



ENVIRONMENTAL • GEOTECHNICAL
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**GROUNDWATER MONITORING REPORT
(1st Quarter 2019 Event)**

**Phillips 66 Facility No. 2701476 (AOC #2063)
12660 First Avenue South
Seattle, Washington 98168
Washington State Department of Ecology LUST Program ID #5748
Washington State Department of Ecology VCP No. NW2718**

**Submitted to:
Ms. Diane Escobedo
Washington State Department of Ecology
3190 160th Avenue Southeast
Bellevue, Washington 98008-5452**

**Submitted on behalf of:
Ed Ralston
Phillips 66 Company
Remediation Management
76 Broadway
Sacramento, California 95818**

**Submitted by:
ATC Group Services LLC
6347 Seaview Avenue Northwest
Seattle, Washington 98107**

**ATC Project No. Z076000070
May 22, 2019**


Aynalem Degefa, L.G.
Staff Geologist


Elisabeth Silver, L.G.
Senior Project Manager

GROUNDWATER MONITORING REPORT**(1st Quarter 2019 Event)**

Phillips 66 Facility No. 2701476 (AOC #2063)

12660 First Avenue South

Seattle, Washington 98168

SITE INFORMATION:

ATC Contact Person:	Elisabeth Silver, L.G.
Date of previous sampling event:	12/11/18-12/13/18
Current remediation technique(s):	None. Above ground Vapor and Groundwater Extraction/Air Sparge System Components Decommissioned in September 2016.
Ecology VCP Number:	NW2718

FIELD ACTIVITY 03/26-03/28/19:

Date(s) monitored and/or sampled:	03/26/19-03/28/19
Wells monitored:	Twenty: GW-7D, GW-9D, GW-11D, GW-12D, GW-8S, GW-8D, GW-10S, GW-10D, GW-13S to GW-18S and GW-13D to GW-18D
Wells sampled:	Nineteen: GW-7D, GW-9D, GW-11D, GW-12D, GW-8S, GW-8D, GW-10S, GW-10D, GW-13S to GW-17S and GW-13D to GW-18D
Purging method:	Wells were purged prior to sampling using low flow pumping via a submersible pump and dedicated tubing.
Sampling method:	Samples were collected using low flow pumping via a submersible pump and dedicated polyethylene tubing.

SITE HYDROGEOLOGY 03/26-03/28/19:

Minimum depth to groundwater (feet below top of casing [TOC]):	20.02 (GW-8S, upper water bearing zone);
Maximum depth to groundwater (feet below TOC):	77.75 (GW-10D, lower water bearing zone).
Average groundwater elevation (feet):	382.80 (Upper water bearing zone – GW-8S, GW-10S, GW-13S through GW-17S), 337.98 (Lower water bearing zone - GW-7D through GW-14D, GW-16D through GW-18D,
Change in average groundwater elevation since previous monitoring event (feet):	-8.93 (upper water bearing zone); -2.66 (lower water bearing zone) Note:
Approximate groundwater gradient/flow direction:	0.023 ft/ft north/northeast (upper water bearing zone); 0.044 ft/ft northeast, (lower water bearing zone)
Previous groundwater gradient/flow direction (12/11/18):	0.02 ft/ft north-northeast (lower water bearing zone); 0.67 ft/ft northwest (upper water bearing zone)

GROUNDWATER CONDITIONS (03/26-03/28/19):

Minimum dissolved phase gasoline-range hydrocarbon concentration excluding “non-detects” (micrograms per liter [µg/L]):	398 (GW-15S – upper water bearing zone)
Maximum dissolved phase gasoline-range hydrocarbon concentration (µg/L):	53,300 (GW-14S – upper water bearing zone)
Maximum dissolved phase gasoline-range hydrocarbon concentration (µg/L) observed previous sampling event (December, 2018):	113,000 (GW-14S – upper water bearing zone)
Minimum dissolved phase benzene concentration excluding “non-detects” (micrograms per liter [µg/L]):	0.29 J (GW-17S – upper water bearing zone)
Maximum dissolved phase benzene concentration (µg/L):	588 (GW-18D – lower water bearing zone)
Maximum dissolved phase benzene concentration (µg/L) observed previous sampling event (December, 2018):	41.3 (GW-13S – upper water bearing zone)
Minimum dissolved phase toluene concentration excluding “non-detects” (micrograms per liter [µg/L]):	0.094 J (GW-17S – upper water bearing zone)
Maximum dissolved phase toluene concentration (µg/L):	3,470 (GW-14S – upper water bearing zone)
Maximum dissolved phase toluene concentration (µg/L) observed previous sampling event (December, 2018):	6,440 (GW-14S – upper water bearing zone)

GROUNDWATER MONITORING REPORT

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Minimum dissolved phase ethylbenzene concentration excluding “non-detects” (micrograms per liter [µg/L]):	10.8 (GW-15S – Upper water bearing zone)
Maximum dissolved phase ethylbenzene concentration (µg/L):	1,870 (GW-14S – upper water bearing zone)
Maximum dissolved phase ethylbenzene concentration (µg/L) observed previous sampling event (September, 2018):	2,790 (GW-14S – upper water bearing zone)
Minimum dissolved phase total xylenes concentration excluding “non-detects” (µg/L):	3.5 (GW-14D – lower water bearing zone)
Maximum dissolved phase total xylenes concentration (µg/L):	9,300 (GW-14S – upper water bearing zone)
Maximum dissolved phase total xylenes concentration (µg/L) observed previous sampling event (September, 2018):	17,600 (GW-14S – upper water bearing zone)
Minimum total lead concentration excluding “non-detects” (µg/L):	all other wells “non detected”
Maximum total lead concentration (µg/L):	4.9J (GW-18D – lower water bearing zone)
Maximum total lead concentration (µg/L) observed previous sampling event (September, 2018):	all wells “non detected”
Minimum dissolved lead concentration excluding “non-detects” (µg/L):	all other wells “non detected”
Maximum dissolved lead concentration (µg/L):	2.2J (GW-14S – upper water bearing zone)
Maximum dissolved lead concentration (µg/L) observed previous sampling event (September, 2018):	all wells “non detected”

ADDITIONAL INFORMATION AND COMMENTS:

During the March, 2019 event gasoline-range hydrocarbons were detected at concentrations above the MTCA Method A cleanup levels in the groundwater samples collected from monitoring wells GW-13S, GW-14S, in the upper water bearing zone, and GW-18D in the lower water-bearing zone. Benzene was detected above the MTCA Method A cleanup levels in the groundwater samples collected from monitoring wells GW-13S, GW-14S, in the upper water bearing zone, and GW-14D and GW-18D in the lower water-bearing zone. Toluene, ethylbenzene and total xylenes were detected at concentrations above the MTCA Method A cleanup levels in the groundwater sample collected from monitoring GW-14S. Either one or more of the BTEX compounds, total lead and dissolved lead compounds were detected in concentrations below MTCA Method A cleanup levels in samples from GW-15S and GW-17S. All other sample analytical results were below laboratory method reporting limits.

Purge water generated during the March 2019 groundwater monitoring and sampling activities was temporarily stored in a labeled 55-gallon drum pending removal and disposal off-site at a Phillips-approved facility.

Conclusions/Recommendations

First quarter groundwater monitoring and sampling indicate that groundwater flow is to the northeast and north in the upper and lower water bearing zones, respectively, and that hydrocarbon-related impacts above Method A cleanup levels are limited to the area to the south and southeast of the south dispensers. Impacts were noted primarily in the upper unit, and in the lower water-bearing unit at two locations south of the of the gas dispensers. ATC will continue to monitor these observed trends in the existing and new monitoring wells to gather a better understanding of groundwater conditions at the Site.

ATTACHMENTS:

Figure 1 Groundwater Conditions Map – Upper Water Bearing Zone (03/26/19)

Figure 2 Groundwater Conditions Map – Lower Water Bearing Zone (03/26/19)

Figure 3 Analytical Results Map (03/26/19-03/28/19)

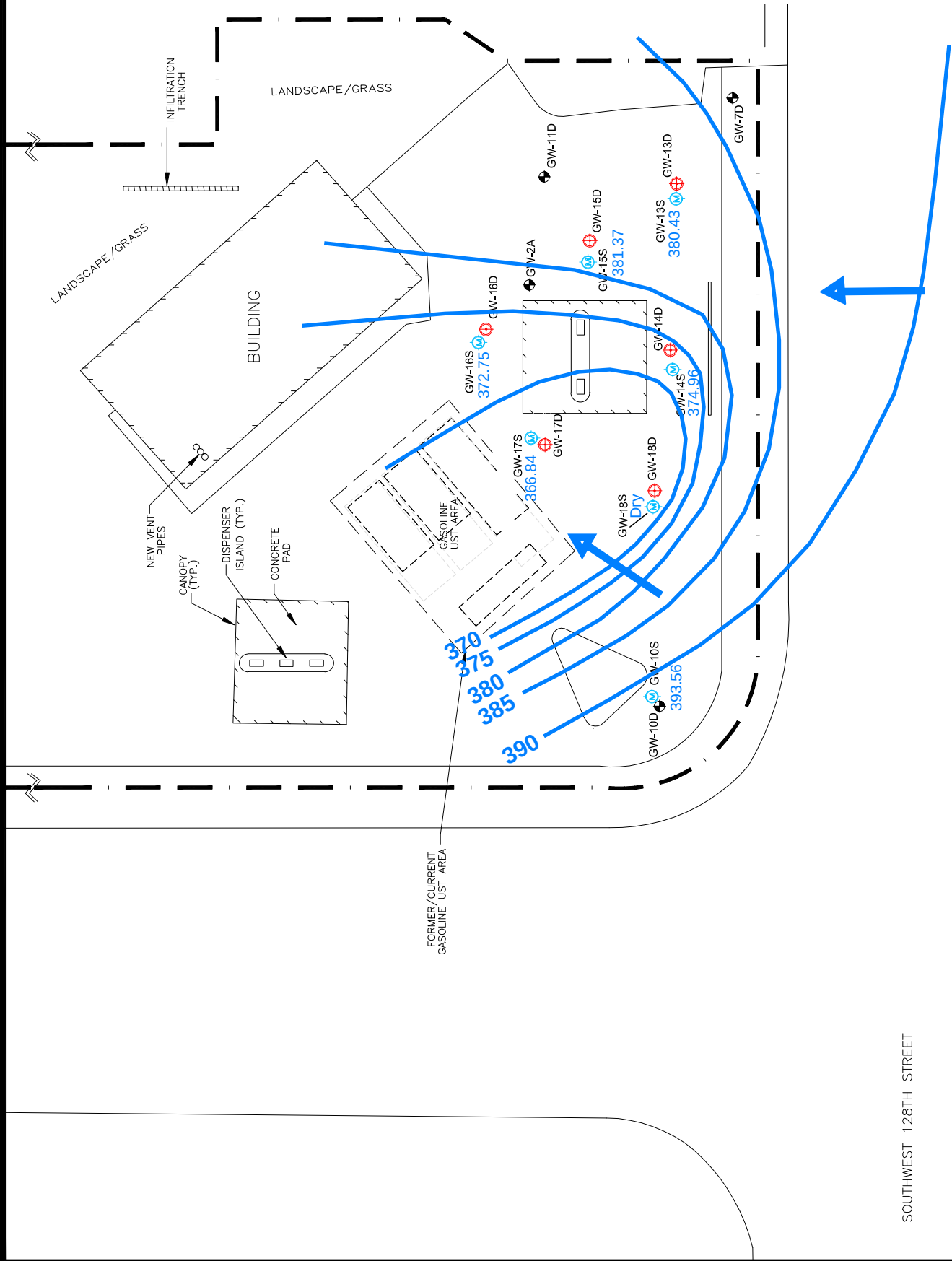
Table 1 Summary of Historical Groundwater Gauging and Laboratory Analytical Data

Appendix A Laboratory Analytical Data Reports and Chain of Custody Documents

Appendix B Field Reports / Groundwater Gauging and Sampling Logs

Appendix C Non-hazardous Waste Documentation

FIGURES



LEGEND

- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- APPROXIMATE SITE BOUNDARY
- APPROXIMATE SITE BOUNDARY
- GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION / CALCULATED GROUNDWATER GRADIENT (FEET PER FOOT)

GROUNDWATER CONDITIONS MAP - UPPER WATER BEARING ZONE

03/26/19

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)

