640	<380	3.5	<1.0	<1.0	<3.0	<50.0	100	<380	--	--	
11/22/2011	1,610	22.6	341	34.0	4,890	0.5	<0.39	45.7	1.1	35.9	4.4	565	<0.075	<0.38	537	7.4	109	<15.0	1,670	190	<380	1.6	<1.0	<1.0	<3.0	<50.0	<75	<380	--	--	
12/9/2011	1,220	19.9	338	26.6	4,180	0.41	<0.38	301	2.3	514	4.5	5,760	0.36	<0.38	132	1.8	435	5.7	4,290	190	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
1/10/2012	2,070	28.2	750	41.5	4,090	480	<400	37.2	<1.0	55.3	4.0	629	78	<390	968	20.2	374	33.0	3,270	260	<390	6.9	<1.0	3.3	<3.0	<50.0	<77	<380	<5000	7.7	
2/9/2012	2,050	34.4	854	72.6	6,150	430	<380	342	2.6	263	4.2	4,510	390	<380	1,900	25.5	754	67.7	7,000	540	<380	16.8	<1.0	7.1	<3.0	75.7	120	<380	--	--	
3/7/2012	1,520	31.7	647	118	5,790	860	<380	--	--	--	--	--	--	--	1,520	31.7	647	118	5,790	860	<380	2.7	<1.0	1.4	<3.0	<50.0	<76	<380	--	--	
4/5/2012	1,930	49.7	784	184	7,560	1,100	<380	631	3.9	408	52.7	5,320	630	<380	1,270	28	500	113	5,630	660	<380	1.3	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
5/1/2012	1,880	56.6	714	132	6,270	940	<380	720	6	508	77	6,230	830	<380	1,660	40.8	682	108	5,980	1,200	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
6/1/2012	1,960	67.2	901	121	4,970	740	<380	17	<1.0	10	<3.0	215	--	--	960	37.7	421	69.1	2,780	420	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
7/13/2012	1,670	36.8	704	73	6,110	660	<390	882	6	712	22	8,290	840	<380	1,860	32.5	547	67.1	6,410	780	<380	1.1	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
08/09/12	1,730	32.3	507	62.4	4,570	590	<390	745	5	632	15	6,010	590	<380	1,170	13.3	154	11.5	2,760	360	<400	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
09/11/12	2,220	25.7	566	35.7	4,580	830	<380	977	5	501	6	5,590	690	<380	1,750	15.8	123	26	3,920	590	<380	<1.0	<1.0	<1.0	<3.0	<50.0	<76	<380	--	--	
10/24/12	1,570	18.8	361	27.3	5,320	860	<820	420	4.2	87.7	4.9	1,380	<160	<820	1,310	14.7	254	22.8	4,380	690	<820	<1.0	<1.0	<1.0	<3.0	<50.0	<160	<820	<5200	7.60	
11/30/12	855	20.0	406	<30.0	7,710	1800	<400	410	11.7	<1.0	11.3	<3.0	660	210	<110	788	11.4	174	<30.0	5,510	1000	120	1.3	<1.0	<1.0	<3.0	<100	180	<110	--	--
12/28/12	1,670	24.1	668	83.7	10,900	1700	<420	9.2	<1.0	9.6	<3.0	315	<110	130	909	14.0	315	47.0	4,970	<110	360	<1.0	<1.0	<1.0	<3.0	<100	960	310	--	--	
01/10/13	2,180	35.3	717	112	8,240	2600	<110	11.4	<1.0	8.5	<3.0	182	<100	100	1,200	19.8	392	63.7	4,880	1300	<110	<1.0	<1.0	<1.0	<3.0	<100	<100	--	--		
02/14/13	1,280	34.2	263	39.3	4,080	1,000	<410	660	<5.0	431	54.5	4,910	1,300	<420	1,660	45.9	508	80.4	4,790	1,800	<410	2.0	<1.0	<1.0	<3.0	<100	<410	<410	<5100	7.40	
03/08/13	2,110	94.0	656	81.4	4,860	1,700	<420	17	<1.0	<1.0	<3.0	<100	<410	<410	1,360	58.0	400	51.8	2,940	940	<430	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--	--	
04/18/13	1,890	1,160	665	2,250	5,980	1,800	<420	858	3.8	483	18.4	4,950	1,300	<410	804	1670	270	1,060	18,100	4,900	<400	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--	--	
05/16/13	2,010	41.4	546	88.2	3,970	870	<390	924	3.6	492	22.1	4,740	750	<420	1,580	14.8	232	1,500	11,900	1,500	<420	1.4	<1.0	<1.0	<3.4	<100	<420	<420	--	--	
06/13/13	1,940	36.4	542	76.2	4,550	850	<400	1,070	6	627	<15.0	6,100	1,100	<420	1,580	26.1	129	112	4,160	1,100	<390	<1.0	<1.0	<1.0	<3.0	<100	<390	<6300	7.3		
07/16/13	2,190	24.6	482	51.2	4,520	1,200	<410	10	<5.0	458	<15.0	5,430	990	<400	1,790	10	39.6	38.4	2,840	1,100	<410	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--		
08/20/13	2,300	23.1	415	34.4	4,310	1,100	<420	<5.0	a	<5.0	a	<100	a	<420	a	1,790	<10	<30	3,170	730	<410	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--		
09/19/13	2,210	21	384	<60	4030	960	<400	523	3.1	336	<3.0	3,220	580	<400	1,560	<10	28.8	<30	2,210	750	<460	<1.0	<1.0	<1.0	<3.0	<100	<400	<400	--		
10/03/13	1,520	14.6	354	<30.0	3,810	960	<420	5.9	<1.0	1.7	<3.0	<100	<420	<420	535	5.5	113	<15.0	1,430	440	<400	<1.0	<1.0	<1.0	<3.0	<100	<400</td				

TABLE 6

Page 1 of 2

**EXXONMOBIL/BP SYSTEM-VAPOR PHASE ANALYTICAL DATA
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON**

Date	Air Stripper Effluent				
	Benzene <i>(ppmV)</i>	Toluene <i>(ppmV)</i>	Ethyl-benzene <i>(ppmV)</i>	Total Xylenes <i>(ppmV)</i>	TPHg <i>(ppmV)</i>
12/21/10	0.47	0.09	0.16	0.01	<14
01/10/11	0.83	0.023	0.24	0.107	3.5
02/16/11	0.32	0.28	<0.067	<0.197	<4.7
03/08/11	0.69	<0.067	0.17	<0.197	<4.7
04/13/11	0.47	<0.041	<0.041	<0.041	7.8
05/17/11	3.2	<0.28	0.94	<0.28	<19.5
06/07/11	2.6	0.27	0.57	0.021	5.4
7/6/2011	0.27	0.11	0.013	0.051	2.0
8/24/2011	0.88	0.01	0.00089	0.0281	1.5
9/7/2011	0.46	<0.017	<0.017	<0.052	<1.2
10/14/2011	0.76	0.012	0.055	0.0275	2.4
11/29/2011	0.14	< 0.017	0.019	< 0.051	< 1.2
12/9/2011	< 0.0014	0.0075	< 0.0014	< 0.0042	0.27
1/10/2012	0.013	0.0053	0.0029	0.0035	0.17
2/9/2012	0.18	0.015	0.05	0.0077	0.83
3/7/2012	0.38	0.011	0.11	0.0273	1.8
4/5/2012	0.58	0.067	0.15	0.1970	4.7
5/1/2012	0.86	0.036	0.29	0.0680	3.6
6/1/2012	0.44	0.015	0.10	0.0067	0.7
7/13/2012	0.79	0.007	0.08	0.1970	6.0
8/9/2012	0.11	0.010	<0.0067	<0.0197	0.79
9/11/2012	0.56	0.021	<0.017	0.023	5.0
10/24/2012	<0.0450	0.090	<0.0450	0.305	< 3.2
11/30/2012	0.21	0.28	0.140	0.253	< 1.2
12/17/2012	<0.0042	<0.0042	<0.0042	<0.0126	<0.29
1/10/2013	0.054	0.0020	0.018	0.0102	0.16
2/14/2013	<0.0036	0.0048	<0.0036	<0.0109	<0.25
3/8/2013	<0.0084	0.030	<0.0084	<0.00254	0.15
4/18/2013	0.83	0.31	0.21	0.62	3.7
5/16/2013	0.51	<0.017	<0.017	0.30	2.2
6/13/2013	0.55	0.0066	0.012	0.031	2.5
7/16/2013	0.74	<0.017	<0.017	<0.051	4.1
8/26/2013	0.85	<0.045	<0.045	<0.135	<3.1
9/19/2013	0.85	<0.017	<0.017	<0.051	2.7
10/3/2013	0.23	<0.017	0.027	<0.051	<1.2
11/1/2013	0.97	0.45	0.16	<0.051	3
12/20/13	1.6	<0.017	0.25	<0.051	4.1
1/7/2014	0.81	<0.034	0.12	<0.101	4.8
2/18/2014	0.0038	0.0019	<0.00084	<0.003	0.17

TABLE 6

Page 2 of 2

**EXXONMOBIL/BP SYSTEM-VAPOR PHASE ANALYTICAL DATA
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON**

Air Stripper Effluent

<i>Date</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>TPHg</i>
-------------	----------------	----------------	---------------------------	--------------------------	-------------

Notes:

BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes
analyzed by EPA method TO 14

TPHg Total petroleum hydrocarbons as gasoline analyzed by
EPA method TO 14

ppmV Parts per million by volume
-- Not analyzed

<X Not detected above reporting limit X

J Estimated Value

TABLE 7

PHILLIPS 66 SYSTEM-MASS REMOVAL SUMMARY
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

Date	Soil Vapor Extraction System								Groundwater Extraction System								Uncaptured Emissions			
	Hour Meter	Total Flowrate	Total Influent TPHg Concentration (ppmV)	Total Influent Benzene Concentration (ppmV)	TPHg Removal Rate (lbs/day)	Benzene Removal Rate (lbs/day)	Hour Meter	Volume of Water Treated (gallons)	Total Influent TPH Benzene Concentration (µg/L)	Total Influent TPH Removal Rate (lbs/day)	Benzene Removal Rate (lbs/day)	Total TPH Removal Rate (lbs/day)	Total Benzene Removal Rate (lbs/day)	Cumulative TPH Removed (lbs)	Cumulative Benzene Removed (lbs)	Effluent TPHg Concentration (ppmV)	Effluent Emissions Rate (lbs/day)	Cumulative Uncaptured Emissions (lbs)		
	(hours)	(scfm)	(ppmV)	(ppmV)	(lbs/day)	(lbs/day)	(hours)	(gallons)	(µg/L)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs)	(lbs)	(ppmV)	(lbs/day)	(lbs)		
11/15/10	999.8	210	2.6	0.13	0.2	0.01	20,524.6	3,176,060	27,645	845	0.62	0.02	0.79	0.03	52,442.9	1,722.4	11.2	0.8		
12/21/10	1,419.7	210	31.14	5.62	2.1	0.3	20,941.0	3,222,505	45,000	4,000	2.55	0.23	4.65	0.57	52,456.7	1,722.8	11.7	0.8	13.7	
01/10/11	1,678.4	210	18.00	5.7	1.2	0.3	21,196.2	3,294,629	43,947	3,620	2.49	0.21	3.70	0.55	52,506.4	1,728.9	3.5	0.2	16.3	
02/16/11	2,064.0	210	18.9	14.3	1.3	0.9	21,577.0	3,402,308	44,580	2,330	1.74	0.09	3.02	0.97	52,565.4	1,737.8	< 5	0.0	16.3	
03/08/11	2,339.9	210	<37.6	8.9	2.5	0.5	21,852.3	3,456,077	60,450	3,480	2.68	0.15	5.21	0.70	52,600.1	1,748.9	< 0.4	0.0	16.3	
04/13/11	2,860.7	210	9.9	<0.041	0.7	0.003	22,370.8	3,570,740	59,800	6,300	1.62	0.17	2.28	0.17	52,712.9	1,764.0	1.1	0.1	17.9	
05/17/11	3,409.9	210	287	7.9	19.3	0.5	22,918.6	3,644,673	79,300	5,910	2.08	0.15	21.41	0.64	52,765.1	1,767.9	0.26	0.018	18.3	
06/07/11	3,726.8	210	14.0	0.40	0.9	0.02	23,235.4	3,686,105	68,100	6,870	1.03	0.10	1.98	0.13	53,047.8	1,776.4	0.12	0.008	18.4	
07/06/11	4,001.1	210	14.8	0.32	1.0	0.02	23,510.2	3,706,920	60,200	9,510	0.42	0.07	1.41	0.09	53,070.4	1,777.8	< 0.099	0.0	18.4	
08/17/11	4499.8	100	186	1.3	6.0	0.04	24,010.50	3,724,200	4,900	454	0.01	0.00	5.98	0.04	53,099.8	1,779.6	0.56	0.018	18.8	
09/07/11	5006.5	100	18.8	<0.27	0.6	0.01	24,517.00	3,730,881	1,770	130	0.00	0.00	0.61	0.01	53,226.1	1,780.4	0.14	0.004	18.9	
10/14/11	5892.8	100	58.1	0.65	1.9	0.02	25,404.00	3,739,668	843	102	0.01	0.00	1.87	0.02	53,248.5	1,780.7	0.94	0.030	20.0	
11/29/11	6733.7	200	9.2	0.12	0.6	0.01	26244.1	3,765,595	12,900	1,440	0.25	0.03	0.84	0.03	53,314.0	1,781.4	0.21	0.013	20.5	
12/09/11	6974.6	200	4.7	0.065	0.3	0.004	26485.0	3,788,820	12,350	1,250	0.22	0.02	0.52	0.03	53,322.4	1,781.8	0.19	0.012	20.6	
01/10/12	7271.1	210	1.1	0.047	0.1	0.003	26778.2	3,815,090	26,990	3,150	0.63	0.07	0.70	0.08	53,328.8	1,782.1	0.28	0.019	20.8	
02/09/12	7718.1	200	2.5	0.87	0.2	0.051	27,225.00	3,866,760	18,890	837	0.39	0.02	0.55	0.07	53,341.9	1,783.5	0.32	0.021	21.2	
03/07/12	8285.0	200	9.7	0.90	0.6	0.052	27,791.70	3,925,008	15,690	1,690	0.30	0.03	0.92	0.08	53,354.8	1,785.1	0.26	0.017	21.6	
04/05/12	8866.9	190	2.6	0.33	0.2	0.018	28,373.80	3,981,040	22,701	1,060	0.41	0.02	0.57	0.04	53,377.3	1,787.2	0.35	0.021	22.1	
05/01/12	9476.8	200	0.95	0.02	0.1	0.001	28,983.80	4,035,820	22,200	1,300	0.28	0.02	0.35	0.02	53,391.7	1,788.1	0.53	0.034	23.0	
06/01/12	10105.6	200	1.5	0.02	0.1	0.001	29,612.80	4,076,110	4,820	554	0.03	0.00	0.12	0.00	53,400.7	1,788.6	0.25	0.016	23.4	
07/13/12	11016.9	200	8.4	0.02	0.5	0.001	30,524.40	4,100,410	5,390	752	0.04	0.01	0.58	0.01	53,405.4	1,788.8	0.93	0.060	25.7	
08/09/12	11406.3	210	22.5	0.3	1.5	0.018	30913.00	4,114,617	2,170	118	0.01	0.00	1.53	0.02	53,414.8	1,788.9	0.33	0.022	26.0	
09/11/12	11842.5	200	89.1	0.9	5.7	0.055	31349.10	4,126,110	710	87	0.00	0.00	5.72	0.05	53,442.5	1,789.2	0.71	0.046	26.8	
10/24/12	12868.7	210	17.0	<0.1	1.15	0.0061	32325.50	4,138,601	6,020	459	0.02	0.00	1.17	0.01	53,687.0	1,791.6	0.087	0.006	27.1	
11/30/12	13353.6	210	<1.2	0.2	0.1	0.013	32810.60	4,147,455	19,230	1,860	0.28	0.03	0.36	0.04	53,710.6	1,791.7	0.091	0.006	27.2	
12/17/12	13706.1	200	0.5	0.0	0.03	33163.00	4,173,100	22,720	3,200	0.57	0.081	0.60	0.08	53,715.9	1,792.3	0.11	0.007	27.3		
01/10/13	14229.2	200	<1.2	<0.017	0.1	0.001	33686.20	4,195,650	53,000	2,560	1.32	0.064	1.40	0.06	53,729.1	1,794.1	<0.059	0.004	27.4	
02/14/13	14611.9	210	0.25	0.035	0.0	0.002	34067.40	4,197,282	20,700	2,550	0.51	0.063	0.53	0.07	53,751.3	1,795.1	<0.059	0.004	27.5	
03/08/13	15035.2	210	5	0.7	0.3	0.043	34490.70	4,205,981	3,600	408	0.09	0.010	0.42	0.05	53,760.7	1,796.3	0.15	0.010	27.7	
04/18/13	15767.0	210	<15.8	1.5	1.1	0.092	35210.50	4,235,264	21,900	2,340	0.53	0.056	1.59	0.15	53,773.6	1,797.9	0.52	0.035	28.7	
05/16/13	15869.2	210	2.2	0.074	0.1	0.005	35356.20	4,243,186	14,900	1,930	0.36	0.046	0.51	0.05	53,781.3	1,798.6	<0.063	0.004	28.7	
06/13/13	16274.1	210	8.6	0.079	0.6	0.005	35761.60	4,326,984	15,840	2,500	0.38	0.061	0.96	0.07	53,789.9	1,799.5	<0.059	0.004	28.8	
07/16/13	16796.8	155	9.8	0.52	0.5	0.023	36018.90	4,362,195	8,730	828	0.21	0.020	0.70	0.04	53,806.6	1,800.2	0.4	0.020	29.2	
08/20/13	17209.3	175	19.4	0.13	1.1	0.007	36426.20	4,397,385	8,240	731	0.20	0.018	1.29	0.02	53,818.6	1,801.0	0.42	0.024	29.6	
09/19/13	17845.6	160	22	0.16	1.1	0.007	37062.70	4,429,763	2,370	396	0.06	0.009	1.19	0.02	53,852.7	1,801.6	1.1	0.056	31.1	
10/03/13	17912.8	160	7.9	0.55	0.4	0.026	37129.50	4,445,527	1,610	182	0.04	0.004	0.44	0.03	53,856.0	1,801.6	0.21	0.011	31.2	
11/01/13	18273.3	150	7.6	0.092	0.4	0.004	37488.30	4,511,374	4,740	678	0.11	0.016	0.48	0.02	53,862.7	1,802.1	<1.4	0.067	32.2	
12/20/13	19097.4	170	3.4	0.038	0.2	0.002	38310.30	4,594,035	2,490	116	0.06	0.003	0.25	0.00	53,879.2	1,802.8	0.67	0.037	33.4	
01/07/14	19452.1	180	4.6	0.061	0.3	0.003	38665.10	4,597,944	5,690	259	0.14	0.006	0.40	0.01	53,882.8	1,802.9	0.48	0.028	33.8	
02/14/14	20086.9	150	2.3	0.032	0.1	0.001	39395.50	4,690,494	7,590	951	0.18	0.023	0.29	0.02	53,894.0	1,803.1	1.1	0.053	35.2	
03/27/14	20839.4	160	49.7	3.7	2.6	0.172	40025.3	4,786,389	31720	1840.0	0.76	0.044	3.31	0.22	53,902.2	1,803.8	0.1	0.005	35.4	

Notes:

Benzene, Toluene, Ethylbenzene, and Total Xylenes analyzed by EPA method TO 14

TPHg Total petroleum hydrocarbons as gasoline

TPH Total petroleum hydrocarbons as the sum of TPHg, TPHd, and TPHo

scfm Standard cubic feet per minute

ppmV Parts per million by volume

lbs/day Pounds per day

ug/L Micrograms per liter

— Data not available

<X Not detected above reporting limit X. Report limit used in mass removal calculations

J Estimated Value

Soil Vapor Removal rate = C (ppmV) x Q (cfm) x (1lb-mole/386ft³) x MW (lb/lb-mole) x 60 min/hr x 24 hr/day x 10-6

Where: C = concentration, Q = flow, MW= molecular weight (86 lb/lb-mole for TPHg and 78 lb/lb-mole for benzene)

Groundwater Removal Rate = C (ug/L) x 2.204E-9 ug/L x (1 liter/0.264 gallons) x V (gallons) x (1/T (days))

Where: C = concentration, V = volume of water treated, T= time between sampling events

TABLE 8

EXXONMOBIL/BP SYSTEM-MASS REMOVAL SUMMARY
PHILLIPS 66 RENTON TERMINAL
RENTON, WASHINGTON

Date	Hour Meter (hours)	Volume of Water (gallons)	Total Influent TPH Treated ($\mu\text{g/L}$)	Total Influent Benzene Concentration ($\mu\text{g/L}$)	TPH Removal Rate (lbs/day)	Benzene Removal Rate (lbs/day)	Cumulative TPH Removed (lbs)	Cumulative Benzene Removed (lbs)
12/17/10	--	43,739	--	--	0.10	0.01	0.00	0.00
12/21/10	--	53,762	4,904	600	0.14	0.02	0.41	0.07
01/10/11	--	120,047	6,172	1,380	0.21	0.05	3.12	1.01
02/16/11	--	271,461	2,716	446	0.10	0.02	10.93	1.64
03/08/11	--	362,371	6,222	958	0.21	0.03	12.99	2.30
04/19/11	415.1	536,196	4,660	916	0.17	0.03	22.02	3.72
05/17/11	1,040.8	651,740	7,710	1,370	0.28	0.05	26.51	5.01
06/14/11	1,493.0	733,218	8,680	1,540	0.27	0.05	31.75	5.92
07/06/11	1,668.5	760,761	3,620	1,080	0.11	0.03	33.75	6.17
08/24/11	2,626.3	843,967	5,210	1,830	0.09	0.03	38.29	7.44
09/07/11	2,966.6	862,085	3,890	1,560	0.04	0.02	39.58	7.68
10/14/11	3,851.5	922,789	4,360	1,340	0.06	0.02	41.11	8.36
11/29/11	4,775.1	1,037,967	1,860	537	0.05	0.01	43.41	8.87
12/09/11	4,898.4	--	4,480	132	0.01	0.00	43.65	8.87
01/10/12	5,113.3	1,102,733	3,530	968	0.01	0.00	43.74	8.87
02/09/12	5,539.5	1,172,399	7,540	1,900	0.25	0.06	43.92	9.98
03/07/12	6,187.9	1,312,308	6,650	1,520	0.29	0.07	50.59	11.75
04/05/12	6,767.6	1,442,027	6,290	1,270	0.28	0.06	57.54	13.13
05/01/12	7,303.2	1,547,877	7,180	1,660	0.28	0.07	63.83	14.60
06/08/12	7,931.4	1,606,614	3,200	960	0.06	0.02	71.27	15.07
07/13/12	8,532.8	1,696,859	7,190	1,860	0.22	0.06	72.77	16.47
08/09/12	8,889.6	1,730,468	3,120	1,170	0.06	0.02	75.99	16.80
09/11/12	9,560.3	1,775,632	4,510	1,750	0.06	0.02	77.63	17.46
10/24/12	10,232.0	1,819,772	5,070	1,310	0.07	0.02	79.33	17.94
11/30/12	10,653.5	1,865,332	6,630	789	0.14	0.02	80.51	18.24
12/28/12	10,921.9	1,951,270	5,330	909	0.34	0.06	82.11	18.89
01/10/13	11,233.3	2,036,759	6,180	1,200	0.34	0.07	86.55	19.75
02/14/13	11,712.5	2,119,907	6,590	1,660	0.23	0.06	93.34	20.90
03/08/13	12,239.7	2,197,220	3,880	1,360	0.11	0.04	98.37	21.78
04/18/13	13,138.8	2,342,362	23,000	804	0.74	0.03	102.64	22.75
05/16/13	13,481.4	2,410,340	13,400	1,580	0.53	0.06	113.26	23.65
06/13/13	14,151.5	2,503,347	5,260	1,580	0.15	0.04	128.13	24.87
07/16/13	14,847.8	2,567,944	4,350	1,790	0.08	0.03	132.37	25.84
08/20/13	15,632.3	2,618,509	4,310	1,790	0.06	0.02	135.02	26.60
09/19/13	16,098.7	2,660,307	3,420	1,560	0.06	0.03	136.10	27.14
10/3/2013	16,331.0	2,695,425	2,270	535	0.07	0.02	136.69	27.30
11/1/2013	16,644.0	2,761,855	3,760	1,500	0.16	0.06	137.59	28.13
12/20/13	17,404.1	2,859,806	5,120	1,120	0.13	0.03	142.65	29.04
1/7/2014	17,436.9	2,875,065	3,560	904	0.33	0.08	142.83	29.16
2/18/2014	18,044.6	3,000,609	2,760	648	0.11	0.03	151.24	29.84