12660 FIRST AVENUE SOUTH

SEATTLE, WA

PROJECT NUMBER: 2076000070

DATE: 04/22/19

FIGURE 1

APPROVED BY: ES

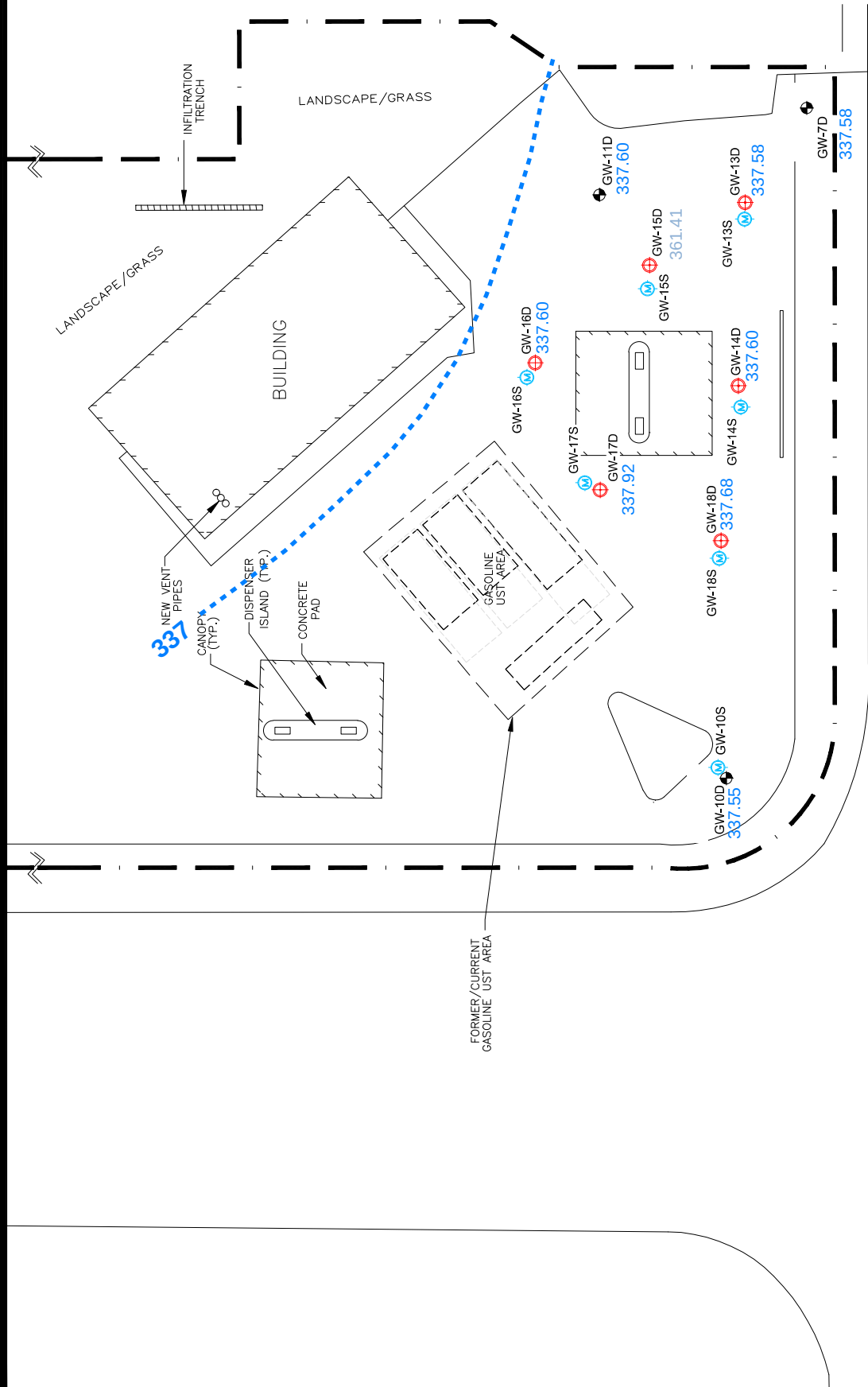
DRAWN BY: BK

ATC

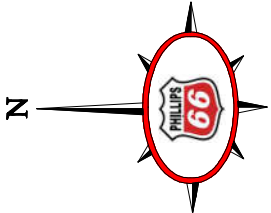
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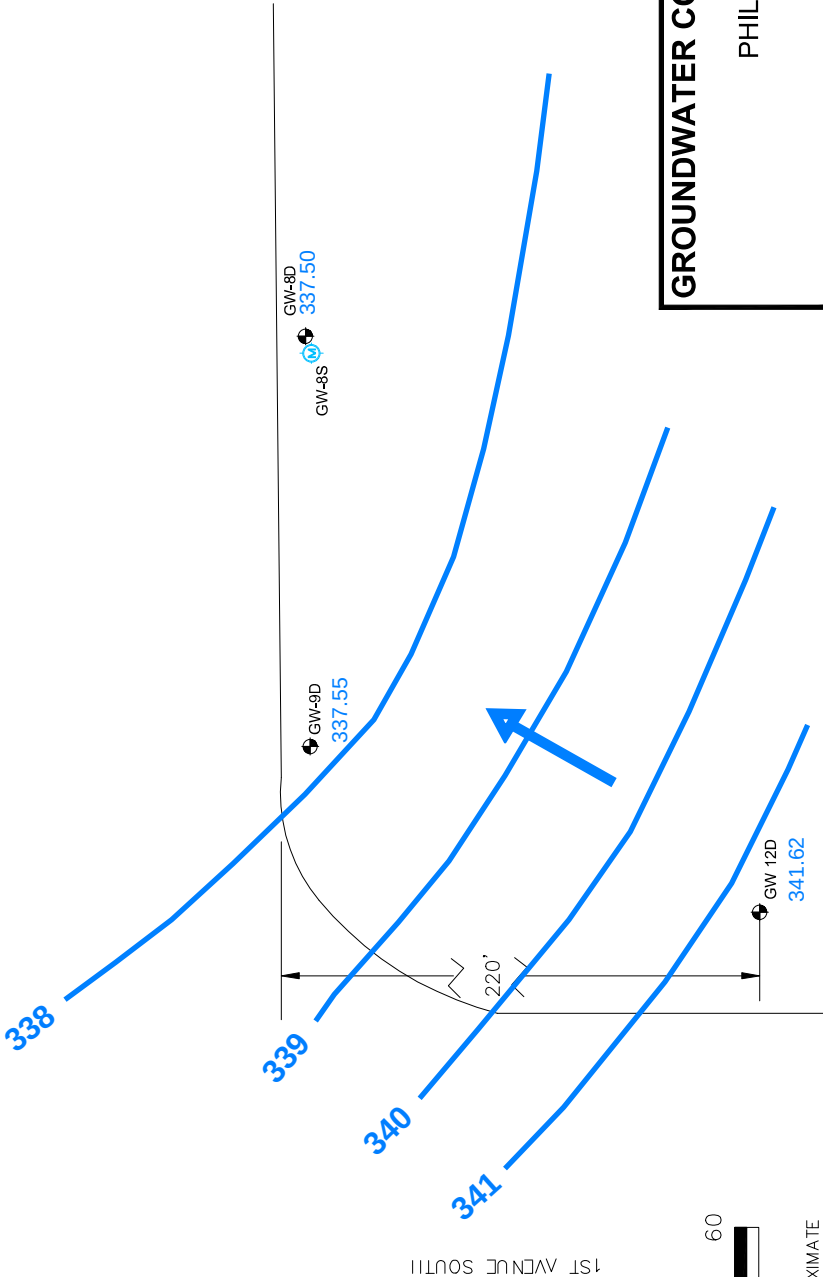


SOUTHWEST 128TH STREET



SCALE, FT

NOTE: ALL LOCATIONS ARE APPROXIMATE



LEGEND

- SHALLOW MONITOR WELL
- DEEP MONITOR WELL
- APPROXIMATE SITE BOUNDARY
- GROUNDWATER ELEVATION 337.68
- GROUNDWATER ELEVATION (NOT USED FOR CONTOURING) 361.41
- GROUNDWATER ELEVATION CONTOUR 338
- GROUNDWATER ELEVATION CONTOUR 337
- INFERRED GROUNDWATER CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION / CALCULATED GROUNDWATER GRADIENT (FEET PER FOOT) 0.044 ft/ft northeast

GROUNDWATER CONDITIONS MAP - LOWER WATER BEARING ZONE

03/26/2019

PROJECT NUMBER: 2076000070

DATE: 04/22/19

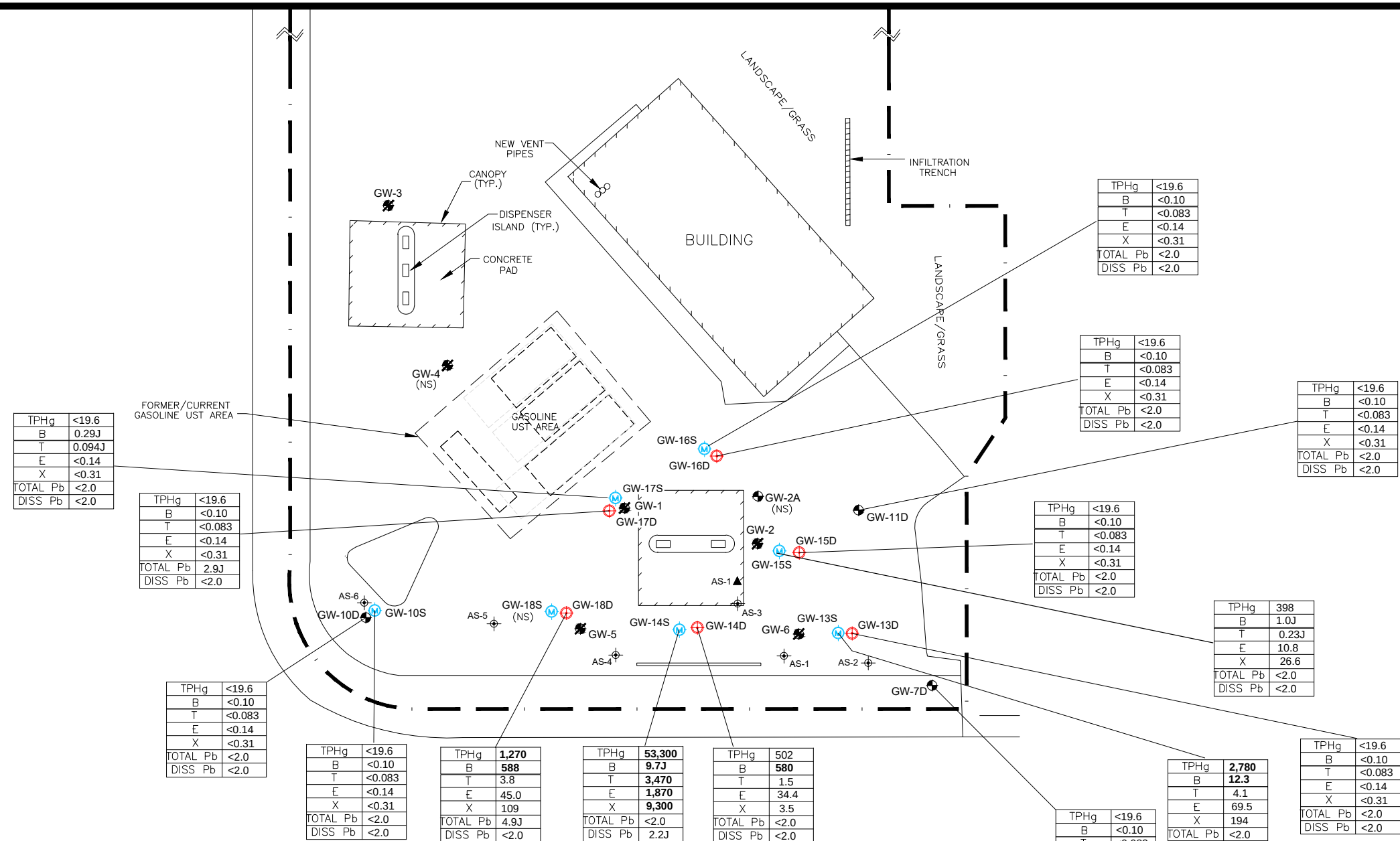
FIGURE 2

APPROVED BY: ES

DRAWN BY: BK

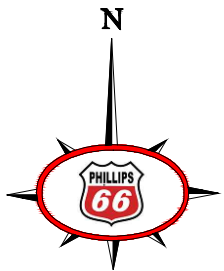
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12660 FIRST AVENUE SOUTH
SEATTLE, WA



LEGEND

- SHALLOW MONITOR WELL
 - DEEP MONITOR WELL
 - DECOMMISSIONED MONITOR WELL
 - AIR SPARGE WELL (1994)
 - AIR SPARGE POINT (1998)
 - MONITOR WELL (1992 and 1994/1995)
 - APPROXIMATE SITE BOUNDARY
- | | | |
|----------|--------|--|
| TPHg | <19.6 | TOTAL PETROLEUM HYDROCARBONS AS GASOLINE |
| B | <0.10 | BENZENE |
| T | <0.083 | TOLUENE |
| E | <0.14 | ETHYLBENZENE |
| X | <0.31 | TOTAL XYLENES |
| TOTAL Pb | <2.0 | TOTAL LEAD |
| DISS Pb | <2.0 | DISSOLVED LEAD |
- ALL ANALYTICAL RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L)
- BOLD** CONCENTRATION EQUAL TO OR EXCEEDS MTCA METHOD-A CLEANUP LEVEL
- (NS) NOT SAMPLED
- J ESTIMATED CONCENTRATION ABOVE THE ADJUSTED METHOD DETECTION LIMIT AND BELOW THE ADJUSTED REPORTING LIMIT