Notes:

- BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes analyzed by EPA method TO 14
- TPHg Total petroleum hydrocarbons as gasoline
- TPH Total petroleum hydrocarbons as the sum of TPHg, TPHe, and TPHo
- scfm Standard cubic feet per minute
- ppmV Parts per million by volume
- lbs/day Pounds per day
- $\mu\text{g/L}$ Micrograms per liter
- Data not available
- <X Not detected above reporting limit X. Report limit used in mass removal calculations
- J Estimated Value
- Soil Vapor Removal rate = C (ppmv) \times Q (cfm) \times (1lb-mole/386ft³) \times MW (lb/lb-mole) \times 60 min/hr \times 24 hr/day \times 10-6
Where: C = concentration, Q = flow, MW= molecular weight (86 lb/lb-mole for TPHg and 78 lb/lb-mole for benzene)
- Groundwater Removal Rate = C ($\mu\text{g/L}$) \times 2.204E-9 $\mu\text{g/lb} \times$ (1 liter/0.264 gallons) \times V (gallons) \times (1/T (days))
Where: C = concentration, V = volume of water treated, T= time between sampling events

Appendix A

Laboratory Analytical Reports

October 28, 2013

Edwin Turner
CRA_Conoco Phillips
20818 44th Ave. W
Lynnwood, WA 98036

RE: Project: P66 Renton 070496-2RM00 REV-1
Pace Project No.: 10244525

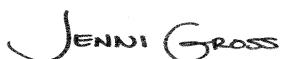
Dear Edwin Turner:

Enclosed are the analytical results for sample(s) received by the laboratory between October 03, 2013 and October 04, 2013. 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.

Revised Report, REV-1 10/28/13. Updated units for air results to ppmv. Updated 8260 list from Full list to BTEX only.

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

Sincerely,



Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Yu Chen, CRA_Conoco Phillips
Jeffrey Cloud, Conestoga-Rovers Association
Matt Davis, CRA_Conoco Phillips
Kelsey Whittaker, CRA



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: P66 Renton 070496-2RM00 REV-1
Pace Project No.: 10244525

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
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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10244525001	GW-100313-NH-TOTAL INF	Water	10/03/13 08:30	10/03/13 13:30
10244525002	GW-100313-NH-AS EFF	Water	10/03/13 08:45	10/03/13 13:30
10244525003	GW-100313-NH-MID CARBON	Water	10/03/13 09:00	10/03/13 13:30
10244525004	GW-100313-NH-TOTAL EFF	Water	10/03/13 09:15	10/03/13 13:30
10244525005	GW-100313-NH-BP R1 INF	Water	10/03/13 10:00	10/03/13 13:30
10244525006	GW-100313-NH-BP R2 INF	Water	10/03/13 10:10	10/03/13 13:30
10244525007	GW-100313-NH-BP TOTAL INF	Water	10/03/13 10:20	10/03/13 13:30
10244525008	GW-100313-NH-BP TOTAL EFF	Water	10/03/13 10:30	10/03/13 13:30
10244525009	TRIP BLANK	Water	10/03/13 00:00	10/03/13 13:30
10244525010	a-100313-NH-SVE-INF	Air	10/03/13 09:25	10/04/13 08:49
10244525011	a-100313-NH-AS-EFF	Air	10/03/13 09:30	10/04/13 08:49
10244525012	a-100313-NH-TOTAL-INF	Air	10/03/13 09:35	10/04/13 08:49
10244525013	a-100313-NH-MID CARBON 1	Air	10/03/13 09:40	10/04/13 08:49
10244525014	a-100313-NH-MID CARBON 2	Air	10/03/13 09:45	10/04/13 08:49
10244525015	a-100313-NH-TOTAL EFF	Air	10/03/13 09:50	10/04/13 08:49
10244525016	a-100313-NH-BP AS EFF	Air	10/03/13 10:45	10/04/13 08:49

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: P66 Renton 070496-2RM00 REV-1
Pace Project No.: 10244525

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10244525001	GW-100313-NH-TOTAL INF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10244525002	GW-100313-NH-AS EFF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	EB2	7	PASI-M
10244525003	GW-100313-NH-MID CARBON	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	EB2	7	PASI-M
10244525004	GW-100313-NH-TOTAL EFF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10244525005	GW-100313-NH-BP R1 INF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10244525006	GW-100313-NH-BP R2 INF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10244525007	GW-100313-NH-BP TOTAL INF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10244525008	GW-100313-NH-BP TOTAL EFF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10244525009	TRIP BLANK	NWTPH-Gx/8021	MJH	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10244525010	a-100313-NH-SVE-INF	TO-14M Ambient Air	CJR	6	PASI-M
10244525011	a-100313-NH-AS-EFF	TO-14M Ambient Air	CJR	6	PASI-M
10244525012	a-100313-NH-TOTAL-INF	TO-14M Ambient Air	CJR	6	PASI-M
10244525013	a-100313-NH-MID CARBON 1	TO-14M Ambient Air	CJR	6	PASI-M
10244525014	a-100313-NH-MID CARBON 2	TO-14M Ambient Air	CJR	6	PASI-M
10244525015	a-100313-NH-TOTAL EFF	TO-14M Ambient Air	CJR	6	PASI-M
10244525016	a-100313-NH-BP AS EFF	TO-14M Ambient Air	CJR	6	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Sample: GW-100313-NH-TOTAL INF	Lab ID: 10244525001	Collected: 10/03/13 08:30	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.41 mg/L		0.40	1	10/16/13 13:09	10/18/13 09:13	68334-30-5	D6
Motor Oil Range SG	ND mg/L		0.40	1	10/16/13 13:09	10/18/13 09:13	64742-65-0	
Surrogates								
o-Terphenyl (S)	72 %		30-125	1	10/16/13 13:09	10/18/13 09:13	84-15-1	
n-Triacontane (S)	81 %		30-125	1	10/16/13 13:09	10/18/13 09:13	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	1200 ug/L		100	1		10/14/13 23:13		
Surrogates								
a,a,a-Trifluorotoluene (S)	95 %		75-125	1		10/14/13 23:13	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	182 ug/L		1.0	1		10/17/13 21:15	71-43-2	
Ethylbenzene	8.9 ug/L		1.0	1		10/17/13 21:15	100-41-4	
Toluene	68.0 ug/L		1.0	1		10/17/13 21:15	108-88-3	
Xylene (Total)	179 ug/L		3.0	1		10/17/13 21:15	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111 %		75-125	1		10/17/13 21:15	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		10/17/13 21:15	2037-26-5	
4-Bromofluorobenzene (S)	104 %		75-125	1		10/17/13 21:15	460-00-4	
Sample: GW-100313-NH-AS EFF	Lab ID: 10244525002	Collected: 10/03/13 08:45	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.42	1	10/16/13 13:09	10/18/13 09:58	68334-30-5	
Motor Oil Range SG	ND mg/L		0.42	1	10/16/13 13:09	10/18/13 09:58	64742-65-0	
Surrogates								
o-Terphenyl (S)	74 %		30-125	1	10/16/13 13:09	10/18/13 09:58	84-15-1	
n-Triacontane (S)	85 %		30-125	1	10/16/13 13:09	10/18/13 09:58	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	209 ug/L		100	1		10/14/13 16:52		
Surrogates								
a,a,a-Trifluorotoluene (S)	94 %		75-125	1		10/14/13 16:52	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	17.7 ug/L		1.0	1		10/15/13 18:01	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/15/13 18:01	100-41-4	
Toluene	5.3 ug/L		1.0	1		10/15/13 18:01	108-88-3	
Xylene (Total)	29.9 ug/L		3.0	1		10/15/13 18:01	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106 %		75-125	1		10/15/13 18:01	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		10/15/13 18:01	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1		10/15/13 18:01	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Sample: GW-100313-NH-MID CARBON	Lab ID: 10244525003	Collected: 10/03/13 09:00	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	10/16/13 13:09	10/18/13 10:20	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	10/16/13 13:09	10/18/13 10:20	64742-65-0	
Surrogates								
o-Terphenyl (S)	73 %		30-125	1	10/16/13 13:09	10/18/13 10:20	84-15-1	
n-Triacontane (S)	84 %		30-125	1	10/16/13 13:09	10/18/13 10:20	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		10/14/13 17:12		
Surrogates								
a,a,a-Trifluorotoluene (S)	94 %		75-125	1		10/14/13 17:12	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		10/15/13 17:46	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/15/13 17:46	100-41-4	
Toluene	ND ug/L		1.0	1		10/15/13 17:46	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/15/13 17:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105 %		75-125	1		10/15/13 17:46	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		10/15/13 17:46	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		10/15/13 17:46	460-00-4	

Sample: GW-100313-NH-TOTAL EFF	Lab ID: 10244525004	Collected: 10/03/13 09:15	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.43	1	10/16/13 13:09	10/18/13 10:43	68334-30-5	
Motor Oil Range SG	ND mg/L		0.43	1	10/16/13 13:09	10/18/13 10:43	64742-65-0	
Surrogates								
o-Terphenyl (S)	67 %		30-125	1	10/16/13 13:09	10/18/13 10:43	84-15-1	
n-Triacontane (S)	70 %		30-125	1	10/16/13 13:09	10/18/13 10:43	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		10/14/13 17:32		
Surrogates								
a,a,a-Trifluorotoluene (S)	95 %		75-125	1		10/14/13 17:32	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		10/15/13 22:50	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/15/13 22:50	100-41-4	
Toluene	ND ug/L		1.0	1		10/15/13 22:50	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/15/13 22:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107 %		75-125	1		10/15/13 22:50	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		10/15/13 22:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Sample: GW-100313-NH-TOTAL EFF	Lab ID: 10244525004	Collected: 10/03/13 09:15	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	103 %		75-125	1		10/15/13 22:50	460-00-4	
<hr/>								
Sample: GW-100313-NH-BP R1 INF	Lab ID: 10244525005	Collected: 10/03/13 10:00	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.96 mg/L		0.42	1	10/16/13 13:09	10/18/13 11:05	68334-30-5	
Motor Oil Range SG	ND mg/L		0.42	1	10/16/13 13:09	10/18/13 11:05	64742-65-0	
Surrogates								
o-Terphenyl (S)	73 %		30-125	1	10/16/13 13:09	10/18/13 11:05	84-15-1	
n-Triacontane (S)	83 %		30-125	1	10/16/13 13:09	10/18/13 11:05	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	3810 ug/L		100	1		10/14/13 17:52		
Surrogates								
a,a,a-Trifluorotoluene (S)	138 %		75-125	1		10/14/13 17:52	98-08-8	2M,S0
8260 VOC	Analytical Method: EPA 8260							
Benzene	1520 ug/L		10.0	10		10/16/13 01:52	71-43-2	
Ethylbenzene	354 ug/L		10.0	10		10/16/13 01:52	100-41-4	
Toluene	14.6 ug/L		10.0	10		10/16/13 01:52	108-88-3	
Xylene (Total)	ND ug/L		30.0	10		10/16/13 01:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105 %		75-125	10		10/16/13 01:52	17060-07-0	
Toluene-d8 (S)	102 %		75-125	10		10/16/13 01:52	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	10		10/16/13 01:52	460-00-4	
<hr/>								
Sample: GW-100313-NH-BP R2 INF	Lab ID: 10244525006	Collected: 10/03/13 10:10	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.42	1	10/16/13 13:09	10/18/13 11:27	68334-30-5	
Motor Oil Range SG	ND mg/L		0.42	1	10/16/13 13:09	10/18/13 11:27	64742-65-0	
Surrogates								
o-Terphenyl (S)	68 %		30-125	1	10/16/13 13:09	10/18/13 11:27	84-15-1	
n-Triacontane (S)	78 %		30-125	1	10/16/13 13:09	10/18/13 11:27	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		10/14/13 18:13		
Surrogates								
a,a,a-Trifluorotoluene (S)	97 %		75-125	1		10/14/13 18:13	98-08-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Sample: GW-100313-NH-BP R2 INF	Lab ID: 10244525006	Collected: 10/03/13 10:10	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Benzene	5.9	ug/L	1.0	1		10/15/13 23:05	71-43-2	
Ethylbenzene	1.7	ug/L	1.0	1		10/15/13 23:05	100-41-4	
Toluene	ND	ug/L	1.0	1		10/15/13 23:05	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/15/13 23:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108 %		75-125	1		10/15/13 23:05	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1		10/15/13 23:05	2037-26-5	
4-Bromofluorobenzene (S)	102 %		75-125	1		10/15/13 23:05	460-00-4	
<hr/>								
Sample: GW-100313-NH-BP TOTAL INF	Lab ID: 10244525007	Collected: 10/03/13 10:20	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.44	mg/L	0.40	1	10/16/13 13:09	10/18/13 12:34	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	10/16/13 13:09	10/18/13 12:34	64742-65-0	
Surrogates								
o-Terphenyl (S)	72 %		30-125	1	10/16/13 13:09	10/18/13 12:34	84-15-1	
n-Triacontane (S)	83 %		30-125	1	10/16/13 13:09	10/18/13 12:34	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	1430	ug/L	100	1		10/14/13 18:33		
Surrogates								
a,a,a-Trifluorotoluene (S)	109 %		75-125	1		10/14/13 18:33	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	535	ug/L	5.0	5		10/16/13 22:07	71-43-2	
Ethylbenzene	113	ug/L	5.0	5		10/16/13 22:07	100-41-4	
Toluene	5.5	ug/L	5.0	5		10/16/13 22:07	108-88-3	
Xylene (Total)	ND	ug/L	15.0	5		10/16/13 22:07	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95 %		75-125	5		10/16/13 22:07	17060-07-0	
Toluene-d8 (S)	98 %		75-125	5		10/16/13 22:07	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-125	5		10/16/13 22:07	460-00-4	
<hr/>								
Sample: GW-100313-NH-BP TOTAL EFF	Lab ID: 10244525008	Collected: 10/03/13 10:30	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND	mg/L	0.40	1	10/16/13 13:09	10/18/13 12:56	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	10/16/13 13:09	10/18/13 12:56	64742-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Sample: GW-100313-NH-BP TOTAL EFF	Lab ID: 10244525008	Collected: 10/03/13 10:30	Received: 10/03/13 13:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Surrogates								
o-Terphenyl (S)	71 %		30-125	1	10/16/13 13:09	10/18/13 12:56	84-15-1	
n-Triacontane (S)	82 %		30-125	1	10/16/13 13:09	10/18/13 12:56	638-68-6	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx/8021						
TPH as Gas	ND ug/L		100	1		10/14/13 18:53		
Surrogates								
a,a,a-Trifluorotoluene (S)	95 %		75-125	1		10/14/13 18:53	98-08-8	
8260 VOC		Analytical Method: EPA 8260						
Benzene	ND ug/L		1.0	1		10/15/13 23:20	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/15/13 23:20	100-41-4	
Toluene	ND ug/L		1.0	1		10/15/13 23:20	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/15/13 23:20	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108 %		75-125	1		10/15/13 23:20	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		10/15/13 23:20	2037-26-5	
4-Bromofluorobenzene (S)	104 %		75-125	1		10/15/13 23:20	460-00-4	
Sample: TRIP BLANK		Lab ID: 10244525009 Collected: 10/03/13 00:00 Received: 10/03/13 13:30 Matrix: Water						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx/8021						
TPH as Gas	ND ug/L		100	1		10/09/13 21:24		
Surrogates								
a,a,a-Trifluorotoluene (S)	100 %		75-125	1		10/09/13 21:24	98-08-8	
8260 VOC		Analytical Method: EPA 8260						
Benzene	ND ug/L		1.0	1		10/15/13 21:04	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/15/13 21:04	100-41-4	
Toluene	ND ug/L		1.0	1		10/15/13 21:04	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/15/13 21:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108 %		75-125	1		10/15/13 21:04	17060-07-0	
Toluene-d8 (S)	102 %		75-125	1		10/15/13 21:04	2037-26-5	
4-Bromofluorobenzene (S)	103 %		75-125	1		10/15/13 21:04	460-00-4	
Sample: a-100313-NH-SVE-INF		Lab ID: 10244525010 Collected: 10/03/13 09:25 Received: 10/04/13 08:49 Matrix: Air						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient		Analytical Method: TO-14M Ambient Air						
Benzene	24.6 ppmv		1.1 2150.4			10/17/13 10:48	71-43-2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Sample: a-100313-NH-SVE-INF	Lab ID: 10244525010	Collected: 10/03/13 09:25	Received: 10/04/13 08:49	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Ethylbenzene	2.1	ppmv	1.1	2150.4		10/17/13 10:48	100-41-4	
THC as Gas	917	ppmv	75.3	2150.4		10/17/13 10:48		
Toluene	56.4	ppmv	1.1	2150.4		10/17/13 10:48	108-88-3	
m&p-Xylene	14.7	ppmv	2.2	2150.4		10/17/13 10:48	179601-23-1	
o-Xylene	7.0	ppmv	1.1	2150.4		10/17/13 10:48	95-47-6	
Sample: a-100313-NH-AS-EFF	Lab ID: 10244525011	Collected: 10/03/13 09:30	Received: 10/04/13 08:49	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	6.0	ppmv	0.13	268.8		10/17/13 10:24	71-43-2	
Ethylbenzene	0.21	ppmv	0.13	268.8		10/17/13 10:24	100-41-4	
THC as Gas	12.3	ppmv	9.4	268.8		10/17/13 10:24		
Toluene	3.1	ppmv	0.13	268.8		10/17/13 10:24	108-88-3	
m&p-Xylene	2.6	ppmv	0.27	268.8		10/17/13 10:24	179601-23-1	
o-Xylene	1.1	ppmv	0.13	268.8		10/17/13 10:24	95-47-6	
Sample: a-100313-NH-TOTAL-INF	Lab ID: 10244525012	Collected: 10/03/13 09:35	Received: 10/04/13 08:49	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.55	ppmv	0.016	31.4		10/17/13 09:59	71-43-2	
Ethylbenzene	0.023	ppmv	0.016	31.4		10/17/13 09:59	100-41-4	
THC as Gas	7.9	ppmv	1.1	31.4		10/17/13 09:59		
Toluene	0.45	ppmv	0.016	31.4		10/17/13 09:59	108-88-3	
m&p-Xylene	0.21	ppmv	0.031	31.4		10/17/13 09:59	179601-23-1	
o-Xylene	0.093	ppmv	0.016	31.4		10/17/13 09:59	95-47-6	
Sample: a-100313-NH-MID CARBON 1	Lab ID: 10244525013	Collected: 10/03/13 09:40	Received: 10/04/13 08:49	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.015	ppmv	0.00094	1.87		10/16/13 23:27	71-43-2	
Ethylbenzene	ND	ppmv	0.00094	1.87		10/16/13 23:27	100-41-4	
THC as Gas	0.57	ppmv	0.065	1.87		10/16/13 23:27		
Toluene	0.0095	ppmv	0.00094	1.87		10/16/13 23:27	108-88-3	
m&p-Xylene	0.0064	ppmv	0.0019	1.87		10/16/13 23:27	179601-23-1	
o-Xylene	0.0026	ppmv	0.00094	1.87		10/16/13 23:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Sample: a-100313-NH-MID CARBON 2	Lab ID: 10244525014	Collected: 10/03/13 09:45	Received: 10/04/13 08:49	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.0011 ppmv		0.00084	1.68		10/17/13 00:55	71-43-2	
Ethylbenzene	ND ppmv		0.00084	1.68		10/17/13 00:55	100-41-4	
THC as Gas	0.49 ppmv		0.059	1.68		10/17/13 00:55		
Toluene	ND ppmv		0.00084	1.68		10/17/13 00:55	108-88-3	
m&p-Xylene	ND ppmv		0.0017	1.68		10/17/13 00:55	179601-23-1	
o-Xylene	ND ppmv		0.00084	1.68		10/17/13 00:55	95-47-6	
<hr/>								
Sample: a-100313-NH-TOTAL EFF	Lab ID: 10244525015	Collected: 10/03/13 09:50	Received: 10/04/13 08:49	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.00078	1.57		10/17/13 00:25	71-43-2	
Ethylbenzene	ND ppmv		0.00078	1.57		10/17/13 00:25	100-41-4	
THC as Gas	0.21 ppmv		0.055	1.57		10/17/13 00:25		
Toluene	ND ppmv		0.00078	1.57		10/17/13 00:25	108-88-3	
m&p-Xylene	ND ppmv		0.0016	1.57		10/17/13 00:25	179601-23-1	
o-Xylene	ND ppmv		0.00078	1.57		10/17/13 00:25	95-47-6	
<hr/>								
Sample: a-100313-NH-BP AS EFF	Lab ID: 10244525016	Collected: 10/03/13 10:45	Received: 10/04/13 08:49	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.23 ppmv		0.017	33.6		10/16/13 22:28	71-43-2	
Ethylbenzene	0.027 ppmv		0.017	33.6		10/16/13 22:28	100-41-4	
THC as Gas	ND ppmv		1.2	33.6		10/16/13 22:28		
Toluene	ND ppmv		0.017	33.6		10/16/13 22:28	108-88-3	
m&p-Xylene	ND ppmv		0.034	33.6		10/16/13 22:28	179601-23-1	
o-Xylene	ND ppmv		0.017	33.6		10/16/13 22:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