NOTE: ALL LOCATIONS ARE APPROXIMATE

GROUNDWATER ANALYTICAL MAP
(3/26/19-3/28/19)
PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WA

PROJECT NUMBER: Z076000070	DATE: 04/17/19	FIGURE
APPROVED BY: ES	DRAWN BY: BK	3
ATC 6347 Seaview Avenue NW Seattle, Washington 98107 Ph: (206) 781-1449 *** Fax: (206) 781-1543		

TABLE

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW1 100.00	05/07/91	38.97	0.00	61.03	--	--	--	--	--	--	--	--	--	--
	05/08/92	41.28	0.00	58.72	--	--	--	--	--	--	--	--	--	--
	05/20/92	39.46	0.00	60.54	--	--	--	--	--	--	--	--	--	--
	03/10/94	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/02/94	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/94	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/95	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/95	47.30	0.00	52.70	30,000	--	--	6,300	4,900	638	3,920	--	30	--
	08/09/95	47.65	0.00	52.35	17,000	--	--	3,200	1,700	230	1,400	--	10	--
	11/06/95	48.86	0.00	51.14	--	--	--	--	--	--	--	--	--	--
	02/13/96	49.60	0.00	50.40	--	--	--	--	--	--	--	--	--	--
	02/21/96	49.54	0.00	50.46	--	--	--	--	--	--	--	--	--	--
	05/21/96	39.91	0.00	60.09	62,000	--	--	14,000	16,000	780	5,100	--	7	--
	06/06/96	39.78	0.00	60.22	--	--	--	--	--	--	--	--	--	--
	06/11/96	39.85	0.00	60.15	--	--	--	--	--	--	--	--	--	--
	09/24/96	42.14	0.00	57.86	75,000	--	--	14,000	15,000	890	5,400	--	4	--
	12/12/96	46.97	0.00	53.03	--	--	--	--	--	--	--	--	--	--
	03/24/97	34.84	0.00	65.16	170,000	--	--	29,000	44,000	2,000	14,000	--	18	--
	04/11/97	30.69	0.00	69.31	--	--	--	--	--	--	--	--	--	--
	06/18/97	29.13	0.00	70.87	230,000	--	--	46,000	72,000	3,600	21,000	--	13	--
	08/25/97	35.41	0.00	64.59	170,000	--	--	3,000	46,000	2,900	16,000	--	13	--
	11/19/97 ^a	41.87	0.00	58.13	170,000	--	--	25,000	39,000	3,200	17,000	--	14	--
	02/12/98 ^{NP}	43.10	0.00	56.90	82,000	--	--	20,000	12,000	2,300	210	--	<2	--
	05/14/98 ^{NP}	32.37	0.00	67.63 ^b	180,000	--	--	41,000	59,000	2,000	19,000	--	<2	--
	08/25/98 ^{NP}	26.81	0.00	73.19 ^b	140,000	--	--	27,000	37,000	1,700	16,000	--	22	--
	11/13/98 ^{NP}	29.49	0.00	70.51 ^b	63,000	--	--	12,000	12,000	320	9,200	--	9	--
	02/10/99	45.96	Trace	54.04 ^b	LPH Present	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	17.18	0.00	82.82 ^b	69,000	--	--	490	4,400	490	12,000	--	10	--
	08/18/99 ^{NP}	43.70	0.00	56.30 ^b	32,000	--	--	2,100	190	250	3,600	--	--	--
	11/11/99 ^{NP}	34.01	0.00	65.99	6,110	--	--	849	333	31.8	1,320	--	7.67	--
	02/09/00 ^{NP}	48.11	0.00	51.89	83,000	--	--	1,200	860	740	13,000	--	301	--
	05/24/00 ^{NP}	26.35	Trace	73.65	1,200	--	--	55.9	81.2	2.09	248	--	--	--
	09/11/00 ^{NP}	25.75	0.00	74.25	883	--	--	36.1	54.0	<0.690	161	--	--	--
	11/27/00	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	44.58	0.00	55.42	154	--	--	12.6	5.08	< 0.500	17.1	--	--	--
	05/16/01	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	08/30/01 ^{NP}	43.17	0.00	56.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	2.62	--
	11/19/01	NM	--	--	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	40.32	0.00	59.68	<50.0	--	--	1.29	<0.500	<0.500	1.62	--	<1.00	--
	11/20/02	36.15	0.00	63.85	149	--	--	0.575	0.938	<0.500	12.5	--	2.67	<1.00
	05/21/03 ^{NP}	35.97	0.00	64.03	1,620	--	--	56.7	71.7	<5.00	511	--	8.58	4.98
	11/14/03 ^{NP}	33.91	0.00	66.09	528	--	--	15.0	9.9	1.1	47	--	11.2	<5.00
	5/13/04 ^{NP}	30.93	0.00	69.07	5,200	--	--	1,340	129	51.0	431	--	14.4	<5.00
	12/9/04 ^{NP}	35.99	0.00	64.01	3,800	--	--	1,030	201	<20	740	--	15.0	<10.0
	02/08/05	37.79	0.00	62.21	1,310	--	--	98.6	46.0	<5.0	275	--	<10.0	<10.0
	05/16/05	36.36	0.00	63.64	3,380	--	--	699.0	224.0	<10	676	12	<15	<15
	11/22/05	40.77	0.00	59.23	5,900	--	--	2,200.0	420.0	66.0	1,200	--	<8.4	--
	03/01/06	Dry	0.00	--	--	--	--	--	--	--	--	--	--	--
	05/30/06	47.26	0.00	52.74	860 ^d	--	--	96 ^d	8.6 ^d	12 ^d	120 ^d	--	144	<6.9
	08/28/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	11/14/06	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/21/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/22/07	39.18	0.00	60.82	160	--	--	92	4	2	5	<0.5	<6.9	<6.9
	08/20/07	45.01	0.00	54.99	110	--	--	12	2	1	5	<0.5	<6.9	<6.9
	11/19/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	05/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--
414.74	08/18/08	49.56	0.00	365.18	Well not sampled due to low water column.									
	11/17/08	49.60	0.00	365.14	Well not sampled due to low water column.									
	02/04/09	51.20	0.00	363.54	--	--	--	--	--	--	--	--	--	--
	05/04/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	08/03/09	44.90	0.00	369.84	--	--	--	--	--	--	--	--	--	--
	11/03/09	48.74	0.00	366.00	Well gauged only this quarter.									
	02/08/10	49.48	0.00	365.26	Well gauged only this quarter.									
	05/03/10	43.45	0.00	371.29	Well gauged only this quarter.									
	09/07/10	45.99	0.00	368.75	Well gauged only this quarter.									
	12/01/10	48.84	0.00	365.90	Well gauged only this quarter.									
	02/10/11	45.91	0.00	368.83	Well gauged only this quarter.									
	05/18/11	35.25	0.00	379.49	Well gauged only this quarter.									
	09/02/11	43.42	0.00	371.32	Well gauged only this quarter.									
	12/07/11	Dry	--	--	Well gauged only this quarter.									
	02/23/12	49.36	0.00	365.38	Well not sampled due to low water column.									
	05/22/12	39.57	0.00	375.17	<500	--	--	9.8	<1.0	<1.0	<3.0	--	0.81	<0.10
	08/01/12	43.70	0.00	371.04	<50	--	--	<1.0	<1.0	1.2	<3.0	--	0.21	1.0
	03/22/13	43.28	0.00	371.46	<100	--	--	4.6	<1.0	<1.0	<3.0	--	<3.0	<10.0
	09/20/13	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	04/29/15	42.89	0.00	371.85	<100	--	--	7.70	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	46.82	0.00	367.92	<100	--	--	1.2	<1.0	<1.0	<3.0	--	--	--
	10/15/15	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	09/27/16	Dry	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/17	46.03	0.00	368.71	<100	--	--	<1.0	<1.0	<1.0	<1.0	--	<10.0	<10.0
	09/04/18	48.59	0.00	366.15	Well not sampled due to low water column.									
Well Decommissioned in October 2018														
GW2 99.32	05/07/91	35.56	0.00	63.76	--	--	--	--	--	--	--	--	--	--
	05/08/92	36.53	0.00	62.79	--	--	--	--	--	--	--	--	--	--
	03/10/94	48.43	4.15	54.00	LPH Present	--	--	--	--	--	--	--	--	--
	05/02/94	--	0.20	--	LPH Present	--	--	--	--	--	--	--	--	--
	11/11/94	44.37	0.07	55.00	LPH Present	--	--	--	--	--	--	--	--	--
	02/17/95	44.92	0.03	54.42	LPH Present	--	--	--	--	--	--	--	--	--
	05/16/95	36.19	0.17	63.26	150,000	--	--	21,000	26,000	2,200	14,000	--	9	--
	08/09/95	39.16	0.31	60.39	LPH Present	--	--	--	--	--	--	--	--	--
	11/06/95	42.42	0.11	56.98	LPH Present	--	--	--	--	--	--	--	--	--