QC Batch:	AIR/18491	Analysis Method:	TO-14M Ambient Air
QC Batch Method:	TO-14M Ambient Air	Analysis Description:	TO14 MSV AIR - AMBIENT
Associated Lab Samples:	10244525010, 10244525011, 10244525012, 10244525013, 10244525014, 10244525015, 10244525016		

METHOD BLANK: 1553854 Matrix: Air

Associated Lab Samples: 10244525010, 10244525011, 10244525012, 10244525013, 10244525014, 10244525015, 10244525016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.00050	10/16/13 16:42	
Ethylbenzene	ppmv	ND	0.00050	10/16/13 16:42	
m&p-Xylene	ppmv	ND	0.0010	10/16/13 16:42	
o-Xylene	ppmv	ND	0.00050	10/16/13 16:42	
THC as Gas	ppmv	ND	0.035	10/16/13 16:42	
Toluene	ppmv	ND	0.00050	10/16/13 16:42	

LABORATORY CONTROL SAMPLE: 1553855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	.01	0.0099	99	72-136	
Ethylbenzene	ppmv	.01	0.010	102	74-136	
m&p-Xylene	ppmv	.01	0.010	104	72-135	
o-Xylene	ppmv	.01	0.010	101	74-135	
THC as Gas	ppmv	.72	0.74	103	63-141	
Toluene	ppmv	.01	0.0098	98	71-134	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

QC Batch:	GCV/11364	Analysis Method:	NWTPH-Gx/8021
QC Batch Method:	NWTPH-Gx/8021	Analysis Description:	NWTPH-Gx/8021B Water
Associated Lab Samples:	10244525009		

METHOD BLANK: 1547874 Matrix: Water

Associated Lab Samples: 10244525009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	10/09/13 21:04	
a,a,a-Trifluorotoluene (S)	%	100	75-125	10/09/13 21:04	

LABORATORY CONTROL SAMPLE & LCSD: 1547875 1547876

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1070	1040	107	104	75-126	3	20	
a,a,a-Trifluorotoluene (S)	%				108	106	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1547877 1547878

Parameter	Units	10244556003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
TPH as Gas	ug/L	ND	1000	1000	990	1020	96	99	75-137	3	30	
a,a,a-Trifluorotoluene (S)	%						122	102	75-125			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1
Pace Project No.: 10244525

QC Batch:	GCV/11372	Analysis Method:	NWTPH-Gx/8021
QC Batch Method:	NWTPH-Gx/8021	Analysis Description:	NWTPH-Gx/8021B Water
Associated Lab Samples:	10244525001, 10244525002, 10244525003, 10244525004, 10244525005, 10244525006, 10244525007, 10244525008		

METHOD BLANK:	1550731	Matrix:	Water
Associated Lab Samples:	10244525001, 10244525002, 10244525003, 10244525004, 10244525005, 10244525006, 10244525007, 10244525008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	10/14/13 12:51	
a,a,a-Trifluorotoluene (S)	%	95	75-125	10/14/13 12:51	

LABORATORY CONTROL SAMPLE & LCSD:	1550732	1550733									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
TPH as Gas	ug/L	1000	1060	1060	106	106	75-126	.08	20		
a,a,a-Trifluorotoluene (S)	%				102	102	75-125				

MATRIX SPIKE SAMPLE:	1552375	10244493004									
Parameter	Units	Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
TPH as Gas	ug/L	ND	1000	1030	100	75-137					
a,a,a-Trifluorotoluene (S)	%				110	75-125					

SAMPLE DUPLICATE:	1552376	10244493005									
Parameter	Units	Result	Dup Result	MS Result	MS % Rec	% Rec Limits	Qualifiers				
TPH as Gas	ug/L	ND	ND	1030	100	75-137					
a,a,a-Trifluorotoluene (S)	%	94	94	.8	110	75-125					

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

QC Batch:	MSV/25290	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples:	10244525002, 10244525003		

METHOD BLANK: 1552189 Matrix: Water

Associated Lab Samples: 10244525002, 10244525003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/15/13 13:28	
Ethylbenzene	ug/L	ND	1.0	10/15/13 13:28	
Toluene	ug/L	ND	1.0	10/15/13 13:28	
Xylene (Total)	ug/L	ND	3.0	10/15/13 13:28	
1,2-Dichloroethane-d4 (S)	%	104	75-125	10/15/13 13:28	
4-Bromofluorobenzene (S)	%	103	75-125	10/15/13 13:28	
Toluene-d8 (S)	%	101	75-125	10/15/13 13:28	

LABORATORY CONTROL SAMPLE: 1552190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.2	91	75-125	
Ethylbenzene	ug/L	20	18.2	91	75-125	
Toluene	ug/L	20	17.3	87	75-125	
Xylene (Total)	ug/L	60	54.7	91	75-125	
1,2-Dichloroethane-d4 (S)	%			107	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1552191 1552192

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	RPD	Max Qual
		10244415007	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec				
Benzene	ug/L	636	20	20	620	628	-79	-42	70-135	1	30	E,M1	
Ethylbenzene	ug/L	78.7	20	20	85.8	86.9	36	41	75-125	1	30	M1	
Toluene	ug/L	1.2	20	20	20.6	21.4	97	101	75-125	4	30		
Xylene (Total)	ug/L	56.0	60	60	108	110	87	90	75-125	2	30		
1,2-Dichloroethane-d4 (S)	%						108	108	75-125				
4-Bromofluorobenzene (S)	%						103	104	75-125				
Toluene-d8 (S)	%						101	103	75-125				

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

QC Batch:	MSV/25303	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples:	10244525004, 10244525005, 10244525006, 10244525008, 10244525009		

METHOD BLANK: 1552649 Matrix: Water

Associated Lab Samples: 10244525004, 10244525005, 10244525006, 10244525008, 10244525009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/15/13 20:49	
Ethylbenzene	ug/L	ND	1.0	10/15/13 20:49	
Toluene	ug/L	ND	1.0	10/15/13 20:49	
Xylene (Total)	ug/L	ND	3.0	10/15/13 20:49	
1,2-Dichloroethane-d4 (S)	%	107	75-125	10/15/13 20:49	
4-Bromofluorobenzene (S)	%	105	75-125	10/15/13 20:49	
Toluene-d8 (S)	%	101	75-125	10/15/13 20:49	

LABORATORY CONTROL SAMPLE: 1552650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.7	99	75-125	
Ethylbenzene	ug/L	20	20.0	100	75-125	
Toluene	ug/L	20	19.0	95	75-125	
Xylene (Total)	ug/L	60	60.1	100	75-125	
1,2-Dichloroethane-d4 (S)	%			108	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			104	75-125	

MATRIX SPIKE SAMPLE: 1552972

Parameter	Units	10244697005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	20.2	101	70-135	
Ethylbenzene	ug/L	ND	20	20.5	102	75-125	
Toluene	ug/L	ND	20	19.2	96	75-125	
Xylene (Total)	ug/L	ND	60	60.5	101	75-125	
1,2-Dichloroethane-d4 (S)	%				107	75-125	
4-Bromofluorobenzene (S)	%				104	75-125	
Toluene-d8 (S)	%				104	75-125	

SAMPLE DUPLICATE: 1552973

Parameter	Units	10244697006 Result	Dup Result	Max RPD	RPD	Qualifiers
Benzene	ug/L	ND	ND			30
Ethylbenzene	ug/L	ND	ND			30
Toluene	ug/L	ND	ND			30
Xylene (Total)	ug/L	ND	ND			30
1,2-Dichloroethane-d4 (S)	%	107	105		2	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

SAMPLE DUPLICATE: 1552973

Parameter	Units	10244697006	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	103	105	2		
Toluene-d8 (S)	%	101	102	.6		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

QC Batch:	MSV/25309	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples: 10244525007			

METHOD BLANK: 1553530 Matrix: Water

Associated Lab Samples: 10244525007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/16/13 14:58	
Ethylbenzene	ug/L	ND	1.0	10/16/13 14:58	
Toluene	ug/L	ND	1.0	10/16/13 14:58	
Xylene (Total)	ug/L	ND	3.0	10/16/13 14:58	
1,2-Dichloroethane-d4 (S)	%	96	75-125	10/16/13 14:58	
4-Bromofluorobenzene (S)	%	100	75-125	10/16/13 14:58	
Toluene-d8 (S)	%	98	75-125	10/16/13 14:58	

LABORATORY CONTROL SAMPLE: 1553531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.4	97	75-125	
Ethylbenzene	ug/L	20	18.8	94	75-125	
Toluene	ug/L	20	19.9	99	75-125	
Xylene (Total)	ug/L	60	59.8	100	75-125	
1,2-Dichloroethane-d4 (S)	%			96	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE SAMPLE: 1554765

Parameter	Units	10244925001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	20.3	101	70-135	
Ethylbenzene	ug/L	ND	20	20.1	100	75-125	
Toluene	ug/L	ND	20	20.5	102	75-125	
Xylene (Total)	ug/L	ND	60	63.5	106	75-125	
1,2-Dichloroethane-d4 (S)	%				98	75-125	
4-Bromofluorobenzene (S)	%				98	75-125	
Toluene-d8 (S)	%				99	75-125	

SAMPLE DUPLICATE: 1554769

Parameter	Units	10244916004 Result	Dup Result	Max RPD	RPD	Qualifiers
Benzene	ug/L	ND	.87J			30
Ethylbenzene	ug/L	ND	ND			30
Toluene	ug/L	ND	ND			30
Xylene (Total)	ug/L	ND	ND			30
1,2-Dichloroethane-d4 (S)	%	98	96	2		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

SAMPLE DUPLICATE: 1554769

Parameter	Units	10244916004	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	98	99	.7		
Toluene-d8 (S)	%	98	97	1		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

QC Batch:	MSV/25331	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 465 W
Associated Lab Samples:	10244525001		

METHOD BLANK: 1554799 Matrix: Water

Associated Lab Samples: 10244525001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/17/13 18:28	
Ethylbenzene	ug/L	ND	1.0	10/17/13 18:28	
Toluene	ug/L	ND	1.0	10/17/13 18:28	
Xylene (Total)	ug/L	ND	3.0	10/17/13 18:28	
1,2-Dichloroethane-d4 (S)	%	111	75-125	10/17/13 18:28	
4-Bromofluorobenzene (S)	%	103	75-125	10/17/13 18:28	
Toluene-d8 (S)	%	102	75-125	10/17/13 18:28	

LABORATORY CONTROL SAMPLE: 1554800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.8	104	75-125	
Ethylbenzene	ug/L	20	20.1	100	75-125	
Toluene	ug/L	20	19.4	97	75-125	
Xylene (Total)	ug/L	60	59.9	100	75-125	
1,2-Dichloroethane-d4 (S)	%			113	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE SAMPLE: 1555945

Parameter	Units	10244926001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	8.2	20	33.7	128	70-135	
Ethylbenzene	ug/L	8.8	20	32.8	120	75-125	
Toluene	ug/L	ND	20	24.3	118	75-125	
Xylene (Total)	ug/L	ND	60	74.8	121	75-125	
1,2-Dichloroethane-d4 (S)	%				113	75-125	1M
4-Bromofluorobenzene (S)	%				105	75-125	
Toluene-d8 (S)	%				104	75-125	

SAMPLE DUPLICATE: 1555946

Parameter	Units	10244926002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	1.9	2.0	.5	30	
Ethylbenzene	ug/L	1.2	1.0	12	30	
Toluene	ug/L	ND	.44J		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	113	112	.6		1M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

SAMPLE DUPLICATE: 1555946

Parameter	Units	10244926002	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	104	105	.5		
Toluene-d8 (S)	%	101	102	.6		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

QC Batch:	OEXT/23350	Analysis Method:	NWTPH-Dx
QC Batch Method:	EPA 3510	Analysis Description:	NWTPH-Dx GCS LV SG
Associated Lab Samples:	10244525001, 10244525002, 10244525003, 10244525004, 10244525005, 10244525006, 10244525007, 10244525008		

METHOD BLANK: 1553816 Matrix: Water

Associated Lab Samples: 10244525001, 10244525002, 10244525003, 10244525004, 10244525005, 10244525006, 10244525007, 10244525008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel Range SG	mg/L	ND	0.40	10/18/13 08:06	
Motor Oil Range SG	mg/L	ND	0.40	10/18/13 08:06	
n-Tricontane (S)	%	78	30-125	10/18/13 08:06	
o-Terphenyl (S)	%	62	30-125	10/18/13 08:06	

LABORATORY CONTROL SAMPLE & LCSD: 1553817 1553818

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	2	1.5	1.6	77	79	50-150	1	20	
Motor Oil Range SG	mg/L	2	1.6	1.6	78	79	50-150	2	20	
n-Tricontane (S)	%				82	78	30-125			
o-Terphenyl (S)	%				78	78	30-125			

SAMPLE DUPLICATE: 1553446

Parameter	Units	10245389002 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	ND	.15J		30	
Motor Oil Range SG	mg/L	ND	ND		30	
n-Tricontane (S)	%	82	71	15		
o-Terphenyl (S)	%	72	67	6		

SAMPLE DUPLICATE: 1553819

Parameter	Units	10244525001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range SG	mg/L	0.41	0.77	60	30	D6
Motor Oil Range SG	mg/L	ND	.12J		30	
n-Tricontane (S)	%	81	90	16		
o-Terphenyl (S)	%	72	76	12		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: P66 Renton 070496-2RM00 REV-1
Pace Project No.: 10244525

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

SAMPLE QUALIFIERS

Sample: 10244525010

[1] This result is reported from a serial dilution

Sample: 10244525011

[1] This result is reported from a serial dilution

ANALYTE QUALIFIERS

- 1M Post-analysis pH measurement indicates insufficient VOA sample preservation. Therefore, analysis was conducted outside the recognized method holding time.
- 2M Surrogate recovery outside laboratory control limits due to matrix interferences.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

METHOD CROSS REFERENCE TABLE

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Parameter	Matrix	Analytical Method	Preparation Method
8260 VOC	Water	SW-846 8260B/5030B	N/A

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P66 Renton 070496-2RM00 REV-1

Pace Project No.: 10244525

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10244525010	a-100313-NH-SVE-INF	TO-14M Ambient Air	AIR/18491		
10244525011	a-100313-NH-AS-EFF	TO-14M Ambient Air	AIR/18491		
10244525012	a-100313-NH-TOTAL-INF	TO-14M Ambient Air	AIR/18491		
10244525013	a-100313-NH-MID CARBON 1	TO-14M Ambient Air	AIR/18491		
10244525014	a-100313-NH-MID CARBON 2	TO-14M Ambient Air	AIR/18491		
10244525015	a-100313-NH-TOTAL EFF	TO-14M Ambient Air	AIR/18491		
10244525016	a-100313-NH-BP AS EFF	TO-14M Ambient Air	AIR/18491		
10244525001	GW-100313-NH-TOTAL INF	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525002	GW-100313-NH-AS EFF	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525003	GW-100313-NH-MID CARBON	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525004	GW-100313-NH-TOTAL EFF	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525005	GW-100313-NH-BP R1 INF	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525006	GW-100313-NH-BP R2 INF	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525007	GW-100313-NH-BP TOTAL INF	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525008	GW-100313-NH-BP TOTAL EFF	EPA 3510	OEXT/23350	NWTPH-Dx	GCSV/12249
10244525001	GW-100313-NH-TOTAL INF	NWTPH-Gx/8021	GCV/11372		
10244525002	GW-100313-NH-AS EFF	NWTPH-Gx/8021	GCV/11372		
10244525003	GW-100313-NH-MID CARBON	NWTPH-Gx/8021	GCV/11372		
10244525004	GW-100313-NH-TOTAL EFF	NWTPH-Gx/8021	GCV/11372		
10244525005	GW-100313-NH-BP R1 INF	NWTPH-Gx/8021	GCV/11372		
10244525006	GW-100313-NH-BP R2 INF	NWTPH-Gx/8021	GCV/11372		
10244525007	GW-100313-NH-BP TOTAL INF	NWTPH-Gx/8021	GCV/11372		
10244525008	GW-100313-NH-BP TOTAL EFF	NWTPH-Gx/8021	GCV/11372		
10244525009	TRIP BLANK	NWTPH-Gx/8021	GCV/11364		
10244525001	GW-100313-NH-TOTAL INF	EPA 8260	MSV/25331		
10244525002	GW-100313-NH-AS EFF	EPA 8260	MSV/25290		
10244525003	GW-100313-NH-MID CARBON	EPA 8260	MSV/25290		
10244525004	GW-100313-NH-TOTAL EFF	EPA 8260	MSV/25303		
10244525005	GW-100313-NH-BP R1 INF	EPA 8260	MSV/25303		
10244525006	GW-100313-NH-BP R2 INF	EPA 8260	MSV/25303		
10244525007	GW-100313-NH-BP TOTAL INF	EPA 8260	MSV/25309		
10244525008	GW-100313-NH-BP TOTAL EFF	EPA 8260	MSV/25303		
10244525009	TRIP BLANK	EPA 8260	MSV/25303		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

Address: 1117 TACOMA AVE. SOUTH TACOMA, WA. 98402

Phone: 253.573.1218 Fax: 253.573.1663

COC NO.: 38703

PAGE 1 OF 1

10244525 (See Reverse Side for Instructions)

Project No/Phase/Task Code: 070496 - 212M00		Laboratory Name: PACE						Lab Location: SEATTLE		SSOW ID:			
Project Name: P66 - RENTON TERMINAL		Lab Contact: J. GROSS						Lab Quote No:		Cooler No:			
Project Location: RENTON, WA		SAMPLE TYPE	CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier:		
Chemistry Contact: M. DAVIS / J. CLOWD		Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnvCorra 156-g, 1025-g	Other:	Total Containers/Sample	Airbill No:
Sampler(s): N. H. WISPERGEIC												Date Shipped:	
SAMPLE IDENTIFICATION (Container for each sample may be combined on one line.)		DATE (mm/dd/yy)	TIME (hh:mm)									MSMSD Request	
1	GW-100313-NH-TOTAL INF	10/03/13	8:30							X	8 X XX	001	
2	GW-100313-NH-AS EFF		8:45							X	8 X XX	002	
3	GW-100313-NH-MID CARBON		9:00							X	8 XXX	003	
4	GW-100313-NH-TOTAL EFF		9:15							X	8 XXX	004	
5	G-100313-NH-SVG INF		9:25							I	XX	010	
6	G-100313-NH-AS EFF		9:30							I	XX	011	
7	G-100313-NH-TOTAL INF		9:35							I	XX	012	
8	G-100313-NH-MID CARBON		9:40							I	XX	013	
9	G-100313-NH-MID CARBON 2		9:45							I	XX	014	
10	G-100313-NH-TOTAL-EFF		9:50							I	XX	015	
11	GW-100313-NH-BP R1 INF		10:00							X	8 XXX	005	
12	GW-100313-NH-BP R2 INF		10:10							X	8 XXX	006	
13	GW-100313-NH-BP TOTAL INF		10:20							X	8 XXX	007	
14	GW-100313-NH-BP TOTAL EFF		10:30							X	8 XXX	008	
15	G-100313-NH-BP AS EFF	✓	10:45							I	XX	016	
TAT Required in business days (use separate COCs for different TATs):										Total Number of Containers: 71	Notes/ Special Requirements:		
<input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input checked="" type="checkbox"/> Other: STANDARD										All Samples in Cooler must be on COC			
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME						
1. R.D.	CRN	10/03/13	12:00	1. REED	PACE	10-3-13 10	10-3-13	13:30					
2.				2. M. DAVIS / PACE		10-4-13		04:49					
3.				3. T. FERNANDEZ		10-4-13 3:3							

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution:

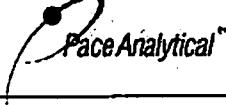
WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

CRA Form. COC page 26 of 28
10-3-13 G

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.07	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <i>CRA</i>	Project #:	WO# : 10244525
Courier:	<input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____	 10244525	
Tracking Number:	5779 5330 4967 4978	Optional: Proj. Due Date: Proj. Name:	
Custody Seal on Cooler/Box Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Seals Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Packing Material:	<input type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Thermom. Used:	<input type="checkbox"/> 80512447 <input checked="" type="checkbox"/> 888A912167504 <input type="checkbox"/> 72337080 <input type="checkbox"/> 888A9132521491	Type of Ice:	<input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun
Cooler Temp Read (°C):	24.6	Cooler Temp Corrected (°C):	23.59
Temp should be above freezing to 6°C	Correction Factor: -	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments: _____			
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. missing Sample 5-10 & 15	
-Includes Date/Time/ID/Analysis Matrix:	<i>Wet</i>		
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #	
Exceptions VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <i>DK</i> Lot # of added preservative: _____	
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):	<i>082413-3</i>		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *Deanna L. Davis* Date: *10-4-13*
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)

	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.08	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt	Client Name:	Project #:
	Pace - WA	WO# : 10244525
Courier:	<input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____	 10244525
Tracking Number:	J779 5330 4489	

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): *AmB* Thermom. Used: 888A912167504 72337080
 888A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: *10/6/13 AF*

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media:		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received: <i>7 CANS</i>					
Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
BP A SS EFF	2419				
SVE INF	1369				
AS EFF	919				
TOTAL INF	1173				
MID CARBON 1	1471				
MID CARBON 2	1317				
TOTAL EFF	907				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *JENNIFER SNISS* Date: *10/10/13*
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)

November 15, 2013

Edwin Turner
CRA_Conoco Phillips
20818 44th Ave. W
Lynnwood, WA 98036

RE: Project: 070496-2RM P66-RENTON TERMIN
Pace Project No.: 10248020

Dear Edwin Turner:

Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2013. 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,



Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Yu Chen, CRA_Conoco Phillips
Jeffrey Cloud, Conestoga-Rovers Association
Matt Davis, CRA_Conoco Phillips
Kelsey Whittaker, CRA



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 070496-2RM P66-RENTON TERMIN
Pace Project No.: 10248020

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
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
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
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
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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: 070496-2RM P66-RENTON TERMIN
 Pace Project No.: 10248020

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10248020001	GW-110113-NH-TOTAL INF	Water	11/01/13 11:00	11/02/13 08:37
10248020002	GW-110113-NH-AS EFF	Water	11/01/13 11:20	11/02/13 08:37
10248020003	GW-110113-NH-MID CARBON	Water	11/01/13 11:35	11/02/13 08:37
10248020004	GW-110113-NH-TOTAL EFF	Water	11/01/13 11:50	11/02/13 08:37
10248020005	A-110113-NH-SVE INF	Air	11/01/13 12:40	11/02/13 08:37
10248020006	A-110113-NH-AS EFF	Air	11/01/13 12:45	11/02/13 08:37
10248020007	A-110113-NH-TOTAL INF	Air	11/01/13 12:50	11/02/13 08:37
10248020008	A-110113-NH-MID CARBON 1	Air	11/01/13 12:55	11/02/13 08:37
10248020009	A-110113-NH-MID CARBON 2	Air	11/01/13 13:00	11/02/13 08:37
10248020010	A-110113-NH-TOTAL EFF	Air	11/01/13 13:05	11/02/13 08:37
10248020011	GW-110113-NH-BP R1 INF	Water	11/01/13 13:30	11/02/13 08:37
10248020012	GW-110113-NH-BP R2 INF	Water	11/01/13 13:45	11/02/13 08:37
10248020013	GW-110113-NH-BP TOTAL INF	Water	11/01/13 14:00	11/02/13 08:37
10248020014	GW-110113-NH-BP TOTAL EFF	Water	11/01/13 14:25	11/02/13 08:37
10248020015	A-110113-NH-BP AS EFF	Air	11/01/13 14:35	11/02/13 08:37
10248020016	TRIP (HCL) BLANK	Water	11/01/13 00:00	11/02/13 08:37