TABLE 1

Stinger lodged in well, unable to gauge or sample

Stinger lodged in well, unable to gauge or sample

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800^a	500	500	5	1,000	700	1,000	20	15	15
GW2A (Cont)	05/04/09	NM						Stinger lodged in well, unable to gauge or sample.						
	08/03/09	NM						Stinger lodged in well, unable to gauge or sample.						
	11/03/09	NM						Stinger lodged in well, unable to gauge or sample.						
	02/08/10	NM						Stinger lodged in well, unable to gauge or sample.						
	05/03/10	NM						Stinger lodged in well, unable to gauge or sample.						
	09/07/10	NM						Stinger lodged in well, unable to gauge or sample.						
	12/01/10	NM						Stinger lodged in well, unable to gauge or sample.						
	02/10/11	NM						Stinger lodged in well, unable to gauge or sample.						
	05/18/11	NM						Stinger lodged in well, unable to gauge or sample.						
	09/02/11	NM						Stinger lodged in well, unable to gauge or sample.						
	12/07/11	NM						Stinger lodged in well, unable to gauge or sample.						
	08/01/12	NM						Stinger lodged in well, unable to gauge or sample.						
	03/22/13	NM						Stinger lodged in well, unable to gauge or sample.						
	09/20/13	NM						Stinger lodged in well, unable to gauge or sample.						
	12/19/14	NM						Stinger lodged in well, unable to gauge or sample.						
GW3	04/29/15	NM						Stinger lodged in well, unable to gauge or sample.						
	07/23/15	NM						Stinger lodged in well, unable to gauge or sample.						
	10/15/15	NM						Stinger lodged in well, unable to gauge or sample.						
	09/27/16	NM						Stinger lodged in well, unable to gauge or sample.						
	09/19/17	NM						Stinger lodged in well, unable to gauge or sample.						
	09/04/18	NM						Stinger lodged in well, unable to gauge or sample.						
	12/11/18	NM						Stinger lodged in well, unable to gauge or sample.						
	05/02/94	71.02	0.00	31.93	--	--	--	--	--	--	--	--	--	--
	102.95	11/11/94	82.85	0.00	20.10	<50	--	<0.5	<1	<1	<1	--	<2	--
	102.78	02/17/95	82.81	0.00	19.97	<50	--	<0.5	<1	<1	<1	--	2	--
		05/16/95	82.02	0.00	20.76	<50	--	<0.5	<1	<1	<1	--	5	--
		08/09/95	81.33	0.00	21.45	<50	--	<0.5	<1	<1	<1	--	<2	--
		11/06/95	81.21	0.00	21.57	<50	--	<0.5	<1	<1	<1	--	<2	--
		02/13/96	84.06	0.00	18.72	<50	--	<0.5	<1	<1	<1	--	<2	--
		02/21/96	80.60	0.00	22.18	--	--	--	--	--	--	--	--	--
		05/21/96	79.24	0.00	23.54	--	--	--	--	--	--	--	--	--
		06/06/96	79.07	0.00	23.71	--	--	--	--	--	--	--	--	--
		06/11/96	78.97	0.00	23.81	<50	--	<0.5	<1	<1	<1	--	<2	--
		09/24/96	78.21	0.00	24.57	<50	--	0.7	2	<1	3	--	2	--
		12/12/96	78.64	0.00	24.14	216	--	21.6	54	2	11	--	<2	--
		03/24/97	77.93	0.00	24.85	<50	--	<0.5	<1	<1	<1	--	38	--
		04/11/97	77.40	0.00	25.38	--	--	--	--	--	--	--	--	--
		06/18/97	76.11	0.00	26.67	<50	--	<0.5	1	<1	<1	--	13	--
		08/25/97	75.68	0.00	27.10	<50	--	<0.5	<1	<1	<1	--	13	--
		11/19/97	76.58	0.00	26.20	<50	--	<0.5	<1	<1	<1	--	18	--
		02/12/98 ^{NP}	76.72	0.00	26.06	<50	--	<0.5	<1	<1	<1	--	<2	--
		05/14/98 ^{NP}	76.15	0.00	26.63	<50	--	<0.5	<1	<1	<1	--	<2	--
		08/25/98	76.35	0.00	26.43 ^b	--	--	--	--	--	--	--	--	--
		11/13/98	77.88	0.00	24.90 ^b	--	--	--	--	--	--	--	--	--
		02/10/99	78.98	0.00	23.80 ^b	--	--	--	--	--	--	--	--	--
		05/28/99 ^{NP}	79.68	0.00	23.10 ^b	<50	--	<0.5	<1	<1	<1	--	<2	--
		08/18/99 ^{NP}	76.45	0.00	26.33 ^b	--	--	--	--	--	--	--	--	--
		11/11/99 ^{NP}	79.18	0.00	23.60	--	--	--	--	--	--	--	--	--
		02/09/00 ^{NP}	78.42	0.00	24.36	--	--	--	--	--	--	--	--	--
		05/24/00 ^{NP}	77.46	0.00	25.32	352	--	<0.500	<0.500	<0.500	36.4	--	--	--
		09/11/00 ^{NP}	NM	--	--	--	--	--	--	--	--	--	--	--
		11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--
		02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--
		05/16/01	81.80	0.00	20.98	<50	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
		08/30/01	NM	--	--	--	--	--	--	--	--	--	--	--
		11/19/01	82.30	0.00	20.48	<50.0	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
		05/04/02	81.10	0.00	21.68	94.9	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
		11/20/02	80.72	0.00	22.06	<50.0	--	<0.500	<0.500	<0.500	<1.00	--	2.52	<1.00
		05/21/03 ^{NP}	81.15	0.00	21.63	<50.0	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
		11/14/03 ^{NP}	81.59	0.00	21.19	<50.0	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
		5/13/04 ^{NP}	81.35	0.00	21.43	<100	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
		12/9/04 ^{NP}	82.21	0.00	20.57	--	--	--	--	--	--	--	--	--
		02/08/05	82.54	0.00	20.24	<100	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	--
		05/16/05	82.75	0.00	20.03	<100	--	<1	<1	<1	<3	<1	<15	<15
		08/18/05	82.56	0.00	20.22	<48	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
		11/22/05	82.51	0.00	20.27	<48	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
		03/01/06	82.40	0.00	20.38	<48	--	<0.5	<0.7	<0.8	<0.8	<0.8	<8.4	--
		05/30/06	81.72	0.00	21.06	<48	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
		08/28/06	81.10	0.00	21.68	<48	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
		11/14/06	81.50	0.00	21.28	<48	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
		02/21/07	81.05	0.00	21.73	<48	--	<0.5	<0.7	<0.8	<0.8	<0.5	64.5	62.2
		05/22/07	81.10	0.00	21.68	<50	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
		08/20/07	79.42	0.00	23.36	<50	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
		11/19/07	Dry	--	--	--	--	--	--	--	--	--	--	--
		02/19/08	80.47	0.00	22.31	<50	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	7.4
		05/19/08	80.52	0.00	337.22	<50	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
		08/18/08	80.80	0.00	336.94	<50	--	<0.5	<0.7	<0.8	<0.8	<0.5	7.0	<6.9
		11/17/08	81.19	0.00	336.55	<50	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
		02/04/09	81.50	0.00	336.24	--	--	--	--	--	--	--	--	--
		05/04/09	81.72	0.00	336.02	87.2 4n	<83	<420	<1.0	<1.0	<1.0	<1.0	1.50	<1.0
		08/03/09	81.65	0.00	336.09	--	--	--	--	--	--	--	--	--
		11/03/09	81.95	0.00	335.79	--	--	Well gauged only this quarter.						
		02/08/10	82.22	0.00	335.52	--	--	Well gauged only this quarter.						
		05/03/10	81.60	0.00	336.14	--	--	Well gauged only this quarter.						
		09/07/10	80.72	0.00	337.02	--	--	Well gauged only this quarter.						
		12/01/10	81.18	0.00	336.56	--	--	Well gauged only this quarter.						
		02/10/11	78.17	0.00	339.57	--	--	Well gauged only this quarter.						
		05/18/11	79.56	0.00	338.18	--	--	Well gauged only this quarter.						
		09/02/11	78.65	0.00	339.09	--	--	Well gauged only this quarter.						
		12/07/11	79.10	0.00	338.64	--	--	Well gauged only this quarter.						
		02/23/12	79.91	0.00	337.83	--	--	Well gauged only this quarter.						
		05/22/12	79.81	0.00	337.93	--								

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals		
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15	
GW3 Cont. 417.74	07/23/15	80.19	--	337.55	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--	
	10/15/15	80.61	--	337.13	<250	--	--	<0.50	<0.50	<0.50	<1.0	--	--	--	
	09/27/16	79.00	--	338.74	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0	
	09/19/17	77.01	--	340.73	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0	
	09/05/18	78.31	--	339.43	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	
Well Decommissioned in October 2018															
GW4 101.84	05/02/94	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	11/11/94	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	02/17/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/16/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	08/09/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	11/06/95	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	02/13/96	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	02/21/96	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/21/96	78.27	0.00	23.57	--	--	--	--	--	--	--	--	--	--	
	06/06/96	78.10	0.00	23.74	--	--	--	--	--	--	--	--	--	--	
	06/11/96	78.02	0.00	23.82	--	--	--	--	--	--	--	--	--	--	
	09/24/96	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/96	77.71	0.00	24.13	--	--	--	--	--	--	--	--	--	--	
	03/24/97	76.88	0.00	24.96	<50	--	--	<50	<1	<1	<1	--	52	--	
	04/11/97	76.36	0.00	25.48	--	--	--	--	--	--	--	--	--	--	
	06/18/97	75.08	0.00	26.76	<50	--	--	<50	<1	<1	<1	--	4	--	
	08/25/97	74.70	0.00	27.14	300	--	--	9.8	15	3	46	--	4	--	
	11/19/97 ^{NP}	75.61	0.00	26.23	<50	--	--	0.8	<1	<1	<1	--	18	--	
	02/12/98 ^{NP}	75.90	0.00	25.94	<50	--	--	1	<1	<1	<1	--	27	--	
	05/14/98 ^{NP}	75.18	0.00	26.66	<50	--	--	<0.5	<1	<1	<1	--	<2	--	
	08/25/98 ^{NP}	75.45	0.00	26.39 ^b	<50	--	--	<0.5	<1	<1	<1	--	23	--	
	11/13/98 ^{NP}	77.24	0.00	24.60 ^b	<50	--	--	<0.5	<1	<1	<1	--	103	--	
	02/10/99	78.08	0.00	23.76 ^b	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	
	05/28/99 ^{NP}	73.80	0.00	28.04 ^b	<50	--	--	<0.5	<1	<1	<1	--	<2	--	
	08/18/99 ^{NP}	75.54	0.00	26.30 ^b	<50	--	--	0.5	<1	<1	2	--	--	--	
	11/11/99 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	02/09/00 ^{NP}	77.50	0.00	24.34	<50	--	--	<0.5	<1	<1	<1	--	24	--	
	05/24/00 ^{NP}	75.70	0.00	26.14	<50.0	--	--	<0.500	<0.500	<0.500	2.88	--	--	--	
	09/11/00 ^{NP}	71.56	0.00	30.28	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	
	11/27/00 ^{NP}	78.40	0.00	23.44	141	--	--	<0.500	1.10	<0.500	5.59	--	254	--	
	02/23/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/16/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	08/30/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	11/19/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/04/02	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	11/20/02	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/21/03 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	11/14/03 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	5/13/04 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	12/9/04 ^{NP}	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	02/08/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/16/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	08/18/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	11/22/05	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	03/01/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/30/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	08/28/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	11/14/06	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	02/21/07	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	05/22/07	DRY	--	--	--	--	--	--	--	--	--	--	--	--	
	8/20/2007 ^d	78.47	DRY	23.37	--	--	--	--	--	--	--	--	--	--	
	11/19/07	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	02/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	05/19/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	08/18/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	11/17/08	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	02/04/09	79.15	0.00	337.64	--	--	--	--	--	--	--	--	--	--	
	5/4/090	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	08/03/09	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	11/03/09	79.10	0.00	337.69	Well gauged only this quarter.										
	02/08/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	05/03/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	09/07/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	12/01/10	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	02/10/11	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	05/18/11	78.55	0.00	338.24	Well gauged only this quarter.										
	09/02/11	77.64	0.00	339.15	Well gauged only this quarter.										
	12/07/11	78.21	0.00	338.58	Well gauged only this quarter.										
	02/23/12	Dry	--	--	Well gauged only this quarter.										
	05/22/12	Dry	--	--	Well gauged only this quarter.										
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--	
	12/19/14	Dry	--	--	--	--	--	--	--	--	--	--	--	--	
	04/29/15	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	
	07/23/15	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	
	10/15/15	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	
	09/27/16	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	
	09/19/17	76.10	0.00	340.69	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0	
	09/11/18	77.37	--	339.42	Well gauged only this quarter.										
	Well Decommissioned in October 2018														
	GW5 98.98	05/02/94	78.84	0.00	20.14	100,000	--	--	8,200	15,000	2,100	12,000	--	3	--
11/11/94		79.14	0.00	19.84	160,000	--	--	20,000	33,000	2,300	15,000	--	6	--	
02/17/95		79.14	0.00	19.84	130,000	--	--	14,000	25,000	1,550	11,000	--	6	--	
05/16/95		78.31	0.00	20.67	180,000	--	--	19,000	34,000	2,300	16,000	--	8	--	
08/09/95		77.55	0.00	21.43	200,000	--	--	22,000	38,000	2,400	18,000	--	17	--	
	11/06/95	77.49	0.00	21.49	184,000	--	--	20,000	42,000	2,900	19,000	--	15	--	
	02/13/96	77.31	0.00	21.67	190,000	--	--	19,000	42,000	2,900	18,000	--	8	--	
	02/21/96	76.89	0.00	22.09	--	--	--	--	--	--	--	--	--	--	
	Well Decommissioned in October 2018														