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: 070496-2RM P66-RENTON TERMIN
Pace Project No.: 10248020

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10248020001	GW-110113-NH-TOTAL INF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10248020002	GW-110113-NH-AS EFF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	EB2	7	PASI-M
10248020003	GW-110113-NH-MID CARBON	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10248020004	GW-110113-NH-TOTAL EFF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10248020005	A-110113-NH-SVE INF	TO-14M Ambient Air	AH2, DR1	6	PASI-M
10248020006	A-110113-NH-AS EFF	TO-14M Ambient Air	AH2	6	PASI-M
10248020007	A-110113-NH-TOTAL INF	TO-14M Ambient Air	AH2	6	PASI-M
10248020008	A-110113-NH-MID CARBON 1	TO-14M Ambient Air	AH2	6	PASI-M
10248020009	A-110113-NH-MID CARBON 2	TO-14M Ambient Air	AH2	6	PASI-M
10248020010	A-110113-NH-TOTAL EFF	TO-14M Ambient Air	AH2	6	PASI-M
10248020011	GW-110113-NH-BP R1 INF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10248020012	GW-110113-NH-BP R2 INF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10248020013	GW-110113-NH-BP TOTAL INF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10248020014	GW-110113-NH-BP TOTAL EFF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10248020015	A-110113-NH-BP AS EFF	TO-14M Ambient Air	AH2	6	PASI-M
10248020016	TRIP (HCL) BLANK	NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

Sample: GW-110113-NH-TOTAL INF	Lab ID: 10248020001	Collected: 11/01/13 11:00	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	1.1	mg/L	0.41	1	11/05/13 11:18	11/07/13 14:01	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.41	1	11/05/13 11:18	11/07/13 14:01	64742-65-0	
Surrogates								
o-Terphenyl (S)	91 %		30-125	1	11/05/13 11:18	11/07/13 14:01	84-15-1	
n-Triacontane (S)	103 %		30-125	1	11/05/13 11:18	11/07/13 14:01	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	3640	ug/L		500	5			11/11/13 20:38
Surrogates								
a,a,a-Trifluorotoluene (S)	87 %		75-125	5				11/11/13 20:38
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	678	ug/L		5.0	5			11/06/13 22:30
Ethylbenzene	20.3	ug/L		1.0	1			11/04/13 18:06
Toluene	245	ug/L		5.0	5			108-88-3
Xylene (Total)	698	ug/L		15.0	5			11/06/13 22:30
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %		75-125	1				17060-07-0
Toluene-d8 (S)	91 %		75-125	1				2037-26-5
4-Bromofluorobenzene (S)	97 %		75-125	1				460-00-4
Sample: GW-110113-NH-AS EFF	Lab ID: 10248020002	Collected: 11/01/13 11:20	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.62	mg/L	0.42	1	11/05/13 11:18	11/07/13 14:24	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.42	1	11/05/13 11:18	11/07/13 14:24	64742-65-0	
Surrogates								
o-Terphenyl (S)	93 %		30-125	1	11/05/13 11:18	11/07/13 14:24	84-15-1	
n-Triacontane (S)	106 %		30-125	1	11/05/13 11:18	11/07/13 14:24	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND	ug/L		100	1			11/11/13 14:37
Surrogates								
a,a,a-Trifluorotoluene (S)	84 %		75-125	1				98-08-8
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L		1.0	1			71-43-2
Ethylbenzene	ND	ug/L		1.0	1			100-41-4
Toluene	ND	ug/L		1.0	1			108-88-3
Xylene (Total)	ND	ug/L		3.0	1			1330-20-7
Surrogates								
1,2-Dichloroethane-d4 (S)	102 %		75-125	1				17060-07-0
Toluene-d8 (S)	101 %		75-125	1				2037-26-5
4-Bromofluorobenzene (S)	105 %		75-125	1				460-00-4

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

Sample: GW-110113-NH-MID CARBON	Lab ID: 10248020003	Collected: 11/01/13 11:35	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	11/05/13 11:18	11/07/13 14:46	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	11/05/13 11:18	11/07/13 14:46	64742-65-0	
Surrogates								
o-Terphenyl (S)	93 %		30-125	1	11/05/13 11:18	11/07/13 14:46	84-15-1	
n-Triacontane (S)	108 %		30-125	1	11/05/13 11:18	11/07/13 14:46	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1			11/11/13 14:17	
Surrogates								
a,a,a-Trifluorotoluene (S)	87 %		75-125	1			11/11/13 14:17	98-08-8
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1			11/04/13 18:49	71-43-2
Ethylbenzene	ND ug/L		1.0	1			11/04/13 18:49	100-41-4
Toluene	ND ug/L		1.0	1			11/04/13 18:49	108-88-3
Xylene (Total)	ND ug/L		3.0	1			11/04/13 18:49	1330-20-7
Surrogates								
1,2-Dichloroethane-d4 (S)	101 %		75-125	1			11/04/13 18:49	17060-07-0
Toluene-d8 (S)	92 %		75-125	1			11/04/13 18:49	2037-26-5
4-Bromofluorobenzene (S)	97 %		75-125	1			11/04/13 18:49	460-00-4

Sample: GW-110113-NH-TOTAL EFF	Lab ID: 10248020004	Collected: 11/01/13 11:50	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.42	1	11/05/13 11:18	11/07/13 15:09	68334-30-5	
Motor Oil Range SG	ND mg/L		0.42	1	11/05/13 11:18	11/07/13 15:09	64742-65-0	
Surrogates								
o-Terphenyl (S)	93 %		30-125	1	11/05/13 11:18	11/07/13 15:09	84-15-1	
n-Triacontane (S)	110 %		30-125	1	11/05/13 11:18	11/07/13 15:09	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1			11/11/13 15:17	
Surrogates								
a,a,a-Trifluorotoluene (S)	86 %		75-125	1			11/11/13 15:17	98-08-8
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1			11/04/13 19:11	71-43-2
Ethylbenzene	ND ug/L		1.0	1			11/04/13 19:11	100-41-4
Toluene	ND ug/L		1.0	1			11/04/13 19:11	108-88-3
Xylene (Total)	ND ug/L		3.0	1			11/04/13 19:11	1330-20-7
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %		75-125	1			11/04/13 19:11	17060-07-0
Toluene-d8 (S)	93 %		75-125	1			11/04/13 19:11	2037-26-5

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

Sample: GW-110113-NH-TOTAL EFF	Lab ID: 10248020004	Collected: 11/01/13 11:50	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	98 %		75-125	1		11/04/13 19:11	460-00-4	
<hr/>								
Sample: A-110113-NH-SVE INF	Lab ID: 10248020005	Collected: 11/01/13 12:40	Received: 11/02/13 08:37	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	2.6 ppmv		0.27	537.6		11/10/13 19:48	71-43-2	
Ethylbenzene	0.13 ppmv		0.017	33.6		11/10/13 03:48	100-41-4	
THC as Gas	356 ppmv		18.8	537.6		11/10/13 19:48		
Toluene	4.1 ppmv		0.27	537.6		11/10/13 19:48	108-88-3	
m&p-Xylene	1.0 ppmv		0.034	33.6		11/10/13 03:48	179601-23-1	
o-Xylene	0.58 ppmv		0.017	33.6		11/10/13 03:48	95-47-6	
<hr/>								
Sample: A-110113-NH-AS EFF	Lab ID: 10248020006	Collected: 11/01/13 12:45	Received: 11/02/13 08:37	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.018	36		11/10/13 01:04	71-43-2	A4
Ethylbenzene	ND ppmv		0.018	36		11/10/13 01:04	100-41-4	
THC as Gas	ND ppmv		1.3	36		11/10/13 01:04		
Toluene	0.18 ppmv		0.018	36		11/10/13 01:04	108-88-3	
m&p-Xylene	ND ppmv		0.036	36		11/10/13 01:04	179601-23-1	
o-Xylene	ND ppmv		0.018	36		11/10/13 01:04	95-47-6	
<hr/>								
Sample: A-110113-NH-TOTAL INF	Lab ID: 10248020007	Collected: 11/01/13 12:50	Received: 11/02/13 08:37	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.092 ppmv		0.019	37.4		11/10/13 02:53	71-43-2	A4
Ethylbenzene	ND ppmv		0.019	37.4		11/10/13 02:53	100-41-4	
THC as Gas	7.6 ppmv		1.3	37.4		11/10/13 02:53		
Toluene	0.13 ppmv		0.019	37.4		11/10/13 02:53	108-88-3	
m&p-Xylene	0.044 ppmv		0.037	37.4		11/10/13 02:53	179601-23-1	
o-Xylene	ND ppmv		0.019	37.4		11/10/13 02:53	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

Sample: A-110113-NH-MID CARBON 1	Lab ID: 10248020008	Collected: 11/01/13 12:55	Received: 11/02/13 08:37	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.019	37.4		11/10/13 01:31	71-43-2	A4
Ethylbenzene	ND ppmv		0.019	37.4		11/10/13 01:31	100-41-4	
THC as Gas	2.5 ppmv		1.3	37.4		11/10/13 01:31		
Toluene	ND ppmv		0.019	37.4		11/10/13 01:31	108-88-3	
m&p-Xylene	ND ppmv		0.037	37.4		11/10/13 01:31	179601-23-1	
o-Xylene	ND ppmv		0.019	37.4		11/10/13 01:31	95-47-6	
<hr/>								
Sample: A-110113-NH-MID CARBON 2	Lab ID: 10248020009	Collected: 11/01/13 13:00	Received: 11/02/13 08:37	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.019	38.8		11/10/13 02:26	71-43-2	A4
Ethylbenzene	ND ppmv		0.019	38.8		11/10/13 02:26	100-41-4	
THC as Gas	2.1 ppmv		1.4	38.8		11/10/13 02:26		
Toluene	ND ppmv		0.019	38.8		11/10/13 02:26	108-88-3	
m&p-Xylene	ND ppmv		0.039	38.8		11/10/13 02:26	179601-23-1	
o-Xylene	ND ppmv		0.019	38.8		11/10/13 02:26	95-47-6	
<hr/>								
Sample: A-110113-NH-TOTAL EFF	Lab ID: 10248020010	Collected: 11/01/13 13:05	Received: 11/02/13 08:37	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.019	38.8		11/10/13 01:59	71-43-2	A4
Ethylbenzene	ND ppmv		0.019	38.8		11/10/13 01:59	100-41-4	
THC as Gas	ND ppmv		1.4	38.8		11/10/13 01:59		
Toluene	ND ppmv		0.019	38.8		11/10/13 01:59	108-88-3	
m&p-Xylene	ND ppmv		0.039	38.8		11/10/13 01:59	179601-23-1	
o-Xylene	ND ppmv		0.019	38.8		11/10/13 01:59	95-47-6	
<hr/>								
Sample: GW-110113-NH-BP R1 INF	Lab ID: 10248020011	Collected: 11/01/13 13:30	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	1.1 mg/L		0.42	1	11/05/13 11:18	11/07/13 15:31	68334-30-5	
Motor Oil Range SG	ND mg/L		0.42	1	11/05/13 11:18	11/07/13 15:31	64742-65-0	
Surrogates								
o-Terphenyl (S)	97 %		30-125	1	11/05/13 11:18	11/07/13 15:31	84-15-1	
n-Triacontane (S)	114 %		30-125	1	11/05/13 11:18	11/07/13 15:31	638-68-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

Sample: GW-110113-NH-BP R1 INF	Lab ID: 10248020011	Collected: 11/01/13 13:30	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	3230 ug/L		200	2		11/11/13 18:58		
Surrogates								
a,a,a-Trifluorotoluene (S)	104 %		75-125	2		11/11/13 18:58	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	2190 ug/L		10.0	10		11/04/13 22:03	71-43-2	
Ethylbenzene	422 ug/L		10.0	10		11/04/13 22:03	100-41-4	
Toluene	16.4 ug/L		10.0	10		11/04/13 22:03	108-88-3	
Xylene (Total)	ND ug/L		30.0	10		11/04/13 22:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99 %		75-125	10		11/04/13 22:03	17060-07-0	
Toluene-d8 (S)	92 %		75-125	10		11/04/13 22:03	2037-26-5	
4-Bromofluorobenzene (S)	98 %		75-125	10		11/04/13 22:03	460-00-4	

Sample: GW-110113-NH-BP R2 INF	Lab ID: 10248020012	Collected: 11/01/13 13:45	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.84 mg/L		0.40	1	11/05/13 11:18	11/07/13 16:38	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	11/05/13 11:18	11/07/13 16:38	64742-65-0	
Surrogates								
o-Terphenyl (S)	89 %		30-125	1	11/05/13 11:18	11/07/13 16:38	84-15-1	
n-Triacontane (S)	106 %		30-125	1	11/05/13 11:18	11/07/13 16:38	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	3570 ug/L		200	2		11/11/13 19:18		
Surrogates								
a,a,a-Trifluorotoluene (S)	95 %		75-125	2		11/11/13 19:18	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	675 ug/L		5.0	5		11/06/13 22:46	71-43-2	
Ethylbenzene	382 ug/L		5.0	5		11/06/13 22:46	100-41-4	
Toluene	3.6 ug/L		1.0	1		11/04/13 19:32	108-88-3	
Xylene (Total)	3.5 ug/L		3.0	1		11/04/13 19:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105 %		75-125	1		11/04/13 19:32	17060-07-0	
Toluene-d8 (S)	92 %		75-125	1		11/04/13 19:32	2037-26-5	
4-Bromofluorobenzene (S)	96 %		75-125	1		11/04/13 19:32	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

Sample: GW-110113-NH-BP TOTAL INF	Lab ID: 10248020013	Collected: 11/01/13 14:00	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.82 mg/L		0.41	1	11/05/13 11:18	11/07/13 17:01	68334-30-5	
Motor Oil Range SG	ND mg/L		0.41	1	11/05/13 11:18	11/07/13 17:01	64742-65-0	
Surrogates								
o-Terphenyl (S)	70 %		30-125	1	11/05/13 11:18	11/07/13 17:01	84-15-1	
n-Triacontane (S)	86 %		30-125	1	11/05/13 11:18	11/07/13 17:01	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	2940 ug/L		200	2			11/11/13 20:18	
Surrogates								
a,a,a-Trifluorotoluene (S)	108 %		75-125	2			11/11/13 20:18	98-08-8
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	1500 ug/L		10.0	10			11/06/13 23:01	71-43-2
Ethylbenzene	330 ug/L		5.0	5			11/04/13 21:42	100-41-4
Toluene	12.7 ug/L		5.0	5			11/04/13 21:42	108-88-3
Xylene (Total)	19.1 ug/L		15.0	5			11/04/13 21:42	1330-20-7
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %		75-125	5			11/04/13 21:42	17060-07-0
Toluene-d8 (S)	91 %		75-125	5			11/04/13 21:42	2037-26-5
4-Bromofluorobenzene (S)	97 %		75-125	5			11/04/13 21:42	460-00-4
Sample: GW-110113-NH-BP TOTAL EFF	Lab ID: 10248020014	Collected: 11/01/13 14:25	Received: 11/02/13 08:37	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.43	1	11/05/13 11:18	11/07/13 17:23	68334-30-5	
Motor Oil Range SG	ND mg/L		0.43	1	11/05/13 11:18	11/07/13 17:23	64742-65-0	
Surrogates								
o-Terphenyl (S)	71 %		30-125	1	11/05/13 11:18	11/07/13 17:23	84-15-1	
n-Triacontane (S)	82 %		30-125	1	11/05/13 11:18	11/07/13 17:23	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1			11/11/13 18:38	
Surrogates								
a,a,a-Trifluorotoluene (S)	89 %		75-125	1			11/11/13 18:38	98-08-8
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1			11/05/13 15:40	71-43-2
Ethylbenzene	ND ug/L		1.0	1			11/05/13 15:40	100-41-4
Toluene	ND ug/L		1.0	1			11/05/13 15:40	108-88-3
Xylene (Total)	ND ug/L		3.0	1			11/05/13 15:40	1330-20-7
Surrogates								
1,2-Dichloroethane-d4 (S)	97 %		75-125	1			11/05/13 15:40	17060-07-0

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 070496-2RM P66-RENTON TERMIN
Pace Project No.: 10248020

Sample: GW-110113-NH-BP TOTAL EFF Lab ID: 10248020014 Collected: 11/01/13 14:25 Received: 11/02/13 08:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	83 %		75-125	1		11/05/13 15:40	2037-26-5	
4-Bromofluorobenzene (S)	96 %		75-125	1		11/05/13 15:40	460-00-4	

Sample: A-110113-NH-BP AS EFF Lab ID: 10248020015 Collected: 11/01/13 14:35 Received: 11/02/13 08:37 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.97 ppmv		0.017	33.6		11/10/13 03:20	71-43-2	A4
Ethylbenzene	0.16 ppmv		0.017	33.6		11/10/13 03:20	100-41-4	
THC as Gas	3.0 ppmv		1.2	33.6		11/10/13 03:20		
Toluene	0.45 ppmv		0.017	33.6		11/10/13 03:20	108-88-3	
m&p-Xylene	ND ppmv		0.034	33.6		11/10/13 03:20	179601-23-1	
o-Xylene	ND ppmv		0.017	33.6		11/10/13 03:20	95-47-6	

Sample: TRIP (HCL) BLANK Lab ID: 10248020016 Collected: 11/01/13 00:00 Received: 11/02/13 08:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		11/11/13 13:57		
Surrogates								
a,a,a-Trifluorotoluene (S)	84 %		75-125	1		11/11/13 13:57	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		11/04/13 16:40	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		11/04/13 16:40	100-41-4	
Toluene	ND ug/L		1.0	1		11/04/13 16:40	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		11/04/13 16:40	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %		75-125	1		11/04/13 16:40	17060-07-0	
Toluene-d8 (S)	91 %		75-125	1		11/04/13 16:40	2037-26-5	
4-Bromofluorobenzene (S)	99 %		75-125	1		11/04/13 16:40	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

QC Batch: AIR/18678 Analysis Method: TO-14M Ambient Air

QC Batch Method: TO-14M Ambient Air Analysis Description: TO14 MSV AIR - AMBIENT

Associated Lab Samples: 10248020005, 10248020006, 10248020007, 10248020008, 10248020009, 10248020010, 10248020015

METHOD BLANK: 1573940 Matrix: Air

Associated Lab Samples: 10248020005, 10248020006, 10248020007, 10248020008, 10248020009, 10248020010, 10248020015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.00050	11/09/13 18:57	
Ethylbenzene	ppmv	ND	0.00050	11/09/13 18:57	
m&p-Xylene	ppmv	ND	0.0010	11/09/13 18:57	
o-Xylene	ppmv	ND	0.00050	11/09/13 18:57	
THC as Gas	ppmv	ND	0.035	11/09/13 18:57	
Toluene	ppmv	ND	0.00050	11/09/13 18:57	

LABORATORY CONTROL SAMPLE: 1573941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	.01	0.0099	99	72-136	
Ethylbenzene	ppmv	.01	0.0096	96	74-136	
m&p-Xylene	ppmv	.01	0.0095	95	72-135	
o-Xylene	ppmv	.01	0.0098	98	74-135	
THC as Gas	ppmv	.72	0.79	110	63-141	
Toluene	ppmv	.01	0.0094	94	71-134	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

QC Batch:	GCV/11444	Analysis Method:	NWTPH-Gx/8021
QC Batch Method:	NWTPH-Gx/8021	Analysis Description:	NWTPH-Gx/8021B Water
Associated Lab Samples:	10248020001, 10248020002, 10248020003, 10248020004, 10248020011, 10248020012, 10248020013, 10248020014, 10248020016		

METHOD BLANK: 1574105 Matrix: Water

Associated Lab Samples: 10248020001, 10248020002, 10248020003, 10248020004, 10248020011, 10248020012, 10248020013, 10248020014, 10248020016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	11/11/13 13:17	
a,a,a-Trifluorotoluene (S)	%	83	75-125	11/11/13 13:17	

METHOD BLANK: 1574146 Matrix: Water

Associated Lab Samples: 10248020001, 10248020002, 10248020003, 10248020004, 10248020011, 10248020012, 10248020013, 10248020014, 10248020016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	11/11/13 16:18	
a,a,a-Trifluorotoluene (S)	%	86	75-125	11/11/13 16:18	

LABORATORY CONTROL SAMPLE & LCSD: 1574106 1574107

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	940	923	94	92	75-126	2	20	
a,a,a-Trifluorotoluene (S)	%				92	96	75-125			

MATRIX SPIKE SAMPLE: 1574850

Parameter	Units	10248020003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
TPH as Gas	ug/L	ND	1000	1050	104	75-137	
a,a,a-Trifluorotoluene (S)	%				97	75-125	

SAMPLE DUPLICATE: 1574849

Parameter	Units	10248020002 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	ND		30	
a,a,a-Trifluorotoluene (S)	%	84	82	2		

SAMPLE DUPLICATE: 1574851

Parameter	Units	10248020004 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	ND		30	
a,a,a-Trifluorotoluene (S)	%	86	86	.2		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

QC Batch:	MSV/25502	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	10248020001, 10248020003, 10248020004, 10248020011, 10248020012, 10248020013, 10248020016		

METHOD BLANK: 1568523 Matrix: Water

Associated Lab Samples: 10248020001, 10248020003, 10248020004, 10248020011, 10248020012, 10248020013, 10248020016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/04/13 12:21	
Ethylbenzene	ug/L	ND	1.0	11/04/13 12:21	
Toluene	ug/L	ND	1.0	11/04/13 12:21	
Xylene (Total)	ug/L	ND	3.0	11/04/13 12:21	
1,2-Dichloroethane-d4 (S)	%	96	75-125	11/04/13 12:21	
4-Bromofluorobenzene (S)	%	97	75-125	11/04/13 12:21	
Toluene-d8 (S)	%	93	75-125	11/04/13 12:21	

LABORATORY CONTROL SAMPLE: 1568524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	22.4	112	75-125	
Ethylbenzene	ug/L	20	19.5	97	75-125	
Toluene	ug/L	20	18.9	95	75-125	
Xylene (Total)	ug/L	60	56.8	95	75-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			94	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1568525 1568526

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		10248033002	Result	Spike Conc.	Spike Conc.						
Benzene	ug/L	ND	100	100	127	118	127	117	70-135	8	30
Ethylbenzene	ug/L	ND	100	100	106	96.6	106	97	75-125	10	30
Toluene	ug/L	ND	100	100	103	92.5	103	92	75-125	11	30
Xylene (Total)	ug/L	ND	300	300	314	285	105	95	75-125	9	30
1,2-Dichloroethane-d4 (S)	%						103	105	75-125		
4-Bromofluorobenzene (S)	%						97	98	75-125		
Toluene-d8 (S)	%						94	93	75-125		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

QC Batch:	MSV/25517	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	10248020014		

METHOD BLANK: 1569917 Matrix: Water

Associated Lab Samples: 10248020014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/05/13 12:47	
Ethylbenzene	ug/L	ND	1.0	11/05/13 12:47	
Toluene	ug/L	ND	1.0	11/05/13 12:47	
Xylene (Total)	ug/L	ND	3.0	11/05/13 12:47	
1,2-Dichloroethane-d4 (S)	%	96	75-125	11/05/13 12:47	
4-Bromofluorobenzene (S)	%	97	75-125	11/05/13 12:47	
Toluene-d8 (S)	%	84	75-125	11/05/13 12:47	

LABORATORY CONTROL SAMPLE: 1569918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	25.1	126	75-125	L0
Ethylbenzene	ug/L	20	18.8	94	75-125	
Toluene	ug/L	20	18.2	91	75-125	
Xylene (Total)	ug/L	60	55.8	93	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			87	75-125	

MATRIX SPIKE SAMPLE: 1569919

Parameter	Units	10248082003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	28.2	141	70-135	M0
Ethylbenzene	ug/L	ND	20	19.2	96	75-125	
Toluene	ug/L	ND	20	18.7	93	75-125	
Xylene (Total)	ug/L	ND	60	56.6	94	75-125	
1,2-Dichloroethane-d4 (S)	%				103	75-125	
4-Bromofluorobenzene (S)	%				96	75-125	
Toluene-d8 (S)	%				85	75-125	

SAMPLE DUPLICATE: 1570970

Parameter	Units	10248082004 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	98	96	1		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

SAMPLE DUPLICATE: 1570970

Parameter	Units	10248082004	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	96	97	.6		
Toluene-d8 (S)	%	84	84	.3		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

QC Batch:	MSV/25548	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	10248020002		

METHOD BLANK: 1572592 Matrix: Water

Associated Lab Samples: 10248020002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/08/13 10:25	
Ethylbenzene	ug/L	ND	1.0	11/08/13 10:25	
Toluene	ug/L	ND	1.0	11/08/13 10:25	
Xylene (Total)	ug/L	ND	3.0	11/08/13 10:25	
1,2-Dichloroethane-d4 (S)	%	100	75-125	11/08/13 10:25	
4-Bromofluorobenzene (S)	%	104	75-125	11/08/13 10:25	
Toluene-d8 (S)	%	102	75-125	11/08/13 10:25	

LABORATORY CONTROL SAMPLE: 1572593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.1	106	75-125	
Ethylbenzene	ug/L	20	19.2	96	75-125	
Toluene	ug/L	20	20.2	101	75-125	
Xylene (Total)	ug/L	60	59.2	99	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1573191 1573192

Parameter	Units	10248629002 Result	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec	Max		
			Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/L	16.4	100	100	155	118	138	102	70-135	26	30	M1
Ethylbenzene	ug/L	ND	100	100	121	88.6	119	87	75-125	31	30	R1
Toluene	ug/L	5.3	100	100	132	95.8	127	91	75-125	32	30	M1,R1
Xylene (Total)	ug/L	ND	300	300	371	275	124	92	75-125	30	30	
1,2-Dichloroethane-d4 (S)	%						109	107	75-125			
4-Bromofluorobenzene (S)	%						106	106	75-125			
Toluene-d8 (S)	%						104	103	75-125			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

QC Batch:	OEXT/23564	Analysis Method:	NWTPH-Dx
QC Batch Method:	EPA 3510	Analysis Description:	NWTPH-Dx GCS LV SG
Associated Lab Samples:	10248020001, 10248020002, 10248020003, 10248020004, 10248020011, 10248020012, 10248020013, 10248020014		

METHOD BLANK: 1570004 Matrix: Water

Associated Lab Samples: 10248020001, 10248020002, 10248020003, 10248020004, 10248020011, 10248020012, 10248020013,
10248020014

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
Diesel Fuel Range SG	mg/L	ND	0.40	11/07/13 12:10		
Motor Oil Range SG	mg/L	ND	0.40	11/07/13 12:10		
n-Tricontane (S)	%	107	30-125	11/07/13 12:10		
o-Terphenyl (S)	%	97	30-125	11/07/13 12:10		

LABORATORY CONTROL SAMPLE & LCSD: 1570005 1570006

Parameter	Units	Spike Conc.	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
			Result	Result	% Rec	% Rec				
Diesel Fuel Range SG	mg/L	2	1.8	1.9	88	93	50-150	6	20	
Motor Oil Range SG	mg/L	2	1.9	2.0	97	101	50-150	5	20	
n-Tricontane (S)	%				99	101	30-125			
o-Terphenyl (S)	%				105	98	30-125			

SAMPLE DUPLICATE: 1570007

Parameter	Units	10247733001		Dup Result	RPD	Max RPD	Qualifiers
		Result	RPD				
Diesel Fuel Range SG	mg/L	ND	.077J			30	
Motor Oil Range SG	mg/L	ND	.057J			30	
n-Tricontane (S)	%	110	110		.4		
o-Terphenyl (S)	%	95	94		.8		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: 070496-2RM P66-RENTON TERMIN

Pace Project No.: 10248020

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

ANALYTE QUALIFIERS

A4 Sample was transferred from a sampling bag into a Summa Canister within 48 hours of collection.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 070496-2RM P66-RENTON TERMIN
Pace Project No.: 10248020

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10248020005	A-110113-NH-SVE INF	TO-14M Ambient Air	AIR/18678		
10248020006	A-110113-NH-AS EFF	TO-14M Ambient Air	AIR/18678		
10248020007	A-110113-NH-TOTAL INF	TO-14M Ambient Air	AIR/18678		
10248020008	A-110113-NH-MID CARBON 1	TO-14M Ambient Air	AIR/18678		
10248020009	A-110113-NH-MID CARBON 2	TO-14M Ambient Air	AIR/18678		
10248020010	A-110113-NH-TOTAL EFF	TO-14M Ambient Air	AIR/18678		
10248020015	A-110113-NH-BP AS EFF	TO-14M Ambient Air	AIR/18678		
10248020001	GW-110113-NH-TOTAL INF	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020002	GW-110113-NH-AS EFF	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020003	GW-110113-NH-MID CARBON	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020004	GW-110113-NH-TOTAL EFF	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020011	GW-110113-NH-BP R1 INF	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020012	GW-110113-NH-BP R2 INF	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020013	GW-110113-NH-BP TOTAL INF	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020014	GW-110113-NH-BP TOTAL EFF	EPA 3510	OEXT/23564	NWTPH-Dx	GCSV/12373
10248020001	GW-110113-NH-TOTAL INF	NWTPH-Gx/8021	GCV/11444		
10248020002	GW-110113-NH-AS EFF	NWTPH-Gx/8021	GCV/11444		
10248020003	GW-110113-NH-MID CARBON	NWTPH-Gx/8021	GCV/11444		
10248020004	GW-110113-NH-TOTAL EFF	NWTPH-Gx/8021	GCV/11444		
10248020011	GW-110113-NH-BP R1 INF	NWTPH-Gx/8021	GCV/11444		
10248020012	GW-110113-NH-BP R2 INF	NWTPH-Gx/8021	GCV/11444		
10248020013	GW-110113-NH-BP TOTAL INF	NWTPH-Gx/8021	GCV/11444		
10248020014	GW-110113-NH-BP TOTAL EFF	NWTPH-Gx/8021	GCV/11444		
10248020016	TRIP (HCL) BLANK	NWTPH-Gx/8021	GCV/11444		
10248020001	GW-110113-NH-TOTAL INF	EPA 8260	MSV/25502		
10248020002	GW-110113-NH-AS EFF	EPA 8260	MSV/25548		
10248020003	GW-110113-NH-MID CARBON	EPA 8260	MSV/25502		
10248020004	GW-110113-NH-TOTAL EFF	EPA 8260	MSV/25502		
10248020011	GW-110113-NH-BP R1 INF	EPA 8260	MSV/25502		
10248020012	GW-110113-NH-BP R2 INF	EPA 8260	MSV/25502		
10248020013	GW-110113-NH-BP TOTAL INF	EPA 8260	MSV/25502		
10248020014	GW-110113-NH-BP TOTAL EFF	EPA 8260	MSV/25517		
10248020016	TRIP (HCL) BLANK	EPA 8260	MSV/25502		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

Address: 732 BROADWAY, TACOMA, WA. 98402
Phone: 253.573.1218 Fax: 253.573.1663 10/24/2020

PAGE / OF /
(See Reverse Side for Instructions)

COC NO.: 38443

PAGE / OF /

PAGE / OF /

PAGE / OF /

Project No/Phase/Task Code: 670496-2RMOO

Laboratory Name: PACE

Lab Contact: J. Gross

Lab Quote No:

Cooler No:

Project Name: P66 - RENTON TERMINAL

Project Location: RENTON, WA.

Chemistry Contact: M. Davis / J. Gross

Sampler(s): N. Inspector

ITEM	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (mm:ss)	TIME (mm:ss)	CONTAINER QUANTITY & PRESERVATION		(See Basis of COC for Definitions)	ANALYSIS REQUESTED	Carrier:	Airbill No:	Date Shipped:	MS/MSD Request	Comments/ SPECIAL INSTRUCTIONS:
					Matrix Code (see back of COC)	Grab (g) or Comp (g) Other:							
1	GW - 110113 - NH - TOTAL INF	11/01/13	11:00	11:00	WG	G		X					6 TRIP BLANKS
2	GW - 110113 - NH - AS EFF	11/01/13	11:20	11:20	WG	G		X					VIALS
3	GW - 110113 - NH - MID CARBON	11/01/13	11:35	11:35	WG	G		X					INCLUDED
4	GW - 110113 - NH - TOTAL EFF	11/01/13	11:50	11:50	WG	G		X					
5	G - 110113 - NH - SVE INF	11/01/13	12:40	12:40	G	G		X					
6	G - 110113 - NH - AS EFF	11/01/13	12:45	12:45	G	G		X					
7	G - 110113 - NH - TOTAL INF	11/01/13	12:50	12:50	G	G		X					
8	G - 110113 - NH - MID CARBON 1	11/01/13	12:55	12:55	G	G		X					
9	G - 110113 - NH - MID CARBON 2	11/01/13	13:00	13:00	G	G		X					
10	G - 110113 - NH - TOTAL EFF	11/01/13	13:05	13:05	G	G		X					
11	GW - 110113 - NH - BP RI INF	11/01/13	13:30	13:30	WG	G		X					
12	GW - 110113 - NH - BP R2 INF	11/01/13	13:45	13:45	WG	G		X					
13	GW - 110113 - NH - BT TOTAL INF	11/01/13	14:00	14:00	WG	G		X					
14	GW - 110113 - NH - BP TOTAL EFF	11/01/13	14:25	14:25	WG	G		X					
15	G - 110113 - NH - BP AS EFF	11/01/13	14:35	14:35	WG	G		X					

TAT Required in business days (use separate COCs for different TATs):

1 Day 2 Days 3 Days 1 Week 2 Week Other: STANDARD

All Samples in Cooler must be on COC

RELINQUISHED BY

COMPANY

DATE

TIME

RECEIVED BY

COMPANY

DATE

TIME

Total Number of Containers: 77 Notes/ Special Requirements:
Received with ice at 1.8°C, 7.6°C Amb

1. <i>John Slag</i>	ORX	11/01/13	14:45	1. <i>John Slag</i>	PAC	MARSHALL	11/01/13	14:45
2. <i>John Slag</i>	PACE	11/01/13	16:00	2. <i>John Slag</i>	PAC	MARSHALL	11/21/13	08:57

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT — ALL FIELDS MUST BE COMPLETED ACCURATELY

WHITE — Fully Executed Copy (CRA)

YELLOW — Receiving Laboratory Copy

PINK — Shipper

Distribution:

GOLDENROD — Sampling Crew

CRA Form: COC-10B (2/01/0804)

T = O. 4, B. 5, S. 5



Document Name:
Sample Condition Upon Receipt Form

Document Revised: 19Sep2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

**Sample Condition
Upon Receipt**

Client Name:

Project #:

CRA COP

WO# : 10248020



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

Tracking Number: *5119 5330 6764, 6775*

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

Thermom. Used: 80512447 B88A912167504 **Type of Ice:** Wet Blue None Samples on ice, cooling process has begun
 72337080 B88A9132521491

Cooler Temp Read (°C): *0.1, 3.1* **Cooler Temp Corrected (°C):** *0.4, 3.5* **Biological Tissue Frozen?** Yes No
Correction Factor: *10.3, 7.0.4* **Date and Initials of Person Examining Contents:** *1H 11-02-13*

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <i>WT / AR</i>		
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
Exceptions: VOA Coliform, TOC, Oil and Grease, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample #
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: <i>1H</i>
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative:
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. 6.T.B.
Pace Trip Blank Lot # (if purchased): <i>072213-3</i>		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *JLH/JWJ*

Date: *11/4/13*

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)



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.08

Document Revised: 19Sep2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:

Project #:

WO# : 10248020

CPA

Courier: FedEx UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: *5110 5330 6786*



10248020

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____

Temp. (TO17 and TO13 samples only) (°C): *-* Corrected Temp (°C): *ANS* Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447

Temp should be above freezing to 6°C Correction Factor: *-*

Date & Initials of Person Examining Contents: *R* *11/21/13*

Comments:

Chain of Custody Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Media: <i>AF</i>				11.
Sample Labels Match COC?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received:					
Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
005	PACE 2225				
006	PACE 1364				
007	PACE 1281				
008	PACE 1369				
009	PACE 1419				
010	PACE 48A				
015	PACE 1343				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *MH*

Date: *11/4/13*

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)

January 07, 2014

Edwin Turner
CRA_Conoco Phillips
20818 44th Ave. W
Lynnwood, WA 98036

RE: Project: Dec 2013 O&M Compliance 070496
Pace Project No.: 10253342

Dear Edwin Turner:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2013. 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,



Lori Castille for
Jennifer Gross
jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Yu Chen, CRA_Conoco Phillips
Jeffrey Cloud, Conestoga-Rovers Association
Matt Davis, CRA_Conoco Phillips
Matthew Smith, Conestoga-Rover's Association
Kelsey Whittaker, CRA



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: Dec 2013 O&M Compliance 070496
 Pace Project No.: 10253342

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alabama Dept of Environmental Management #40770
 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
 EPA Region 5 #WD-15J
 Florida/NELAP Certification #: E87605
 Georgia Certification #: 959
 Hawaii Certification #Pace
 Idaho Certification #: MN00064
 Illinois Certification #: 200011
 Indiana Certification#C-MN-01
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Kentucky Dept of Envi. Protection - DW #90062
 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
 Nebraska Certification #: Pace
 Nevada Certification #: MN_00064
 New Jersey Certification #: MN-002
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Dakota Certification #: R-036
 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

Montana Certification IDs

602 South 25th Street, Billings, MT 59101
 EPA Region 8 Certification #: 8TMS-Q
 Idaho Certification #: MT00012
 Montana Certification #: MT CERT0040

NVLAP Certification #: 101292-0
 Minnesota Dept of Health Certification #: 030-999-442
 Washington Department of Ecology #: C993

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: Dec 2013 O&M Compliance 070496
Pace Project No.: 10253342

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10253342001	GW-122013-MD-Total Inf	Water	12/20/13 09:30	12/20/13 13:19
10253342002	GW-122013-MD-AS Eff	Water	12/20/13 09:40	12/20/13 13:19
10253342003	GW-122013-MD-Mid Carbon	Water	12/20/13 09:50	12/20/13 13:19
10253342004	GW-122013-MD-Total Eff	Water	12/20/13 10:00	12/20/13 13:19
10253342005	GW-122013-MD-BP R1 Inf	Water	12/20/13 11:00	12/20/13 13:19
10253342006	GW-122013-MD-BP R2 Inf	Water	12/20/13 11:10	12/20/13 13:19
10253342007	GW-122013-MD-BP Total Inf	Water	12/20/13 11:20	12/20/13 13:19
10253342008	GW-122013-MD-BP Total Eff	Water	12/20/13 11:30	12/20/13 13:19
10253342009	Trip Blank	Water	12/20/13 00:00	12/20/13 13:19
10253342010	A-122013-MD-SVE INF	Air	12/20/13 12:05	12/20/13 13:19
10253342011	A-122013-MD-AD EFF	Air	12/20/13 12:07	12/20/13 13:19
10253342012	A-122013-MD-TOTAL INF	Air	12/20/13 12:09	12/20/13 13:19
10253342013	A-122013-MD-MID 1	Air	12/20/13 12:11	12/20/13 13:19
10253342014	A-122013-MD-MID 2	Air	12/20/13 12:13	12/20/13 13:19
10253342015	A-122013-MD-TOTAL EFF	Air	12/20/13 12:15	12/20/13 13:19
10253342016	A-122013-MD-BP TOTAL EFF	Air	12/20/13 11:35	12/20/13 13:19

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: Dec 2013 O&M Compliance 070496
Pace Project No.: 10253342

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10253342001	GW-122013-MD-Total Inf	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10253342002	GW-122013-MD-AS Eff	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10253342003	GW-122013-MD-Mid Carbon	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10253342004	GW-122013-MD-Total Eff	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 4500-H+B	SC1	1	PASI-MT
		EPA 1664 OG	MWD	1	PASI-M
10253342005	GW-122013-MD-BP R1 Inf	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10253342006	GW-122013-MD-BP R2 Inf	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10253342007	GW-122013-MD-BP Total Inf	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10253342008	GW-122013-MD-BP Total Eff	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
		SM 4500-H+B	SC1	1	PASI-MT
		EPA 1664 OG	MWD	1	PASI-M
10253342009	Trip Blank	NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10253342010	A-122013-MD-SVE INF	TO-14M Ambient Air	AH2	6	PASI-M
10253342011	A-122013-MD-AD EFF	TO-14M Ambient Air	AH2	6	PASI-M
10253342012	A-122013-MD-TOTAL INF	TO-14M Ambient Air	AH2	6	PASI-M
10253342013	A-122013-MD-MID 1	TO-14M Ambient Air	AH2	6	PASI-M
10253342014	A-122013-MD-MID 2	TO-14M Ambient Air	AH2	6	PASI-M
10253342015	A-122013-MD-TOTAL EFF	TO-14M Ambient Air	AH2	6	PASI-M
10253342016	A-122013-MD-BP TOTAL EFF	TO-14M Ambient Air	AH2	6	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Sample: GW-122013-MD-Total Inf	Lab ID: 10253342001	Collected: 12/20/13 09:30	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	1.2 mg/L		0.40	1	12/27/13 09:08	12/30/13 21:12	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/30/13 21:12	64742-65-0	
Surrogates								
o-Terphenyl (S)	73 %.		30-125	1	12/27/13 09:08	12/30/13 21:12	84-15-1	
n-Triacontane (S)	90 %.		30-125	1	12/27/13 09:08	12/30/13 21:12	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	1290 ug/L		100	1				12/27/13 02:02
Surrogates								
a,a,a-Trifluorotoluene (S)	96 %.		75-125	1				12/27/13 02:02
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	116 ug/L		2.0	2				12/31/13 13:58
Ethylbenzene	4.3 ug/L		2.0	2				71-43-2
Toluene	20.6 ug/L		2.0	2				100-41-4
Xylene (Total)	144 ug/L		6.0	2				12/31/13 13:58
Surrogates								108-88-3
1,2-Dichloroethane-d4 (S)	86 %.		75-125	2				1330-20-7
Toluene-d8 (S)	98 %.		75-125	2				17060-07-0
4-Bromofluorobenzene (S)	94 %.		75-125	2				2037-26-5
								460-00-4
Sample: GW-122013-MD-AS Eff	Lab ID: 10253342002	Collected: 12/20/13 09:40	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/30/13 21:56	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/30/13 21:56	64742-65-0	
Surrogates								
o-Terphenyl (S)	84 %.		30-125	1	12/27/13 09:08	12/30/13 21:56	84-15-1	
n-Triacontane (S)	100 %.		30-125	1	12/27/13 09:08	12/30/13 21:56	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1				12/26/13 22:21
Surrogates								
a,a,a-Trifluorotoluene (S)	92 %.		75-125	1				12/26/13 22:21
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1				98-08-8
Ethylbenzene	ND ug/L		1.0	1				71-43-2
Toluene	ND ug/L		1.0	1				100-41-4
Xylene (Total)	ND ug/L		3.0	1				12/31/13 11:23
Surrogates								108-88-3
1,2-Dichloroethane-d4 (S)	88 %.		75-125	1				1330-20-7
Toluene-d8 (S)	99 %.		75-125	1				17060-07-0
4-Bromofluorobenzene (S)	95 %.		75-125	1				2037-26-5
								460-00-4

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Sample: GW-122013-MD-Mid Carbon	Lab ID: 10253342003	Collected: 12/20/13 09:50	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/30/13 22:19	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/30/13 22:19	64742-65-0	
Surrogates								
o-Terphenyl (S)	75 %.		30-125	1	12/27/13 09:08	12/30/13 22:19	84-15-1	
n-Triacontane (S)	90 %.		30-125	1	12/27/13 09:08	12/30/13 22:19	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		12/26/13 22:41		
Surrogates								
a,a,a-Trifluorotoluene (S)	93 %.		75-125	1		12/26/13 22:41	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		12/31/13 11:38	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		12/31/13 11:38	100-41-4	
Toluene	ND ug/L		1.0	1		12/31/13 11:38	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		12/31/13 11:38	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	89 %.		75-125	1		12/31/13 11:38	17060-07-0	
Toluene-d8 (S)	98 %.		75-125	1		12/31/13 11:38	2037-26-5	
4-Bromofluorobenzene (S)	94 %.		75-125	1		12/31/13 11:38	460-00-4	

Sample: GW-122013-MD-Total Eff	Lab ID: 10253342004	Collected: 12/20/13 10:00	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/30/13 22:41	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/30/13 22:41	64742-65-0	
Surrogates								
o-Terphenyl (S)	78 %.		30-125	1	12/27/13 09:08	12/30/13 22:41	84-15-1	
n-Triacontane (S)	103 %.		30-125	1	12/27/13 09:08	12/30/13 22:41	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		12/26/13 23:01		
Surrogates								
a,a,a-Trifluorotoluene (S)	93 %.		75-125	1		12/26/13 23:01	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		12/31/13 11:07	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		12/31/13 11:07	100-41-4	
Toluene	ND ug/L		1.0	1		12/31/13 11:07	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		12/31/13 11:07	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87 %.		75-125	1		12/31/13 11:07	17060-07-0	
Toluene-d8 (S)	97 %.		75-125	1		12/31/13 11:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Sample: GW-122013-MD-Total Eff	Lab ID: 10253342004	Collected: 12/20/13 10:00	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	94 %.		75-125	1		12/31/13 11:07	460-00-4	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		12/24/13 13:19		H6
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG							
Oil and Grease	ND	mg/L	6.4	1		01/04/14 09:13		