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
	05/21/96	75.21	0.00	23.77	32,000	--	--	1,800	2,100	100	5,900	--	6	--
GW5	06/06/96	75.04	0.00	23.94	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.07	0.00	23.91	--	--	--	--	--	--	--	--	--	--
(Cont)	09/24/96	74.47	0.00	24.51	56,000	--	--	3,800	5,100	90	8,700	--	4	--
	12/12/96	74.99	0.00	23.99	88,000	--	--	2,200	4,700	43	16,000	--	42	--
	03/24/97	24.90	0.00	74.08	7,800	--	--	690	790	13	1,300	--	34	--
	04/11/97	73.31	0.00	25.67	--	--	--	--	--	--	--	--	--	--
	06/18/97	72.05	0.00	26.93	90,000	--	--	9,000	21,000	1,400	12,000	--	4	--
	08/25/97	71.85	0.00	27.13	45,000	--	--	4,600	7,000	180	6,500	--	4	--
	11/19/97	72.77	0.00	26.21	44,000	--	--	3,700	7,200	530	4,800	--	5	--
	02/12/98 ^{NP}	73.10	0.00	25.88	65,000	--	--	6,800	10,000	990	5,500	--	3	--
	05/14/98 ^{NP}	72.40	0.00	26.58 ^b	56,000	--	--	7,700	11,000	1,000	10,000	--	6	--
	08/25/98 ^{NP}	67.44	0.00	31.54 ^b	25,000	--	--	120	450	58	5,300	--	6	--
	11/13/98	Inaccessible - Lid Stuck	--	--	--	--	--	--	--	--	--	--	--	--
	02/10/99	Inaccessible - Lid Stuck	--	--	--	--	--	--	--	--	--	--	--	--
	05/28/99	Inaccessible - Lid Stuck	--	--	--	--	--	--	--	--	--	--	--	--
	08/18/99 ^{NP}	72.85	0.00	26.13 ^b	4,900	--	--	430	480	36	560	--	--	--
	11/11/99 ^{NP}	76.11	0.00	22.87	276	--	--	3.07	4.94	0.815	22.2	--	9.62	--
	02/09/00 ^{NP}	75.62	0.00	23.36	94	--	--	<0.5	2	<1	9	--	7	--
	05/24/00 ^{NP}	38.60	0.00	60.38	367	--	--	21.9	40.1	1.34	77.2	--	--	--
	09/11/00 ^{NP}	60.00	0.00	38.98	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	48.75	0.00	50.23	436	--	--	<0.500	4.35	1.57	50.1	--	5.31	--
	05/16/01	79.44	0.00	19.54	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	2.35	--
	08/30/01 ^{NP}	77.78	0.00	21.20	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.04	--
	11/19/01	79.37	0.00	19.61	472	--	--	<0.500	8.43	1.34	79.1	--	1.93	--
	05/04/02	76.90	0.00	22.08	<50.0	--	--	<0.500	0.630	<0.500	1.82	--	<1.00	--
	11/20/02	76.93	0.00	22.05	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.70	<1.00
	05/21/03 ^{NP}	78.00	0.00	20.98	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.02	<1.00
	11/14/03 ^{NP C}	79.12	0.00	19.87	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	78.51	0.00	20.47	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	80.04	0.00	18.94	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	78.70	0.00	20.28	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	79.64	0.00	19.34	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	80.55	0.00	18.43	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	78.24	0.00	20.74	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	03/01/06	77.97	0.00	21.01	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/30/06	77.33	0.00	21.65	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	76.68	0.00	22.30	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.35	0.00	20.63	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	76.70	0.00	22.28	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	43.6	43.3
	05/22/07	75.78	0.00	23.20	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	75.15	0.00	23.83	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	76.01	0.00	22.97	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/19/08	73.98	0.00	25.00	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
413.40	05/19/08	76.12	0.00	337.28	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/18/08	76.52	0.00	336.88	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/17/08	77.00	0.00	336.40	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	77.30	0.00	336.10	--	--	--	--	--	--	--	--	--	--
	05/04/09	77.40	0.00	336.00	<50.0 4n	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/03/09	77.38	0.00	336.02	--	--	--	--	--	--	--	--	--	--
	11/03/09	77.71	0.00	335.69	Well gauged only this quarter.									
	02/08/10	77.94	0.00	335.46	Well gauged only this quarter.									
	05/03/10	77.19	0.00	336.21	Well gauged only this quarter.									
	09/07/10	76.40	0.00	337.00	Well gauged only this quarter.									
	12/01/10	76.94	0.00	336.46	Well gauged only this quarter.									
	02/10/11	76.18	0.00	337.22	Well gauged only this quarter.									
	05/18/11	74.77	0.00	338.63	Well gauged only this quarter.									
	09/02/11	74.33	0.00	339.07	Well gauged only this quarter.									
	12/07/11	74.94	0.00	338.46	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	0.33	0.13
	02/23/12	75.78	0.00	337.62	Well gauged only this quarter.									
	05/22/12	75.44	0.00	337.96	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	76.60	--	336.80	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	4/29/2015**	74.44	--	338.96	249	--	--	14.2	<1.0	1.6	14.7	--	<10.0	<10.0
	07/23/15	75.06	--	338.34	182	--	--	3.9	<1.0	2.4	7.6	--	--	--
	10/15/15	76.34	--	337.06	<250	--	--	<0.50	<0.50	<0.50	<1.0	--	--	--
	09/27/16	74.75	--	338.65	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/20/17	63.21	--	350.19	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	74.04	--	339.36	<19.6	--	--	0.60 J	<0.083	<0.14	<0.31	--	<2.0	<2.0
Well Decommissioned in October 2018														
GW6	05/02/94	42.10	1.90	57.57	--	--	--	--	--	--	--	--	--	--
	98.24	11/11/94	41.67	0.65	57.06	LPH Present	--	--	--	--	--	--	--	--
	02/17/95	41.13	0.24	57.29	LPH Present	--	--	--	--	--	--	--	--	--
	05/16/95	32.62	0.24	65.80	130,000	--	--	14,000	21,000	2,000	11,000	--	2	--
	08/09/95	32.65	0.03	65.61	LPH Present	--	--	--	--	--	--	--	--	--
	11/06/95	40.26	0.06	58.03	LPH Present	--	--	--	--	--	--	--	--	--
	02/13/96	32.10	0.00	66.14	68,000	--	--	11,000	13,000	1,100	6,000	--	5	--
	02/21/96	32.18	0.05	66.10	--	--	--	--	--	--	--	--	--	--
	05/21/96	27.40	0.00	70.84	36,000	--	--	2,300	3,300	560	3,700	--	20	--
	06/06/96	28.16	0.00	70.08	--	--	--	--	--	--	--	--	--	--
	06/11/96	28.23	0.00	70.01	--	--	--	--	--	--	--	--	--	--
	09/24/96	35.38	0.00	62.86	36,000	--	--	3,800	5,100	790	4,300	--	22	--
	12/12/96	37.76	0.00	60.48	66,000	--	--	4,100	7,900	1,100	6,500	--	48	--
	03/24/97	24.55	0.00	73.69	82,000	--	--	2,700	12,000	1,700	10,000	--	41	--
	04/11/97	23.32	0.00	74.92	--	--	--	--	--	--	--	--	--	--
	06/18/97	25.51	0.00	72.73	43,000	--	--	4,100	7,300	800	4,500	--	10	--
	08/25/97	30.55	0.00	67.69	52,000	--	--	5,600	11,000	1,200	6,200	--	10	--
	11/19/97	34.17	0.00	64.07	81,000	--	--	8,700	15,000	1,500	7,700	--	13	--
	02/12/98 ^{NP}	26.67	0.00	71.57	1,400	--	--	33	51	59	110	--	6	--
	05/14/98 ^{NP}	26.00	0.00	72.24 ^b	1,800	--	--	42	170	98	310	--	5	--

TABLE 1

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
	08/25/98 ^{NP}	25.99	0.00	72.25 ^b	14,000	--	--	220	890	79	3,100	--	5	--
	11/13/98	Inaccessible - Lid Stuck		--	--	--	--	--	--	--	--	--	--	--
	02/10/99	Inaccessible - Lid Stuck		--	--	--	--	--	--	--	--	--	--	--
	05/28/99	Inaccessible - Lid Stuck		--	--	--	--	--	--	--	--	--	--	--
GW6 (Cont)	08/18/99 ^{NP}	32.94	0.00	65.30 ^b	26,000	--	--	1,100	2,600	240	3,100	--	--	--
	11/11/99 ^{NP}	43.39	0.00	54.85	218	--	--	1.11	5.55	0.642	30.1	--	4.47	--
	02/09/00 ^{NP}	36.20	0.00	62.04	<50	--	--	<0.5	<1	<1	2	--	<2	--
	05/24/00 ^{NP}	27.52	0.00	70.72	<50.0	--	--	2.31	1.05	<0.500	1.34	--	--	--
	09/11/00 ^{NP}	26.46	0.00	71.78	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	11/27/00	40.05	0.00	58.19	1,990	--	--	214	265	20.7	333	--	329	--
	02/23/01	34.58	0.00	63.66	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.18	--
	05/16/01	43.52	0.00	54.72	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	08/30/01 ^{NP}	40.20	0.00	58.04	<50.0	--	--	1.73	<0.500	<0.500	1.17	--	1.87	--
	11/19/01	46.75	0.00	51.49	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	28.46	0.00	69.78	<50.0	--	--	0.748	<0.500	<0.500	1.08	--	5.23	--
	11/20/02	46.10	0.00	52.14	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	05/21/03 ^{NP}	35.60	0.00	62.64	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/14/03 ^{NP C}	46.05	0.00	52.19	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	34.02	0.00	64.22	<100	--	--	1.95	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	42.73	0.00	55.51	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	39.02	0.00	59.40	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	33.23	0.00	65.01	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	82.10	0.00	16.14	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	38.57	0.00	59.67	<48	--	--	0.7	<0.2	<0.2	0.6	--	<8.4	--
	03/01/06	32.80	0.00	65.44	100	--	--	8	<0.7	<0.8	1	<0.5	<8.4	--
	05/30/06	32.49	0.00	65.75	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	--	--	--	<48	--	--	4	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	41.00	0.00	57.24	<48	--	--	4	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	31.14	0.00	67.10	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	57.8	47.6
	05/22/07	27.90	0.00	70.34	<50	--	--	1	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	35.30	0.00	62.94	<50	--	--	2	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	38.67	0.00	59.57	700	--	--	230	15	49	7	<0.5	<6.9	<6.9
	02/19/08	34.37	0.00	63.87	390	--	--	<0.5	83	12	18	10	12.1	<6.9
413.26	05/19/08	32.28	0.00	380.98	800	--	--	280	37	52	49	<0.5	23.4	<6.9
	08/18/08	36.15	0.00	377.11	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/18/08	38.74	0.00	374.52	790	--	--	290	17	35	64	<0.5	<6.9	<6.9
	02/04/09	37.20	0.00	376.06	388	<83	<420	300	740	34	20	<1	1.06	--
	05/04/09	32.52	0.00	380.74	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	20.8	<1.0
	08/03/09	34.00	0.00	379.26	2,050	--	--	697	30.7	126	158	<5.0	1.4	0.4
	11/03/09	38.52	0.00	374.74	1,660 In,22	--	--	260	8.6	100	118	<1.0	2.2	0.11
	02/08/10	33.24	0.00	380.02	19.21, 1n	--	--	16.7	<1.0	1.8	3.8	<1.0	18.8	<10.0
	05/03/10	28.13	0.00	385.13	<50.0	--	--	1.1	<1.0	<1.0	<3.0	<1.0	24.9	<10.0
	09/07/10	33.90	0.00	379.36	1,380	--	--	368	13.2	93.9	156	<1.0	7.1	<10.0
	12/01/10	35.78	0.00	377.48	522	--	--	127 M1	4.3	39.2	43.9	<1.0	5.3	0.25
	02/10/11	27.49	0.00	385.77	399	--	--	223	2.0	21.9	27.4	<1.0	1.6	0.14
	05/18/11	24.38	0.00	388.88	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	--	1.4	<10.0
	09/02/11	32.32	0.00	380.94	527	--	--	79.8	3.1	16.2	39.0	--	8.1	<10.0
	12/07/11	37.32	0.00	375.94	1,260	--	--	112	4.2	38.3	68.2	<1.0	1.6	0.14
	02/23/12	38.05	0.00	375.21	187	--	--	37.2	<1.0	8.6	8.4	--	4.8	--
	05/22/12	27.95	0.00	385.31	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	--	0.86	<10.0
	08/01/12	31.33	0.00	381.93	<50.0	--	--	4.8	<1.0	<1.0	<3.0	--	<10.0	<10.0
	03/22/13	29.28	0.00	383.98	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	31.2	<10.0
	09/20/13	32.94	0.00	380.32	1,050	--	--	92.8	6	39	97	--	<10.0	<10.0
	12/19/14	36.47	0.00	376.79	530	<100	<500	190	4.1	34	48	--	<5.0	<5.0
	4/29/2015**	27.39	0.00	385.87	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	33.54	0.00	379.72	3,760	--	--	252	19.0	164	303	--	--	--
	10/15/15	38.12	0.00	375.14	2,560	--	--	197	13.8	125	243	--	--	--
	10/07/16	37.00	0.00	376.26	1,140	--	--	115	7.0	49.5	77.0	--	<10.0	<10.0
	09/20/17	33.16	0.00	380.10	739	--	--	128	8.1	44.6	56.1	--	<10.0	<10.0
	09/04/18	35.34	0.00	377.92	<19.6	--	--	0.34 J	<0.083	0.25J	<0.31	--	<2.0	<2.0
Well Decommissioned in October 2018														
GW7D ¹	11/11/94	77.35	0.00	19.82	<50	--	--	1.3	2	<1	2	--	<2	--
	02/17/95	77.30	0.00	19.87	<50	--	--	0.7	<1	<1	<1	--	<2	--
	05/16/95	73.53	0.00	23.64	<50	--	--	1.5	<1	<1	<1	--	19	--
	08/09/95	75.50	0.00	21.67	<50	--	--	<4	<1	<1	<1	--	5	--
	11/06/95	75.73	0.00	21.44	<50	--	--	6.6	<1	<1	<1	--	12	--
	02/13/96	75.58	0.00	21.59	<50	--	--	1.1	<1	<1	<1	--	<2	--
	02/21/96	75.10	0.00	22.07	--	--	--	--	--	--	--	--	--	--
	05/21/96	73.61	0.00	23.56	--	--	--	--	--	--	--	--	--	--
	06/06/96	73.55	0.00	23.62	--	--	--	--	--	--	--	--	--	--
	06/11/96	73.46	0.00	23.71	<50	--	--	2.1	<1	<1	<1	--	7	--
	09/24/96	72.84	0.00	24.33	<50	--	--	2.6	<1	<1	<1	--	10	--
	12/12/96	73.18	0.00	23.99	<50	--	--	1.2	<1	<1	<1	--	9	--
	03/24/97	68.85	0.00	28.32	<50	--	--	0.8	<1	<1	<1	--	3	--
	04/11/97	71.89	0.00	25.28	--	--	--	--	--	--	--	--	--	--
	06/18/97	71.19	0.00	25.98	<50	--	--	1.0	<1	<1	<1	--	10	--
	08/25/97	70.32	0.00	26.85	<50	--	--	1.1	<1	<1	<1	--	10	--
	11/19/97	71.79	0.00	25.38	<50	--	--	<1	<1	<1	<1	--	14	--
	02/12/98 ^{NP}	71.27	0.00	25.90	<50	--	--	<1	<1	<1	<1	--	2	--
	05/14/98 ^{NP}	70.75	0.00	26.42 ^b	<50	--	--	<0.5	<1	<1	<1	--	6	--
	08/25/98	70.64	0.00	26.53 ^b	--	--	--	--	--	--	--	--	--	--
	11/13/98	71.30	0.00	25.87 ^b	--	--	--	--	--	--	--	--	--	--
	02/10/99	73.76	0.00	23.41 ^b	--	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	69.40	0.00	27.77 ^b	<50	--	--	2.7	<1	<1	<1	--	8	--
	08/18/99 ^{NP}	71.23	0.00	25.94 ^b	--	--	--	--	--	--	--	--	--	--
	11/11/99 ^{NP}	71.62	0.00	25.55	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	73.20	0.00	23.97	--	--	--	--	--	--	--	--	--	--
	05/24/00 ^{NP}	76.55	0.00	20.62	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	09/11/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01	77.92	0.00	19.25	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	7.14	--
	08/30/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/01	79.60	0.00	17.57	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
	05/04/02	75.67	0.00	21.50	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	3.21	--
GW7D (Cont)	11/20/02	76.20	0.00	20.97	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	11.5	<1.00
	05/21/03 ^{NP}	76.20	0.00	20.97	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	19.0	13.0
	11/14/03 ^{NP}	76.22	0.00	20.95	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	76.73	0.00	20.44	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	78.31	0.00	18.86	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	76.85	0.00	20.32	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	--
	05/16/05	77.07	0.00	20.10	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	77.68	0.00	19.49	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	77.17	0.00	20.00	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
	03/01/06	76.84	0.00	20.33	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/30/06	76.32	0.00	20.85	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	8.7	<6.9
	08/28/06	75.71	0.00	21.46	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	76.22	0.00	20.95	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	75.58	0.00	21.59	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	62.1	52
	05/22/07	74.70	0.00	22.47	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	74.05	0.00	23.12	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	74.91	0.00	22.26	65	--	--	<0.5	2	<0.8	1	<0.5	12.7	<6.9
412.23	02/19/08	75.02	0.00	22.15	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	24.6	<6.9
	05/19/08	75.12	0.00	337.11	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	20.0	<6.9
	08/18/08	75.37	0.00	336.86	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/18/08	75.85	0.00	336.38	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	7.9	<6.9
	02/04/09	76.11	0.00	336.12	--	--	--	--	--	--	--	--	--	--
	05/05/09	76.35	0.00	335.88	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	6.3	<1.0
	08/03/09	76.24	0.00	335.99	--	--	--	--	--	--	--	--	--	--
	11/03/09	76.58	0.00	335.65	Well gauged only this quarter.									
	02/08/10	76.79	0.00	335.44	Well gauged only this quarter.									
	05/03/10	76.13	0.00	336.1	Well gauged only this quarter.									
	09/07/10	75.29	0.00	336.94	Well gauged only this quarter.									
	12/01/10	75.81	0.00	336.42	Well gauged only this quarter.									
	02/10/11	74.84	0.00	337.39	Well gauged only this quarter.									
	05/18/11	74.08	0.00	338.15	Well gauged only this quarter.									
	09/02/11	73.31	0.00	338.92	Well gauged only this quarter.									
	12/07/11	73.80	0.00	338.43	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	23.3	0.23
	02/23/12	74.64	0.00	337.59	Well gauged only this quarter.									
	05/22/12	74.36	0.00	337.87	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	NM	--	--	Well submerged under large surface puddle of water - not accessible.									
	04/29/15	75.27	--	336.96	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	19.0	<10.0
GW7D ¹ Cont.	07/23/15	74.80	--	337.43	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--
	10/15/15	75.24	--	336.99	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--
	10/07/16	73.80	--	338.43	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	21.6	<10.0
	09/20/17	71.70	--	340.53	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	72.98	--	339.25	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.73	<2.0
	12/13/18	73.55	--	338.68	<19.6	--	--	4.4	1.7	0.31 J	<0.31	--	11.6	<2.0
	03/26/19	74.65	--	337.58	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW8S	12/11/18	35.35	0.00	378.42	Insufficient water to sample									
413.77	03/27/19	20.02	0.00	393.75	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW-8D ¹ 98.82	11/11/94	79.12	0.00	19.70	88,000	--	--	17,000	18,000	1,000	7,000	--	4	--
	02/17/95	79.04	0.00	19.78	11,000	--	--	20,000	22,000	1,650	9,200	--	5	--
	05/16/95	78.28	0.00	20.54	98,000	--	--	19,000	18,000	1,500	8,300	--	7	--
	08/09/95	77.57	0.00	21.25	95,000	--	--	21,000	19,000	1,400	7,400	--	6	--
	11/06/95	77.49	0.00	21.33	99,000	--	--	21,000	21,000	1,600	8,100	--	4	--
	02/13/96	77.27	0.00	21.55	110,000	--	--	25,000	28,000	2,000	10,000	--	5	--
	02/21/96	76.87	0.00	21.95	--	--	--	--	--	--	--	--	--	--
	05/21/96	75.33	0.00	23.49	100,000	--	--	23,000	24,000	1,700	9,400	--	2	--
	06/06/96	75.13	0.00	23.69	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.17	0.00	23.65	--	--	--	--	--	--	--	--	--	--
	09/24/96	74.60	0.00	24.22	92,000	--	--	18,000	18,000	1,500	7,700	--	4	--
	12/12/96	75.11	0.00	23.71	130,000	--	--	19,000	22,000	1,600	8,500	--	4	--
	03/24/97	74.04	0.00	24.78	73,000	--	--	14,000	18,000	1,400	7,400	--	3	--
	04/11/97	73.57	0.00	25.25	--	--	--	--	--	--	--	--	--	--
	06/18/97	73.38	0.00	25.44	90,000	--	--	20,000	23,000	1,500	8,200	--	7	--
	08/25/97	72.08	0.00	26.74	47,000	--	--	10,000	10,000	840	4,800	--	7	--
	11/19/97 ¹	72.91	0.00	25.91	39,000	--	--	8,000	7,600	760	12,000	--	11	--
	02/12/98 ^{NP}	73.04	0.00	25.78	6,600	--	--	920	420	120	350	--	<2	--
	05/14/98 ^{NP}	72.40	0.00	26.42	640	--	--	200	92	24	110	--	4	--
	08/25/98 ^{NP}	64.50	0.00	34.32 ^b	4,200	--	--	150	850	34	820	--	3	--
	11/13/98 ^{NP}	73.98	0.00	24.84 ^b	1,500	--	--	38	68	2	460	--	10	--
	02/10/99	75.38	0.00	23.44 ^b	284	--	--	66.4	10.5	6.45	23.1	--	--	--
	05/28/99 ^{NP}	64.90	0.00	33.92 ^b	17,000	--	--	230	1,200	100	3,400	--	4	--
	08/18/99 ^{NP}	72.90	0.00	25.92 ^b	<50	--	--	0.7	<1	<1	<1	--	--	--
	11/11/99 ^{NP}	76.78	0.00	22.04	<50.0	--	--	2.46	<0.500	0.509	1.44	--	1.06	--
	02/09/00 ^{NP}	74.83	0.00	23.99	<50	--	--	3.4	<1	<1	<1	--	<2	--
	05/24/00 ^{NP}	73.25	0.00	25.57	8,100	--	--	34.3	10.6	<5.00	1,850	--	--	--
	09/11/00 ^{NP}	67.00	0.00	31.82	69.2	--	--	0.503	<0.500	<0.500	6.87	--	--	--
	11/27/00	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	73.69	0.00	25.13	62.1	--	--	<0.500	<0.500	<0.500	<1.00	--	2.03	--
	05/16/01	DRY	--	--	--	--	--	--	--	--	--	--	--	--
	08/30/01 ^{NP}	78.15	0.00	20.67	<50.0	--	--	<0.500	<0.500	<0.500	3.05	--	1.50	--
	11/19/01	78.87	0.00	19.95	99.1	--	--	<0.500	2.47	<0.500	25.6	--	<1.00	--
	05/04/02	76.32	0.00	22.50	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	11/20/02	77.19	0.00	21.63	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	05/21/03 ^{NP}	77.11	0.00	21.71	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/14/03 ^{NP}	77.69	0.00	21.14	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	77.64	0.00	21.18	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/10/04 ^{NP}	77.70	0.00	21.12	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	78.21	0.00	20.61	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	79.11	0.00	19.71	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	79.44	0.00	19.38	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.6	<8.4	--
	11/11/05	78.57	0.00	20.25	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<8.4	--

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date	DTW (feet)	LPH (feet)	GW Elev. (feet)	Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
					TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW8D (Cont)	03/01/06	78.40	0.00	20.42	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/31/06	77.71	0.00	21.11	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	77.20	0.00	21.62	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.50	0.00	20.32	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	77.15	0.00	21.67	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	51.1	46.2
	05/22/07	76.32	0.00	22.50	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	75.73	0.00	23.09	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	76.60	0.00	22.22	150	--	--	3	5	1	8	<0.5	<6.9	<6.9
413.79	02/19/08	76.65	0.00	22.17	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	7.7	<6.9
	05/19/08	76.76	0.00	337.03	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/18/08	77.09	0.00	336.70	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/17/08	77.50	0.00	336.29	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	77.75	0.00	336.04	--	--	--	--	--	--	--	--	--	--
	05/05/09	78.04	0.00	335.75	<50.0	<85	<430	<1.0	<1.0	<1.0	3.1	<1.0	1.8	<1.0
	08/03/09	77.93	0.00	335.86	--	--	--	--	--	--	--	--	--	--
	11/03/09	78.20	0.00	335.59	--	--	--	Well gauged only this quarter.						
	02/08/10	78.40	0.00	335.39	--	--	--	Well gauged only this quarter.						
	05/03/10	77.79	0.00	336.00	--	--	--	Well gauged only this quarter.						
	09/07/10	76.95	0.00	336.84	--	--	--	Well gauged only this quarter.						
	12/01/10	77.46	0.00	336.33	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	8.5	0.15
	02/10/11	74.16	0.00	339.63	--	--	--	Well gauged only this quarter.						
	05/18/11	75.58	0.00	338.21	--	--	--	Well gauged only this quarter.						
	09/02/11	74.90	0.00	338.89	--	--	--	Well gauged only this quarter.						
	12/07/11	75.47	0.00	338.32	--	--	--	Well gauged only this quarter.						
	02/23/12	76.29	0.00	337.50	--	--	--	Well gauged only this quarter.						
	05/22/12	76.72	0.00	337.07	--	--	--	Well gauged only this quarter.						
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	77.11	0.00	336.68	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	04/29/15	76.89	0.00	336.90	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	76.46	0.00	337.33	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--
	10/15/15	76.91	0.00	336.88	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/28/16	75.30	0.00	338.49	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/20/17	73.40	0.00	340.39	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	74.62	0.00	339.17	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/12/18	75.05	0.00	338.74	<19.6	--	--	<0.10	<0.083	0.283	<0.31	--	2.23	<2.0
	03/27/19	76.29	0.00	337.50	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW9D ¹ 99.57	11/11/94	79.83	0.00	19.74	93,000	--	--	6,600	18,000	1,400	9,300	--	<2	--
	02/17/95	79.79	0.00	19.78	87,000	--	--	9,100	17,000	1,330	7,900	--	3	--
	05/16/95	78.99	0.00	20.58	68,000	--	--	7,700	12,000	1,200	6,000	--	3	--
	08/09/95	78.32	0.00	21.25	88,000	--	--	12,000	18,000	1,200	7,100	--	6	--
	11/06/95	78.23	0.00	21.34	88,000	--	--	11,000	20,000	1,300	7,900	--	<2	--
	02/13/96	78.00	0.00	21.57	69,000	--	--	11,000	16,000	1,300	6,300	--	3	--
	02/21/96	77.60	0.00	21.97	--	--	--	--	--	--	--	--	--	--
	05/21/96	76.05	0.00	23.52	76,000	--	--	13,000	20,000	1,500	7,500	--	2	--
	06/06/96	76.01	0.00	23.56	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.91	0.00	23.66	--	--	--	--	--	--	--	--	--	--
	09/24/96	75.26	0.00	24.31	34,000	--	--	4,600	6,200	650	2,800	--	6	--
	12/12/96	75.77	0.00	23.80	100,000	--	--	11,000	18,000	1,700	8,400	--	6	--
	03/24/97	74.81	0.00	24.76	64,000	--	--	7,400	14,000	1,400	1,200	--	10	--
	04/11/97	74.32	0.00	25.25	--	--	--	--	--	--	--	--	--	--
	06/18/97	73.05	0.00	26.52	74,000	--	--	8,500	20,000	1,500	7,700	--	8	--
	08/25/97	72.87	0.00	26.70	47,000	--	--	4,000	11,000	940	4,600	--	8	--
	11/19/97 ¹	73.61	0.00	25.96	34,000	--	--	2,500	6,900	760	3,300	--	27	--
	02/12/98 ^{NP}	73.75	0.00	25.82	52	--	--	2	4	2	7	--	3	--
	05/14/98 ^{NP}	73.12	0.00	26.45	<50	--	--	<0.5	<1	<1	1	--	<2	--
	08/25/98 ^{NP}	72.54	0.00	27.03	46,000	--	--	1,800	6,700	150	11,000	--	6	--
	11/13/98 ^{NP}	74.80	0.00	24.77	200	--	--	93	6	6	32	--	2	--
	02/10/99	76.08	0.00	23.49	3,250	--	--	647	215	112	482	--	--	--
	05/28/99 ^{NP}	68.45	0.00	31.12	3,000	--	--	32	34	10	630	--	9	--
	08/18/99 ^{NP}	73.61	0.00	25.96	<50	--	--	2.9	<1	<1	<1	--	--	--
	11/11/99 ^{NP}	77.38	0.00	22.19	6,440	--	--	2,510	129	625	841	--	7.05	--
	02/09/00 ^{NP}	75.54	0.00	24.03	320	--	--	34	<0.5	0.67	0.74	--	<2	--
	05/24/00 ^{NP}	75.90	0.00	23.67	98.0	--	--	<1.25	<0.550	<0.500	3.11	--	--	--
	09/11/00 ^{NP}	68.40	0.00	31.17	1,160	--	--	94.8	2.53	40.3	134	--	--	--
	11/27/00 ^{NP}	76.41	0.00	23.16	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	3.70	--
	02/23/01	74.59	0.00	24.98	133	--	--	0.721	<0.500	3.34	3.07	--	10.6	--
	05/16/01	79.10	0.00	20.47	<50.0	--	--	3.92	<0.500	1.18	<1.00	--	<1.00	--
	08/30/01 ^{NP}	78.85	0.00	20.72	63.4	--	--	52.5	<0.500	2.39	<1.00	--	2.03	--
	11/19/01	79.38	0.00	20.19	<50.0	--	--	0.726	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	78.05	0.00	21.52	<50.0	--	--	0.670	<0.500	<0.500	1.31	--	2.76	--
	11/20/02	77.97	0.00	21.60	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	05/21/03 ^{NP}	78.09	0.00	21.48	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/14/03 ^{NP}	78.36	0.00	21.22	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	78.40	0.00	21.17	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/10/04 ^{NP}	78.48	0.00	21.09	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	78.85	0.00	20.72	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	79.71	0.00	19.86	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	79.94	0.00	19.63	<48	--	--	0.6	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	79.37	0.00	20.20	<48	--	--	0.6	<0.2	<0.2	<0.6	--	<8.4	--