Sample: GW-122013-MD-BP R1 Inf	Lab ID: 10253342005	Collected: 12/20/13 11:00	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	1.0	mg/L	0.40	1	12/27/13 09:08	12/30/13 23:04	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	12/27/13 09:08	12/30/13 23:04	64742-65-0	
Surrogates								
o-Terphenyl (S)	67 %.		30-125	1	12/27/13 09:08	12/30/13 23:04	84-15-1	
n-Triacontane (S)	90 %.		30-125	1	12/27/13 09:08	12/30/13 23:04	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	4120	ug/L	500	5		12/27/13 00:22		
Surrogates								
a,a,a-Trifluorotoluene (S)	100 %.		75-125	5		12/27/13 00:22	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	1270	ug/L	20.0	20		12/31/13 13:11	71-43-2	
Ethylbenzene	362	ug/L	20.0	20		12/31/13 13:11	100-41-4	
Toluene	ND	ug/L	20.0	20		12/31/13 13:11	108-88-3	
Xylene (Total)	ND	ug/L	60.0	20		12/31/13 13:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	86 %.		75-125	20		12/31/13 13:11	17060-07-0	
Toluene-d8 (S)	98 %.		75-125	20		12/31/13 13:11	2037-26-5	
4-Bromofluorobenzene (S)	94 %.		75-125	20		12/31/13 13:11	460-00-4	

Sample: GW-122013-MD-BP R2 Inf	Lab ID: 10253342006	Collected: 12/20/13 11:10	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.95	mg/L	0.40	1	12/27/13 09:08	12/30/13 23:26	68334-30-5	
Motor Oil Range SG	ND	mg/L	0.40	1	12/27/13 09:08	12/30/13 23:26	64742-65-0	
Surrogates								
o-Terphenyl (S)	74 %.		30-125	1	12/27/13 09:08	12/30/13 23:26	84-15-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Sample: GW-122013-MD-BP R2 Inf	Lab ID: 10253342006	Collected: 12/20/13 11:10	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Surrogates								
n-Triacontane (S)	91 %.		30-125	1	12/27/13 09:08	12/30/13 23:26	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	3880 ug/L		500	5		12/27/13 00:02		
Surrogates								
a,a,a-Trifluorotoluene (S)	95 %.		75-125	5		12/27/13 00:02	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	663 ug/L		5.0	5		12/31/13 13:42	71-43-2	
Ethylbenzene	357 ug/L		5.0	5		12/31/13 13:42	100-41-4	
Toluene	ND ug/L		5.0	5		12/31/13 13:42	108-88-3	
Xylene (Total)	ND ug/L		15.0	5		12/31/13 13:42	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87 %.		75-125	5		12/31/13 13:42	17060-07-0	
Toluene-d8 (S)	97 %.		75-125	5		12/31/13 13:42	2037-26-5	
4-Bromofluorobenzene (S)	93 %.		75-125	5		12/31/13 13:42	460-00-4	

Sample: GW-122013-MD-BP Total Inf	Lab ID: 10253342007	Collected: 12/20/13 11:20	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	1.0 mg/L		0.40	1	12/27/13 09:08	01/02/14 10:19	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	12/27/13 09:08	01/02/14 10:19	64742-65-0	
Surrogates								
o-Terphenyl (S)	83 %.		30-125	1	12/27/13 09:08	01/02/14 10:19	84-15-1	
n-Triacontane (S)	98 %.		30-125	1	12/27/13 09:08	01/02/14 10:19	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	3720 ug/L		500	5		12/26/13 23:22		
Surrogates								
a,a,a-Trifluorotoluene (S)	96 %.		75-125	5		12/26/13 23:22	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	1120 ug/L		20.0	20		12/31/13 13:26	71-43-2	
Ethylbenzene	329 ug/L		20.0	20		12/31/13 13:26	100-41-4	
Toluene	ND ug/L		20.0	20		12/31/13 13:26	108-88-3	
Xylene (Total)	ND ug/L		60.0	20		12/31/13 13:26	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	86 %.		75-125	20		12/31/13 13:26	17060-07-0	
Toluene-d8 (S)	99 %.		75-125	20		12/31/13 13:26	2037-26-5	
4-Bromofluorobenzene (S)	94 %.		75-125	20		12/31/13 13:26	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Sample: GW-122013-MD-BP Total Eff	Lab ID: 10253342008	Collected: 12/20/13 11:30	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/31/13 00:56	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	12/27/13 09:08	12/31/13 00:56	64742-65-0	
Surrogates								
o-Terphenyl (S)	72 %.		30-125	1	12/27/13 09:08	12/31/13 00:56	84-15-1	
n-Triacontane (S)	95 %.		30-125	1	12/27/13 09:08	12/31/13 00:56	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		12/27/13 01:42		
Surrogates								
a,a,a-Trifluorotoluene (S)	92 %.		75-125	1		12/27/13 01:42 98-08-8		
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	1.8 ug/L		1.0	1		12/31/13 12:09 71-43-2		
Ethylbenzene	ND ug/L		1.0	1		12/31/13 12:09 100-41-4		
Toluene	ND ug/L		1.0	1		12/31/13 12:09 108-88-3		
Xylene (Total)	ND ug/L		3.0	1		12/31/13 12:09 1330-20-7		
Surrogates								
1,2-Dichloroethane-d4 (S)	87 %.		75-125	1		12/31/13 12:09 17060-07-0		
Toluene-d8 (S)	98 %.		75-125	1		12/31/13 12:09 2037-26-5		
4-Bromofluorobenzene (S)	93 %.		75-125	1		12/31/13 12:09 460-00-4		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.7 Std. Units		0.10	1		12/24/13 13:20 H6		
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG							
Oil and Grease	ND mg/L		6.3	1		01/04/14 09:13		

Sample: Trip Blank	Lab ID: 10253342009	Collected: 12/20/13 00:00	Received: 12/20/13 13:19	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		12/26/13 22:01		
Surrogates								
a,a,a-Trifluorotoluene (S)	93 %.		75-125	1		12/26/13 22:01 98-08-8		
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		12/31/13 10:51 71-43-2		
Ethylbenzene	ND ug/L		1.0	1		12/31/13 10:51 100-41-4		
Toluene	ND ug/L		1.0	1		12/31/13 10:51 108-88-3		
Xylene (Total)	ND ug/L		3.0	1		12/31/13 10:51 1330-20-7		
Surrogates								
1,2-Dichloroethane-d4 (S)	87 %.		75-125	1		12/31/13 10:51 17060-07-0		
Toluene-d8 (S)	97 %.		75-125	1		12/31/13 10:51 2037-26-5		
4-Bromofluorobenzene (S)	94 %.		75-125	1		12/31/13 10:51 460-00-4		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Sample: A-122013-MD-SVE INF		Lab ID: 10253342010	Collected: 12/20/13 12:05	Received: 12/20/13 13:19	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	2.6 ppmv		0.27	537.6		12/28/13 00:20	71-43-2	A4
Ethylbenzene	ND ppmv		0.27	537.6		12/28/13 00:20	100-41-4	
THC as Gas	212 ppmv		18.8	537.6		12/28/13 00:20		
Toluene	3.0 ppmv		0.27	537.6		12/28/13 00:20	108-88-3	
m&p-Xylene	0.57 ppmv		0.54	537.6		12/28/13 00:20	179601-23-1	
o-Xylene	0.31 ppmv		0.27	537.6		12/28/13 00:20	95-47-6	
Sample: A-122013-MD-AD EFF		Lab ID: 10253342011	Collected: 12/20/13 12:07	Received: 12/20/13 13:19	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.0021 ppmv		0.00084	1.68		12/27/13 20:58	71-43-2	A4
Ethylbenzene	ND ppmv		0.00084	1.68		12/27/13 20:58	100-41-4	
THC as Gas	0.47 ppmv		0.059	1.68		12/27/13 20:58		
Toluene	0.0058 ppmv		0.00084	1.68		12/27/13 20:58	108-88-3	
m&p-Xylene	0.0046 ppmv		0.0017	1.68		12/27/13 20:58	179601-23-1	
o-Xylene	0.0026 ppmv		0.00084	1.68		12/27/13 20:58	95-47-6	
Sample: A-122013-MD-TOTAL INF		Lab ID: 10253342012	Collected: 12/20/13 12:09	Received: 12/20/13 13:19	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.038 ppmv		0.017	33.6		12/27/13 22:58	71-43-2	A4
Ethylbenzene	ND ppmv		0.017	33.6		12/27/13 22:58	100-41-4	
THC as Gas	3.4 ppmv		1.2	33.6		12/27/13 22:58		
Toluene	0.039 ppmv		0.017	33.6		12/27/13 22:58	108-88-3	
m&p-Xylene	ND ppmv		0.034	33.6		12/27/13 22:58	179601-23-1	
o-Xylene	ND ppmv		0.017	33.6		12/27/13 22:58	95-47-6	
Sample: A-122013-MD-MID 1		Lab ID: 10253342013	Collected: 12/20/13 12:11	Received: 12/20/13 13:19	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.00084	1.68		12/27/13 21:29	71-43-2	A4
Ethylbenzene	ND ppmv		0.00084	1.68		12/27/13 21:29	100-41-4	
THC as Gas	0.57 ppmv		0.059	1.68		12/27/13 21:29		
Toluene	ND ppmv		0.00084	1.68		12/27/13 21:29	108-88-3	
m&p-Xylene	ND ppmv		0.0017	1.68		12/27/13 21:29	179601-23-1	
o-Xylene	ND ppmv		0.00084	1.68		12/27/13 21:29	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Sample: A-122013-MD-MID 2		Lab ID: 10253342014	Collected: 12/20/13 12:13	Received: 12/20/13 13:19	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.00084	1.68		12/27/13 22:00	71-43-2	A4
Ethylbenzene	ND ppmv		0.00084	1.68		12/27/13 22:00	100-41-4	
THC as Gas	0.72 ppmv		0.059	1.68		12/27/13 22:00		
Toluene	ND ppmv		0.00084	1.68		12/27/13 22:00	108-88-3	
m&p-Xylene	ND ppmv		0.0017	1.68		12/27/13 22:00	179601-23-1	
o-Xylene	ND ppmv		0.00084	1.68		12/27/13 22:00	95-47-6	
Sample: A-122013-MD-TOTAL EFF		Lab ID: 10253342015	Collected: 12/20/13 12:15	Received: 12/20/13 13:19	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.00084	1.68		12/27/13 22:30	71-43-2	A4
Ethylbenzene	ND ppmv		0.00084	1.68		12/27/13 22:30	100-41-4	
THC as Gas	0.67 ppmv		0.059	1.68		12/27/13 22:30		
Toluene	ND ppmv		0.00084	1.68		12/27/13 22:30	108-88-3	
m&p-Xylene	ND ppmv		0.0017	1.68		12/27/13 22:30	179601-23-1	
o-Xylene	ND ppmv		0.00084	1.68		12/27/13 22:30	95-47-6	
Sample: A-122013-MD-BP TOTAL EFF		Lab ID: 10253342016	Collected: 12/20/13 11:35	Received: 12/20/13 13:19	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	1.6 ppmv		0.13	268.8		12/28/13 16:34	71-43-2	A3,A4
Ethylbenzene	0.25 ppmv		0.017	33.6		12/27/13 23:25	100-41-4	
THC as Gas	4.1 ppmv		1.2	33.6		12/27/13 23:25		
Toluene	ND ppmv		0.017	33.6		12/27/13 23:25	108-88-3	
m&p-Xylene	ND ppmv		0.034	33.6		12/27/13 23:25	179601-23-1	
o-Xylene	ND ppmv		0.017	33.6		12/27/13 23:25	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

QC Batch:	AIR/19048	Analysis Method:	TO-14M Ambient Air
QC Batch Method:	TO-14M Ambient Air	Analysis Description:	TO14 MSV AIR - AMBIENT
Associated Lab Samples:	10253342010, 10253342011, 10253342012, 10253342013, 10253342014, 10253342015, 10253342016		

METHOD BLANK: 1602473 Matrix: Air

Associated Lab Samples: 10253342010, 10253342011, 10253342012, 10253342013, 10253342014, 10253342015, 10253342016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.00050	12/27/13 17:55	
Ethylbenzene	ppmv	ND	0.00050	12/27/13 17:55	
m&p-Xylene	ppmv	ND	0.0010	12/27/13 17:55	
o-Xylene	ppmv	ND	0.00050	12/27/13 17:55	
THC as Gas	ppmv	ND	0.035	12/27/13 17:55	
Toluene	ppmv	ND	0.00050	12/27/13 17:55	

LABORATORY CONTROL SAMPLE: 1602474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	.01	0.011	111	72-136	
Ethylbenzene	ppmv	.01	0.011	109	74-136	
m&p-Xylene	ppmv	.01	0.011	108	72-135	
o-Xylene	ppmv	.01	0.011	112	74-135	
THC as Gas	ppmv	.72	0.73	101	63-141	
Toluene	ppmv	.01	0.010	103	71-134	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

QC Batch: GCV/11538 Analysis Method: NWTPH-Gx/8021
QC Batch Method: NWTPH-Gx/8021 Analysis Description: NWTPH-Gx/8021B Water

Associated Lab Samples: 10253342001, 10253342002, 10253342003, 10253342004, 10253342005, 10253342006, 10253342007,
10253342008, 10253342009

METHOD BLANK: 1601273 Matrix: Water

Associated Lab Samples: 10253342001, 10253342002, 10253342003, 10253342004, 10253342005, 10253342006, 10253342007,
10253342008, 10253342009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	12/26/13 21:41	
a,a,a-Trifluorotoluene (S)	%	90	75-125	12/26/13 21:41	

METHOD BLANK: 1602330 Matrix: Water

Associated Lab Samples: 10253342001, 10253342002, 10253342003, 10253342004, 10253342005, 10253342006, 10253342007,
10253342008, 10253342009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	12/27/13 01:22	
a,a,a-Trifluorotoluene (S)	%	91	75-125	12/27/13 01:22	

LABORATORY CONTROL SAMPLE & LCSD: 1601274 1601275

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1010	1060	101	106	75-126	5	20	
a,a,a-Trifluorotoluene (S)	%				98	103	75-125			

MATRIX SPIKE SAMPLE: 1602329

Parameter	Units	10253342005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
TPH as Gas	ug/L	4120	5000	10100	119	75-137	
a,a,a-Trifluorotoluene (S)	%				112	75-125	

SAMPLE DUPLICATE: 1601277

Parameter	Units	10253342007 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	3720	3690	1	30	
a,a,a-Trifluorotoluene (S)	%	96	97	1		

SAMPLE DUPLICATE: 1601778

Parameter	Units	10253223001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	2000000	1950000	2	30	
a,a,a-Trifluorotoluene (S)	%	91	92	.7		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

QC Batch:	MSV/26056	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	10253342001, 10253342002, 10253342003, 10253342004, 10253342005, 10253342006, 10253342007, 10253342008, 10253342009		

METHOD BLANK: 1603229 Matrix: Water

Associated Lab Samples: 10253342001, 10253342002, 10253342003, 10253342004, 10253342005, 10253342006, 10253342007, 10253342008, 10253342009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/31/13 10:36	
Ethylbenzene	ug/L	ND	1.0	12/31/13 10:36	
Toluene	ug/L	ND	1.0	12/31/13 10:36	
Xylene (Total)	ug/L	ND	3.0	12/31/13 10:36	
1,2-Dichloroethane-d4 (S)	%.	87	75-125	12/31/13 10:36	
4-Bromofluorobenzene (S)	%.	94	75-125	12/31/13 10:36	
Toluene-d8 (S)	%.	98	75-125	12/31/13 10:36	

LABORATORY CONTROL SAMPLE: 1603230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.8	84	75-125	
Ethylbenzene	ug/L	20	17.1	86	75-125	
Toluene	ug/L	20	17.2	86	75-125	
Xylene (Total)	ug/L	60	53.9	90	75-125	
1,2-Dichloroethane-d4 (S)	%.			86	75-125	
4-Bromofluorobenzene (S)	%.			95	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE SAMPLE: 1603621

Parameter	Units	10253342002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	16.3	82	70-135	
Ethylbenzene	ug/L	ND	20	16.4	82	75-125	
Toluene	ug/L	ND	20	16.3	82	75-125	
Xylene (Total)	ug/L	ND	60	52.0	87	75-125	
1,2-Dichloroethane-d4 (S)	%.				87	75-125	
4-Bromofluorobenzene (S)	%.				93	75-125	
Toluene-d8 (S)	%.				98	75-125	

SAMPLE DUPLICATE: 1603622

Parameter	Units	10253342003 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

SAMPLE DUPLICATE: 1603622

Parameter	Units	10253342003	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%.	89	88	1		
4-Bromofluorobenzene (S)	%.	94	93	1		
Toluene-d8 (S)	%.	98	98	.3		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

QC Batch: MT/14776 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 10253342004, 10253342008

LABORATORY CONTROL SAMPLE: 1601381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	7	7.0	100	98-102	H6

SAMPLE DUPLICATE: 1601382

Parameter	Units	10253342004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	.1	3	H6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

QC Batch: OEXT/24031

Analysis Method: NWTPH-Dx

QC Batch Method: EPA 3510

Analysis Description: NWTPH-Dx GCS LV SG

Associated Lab Samples: 10253342001, 10253342002, 10253342003, 10253342004, 10253342005, 10253342006, 10253342007,
10253342008

METHOD BLANK: 1602163

Matrix: Water

Associated Lab Samples: 10253342001, 10253342002, 10253342003, 10253342004, 10253342005, 10253342006, 10253342007,
10253342008

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
Diesel Fuel Range SG	mg/L	ND	0.40	12/30/13 20:27		
Motor Oil Range SG	mg/L	ND	0.40	12/30/13 20:27		
n-Triacontane (S)	%.	100	30-125	12/30/13 20:27		
o-Terphenyl (S)	%.	77	30-125	12/30/13 20:27		

LABORATORY CONTROL SAMPLE & LCSD: 1602164

1602165

Parameter	Units	Spike Conc.	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
			Result	Result	% Rec	% Rec				
Diesel Fuel Range SG	mg/L	2	1.7	1.8	87	89	50-150	2	20	
Motor Oil Range SG	mg/L	2	1.9	2.0	93	98	50-150	5	20	
n-Triacontane (S)	%.				92	88	30-125			
o-Terphenyl (S)	%.				80	79	30-125			

SAMPLE DUPLICATE: 1602166

Parameter	Units	10253342001		Dup Result	RPD	Max RPD	Qualifiers
		Result	RPD				
Diesel Fuel Range SG	mg/L	1.2	0.85		30	30	
Motor Oil Range SG	mg/L	ND	.27J			30	
n-Triacontane (S)	%.	90	93		3		
o-Terphenyl (S)	%.	73	78		6		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

QC Batch: WET/33881 Analysis Method: EPA 1664 OG

QC Batch Method: EPA 1664 OG Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 10253342004, 10253342008

METHOD BLANK: 1604058 Matrix: Water

Associated Lab Samples: 10253342004, 10253342008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.1	01/04/14 08:07	

LABORATORY CONTROL SAMPLE: 1604059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40.8	39.5	97	78-114	

MATRIX SPIKE SAMPLE: 1604060

Parameter	Units	10253826001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	44.4	37.8	83	78-114	

SAMPLE DUPLICATE: 1604061

Parameter	Units	10253826002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

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

PASI-MT Pace Analytical Services - Montana

SAMPLE QUALIFIERS

Sample: 10253342010

[1] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

A3 The sample was analyzed by serial dilution.