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
	02/04/09	78.50	0.00	336.03	--	--	--	--	--	--	--	--	--	--
	05/05/09	78.78	0.00	335.75	<50.0	<85	<430	<1.0	1.0	<1.0	5.3	<1.0	1.1	<1.0
	08/03/09	78.65	0.00	335.88	--	--	--	--	--	--	--	--	--	--
	11/03/09	78.92	0.00	335.61	Well gauged only this quarter.									
	02/08/10	79.11	0.00	335.42	Well gauged only this quarter.									
	05/03/10	78.52	0.00	336.01	Well gauged only this quarter.									
	09/07/10	77.70	0.00	336.83	Well gauged only this quarter.									
	12/01/10	78.15	0.00	336.38	671	--	--	<1.0	<1.0	9.3	47.2	<1.0	1.9	<0.10
	02/10/11	77.80	0.00	336.73	Well gauged only this quarter.									
	05/18/11	76.37	0.00	338.16	Well gauged only this quarter.									
	09/02/11	75.65	0.00	338.88	Well gauged only this quarter.									
	12/07/11	76.18	0.00	338.35	Well gauged only this quarter.									
	02/23/12	76.92	0.00	337.61	Well gauged only this quarter.									
	05/22/12	76.04	0.00	338.49	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
GW9D ¹	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
Cont.	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	77.82	--	336.71	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	04/29/15	77.57	--	336.96	272	--	--	<1.0	<1.0	<1.0	10.8	--	<10.0	<10.0
	07/23/15	77.17	--	337.36	148	--	--	<1.0	<1.0	<1.0	4.9	--	--	--
	10/15/15	78.23	--	336.30	<250	--	--	<0.5	<0.5	<0.5	2.8	--	--	--
	10/07/16	76.10	--	338.43	130	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/20/17	74.09	--	340.44	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	75.37	--	339.16	<19.6	--	--	<0.10	0.17 J	<0.14	<0.31	--	<2.0	<2.0
	12/12/18	75.75	--	338.78	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	03/28/19	76.98	--	337.55	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW10S	12/13/18	22.10	--	392.36	<19.6	--	--	0.37 J	0.32 J	<0.14	<0.31	--	<2.0	<2.0
414.46	03/27/19	20.90	--	393.56	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW10D ¹	11/11/94	80.74	0.00	19.82	510	--	--	14.4	39	2	46	--	<2	--
100.56	02/17/95	80.68	0.00	19.88	1,230	--	--	19.8	119	11	129	--	<2	--
	05/16/95	79.89	0.00	20.67	810	--	--	19.2	94	<1	97	--	<2	--
	08/09/95	79.21	0.00	21.35	120	--	--	2.2	6	<1	21	--	2	--
	11/06/95	79.10	0.00	21.46	290	--	--	5.9	21	<1	46	--	2	--
	02/13/96	78.92	0.00	21.64	2,600	--	--	38	291	10	324	--	<2	--
	02/21/96	78.48	0.00	22.08	--	--	--	--	--	--	--	--	--	--
	05/21/96	77.00	0.00	23.56	1,260	--	--	28.9	121	8	190	--	<2	--
	06/06/96	76.94	0.00	23.62	--	--	--	--	--	--	--	--	--	--
	06/11/96	76.82	0.00	23.74	--	--	--	--	--	--	--	--	--	--
	09/24/96	76.15	0.00	24.41	<50	--	--	0.6	<1	<1	3	--	4	--
	12/12/96	76.63	0.00	23.93	558	--	--	4.9	14	5	61	--	<2	--
	03/24/97	75.87	0.00	24.69	1,200	--	--	2.6	31	23	160	--	8	--
	04/11/97	75.29	0.00	25.27	--	--	--	--	--	--	--	--	--	--
	06/18/97	73.98	0.00	26.58	3,110	--	--	15.7	133	68	434	--	3	--
	08/25/97	73.60	0.00	26.96	<50	--	--	<0.5	<1	<1	<1	--	3	--
	11/19/97 ^a	74.52	0.00	26.04	<50	--	--	<0.5	<1	<1	<1	--	26	--
	02/12/98 ^{NP}	74.61	0.00	25.95	<50	--	--	<0.5	<1	<1	<1	--	4	--
	05/14/98 ^{NP}	73.74	0.00	26.82 ^b	<50	--	--	<0.5	<1	<1	<1	--	4	--
	08/25/98 ^{NP}	72.90	0.00	27.66 ^b	3,000	--	--	5.9	55	15	310	--	2	--
	11/13/98 ^{NP}	75.26	0.00	25.30 ^b	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	02/10/99	76.77	0.00	23.79 ^b	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	05/28/99 ^{NP}	63.60	0.00	36.96 ^b	<50	--	--	<0.5	<1	<1	<1	--	3	--
	08/18/99 ^{NP}	74.17	0.00	26.39 ^b	<50	--	--	<0.5	<1	<1	<1	--	--	--
	11/11/99 ^{NP}	61.05	0.00	39.51	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	02/09/00 ^{NP}	76.11	0.00	24.45	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	05/24/00 ^{NP}	75.15	0.00	25.41	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	09/11/00 ^{NP}	36.00	0.00	64.56	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	80.17	0.00	20.39	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/16/01	81.63	0.00	18.93	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	08/30/01 ^{NP}	79.60	0.00	20.96	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.07	--
	11/19/01	80.85	0.00	19.71	<50.0	--	--	<0.500	0.873	<0.500	1.03	--	<1.00	--
	05/04/02	78.81	0.00	21.75	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.84	--
	11/20/02	78.60	0.00	21.96	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	05/21/03 ^{NP}	78.03	0.00	22.53	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	<1.00
	11/14/03 ^{NP}	80.91	0.00	19.65	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	76.50	0.00	24.06	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	81.65	0.00	18.91	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	79.02	0.00	21.54	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	81.41	0.00	19.15	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	81.98	0.00	18.58	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	80.31	0.00	20.25	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	03/01/06	80.03	0.00	20.53	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/30/06	79.46	0.00	21.10	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	78.70	0.00	21.86	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	79.35	0.00	21.21	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	78.70	0.00	21.86	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	55.8	53.3
	05/22/07	77.82	0.00	22.74	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/20/07	77.15	0.00	23.41	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	77.00	0.00	23.56	67	--	--	<0.5	2	<0.8	3	<0.5	<6.9	<6.9
415.30	02/19/08	78.12	0.00	22.44	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	11.4	<6.9
	05/19/08	78.25	0.00	337.05	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/18/08	78.53	0.00	336.77	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/17/08	78.95	0.00	336.35	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	79.25	0.00	336.05	--	--	--	--	--	--	--	--	--	--
	05/04/09	79.29	0.00	336.01	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	08/03/09	79.39	0.00	335.91	--	--	--	--	--	--	--	--	--	--
	11/03/09	79.60	0.00	335.70	Well gauged only this quarter.									
	02/08/10	79.92	0.00	335.38	Well gauged only this quarter.									
	05/03/10	79.29	0.00	336.01	Well gauged only this quarter.									
	09/07/10	78.40	0.00	336.90	Well gauged only this quarter.									
	12/01/10	78.95	0.00	336.35	Well gauged only this quarter.									
	02/10/11	76.95	0.00	338.35	Well gauged only this quarter.									
	05/18/11	77.20	0.00	338.10	Well gauged only this quarter.									