A4 Sample was transferred from a sampling bag into a Summa Canister within 48 hours of collection.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Dec 2013 O&M Compliance 070496

Pace Project No.: 10253342

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10253342010	A-122013-MD-SVE INF	TO-14M Ambient Air	AIR/19048		
10253342011	A-122013-MD-AD EFF	TO-14M Ambient Air	AIR/19048		
10253342012	A-122013-MD-TOTAL INF	TO-14M Ambient Air	AIR/19048		
10253342013	A-122013-MD-MID 1	TO-14M Ambient Air	AIR/19048		
10253342014	A-122013-MD-MID 2	TO-14M Ambient Air	AIR/19048		
10253342015	A-122013-MD-TOTAL EFF	TO-14M Ambient Air	AIR/19048		
10253342016	A-122013-MD-BP TOTAL EFF	TO-14M Ambient Air	AIR/19048		
10253342001	GW-122013-MD-Total Inf	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342002	GW-122013-MD-AS Eff	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342003	GW-122013-MD-Mid Carbon	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342004	GW-122013-MD-Total Eff	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342005	GW-122013-MD-BP R1 Inf	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342006	GW-122013-MD-BP R2 Inf	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342007	GW-122013-MD-BP Total Inf	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342008	GW-122013-MD-BP Total Eff	EPA 3510	OEXT/24031	NWTPH-Dx	GCSV/12650
10253342009	Trip Blank	NWTPH-Gx/8021	GCV/11538		
10253342001	GW-122013-MD-Total Inf	NWTPH-Gx/8021	GCV/11538		
10253342002	GW-122013-MD-AS Eff	NWTPH-Gx/8021	GCV/11538		
10253342003	GW-122013-MD-Mid Carbon	NWTPH-Gx/8021	GCV/11538		
10253342004	GW-122013-MD-Total Eff	NWTPH-Gx/8021	GCV/11538		
10253342005	GW-122013-MD-BP R1 Inf	NWTPH-Gx/8021	GCV/11538		
10253342006	GW-122013-MD-BP R2 Inf	NWTPH-Gx/8021	GCV/11538		
10253342007	GW-122013-MD-BP Total Inf	NWTPH-Gx/8021	GCV/11538		
10253342008	GW-122013-MD-BP Total Eff	NWTPH-Gx/8021	GCV/11538		
10253342009	Trip Blank	NWTPH-Gx/8021	GCV/11538		
10253342001	GW-122013-MD-Total Inf	EPA 8260	MSV/26056		
10253342002	GW-122013-MD-AS Eff	EPA 8260	MSV/26056		
10253342003	GW-122013-MD-Mid Carbon	EPA 8260	MSV/26056		
10253342004	GW-122013-MD-Total Eff	EPA 8260	MSV/26056		
10253342005	GW-122013-MD-BP R1 Inf	EPA 8260	MSV/26056		
10253342006	GW-122013-MD-BP R2 Inf	EPA 8260	MSV/26056		
10253342007	GW-122013-MD-BP Total Inf	EPA 8260	MSV/26056		
10253342008	GW-122013-MD-BP Total Eff	EPA 8260	MSV/26056		
10253342009	Trip Blank	EPA 8260	MSV/26056		
10253342004	GW-122013-MD-Total Eff	SM 4500-H+B	MT/14776		
10253342008	GW-122013-MD-BP Total Eff	SM 4500-H+B	MT/14776		
10253342004	GW-122013-MD-Total Eff	EPA 1664 OG	WET/33881		
10253342008	GW-122013-MD-BP Total Eff	EPA 1664 OG	WET/33881		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CHAIN OF CUSTODY RECORD

1131

CONESTOGA-ROVERS & ASSOCIATES TACOMA			SHIPPED TO (Laboratory Name): PACE			REFERENCE NUMBER: 070496 10253349						
SAMPLER'S SIGNATURE: <u>Matt Davis</u>			PRINTED NAME: MATT DAVIS									
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS	TOK-SX	TAT-DY	DT-EX	P4	POL	REMARKS
	12/20/13	930	GW-122013-MD - Total INF	GW	6	X X X						10253349001
		940	GW-122013-MD - TS EFP		6	X X X						002
		950	(GW-122013-MD) - Mid Carbon		6	X X X						003
		1000	GW-122013-MD - total EFP		10	X X X X X						Composite A,B,C for 004
		1100	GW-122013-MD - BP A1 INF		6	X X X						FOG analysis 005
		1110	GW-122013-MD - BP A2 INF		8	X XX						006
		1120	GW-122013-MD - BP Total INF		6	X X X						007
		1130	GW-122013-MD - BP Total EFP	✓	10	X X X X X						Composite A,B,C for 008
		1205	A-122013-MD - SVE INF	†	1	X X						FOG analysis 010-009
		1207	A-122013-MD - AS EFP		1	X X						011-010
		1209	A-122013-MD - Total INF		1	X X						012-011
		1211	A-122013-MD - Mid 1		1	X X X						Need 5 days 012-013
		1213	A-122013-MD - Mid 2		1	X X X						013-014
		1215	A-122013-MD - Total EFP	✓	1	X X X						014-015
		1135	A-122013-MD - BP Total EFP	✓	1	X X X						015-016
			trip Blank			X X X						009
TOTAL NUMBER OF CONTAINERS					63	HEALTH/CHEMICAL HAZARDS						
RELINQUISHED BY: <u>Matt Davis</u>			DATE: 12/20/13	RECEIVED BY: <u>Sujithi Swamy</u>	DATE: 12/20/13							
(1)			TIME: 13:19	PACE	TIME: 13:19							
RELINQUISHED BY: <u>Jyothi Swamy / PACE</u>			DATE: 12/20/13	RECEIVED BY: <u>IH / PACE</u>	DATE: 12/20/13							
(2)			TIME: 14:38		TIME: 10:35							
RELINQUISHED BY: <u></u>			DATE:	RECEIVED BY:	DATE:							
(3)			TIME:		TIME:							
METHOD OF SHIPMENT: Personnally delivered					WAY BILL No.							
White		Fully Executed Copy		SAMPLE TEAM:		RECEIVED FOR LABORATORY BY:			No CRA 21094			
Yellow		Receiving Laboratory Copy		<u>MATT DAVIS</u>								
Pink		Shipper Copy										
Goldenrod		Sampler Copy										

4.8°C. 2.6°C

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 07Nov2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.08	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <u>Conestoga Lawyers & Assoc.</u>	Project #: WO# : 10253342																																																																																															
Courier: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____	Tracking Number: <u>517715330 9101, 9112</u>	 10253342																																																																																															
Custody Seal on Cooler/Box Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																															
Packing Material: <input type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____		Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																															
Thermom. Used: <input type="checkbox"/> 80512447 <input type="checkbox"/> 72337080		Type of Ice: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Samples on ice, cooling process has begun																																																																																															
Cooler Temp Read (°C): <u>0.4, 1.3</u> Temp should be above freezing to 6°C		Cooler Temp Corrected (°C): <u>0.5, 1.4</u> Correction Factor: <u>-2.1</u> Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A																																																																																															
Comments:																																																																																																	
<table border="1"> <tr> <td>Chain of Custody Present?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>1.</td> </tr> <tr> <td>Chain of Custody Filled Out?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>2.</td> </tr> <tr> <td>Chain of Custody Relinquished?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>3.</td> </tr> <tr> <td>Sampler Name and/or Signature on COC?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>4.</td> </tr> <tr> <td>Samples Arrived within Hold Time?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>5.</td> </tr> <tr> <td>Short Hold Time Analysis (<72 hr)?</td> <td><input type="checkbox"/> Yes</td> <td><input checked="" type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>6.</td> </tr> <tr> <td>Rush Turn Around Time Requested?</td> <td><input type="checkbox"/> Yes</td> <td><input checked="" type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>7.</td> </tr> <tr> <td>Sufficient Volume?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>8.</td> </tr> <tr> <td>Correct Containers Used?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>9.</td> </tr> <tr> <td>-Pace Containers Used?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td></td> </tr> <tr> <td>Containers Intact?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>10.</td> </tr> <tr> <td>Filtered Volume Received for Dissolved Tests?</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input checked="" type="checkbox"/> N/A</td> <td>11.</td> </tr> <tr> <td>Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <u>WT</u></td> <td><input type="checkbox"/> Yes</td> <td><input checked="" type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>12. COC says 10:00 for #4 but bottle A says 09:30 & bottle B says 09:45. COC says 11:30 for #8 but bottle A says 11:00 & B says 11:15.</td> </tr> <tr> <td>All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input checked="" type="checkbox"/> N/A</td> <td>13. <input type="checkbox"/> HNO₃ <input type="checkbox"/> H₂SO₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HO</td> </tr> <tr> <td>All containers needing preservation are found to be in compliance with EPA recommendation? (HNO₃, H₂SO₄, HC<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input checked="" type="checkbox"/> N/A</td> <td>Sample #</td> </tr> <tr> <td>Headspace in VOA Vials (>6mm)?</td> <td><input type="checkbox"/> Yes</td> <td><input checked="" type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>Initial when completed: <u>W</u> Lot # of added preservative:</td> </tr> <tr> <td>Trip Blank Present?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>14.</td> </tr> <tr> <td>Trip Blank Custody Seals Present?</td> <td><input checked="" type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> N/A</td> <td>15. <u>6 T.B.</u></td> </tr> <tr> <td>Pace Trip Blank Lot # (if purchased): <u>072213-3</u></td> <td colspan="3"></td> <td></td> </tr> </table>			Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.	Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.	Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.	Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.	Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.	Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.	Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.	Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.	Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.	-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A		Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.	Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.	Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	12. COC says 10:00 for #4 but bottle A says 09:30 & bottle B says 09:45. COC says 11:30 for #8 but bottle A says 11:00 & B says 11:15.	All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HO	All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HC<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #	Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	Initial when completed: <u>W</u> Lot # of added preservative:	Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14.	Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15. <u>6 T.B.</u>	Pace Trip Blank Lot # (if purchased): <u>072213-3</u>				
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.																																																																																													
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.																																																																																													
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.																																																																																													
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.																																																																																													
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.																																																																																													
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	6.																																																																																													
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.																																																																																													
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.																																																																																													
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.																																																																																													
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A																																																																																														
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.																																																																																													
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11.																																																																																													
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	12. COC says 10:00 for #4 but bottle A says 09:30 & bottle B says 09:45. COC says 11:30 for #8 but bottle A says 11:00 & B says 11:15.																																																																																													
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HO																																																																																													
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HC<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #																																																																																													
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	Initial when completed: <u>W</u> Lot # of added preservative:																																																																																													
Trip Blank Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14.																																																																																													
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15. <u>6 T.B.</u>																																																																																													
Pace Trip Blank Lot # (if purchased): <u>072213-3</u>																																																																																																	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Project Manager Review: Jeanne Givens

Date: 12/23/13

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)

	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.07	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:

Project #:

Pace Lab CRA

WO# : 10253342



10253342

Courier: FedEx UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: S779 883d 9123

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Options: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____

Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: B88A912167504 80512447 72337080
Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: *Clif 12-23-13*

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Media: Air Bag / Air Can				11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12.

Samples Received:

7 Air Cans 17 Air Bags

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SVE INF	2571				
ASE FF	2504				
Total INF	2561				
MID 1	2563				
MID 2	2539				
Total CFF	2573				
BP Total/EFF	2552				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *Jen G*

Date: 12/23/13

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)



Document Name: MN to MT Sample Transfer Form	Revised Date: 15May2013 Page: 1 of 1
Document Number: F-MN-C-043-rev.08	Issuing Authority: Pace Minnesota Quality Office

Shipping (circle):	UPS	Fed Ex
Tracking #:	575341971328	
Client:	CRA COP	
Due Date:	7-Jan-2014	
Pace WO:	10253342	
Project Manager:	Jenni Gross	

MN to MT Sample Transfer Condition Upon Receipt Form

ANALYSIS REQUESTED

REPORTING REQUIREMENTS/ADDITIONAL COMMENTS

Conoco Phillips Project 304 308

MONTANA SAMPLE RECEIPT INFORMATION

IR Gun: 1383045, Correction Factor:	0	Sample Matrix:	H ₂ O		
Cooler Temp Read (°C):	2.2	Cooler Temp Corrected (°C):	2.2	Filtred volume rec'd for dissolved tests:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Arrived on Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Samples pH have been checked:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		
Custody Seal Present:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Trip Blank Present:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		
Short Hold Time Requested < 72 Hours:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Trip Blank Custody Seals Present:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		
Rush TAT Requested:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Pace Trip Blank Lot #:			
Sufficient Sample Volume:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Composites Required:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		
Samples Arrived within Hold Time:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Report Samples:	Wet Wt. <input type="checkbox"/> Dry Wt. <input type="checkbox"/>		
Containers Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Reporting Units:			

CUSTODY TRANSFER

Relinquished by/Affiliation	Date	Time	Accepted By Affiliation	Date	Time
Carry Sparks Pace MN	12-23-13	1720	Bob Metz	12/24/13	12:15

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ **Date:** _____
Comments/Resolution: _____

Project Manager Review:

Casey Sparks

Date: 12-26-13

January 30, 2014

Edwin Turner
CRA_Conoco Phillips
20818 44th Ave. W
Lynnwood, WA 98036

RE: Project: Jan 2014 O&M Compliance 070496
Pace Project No.: 10254346

Dear Edwin Turner:

Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2014. 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,



Jennifer Gross
jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Yu Chen, CRA_Conoco Phillips
Jeffrey Cloud, Conestoga-Rovers Association
Matt Davis, CRA_Conoco Phillips
Matthew Smith, Conestoga-Rover's Association
Kelsey Whittaker, CRA



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: Jan 2014 O&M Compliance 070496
 Pace Project No.: 10254346

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alabama Dept of Environmental Management #40770
 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
 EPA Region 5 #WD-15J
 Florida/NELAP Certification #: E87605
 Georgia Certification #: 959
 Hawaii Certification #Pace
 Idaho Certification #: MN00064
 Illinois Certification #: 200011
 Indiana Certification#C-MN-01
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Kentucky Dept of Envi. Protection - DW #90062
 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
 Nebraska Certification #: Pace
 Nevada Certification #: MN_00064
 New Jersey Certification #: MN-002
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Dakota Certification #: R-036
 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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: Jan 2014 O&M Compliance 070496
Pace Project No.: 10254346

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10254346001	GW-010814-NH-TOTAL INF	Water	01/08/14 09:15	01/08/14 15:00
10254346002	GW-010814-NH-AS EFF	Water	01/08/14 10:45	01/08/14 15:00
10254346003	GW-010814-NH-MID CARBON	Water	01/08/14 11:00	01/08/14 15:00
10254346004	GW-010814-NH-TOTAL EFF	Water	01/08/14 11:20	01/08/14 15:00
10254346005	a-010814-NH-SVE INF	Air	01/08/14 11:30	01/08/14 15:00
10254346006	a-010814-NH-AS EFF	Air	01/08/14 11:40	01/08/14 15:00
10254346007	a-010814-NH-TOTAL INF	Air	01/08/14 11:50	01/08/14 15:00
10254346008	a-010814-NH-MID CARBON 1	Air	01/08/14 12:00	01/08/14 15:00
10254346009	a-010814-NH-MID CARBON 2	Air	01/08/14 12:05	01/08/14 15:00
10254346010	a-010814-NH-TOTAL EFF	Air	01/08/14 12:10	01/08/14 15:00
10254346011	GW-010814-NH-BP R1 INF	Water	01/08/14 12:20	01/08/14 15:00
10254346012	GW-010814-NH-BP R2 INF	Water	01/08/14 12:30	01/08/14 15:00
10254346013	GW-010814-NH-BP TOTAL INF	Water	01/08/14 12:45	01/08/14 15:00
10254346014	GW-010814-NH-BP TOTAL EFF	Water	01/08/14 13:00	01/08/14 15:00
10254346015	A-010814-NH-BP AS EFF	Air	01/08/14 13:30	01/08/14 15:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: Jan 2014 O&M Compliance 070496
Pace Project No.: 10254346

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10254346001	GW-010814-NH-TOTAL INF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346002	GW-010814-NH-AS EFF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346003	GW-010814-NH-MID CARBON	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346004	GW-010814-NH-TOTAL EFF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346005	a-010814-NH-SVE INF	TO-14M Ambient Air	AH2	6	PASI-M
10254346006	a-010814-NH-AS EFF	TO-14M Ambient Air	AH2	6	PASI-M
10254346007	a-010814-NH-TOTAL INF	TO-14M Ambient Air	AH2	6	PASI-M
10254346008	a-010814-NH-MID CARBON 1	TO-14M Ambient Air	AH2	6	PASI-M
10254346009	a-010814-NH-MID CARBON 2	TO-14M Ambient Air	AH2	6	PASI-M
10254346010	a-010814-NH-TOTAL EFF	TO-14M Ambient Air	AH2	6	PASI-M
10254346011	GW-010814-NH-BP R1 INF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346012	GW-010814-NH-BP R2 INF	NWTPH-Dx	JRH	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346013	GW-010814-NH-BP TOTAL INF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346014	GW-010814-NH-BP TOTAL EFF	NWTPH-Dx	MT	4	PASI-M
		NWTPH-Gx/8021	LLC	2	PASI-M
		EPA 8260	SH2	7	PASI-M
10254346015	A-010814-NH-BP AS EFF	TO-14M Ambient Air	DR1	6	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Sample: GW-010814-NH-TOTAL INF	Lab ID: 10254346001	Collected: 01/08/14 09:15	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	1.2 mg/L		0.40	1	01/10/14 08:33	01/13/14 15:24	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 15:24	64742-65-0	
Surrogates								
o-Terphenyl (S)	66 %.		30-125	1	01/10/14 08:33	01/13/14 15:24	84-15-1	
n-Triacontane (S)	79 %.		30-125	1	01/10/14 08:33	01/13/14 15:24	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	4490 ug/L		500	5				01/13/14 01:34
Surrogates								
a,a,a-Trifluorotoluene (S)	95 %.		70-125	5				01/13/14 01:34 98-08-8
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	259 ug/L		2.0	2				01/15/14 14:26 71-43-2
Ethylbenzene	38.9 ug/L		2.0	2				01/15/14 14:26 100-41-4
Toluene	212 ug/L		2.0	2				01/15/14 14:26 108-88-3
Xylene (Total)	633 ug/L		6.0	2				01/15/14 14:26 1330-20-7
Surrogates								
1,2-Dichloroethane-d4 (S)	97 %.		75-125	2				01/15/14 14:26 17060-07-0
Toluene-d8 (S)	100 %.		75-125	2				01/15/14 14:26 2037-26-5
4-Bromofluorobenzene (S)	99 %.		75-125	2				01/15/14 14:26 460-00-4
Sample: GW-010814-NH-AS EFF	Lab ID: 10254346002	Collected: 01/08/14 10:45	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.59 mg/L		0.40	1	01/10/14 08:33	01/13/14 16:09	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 16:09	64742-65-0	
Surrogates								
o-Terphenyl (S)	77 %.		30-125	1	01/10/14 08:33	01/13/14 16:09	84-15-1	
n-Triacontane (S)	91 %.		30-125	1	01/10/14 08:33	01/13/14 16:09	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	375 ug/L		100	1				01/12/14 21:53
Surrogates								
a,a,a-Trifluorotoluene (S)	89 %.		70-125	1				01/12/14 21:53 98-08-8
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	47.3 ug/L		1.0	1				01/13/14 15:47 71-43-2
Ethylbenzene	2.4 ug/L		1.0	1				01/13/14 15:47 100-41-4
Toluene	35.2 ug/L		1.0	1				01/13/14 15:47 108-88-3
Xylene (Total)	56.5 ug/L		3.0	1				01/13/14 15:47 1330-20-7
Surrogates								
1,2-Dichloroethane-d4 (S)	98 %.		75-125	1				01/13/14 15:47 17060-07-0
Toluene-d8 (S)	99 %.		75-125	1				01/13/14 15:47 2037-26-5
4-Bromofluorobenzene (S)	100 %.		75-125	1				01/13/14 15:47 460-00-4

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Sample: GW-010814-NH-MID CARBON	Lab ID: 10254346003	Collected: 01/08/14 11:00	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 16:32	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 16:32	64742-65-0	
Surrogates								
o-Terphenyl (S)	76 %.		30-125	1	01/10/14 08:33	01/13/14 16:32	84-15-1	
n-Triacontane (S)	95 %.		30-125	1	01/10/14 08:33	01/13/14 16:32	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		01/12/14 22:14		
Surrogates								
a,a,a-Trifluorotoluene (S)	93 %.		70-125	1		01/12/14 22:14	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		01/13/14 16:02	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		01/13/14 16:02	100-41-4	
Toluene	ND ug/L		1.0	1		01/13/14 16:02	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		01/13/14 16:02	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %.		75-125	1		01/13/14 16:02	17060-07-0	
Toluene-d8 (S)	98 %.		75-125	1		01/13/14 16:02	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1		01/13/14 16:02	460-00-4	
Sample: GW-010814-NH-TOTAL EFF	Lab ID: 10254346004	Collected: 01/08/14 11:20	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 16:55	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 16:55	64742-65-0	
Surrogates								
o-Terphenyl (S)	83 %.		30-125	1	01/10/14 08:33	01/13/14 16:55	84-15-1	
n-Triacontane (S)	98 %.		30-125	1	01/10/14 08:33	01/13/14 16:55	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		01/12/14 22:34		
Surrogates								
a,a,a-Trifluorotoluene (S)	87 %.		70-125	1		01/12/14 22:34	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND ug/L		1.0	1		01/13/14 16:16	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		01/13/14 16:16	100-41-4	
Toluene	ND ug/L		1.0	1		01/13/14 16:16	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		01/13/14 16:16	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99 %.		75-125	1		01/13/14 16:16	17060-07-0	
Toluene-d8 (S)	98 %.		75-125	1		01/13/14 16:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Sample: GW-010814-NH-TOTAL EFF	Lab ID: 10254346004	Collected: 01/08/14 11:20	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	101 %.		75-125	1		01/13/14 16:16	460-00-4	
<hr/>								
Sample: a-010814-NH-SVE INF	Lab ID: 10254346005	Collected: 01/08/14 11:30	Received: 01/08/14 15:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	5.4 ppmv		0.27	537.6		01/11/14 05:20	71-43-2	
Ethylbenzene	ND ppmv		0.27	537.6		01/11/14 05:20	100-41-4	
THC as Gas	232 ppmv		18.8	537.6		01/11/14 05:20		
Toluene	7.4 ppmv		0.27	537.6		01/11/14 05:20	108-88-3	
m&p-Xylene	1.3 ppmv		0.54	537.6		01/11/14 05:20	179601-23-1	
o-Xylene	0.50 ppmv		0.27	537.6		01/11/14 05:20	95-47-6	
<hr/>								
Sample: a-010814-NH-AS EFF	Lab ID: 10254346006	Collected: 01/08/14 11:40	Received: 01/08/14 15:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.016 ppmv		0.00084	1.68		01/11/14 02:25	71-43-2	
Ethylbenzene	0.0022 ppmv		0.00084	1.68		01/11/14 02:25	100-41-4	
THC as Gas	0.38 ppmv		0.059	1.68		01/11/14 02:25		
Toluene	0.021 ppmv		0.00084	1.68		01/11/14 02:25	108-88-3	
m&p-Xylene	0.014 ppmv		0.0017	1.68		01/11/14 02:25	179601-23-1	
o-Xylene	0.0063 ppmv		0.00084	1.68		01/11/14 02:25	95-47-6	
<hr/>								
Sample: a-010814-NH-TOTAL INF	Lab ID: 10254346007	Collected: 01/08/14 11:50	Received: 01/08/14 15:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	0.061 ppmv		0.017	33.6		01/11/14 04:28	71-43-2	
Ethylbenzene	ND ppmv		0.017	33.6		01/11/14 04:28	100-41-4	
THC as Gas	4.6 ppmv		1.2	33.6		01/11/14 04:28		
Toluene	0.071 ppmv		0.017	33.6		01/11/14 04:28	108-88-3	
m&p-Xylene	ND ppmv		0.034	33.6		01/11/14 04:28	179601-23-1	
o-Xylene	ND ppmv		0.017	33.6		01/11/14 04:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Sample: a-010814-NH-MID CARBON 1	Lab ID: 10254346008	Collected: 01/08/14 12:00	Received: 01/08/14 15:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.00084	1.68		01/11/14 04:03	71-43-2	
Ethylbenzene	ND ppmv		0.00084	1.68		01/11/14 04:03	100-41-4	
THC as Gas	0.69 ppmv		0.059	1.68		01/11/14 04:03		
Toluene	ND ppmv		0.00084	1.68		01/11/14 04:03	108-88-3	
m&p-Xylene	ND ppmv		0.0017	1.68		01/11/14 04:03	179601-23-1	
o-Xylene	ND ppmv		0.00084	1.68		01/11/14 04:03	95-47-6	
<hr/>								
Sample: a-010814-NH-MID CARBON 2	Lab ID: 10254346009	Collected: 01/08/14 12:05	Received: 01/08/14 15:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.00084	1.68		01/11/14 02:59	71-43-2	
Ethylbenzene	ND ppmv		0.00084	1.68		01/11/14 02:59	100-41-4	
THC as Gas	0.43 ppmv		0.059	1.68		01/11/14 02:59		
Toluene	ND ppmv		0.00084	1.68		01/11/14 02:59	108-88-3	
m&p-Xylene	ND ppmv		0.0017	1.68		01/11/14 02:59	179601-23-1	
o-Xylene	ND ppmv		0.00084	1.68		01/11/14 02:59	95-47-6	
<hr/>								
Sample: a-010814-NH-TOTAL EFF	Lab ID: 10254346010	Collected: 01/08/14 12:10	Received: 01/08/14 15:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND ppmv		0.00084	1.68		01/11/14 03:28	71-43-2	
Ethylbenzene	ND ppmv		0.00084	1.68		01/11/14 03:28	100-41-4	
THC as Gas	0.48 ppmv		0.059	1.68		01/11/14 03:28		
Toluene	ND ppmv		0.00084	1.68		01/11/14 03:28	108-88-3	
m&p-Xylene	ND ppmv		0.0017	1.68		01/11/14 03:28	179601-23-1	
o-Xylene	ND ppmv		0.00084	1.68		01/11/14 03:28	95-47-6	
<hr/>								
Sample: GW-010814-NH-BP R1 INF	Lab ID: 10254346011	Collected: 01/08/14 12:20	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	1.1 mg/L		0.40	1	01/10/14 08:33	01/13/14 17:17	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 17:17	64742-65-0	
Surrogates								
o-Terphenyl (S)	74 %.		30-125	1	01/10/14 08:33	01/13/14 17:17	84-15-1	
n-Triacontane (S)	94 %.		30-125	1	01/10/14 08:33	01/13/14 17:17	638-68-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Sample: GW-010814-NH-BP R1 INF	Lab ID: 10254346011	Collected: 01/08/14 12:20	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	4060 ug/L		200	2		01/13/14 00:14		
Surrogates								
a,a,a-Trifluorotoluene (S)	113 %.		70-125	2		01/13/14 00:14	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	1800 ug/L		10.0	10		01/13/14 17:00	71-43-2	
Ethylbenzene	523 ug/L		10.0	10		01/13/14 17:00	100-41-4	
Toluene	17.7 ug/L		10.0	10		01/13/14 17:00	108-88-3	
Xylene (Total)	ND ug/L		30.0	10		01/13/14 17:00	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %.		75-125	10		01/13/14 17:00	17060-07-0	
Toluene-d8 (S)	98 %.		75-125	10		01/13/14 17:00	2037-26-5	
4-Bromofluorobenzene (S)	100 %.		75-125	10		01/13/14 17:00	460-00-4	

Sample: GW-010814-NH-BP R2 INF	Lab ID: 10254346012	Collected: 01/08/14 12:30	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 17:40	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 17:40	64742-65-0	
Surrogates								
o-Terphenyl (S)	0 %.		30-125	1	01/10/14 08:33	01/13/14 17:40	84-15-1	1M,S0
n-Triacontane (S)	98 %.		30-125	1	01/10/14 08:33	01/13/14 17:40	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	878 ug/L		200	2		01/13/14 00:34		
Surrogates								
a,a,a-Trifluorotoluene (S)	94 %.		70-125	2		01/13/14 00:34	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	129 ug/L		1.0	1		01/15/14 14:09	71-43-2	
Ethylbenzene	71.7 ug/L		1.0	1		01/15/14 14:09	100-41-4	
Toluene	ND ug/L		1.0	1		01/15/14 14:09	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		01/15/14 14:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98 %.		75-125	1		01/15/14 14:09	17060-07-0	
Toluene-d8 (S)	101 %.		75-125	1		01/15/14 14:09	2037-26-5	
4-Bromofluorobenzene (S)	99 %.		75-125	1		01/15/14 14:09	460-00-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Sample: GW-010814-NH-BP TOTAL INF	Lab ID: 10254346013	Collected: 01/08/14 12:45	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	0.80 mg/L		0.40	1	01/10/14 08:33	01/13/14 19:11	68334-30-5	
Motor Oil Range SG	0.46 mg/L		0.40	1	01/10/14 08:33	01/13/14 19:11	64742-65-0	
Surrogates								
o-Terphenyl (S)	77 %.		30-125	1	01/10/14 08:33	01/13/14 19:11	84-15-1	
n-Triacontane (S)	89 %.		30-125	1	01/10/14 08:33	01/13/14 19:11	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	2300 ug/L		200	2		01/13/14 01:14		
Surrogates								
a,a,a-Trifluorotoluene (S)	100 %.		70-125	2		01/13/14 01:14	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	904 ug/L		10.0	10		01/13/14 17:15	71-43-2	
Ethylbenzene	274 ug/L		10.0	10		01/13/14 17:15	100-41-4	
Toluene	ND ug/L		10.0	10		01/13/14 17:15	108-88-3	
Xylene (Total)	ND ug/L		30.0	10		01/13/14 17:15	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99 %.		75-125	10		01/13/14 17:15	17060-07-0	
Toluene-d8 (S)	98 %.		75-125	10		01/13/14 17:15	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	10		01/13/14 17:15	460-00-4	

Sample: GW-010814-NH-BP TOTAL EFF	Lab ID: 10254346014	Collected: 01/08/14 13:00	Received: 01/08/14 15:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS Silica Gel LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Fuel Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 19:34	68334-30-5	
Motor Oil Range SG	ND mg/L		0.40	1	01/10/14 08:33	01/13/14 19:34	64742-65-0	
Surrogates								
o-Terphenyl (S)	59 %.		30-125	1	01/10/14 08:33	01/13/14 19:34	84-15-1	
n-Triacontane (S)	67 %.		30-125	1	01/10/14 08:33	01/13/14 19:34	638-68-6	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx/8021							
TPH as Gas	ND ug/L		100	1		01/12/14 22:54		
Surrogates								
a,a,a-Trifluorotoluene (S)	91 %.		70-125	1		01/12/14 22:54	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	3.0 ug/L		1.0	1		01/13/14 16:31	71-43-2	
Ethylbenzene	1.2 ug/L		1.0	1		01/13/14 16:31	100-41-4	
Toluene	ND ug/L		1.0	1		01/13/14 16:31	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		01/13/14 16:31	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %.		75-125	1		01/13/14 16:31	17060-07-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Sample: GW-010814-NH-BP TOTAL EFF **Lab ID: 10254346014** Collected: 01/08/14 13:00 Received: 01/08/14 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	----	----------	----------	---------	------

8260 MSV UST Analytical Method: EPA 8260

Surrogates

Toluene-d8 (S)	98 %.	75-125	1	01/13/14 16:31	2037-26-5
4-Bromofluorobenzene (S)	100 %.	75-125	1	01/13/14 16:31	460-00-4

Sample: A-010814-NH-BP AS EFF **Lab ID: 10254346015** Collected: 01/08/14 13:30 Received: 01/08/14 15:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	----	----------	----------	---------	------

TO-14M MSV AIR - Ambient Analytical Method: TO-14M Ambient Air

Benzene	0.81 ppmv	0.034	67.2	01/13/14 03:52	71-43-2
Ethylbenzene	0.12 ppmv	0.034	67.2	01/13/14 03:52	100-41-4
THC as Gas	4.8 ppmv	2.4	67.2	01/13/14 03:52	
Toluene	ND ppmv	0.034	67.2	01/13/14 03:52	108-88-3
m&p-Xylene	ND ppmv	0.067	67.2	01/13/14 03:52	179601-23-1
o-Xylene	ND ppmv	0.034	67.2	01/13/14 03:52	95-47-6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

QC Batch: AIR/19153 Analysis Method: TO-14M Ambient Air

QC Batch Method: TO-14M Ambient Air Analysis Description: TO14 MSV AIR - AMBIENT

Associated Lab Samples: 10254346005, 10254346006, 10254346007, 10254346008, 10254346009, 10254346010

METHOD BLANK: 1606997 Matrix: Air

Associated Lab Samples: 10254346005, 10254346006, 10254346007, 10254346008, 10254346009, 10254346010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.00050	01/10/14 21:40	
Ethylbenzene	ppmv	ND	0.00050	01/10/14 21:40	
m&p-Xylene	ppmv	ND	0.0010	01/10/14 21:40	
o-Xylene	ppmv	ND	0.00050	01/10/14 21:40	
THC as Gas	ppmv	ND	0.035	01/10/14 21:40	
Toluene	ppmv	ND	0.00050	01/10/14 21:40	

LABORATORY CONTROL SAMPLE: 1606998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	.01	0.011	108	69-134	
Ethylbenzene	ppmv	.01	0.011	107	73-139	
m&p-Xylene	ppmv	.01	0.011	106	73-139	
o-Xylene	ppmv	.01	0.011	108	71-138	
THC as Gas	ppmv	.72	0.81	112	65-136	
Toluene	ppmv	.01	0.011	111	67-133	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

QC Batch:	AIR/19160	Analysis Method:	TO-14M Ambient Air
QC Batch Method:	TO-14M Ambient Air	Analysis Description:	TO14 MSV AIR - AMBIENT
Associated Lab Samples:	10254346015		

METHOD BLANK: 1607372 Matrix: Air

Associated Lab Samples: 10254346015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.00050	01/12/14 16:03	
Ethylbenzene	ppmv	ND	0.00050	01/12/14 16:03	
m&p-Xylene	ppmv	ND	0.0010	01/12/14 16:03	
o-Xylene	ppmv	ND	0.00050	01/12/14 16:03	
THC as Gas	ppmv	ND	0.035	01/12/14 16:03	
Toluene	ppmv	ND	0.00050	01/12/14 16:03	

LABORATORY CONTROL SAMPLE: 1607373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ppmv	1.1	0.011	1	69-134	
Ethylbenzene	ppmv	.99	0.011	1	73-139	
m&p-Xylene	ppmv	2	0.011	.5	73-139	
o-Xylene	ppmv	.93	0.011	1	71-138	
THC as Gas	ppmv	72	0.77	1	65-136	
Toluene	ppmv	1	0.012	1	67-133	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

QC Batch: GCV/11576 Analysis Method: NWTPH-Gx/8021

QC Batch Method: NWTPH-Gx/8021 Analysis Description: NWTPH-Gx/8021B Water

Associated Lab Samples: 10254346001, 10254346002, 10254346003, 10254346004, 10254346011, 10254346012, 10254346013, 10254346014

METHOD BLANK: 1606877 Matrix: Water

Associated Lab Samples: 10254346001, 10254346002, 10254346003, 10254346004, 10254346011, 10254346012, 10254346013, 10254346014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	01/12/14 21:33	
a,a,a-Trifluorotoluene (S)	%	96	70-125	01/12/14 21:33	

LABORATORY CONTROL SAMPLE & LCSD: 1606878 1606879

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	945	919	95	92	75-125	3	20	
a,a,a-Trifluorotoluene (S)	%				100	97	70-125			

MATRIX SPIKE SAMPLE: 1609460

Parameter	Units	10254346004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
TPH as Gas	ug/L		ND	1000	971	97	52-150
a,a,a-Trifluorotoluene (S)	%				108	108	70-125

SAMPLE DUPLICATE: 1609461

Parameter	Units	10254346012 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	878	720	20	30	
a,a,a-Trifluorotoluene (S)	%	94	100	6		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

QC Batch: MSV/26115 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 10254346002, 10254346003, 10254346004, 10254346011, 10254346013, 10254346014

METHOD BLANK: 1607584 Matrix: Water

Associated Lab Samples: 10254346002, 10254346003, 10254346004, 10254346011, 10254346013, 10254346014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	01/13/14 11:33	
Ethylbenzene	ug/L	ND	1.0	01/13/14 11:33	
Toluene	ug/L	ND	1.0	01/13/14 11:33	
Xylene (Total)	ug/L	ND	3.0	01/13/14 11:33	
1,2-Dichloroethane-d4 (S)	%.	95	75-125	01/13/14 11:33	
4-Bromofluorobenzene (S)	%.	102	75-125	01/13/14 11:33	
Toluene-d8 (S)	%.	99	75-125	01/13/14 11:33	

LABORATORY CONTROL SAMPLE: 1607585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.5	92	75-125	
Ethylbenzene	ug/L	20	18.0	90	75-125	
Toluene	ug/L	20	18.3	92	75-125	
Xylene (Total)	ug/L	60	54.9	91	75-125	
1,2-Dichloroethane-d4 (S)	%.			96	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607739 1607740

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		10254574003	Result	Spike Conc.	Spike Conc.								
Benzene	ug/L	ND	100	100	94.3	104	94	104	104	75-129	10	30	
Ethylbenzene	ug/L	ND	100	100	89.1	101	89	101	101	75-128	13	30	
Toluene	ug/L	ND	100	100	90.0	101	90	101	101	75-129	12	30	
Xylene (Total)	ug/L	ND	300	300	271	307	90	102	102	75-129	12	30	
1,2-Dichloroethane-d4 (S)	%.						96		96	95	75-125		
4-Bromofluorobenzene (S)	%.								99	100	75-125		
Toluene-d8 (S)	%.								100	100	75-125		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

QC Batch: MSV/26126 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 10254346001, 10254346012

METHOD BLANK: 1608244 Matrix: Water

Associated Lab Samples: 10254346001, 10254346012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	01/15/14 10:27	
Ethylbenzene	ug/L	ND	1.0	01/15/14 10:27	
Toluene	ug/L	ND	1.0	01/15/14 10:27	
Xylene (Total)	ug/L	ND	3.0	01/15/14 10:27	
1,2-Dichloroethane-d4 (S)	%.	97	75-125	01/15/14 10:27	
4-Bromofluorobenzene (S)	%.	100	75-125	01/15/14 10:27	
Toluene-d8 (S)	%.	99	75-125	01/15/14 10:27	

LABORATORY CONTROL SAMPLE: 1608245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.4	92	75-125	
Ethylbenzene	ug/L	20	20.0	100	75-125	
Toluene	ug/L	20	19.3	97	75-125	
Xylene (Total)	ug/L	60	58.9	98	75-125	
1,2-Dichloroethane-d4 (S)	%.			98	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1609357 1609358

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max	
		10254890003	Spiked	Spiked Conc.	MS Result				RPD	RPD
Benzene	ug/L	ND	100	100	91.5	86.8	91	87	75-129	5 30
Ethylbenzene	ug/L	ND	100	100	97.1	93.1	97	93	75-128	4 30
Toluene	ug/L	ND	100	100	95.1	91.2	95	91	75-129	4 30
Xylene (Total)	ug/L	ND	300	300	295	275	98	92	75-129	7 30
1,2-Dichloroethane-d4 (S)	%.						99	100	75-125	
4-Bromofluorobenzene (S)	%.						100	99	75-125	
Toluene-d8 (S)	%.						101	102	75-125	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

QC Batch: OEXT/24104

Analysis Method: NWTPH-Dx

QC Batch Method: EPA 3510

Analysis Description: NWTPH-Dx GCS LV SG

Associated Lab Samples: 10254346001, 10254346002, 10254346003, 10254346004, 10254346011, 10254346012, 10254346013,
10254346014

METHOD BLANK: 1606608

Matrix: Water

Associated Lab Samples: 10254346001, 10254346002, 10254346003, 10254346004, 10254346011, 10254346012, 10254346013,
10254346014

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
Diesel Fuel Range SG	mg/L	ND	0.40	01/13/14 14:15		
Motor Oil Range SG	mg/L	ND	0.40	01/13/14 14:15		
n-Triacontane (S)	%.	80	30-125	01/13/14 14:15		
o-Terphenyl (S)	%.	65	30-125	01/13/14 14:15		

LABORATORY CONTROL SAMPLE & LCSD: 1606609

1606610

Parameter	Units	Spike Conc.	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
			Result	Result	% Rec	% Rec				
Diesel Fuel Range SG	mg/L	2	1.9	1.7	95	83	50-150	14	20	
Motor Oil Range SG	mg/L	2	1.9	1.7	97	85	50-150	13	20	
n-Triacontane (S)	%.				92	87	30-125			
o-Terphenyl (S)	%.				74	76	30-125			

SAMPLE DUPLICATE: 1606611

Parameter	Units	10254346001		Dup Result	RPD	Max RPD	Qualifiers
		Result	RPD				
Diesel Fuel Range SG	mg/L	1.2	1.1		14	30	
Motor Oil Range SG	mg/L	ND	0.48			30	
n-Triacontane (S)	%.	79	56		35		
o-Terphenyl (S)	%.	66	48		33		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

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

SAMPLE QUALIFIERS

Sample: 10254346015

[1] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

1M Prep analyst missed o-Terphenyl spike. Ok to report per client.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Jan 2014 O&M Compliance 070496

Pace Project No.: 10254346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10254346005	a-010814-NH-SVE INF	TO-14M Ambient Air	AIR/19153		
10254346006	a-010814-NH-AS EFF	TO-14M Ambient Air	AIR/19153		
10254346007	a-010814-NH-TOTAL INF	TO-14M Ambient Air	AIR/19153		
10254346008	a-010814-NH-MID CARBON 1	TO-14M Ambient Air	AIR/19153		
10254346009	a-010814-NH-MID CARBON 2	TO-14M Ambient Air	AIR/19153		
10254346010	a-010814-NH-TOTAL EFF	TO-14M Ambient Air	AIR/19153		
10254346015	A-010814-NH-BP AS EFF	TO-14M Ambient Air	AIR/19160		
10254346001	GW-010814-NH-TOTAL INF	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346002	GW-010814-NH-AS EFF	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346003	GW-010814-NH-MID CARBON	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346004	GW-010814-NH-TOTAL EFF	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346011	GW-010814-NH-BP R1 INF	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346012	GW-010814-NH-BP R2 INF	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346013	GW-010814-NH-BP TOTAL INF	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346014	GW-010814-NH-BP TOTAL EFF	EPA 3510	OEXT/24104	NWTPH-Dx	GCSV/12687
10254346001	GW-010814-NH-TOTAL INF	NWTPH-Gx/8021	GCV/11576		
10254346002	GW-010814-NH-AS EFF	NWTPH-Gx/8021	GCV/11576		
10254346003	GW-010814-NH-MID CARBON	NWTPH-Gx/8021	GCV/11576		
10254346004	GW-010814-NH-TOTAL EFF	NWTPH-Gx/8021	GCV/11576		
10254346011	GW-010814-NH-BP R1 INF	NWTPH-Gx/8021	GCV/11576		
10254346012	GW-010814-NH-BP R2 INF	NWTPH-Gx/8021	GCV/11576		
10254346013	GW-010814-NH-BP TOTAL INF	NWTPH-Gx/8021	GCV/11576		
10254346014	GW-010814-NH-BP TOTAL EFF	NWTPH-Gx/8021	GCV/11576		
10254346001	GW-010814-NH-TOTAL INF	EPA 8260	MSV/26126		
10254346002	GW-010814-NH-AS EFF	EPA 8260	MSV/26115		
10254346003	GW-010814-NH-MID CARBON	EPA 8260	MSV/26115		
10254346004	GW-010814-NH-TOTAL EFF	EPA 8260	MSV/26115		
10254346011	GW-010814-NH-BP R1 INF	EPA 8260	MSV/26115		
10254346012	GW-010814-NH-BP R2 INF	EPA 8260	MSV/26126		
10254346013	GW-010814-NH-BP TOTAL INF	EPA 8260	MSV/26115		
10254346014	GW-010814-NH-BP TOTAL EFF	EPA 8260	MSV/26115		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



**CONESTOGA-ROVERS
& ASSOCIATES**

CHAIN OF CUSTODY RECORD

Address: 732 BROADWAY, TACOMA, WA 98402

Phone: 253.573.1218 Fax: 253.573.1662

COC NO.: 33713

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 070496 - 2RM00			Laboratory Name: PACE						Lab Location: SEATTLE, WA.			SSOW ID:				
Project Name: P66 - RENTON TERMINAL			Lab Contact: J. GROSS						Lab Quote No:			Cooler No:				
Project Location: RENTON, WA.												Carrier:				
Chemistry Contact: M. DAVIS / J. LEONARD												Airbill No:				
Sampler(s): K. LI, INSPERGER												Date Shipped:				
												Comments/ SPECIAL INSTRUCTIONS:				
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line.)		DATE (mmddyy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpressured	Hydrochloric Acid (HCl)	Nitric Acid (HNO ₃)	Sulfuric Acid (H ₂ SO ₄)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	Enclosed 345-mL x25-g	Other:	Total Containers/Sample	MSND Request:
1	GW-010814-NH-TOTAL INF		01/08/14	9:15	WG G	X									8	MSND
2	GW-010814-NH-AS EFF		01/08/14	10:45	WG G	X									8	MSND
3	GW-010814-NH-MID CARBON		01/08/14	11:00	WG G	X									8	MSND
4	GW-010814-NH-TOTAL EFF		01/08/14	11:20	WG G	X									8	MSND
5	a-010814-NH-SVE INF		01/08/14	11:30	WG G	X									1	MSND
6	c-010814-NH-AS EFF		01/08/14	11:40	A G											005
7	c-010814-NH-TOTAL INF		01/08/14	11:50	A G											006
8	c-010814-NH-MID CARBON		01/08/14	12:00	A G											007
9	a-010814-NH-MID CARBON		01/08/14	12:05	A G											008
10	c-010814-NH-TOTAL EFF		01/08/14	12:10	A G											009
11	GW-010814-NH-BP R1 INF		01/08/14	12:20	WG G	X										010
12	GW-010814-NH-BP R2 INF		01/08/14	12:30	WG G	X										011
13	GW-010814-NH-BP TOTAL INF		01/08/14	12:45	WG G	X										012
14	GW-010814-NH-BP TOTAL EFF		01/08/14	13:00	WG G	X										013
15	a-010814-NH-BP AS EFF		01/08/14	13:30	A G											014
TAT Required in business days (use separate COCs for different TATs):					Total Number of Containers: 71						Notes/ Special Requirements:					
<input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input checked="" type="checkbox"/> Other: STANDARD					All Samples in Cooler must be on COC						T=1.6, L=0					
RELINQUISHED BY:		COMPANY		DATE	TIME	RECEIVED BY						COMPANY	DATE	TIME		
1. KD		CRA		01/08/14	14:30	1. J. GROSS						BEE	1/9/14	15:00		
2.						2. AAParz						Paul	1/9/14	10:55		
3.						3.										

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution:

WHITE - Fully Executed Copy (CRA)

YELLOW - Receiving Laboratory Copy

PINK - Shipper

GOLDENROD - Sampling Crew

Temp: 47.9, 3.9

CRA Form: COC-108 (20120801)22

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 07Nov2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.08	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <i>ERA</i>	Project #:	WO# : 10254346
Courier:	<input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____	 10254346	
Tracking Number:	7975 8937 39120,8045 4560 1832		
Custody Seal on Cooler/Box Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Packing Material:		<input checked="" type="checkbox"/> Bubble Wrap <input type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: ZPLC	Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Thermom. Used:	80512447 72337080		
Cooler Temp Read (°C):	1.4, 1.8		
Temp should be above freezing to 6°C	Cooler Temp Corrected (°C): 1.6, 1.0		
Correction Factor:		Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
		Date and Initials of Person Examining Contents: 1/9/14 AM	
Comments:			
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix:	W1		
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #	
Exceptions: VOA Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: AA Lot # of added preservative:	
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION
Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: *JENNA GROSS*
Date: **1/9/14**

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)

	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Sep2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.08	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:

Project #:

Pace, WI

WO# : 10254346

Courier: FedEx UPS USPS Client
 Commercial Pace Other:

Tracking Number: 7975 8937 3942



10254346

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other:

Temp. (TO17 and TO13 samples only) (°C): - Corrected Temp (°C): - Thermom. Used: B88A912167504
 B88A9132521491

Temp should be above freezing to 6°C Correction Factor: -

Date & Initials of Person Examining Contents: Chay 1-

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	1. CW 1-9-13
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	10.
Media: <u>ArCm</u>				11.
Sample Labels Match COC?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	12.

Samples Received: 7 ArCm, 7 ArBay

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
1-010814-NH-4	1153				
1-11 Total EFF	1009				
1-13 PASEFF	1314				
1-15 AS EFF	2441				
1-16 AdCoche 1	2615				
1-17 Total INF	2072				
1-18 SVE INF	1332				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Jeanne Gross

Date: 1/9/14

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)