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
	09/02/11	76.35	0.00	338.95	Well gauged only this quarter.									
	12/07/11	76.87	0.00	338.43	Well gauged only this quarter.									
MW10D	02/23/12	77.78	0.00	337.52	Well gauged only this quarter.									
(Cont)	05/22/12	77.52	0.00	337.78	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	78.62	--	336.68	<100	560	<500	0.51	<0.50	<0.50	1.0	--	<5.0	<5.0
	04/29/15	78.41	--	336.89	<100	<92	<230	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	77.93	--	337.37	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	10/15/15	78.35	--	336.95	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/27/16	76.80	--	338.50	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/19/17	74.79	--	340.51	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/04/18	76.06	--	339.24	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/13/18	76.60	--	338.70	<19.6	--	--	1.5	0.90 J	0.18 J	<0.31	--	2.93	<2.0
	03/27/19	77.75	--	337.55	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW11D ¹	11/11/94	79.83	0.00	19.89	<50	--	--	<0.5	<1	<1	<1	--	2	--
99.72	02/17/95	79.81	0.00	19.91	<50	--	--	<0.5	<1	<1	<1	--	5	--
	05/16/95	79.01	0.00	20.71	<50	--	--	1.5	<1	<1	<1	--	8	--
	08/09/95	78.35	0.00	21.37	<50	--	--	2.5	<1	<1	<1	--	4	--
	11/06/95	78.20	0.00	21.52	<50	--	--	0.7	<1	<1	<1	--	2	--
	02/13/96	78.02	0.00	21.70	<50	--	--	<0.5	<1	<1	<1	--	2	--
	02/21/96	77.55	0.00	22.17	--	--	--	--	--	--	--	--	--	--
	05/21/96	76.09	0.00	23.63	--	--	--	--	--	--	--	--	--	--
	06/06/96	76.03	0.00	23.69	--	--	--	--	--	--	--	--	--	--
	06/11/96	75.92	0.00	23.80	<50	--	--	<0.5	<1	<1	<1	--	6	--
	09/24/96	75.28	0.00	24.44	<50	--	--	<0.5	<1	<1	1	--	25	--
	12/12/96	75.80	0.00	23.92	<50	--	--	<0.5	<1	<1	<1	--	11	--
	03/24/97	74.69	0.00	25.03	<50	--	--	<0.5	<1	<1	<1	--	29	--
	04/11/97	74.34	0.00	25.38	--	--	--	--	--	--	--	--	--	--
	06/18/97	73.11	0.00	26.61	<50	--	--	<0.5	<1	<1	<1	--	19	--
	08/25/97	73.00	0.00	26.72	<50	--	--	<0.5	<1	<1	<1	--	19	--
	11/19/97	73.61	0.00	26.11	<50	--	--	<0.5	<1	<1	<1	--	23	--
	02/12/98 ^{NP}	73.78	0.00	25.94	<50	--	--	<0.5	<1	<1	<1	--	9	--
	05/14/98 ^{NP}	73.17	0.00	26.55	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/25/98	70.10	0.00	29.62	--	--	--	--	--	--	--	--	--	--
	11/13/98	73.65	0.00	26.07	--	--	--	--	--	--	--	--	--	--
	02/10/99	76.10	0.00	23.62	--	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	64.90	0.00	34.82	<50	--	--	<0.5	<1	<1	<1	--	98	--
	08/18/99 ^{NP}	73.88	0.00	25.84	--	--	--	--	--	--	--	--	--	--
	11/11/99 ^{NP}	77.08	0.00	22.64	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	75.61	0.00	24.11	--	--	--	--	--	--	--	--	--	--
	05/24/00 ^{NP}	75.55	0.00	24.17	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	09/11/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01 ^{NP}	80.33	0.00	19.39	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	08/30/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/01	80.66	0.00	19.06	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	05/04/02	78.07	0.00	21.65	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	2.18	--
	11/20/02	78.44	0.00	21.28	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.54	<1.00
	05/21/03 ^{NP}	78.07	0.00	21.65	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.21	<1.00
	11/14/03 ^{NP}	78.68	0.00	21.05	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	78.57	0.00	21.15	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/9/04 ^{NP}	79.91	0.00	19.81	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0
	02/08/05	79.61	0.00	20.11	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	--
	05/16/05	79.75	0.00	19.97	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	80.32	0.00	19.40	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	79.58	0.00	20.14	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
	03/01/06	79.24	0.00	20.48	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/30/06	78.62	0.00	21.10	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	78.00	0.00	21.72	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.54	0.00	21.18	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	77.95	0.00	21.77	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	76.7	65.5
	05/22/07	77.05	0.00	22.67	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
GW11D ¹ DUP	05/22/07	77.05	0.00	22.67	--	--	--	--	--	--	--	--	<6.9	<6.9
	08/20/07	76.39	0.00	23.33	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	77.22	0.00	22.50	91	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/19/08	77.35	0.00	22.37	--	--	--	--	--	--	--	--	--	--
414.58	05/19/08	77.48	0.00	337.10	--	--	--	--	--	--	--	--	--	--
	08/18/08	77.68	0.00	336.90	Well not sampled due to obstruction.									
	11/17/08	78.19	0.00	336.39	Well not sampled due to obstruction.									
	02/04/09	78.45	0.00	336.13	Well not sampled due to obstruction.									
	05/04/09	78.54	0.00	336.04	Well not sampled due to obstruction.									
	08/03/09	78.60	0.00	335.98	Well not sampled due to obstruction.									
	11/03/09	78.91	0.00	335.67	Well not sampled due to obstruction.									
	02/08/10	79.15	0.00	335.43	Well not sampled due to obstruction.									
	05/03/10	78.52	0.00	336.06	Well gauged only this quarter.									
	09/07/10	77.65	0.00	336.93	Well gauged only this quarter.									
	12/01/10	78.18	0.00	336.40	Well gauged only this quarter.									
	02/10/11	75.79	0.00	338.79	Well gauged only this quarter.									
	05/18/11	76.45	0.00	338.13	Well gauged only this quarter.									
	09/02/11	75.52	0.00	339.06	Well gauged only this quarter.									
	12/07/11	76.16	0.00	338.42	<50	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	7.9	0.15
	02/23/12	77.00	0.00	337.58	Well gauged only this quarter.									
	05/22/12	76.72	0.00	337.86	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/19/14	77.83	0.00	336.75	<100	110	<500	1.3	<0.50	0.92	2.3	--	<5.0	<5.0
	04/29/15	77.64	0.00	336.94	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	77.14	0.00	337.44	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	--	--
	10/15/15	77.56	0.00	337.02	<250	--	--	<0.5	<0.5	<0.5	<1.0	--	--	--

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW11D ¹	09/27/16	75.90	0.00	338.68	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/19/17	74.00	0.00	340.58	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	14.3	<10.0
	Cont.	09/04/18	75.28	0.00	339.30	<19.6	--	<0.10	<0.083	<0.14	<0.31	--	2.1J	<2.0
		12/11/18	75.85	0.00	338.73	<19.6	--	<0.10	<0.083	<0.14	<0.31	--	3.0J	<2.0
		03/26/19	76.98	0.00	337.60	<19.6	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW12D ¹	04/20/95	--	--	--	<50	--	--	0.6	<1	<1	<1	--	3	--
	91.32	05/16/95	67.52	0.00	23.80	<50	--	<0.5	<1	<1	<1	--	<2	--
		08/09/95	67.18	0.00	24.14	<50	--	<0.5	<1	<1	<1	--	<2	--
		11/06/95	67.51	0.00	23.81	<50	--	<0.5	<1	<1	<1	--	<2	--
		02/13/96	67.35	0.00	23.97	<50	--	--	<0.5	<1	<1	<1	--	<2
	02/21/96	66.98	0.00	24.34	--	--	--	--	--	--	--	--	--	--
	05/21/96	65.17	0.00	26.15	--	--	--	--	--	--	--	--	--	--
	06/06/96	65.09	0.00	26.23	--	--	--	--	--	--	--	--	--	--
	06/11/96	65.05	0.00	26.27	<50	--	--	<0.5	<1	<1	<1	--	23	--
	09/24/96	65.35	0.00	25.97	<50	--	--	<0.5	<1	<1	<1	--	7	--
	12/12/96	64.97	0.00	26.35	<50	--	--	<0.5	<1	<1	<1	--	17	--
	03/24/97	63.86	0.00	27.46	<50	--	--	<0.5	<1	<1	<1	--	7	--
	04/11/97	63.03	0.00	28.29	--	--	--	--	--	--	--	--	--	--
	06/18/97	62.12	0.00	29.20	<50	--	--	<0.5	<1	<1	<1	--	11	--
	08/25/97	62.24	0.00	29.08	<50	--	--	<0.5	<1	<1	<1	--	11	--
	11/19/97	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/12/98 ^{NP}	62.50	0.00	28.82	<50	--	--	<0.5	<1	<1	1	--	10	--
	05/14/98 ^{NP}	62.10	0.00	29.22	<50	--	--	<0.5	<1	<1	1	--	6	--
	08/25/98	63.19	0.00	28.13	--	--	--	--	--	--	--	--	--	--
	11/13/98	64.60	0.00	26.72	--	--	--	--	--	--	--	--	--	--
	02/10/99	65.13	0.00	26.19	--	--	--	--	--	--	--	--	--	--
	05/28/99 ^{NP}	61.84	0.00	29.48	<50	--	--	<0.5	<1	<1	<1	--	<2	--
	08/18/99 ^{NP}	62.92	0.00	28.40	--	--	--	--	--	--	--	--	--	--
	11/11/99 ^{NP}	64.40	0.00	26.92	--	--	--	--	--	--	--	--	--	--
	02/09/00 ^{NP}	64.98	0.00	26.34	--	--	--	--	--	--	--	--	--	--
	05/24/00 ^{NP}	63.14	0.00	28.18	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
	09/11/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/27/00	NM	--	--	--	--	--	--	--	--	--	--	--	--
	02/23/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	05/16/01 ^{NP}	66.70	0.00	24.62	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	4.41	--
	08/30/01	NM	--	--	--	--	--	--	--	--	--	--	--	--
	11/19/01	67.40	0.00	23.92	<50.0	--	--	<0.500	<0.500	<0.500	1.01	--	9.34	--
	05/04/02	66.32	0.00	25.00	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	5.87	--
	11/20/02	66.52	0.00	24.80	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.47	<1.00
	05/21/03 ^{NP}	66.65	0.00	24.67	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	1.96	<1.00
	11/14/03 ^{NP}	64.91	0.00	26.42	<50.0	--	--	<1.00	<1.00	<1.00	<1.50	--	<5.00	<5.00
	5/13/04 ^{NP}	64.80	0.00	26.52	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	<5.00	<5.00
	12/10/04 ^{NP}	67.05	0.00	24.27	<100	--	--	<1.00	<1.00	<1.00	<3.00	--	15.5	<10.0
	02/08/05	67.31	0.00	24.01	<100	--	--	<0.5	<1.00	<1.00	<3.00	--	<10.0	<10.0
	05/16/05	67.05	0.00	24.27	<100	--	--	<1	<1	<1	<3	<1	<15	<15
	08/18/05	66.87	0.00	24.45	<48	--	--	<0.2	<0.2	<0.2	<0.6	<0.3	<8.4	--
	11/22/05	67.43	0.00	23.89	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
	03/01/06	66.90	0.00	24.42	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<8.4	--
	05/31/06	66.35	0.00	24.97	<48	--	--	<0.2	<0.2	<0.2	<0.6	--	<6.9	<6.9
	08/28/06	66.07	0.00	25.25	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/14/06	78.00	0.00	13.32	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/21/07	65.91	0.00	25.41	<48	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	76.5	65.4
	05/22/07	66.08	0.00	25.24	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	12	<6.9
	08/20/07	64.97	0.00	26.35	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/19/07	69.95	0.00	21.37	<50	--	--	<0.5	0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/19/08	65.58	0.00	25.74	<50	--	--	<0.5	0.7	<0.8	<0.8	<0.5	19	<6.9
	05/19/08	65.45	0.00	341.11	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	08/18/08	65.88	0.00	340.68	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	11/17/08	66.40	0.00	340.16	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	<6.9
	02/04/09	Unable to locate well			--	--	--	--	--	--	--	--	--	--
	05/05/09	67.12	0.00	339.44	<50.0	<83	<420	<1.0	<1.0	<1.0	2.4	<1.0	3.7	<1.0
	08/03/09	64.60	0.00	341.96	--	--	--	--	--	--	--	--	--	--
	11/03/09	66.80	0.00	339.76	Well gauged only this quarter.									
	02/08/10	66.85	0.00	339.71	Well gauged only this quarter.									
	05/03/10	65.81	0.00	340.75	Well gauged only this quarter.									
	09/07/10	65.45	0.00	341.11	Well gauged only this quarter.									
	12/01/10	66.03	0.00	340.53	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	8.3	0.50
	02/10/11	65.39	0.00	341.17	Well gauged only this quarter.									
	05/18/11	64.83	0.00	341.73	Well gauged only this quarter.									
	09/02/11	64.90	0.00	341.66	Well gauged only this quarter.									
	12/07/11	65.43	0.00	341.13	Well gauged only this quarter.									
	02/23/12	66.18	0.00	340.38	Well gauged only this quarter.									
	05/22/12	63.55	0.00	343.01	Well gauged only this quarter.									
	08/01/12	NM	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	64.45	--	342.11	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0
	04/29/15	63.40	--	343.16	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	07/23/15	63.75	--	342.81	<100	--	--	<1.0	<1.0	1.5	<3.0	--	--	--
	10/15/15	65.62	--	340.94	Well gauged only this quarter.									
	10/07/16	64.50	--	342.06	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/19/17	62.35	--	344.21	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0
	09/05/18	63.65	--	342.91	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
	12/12/18	64.28	--	342.28	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.8J	<2.0
	03/28/19	64.94	--	341.62	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW13S	12/13/18	38.85	--	374.28	9,380	--	--	41.3	14	230.0	882	--	<2.0	<2.0
	413.13	03/28/19	32.70	--	380.43	2,780	--	12.3	4.1	69.5	194	--	<2.0	<2.0
GW13D	12/13/18	74.30	--	338.64	<19.6	--	--	0.98 J	0.74 J	0.15 J	<0.31	--	10.00	<2.0
	412.94	03/26/19	75.34	--	337.60	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0
GW14S	12/11/18	41.05	--	-41.05	113,000	--	--	13.8	6,440	2,790	17,600	--	5.0 J	3.0 J
	413.78	03/28/19	38.82	--	-38.82	53,300	--	--	9.7J	3,470	1,870	9,300	--	<2.0

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER GAUGING AND LABORATORY ANALYTICAL DATA
 Phillips 66 Facility No. 2701476 (AOC 2063)
 12660 First Avenue South
 Seattle, Washington

Well ID TOC Elevation	Sample Date				Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Metals	
		DTW (feet)	LPH (feet)	GW Elev. (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15
GW14D	12/13/18	75.00	--	338.72	<19.6	--	--	12	0.40 J	<0.14	<0.31	--	<2.0	<2.0
413.72	03/30/19	76.12	--	337.60	502	--	--	580	1.5	34.4	3.5	--	<2.0	<2.0
GW15S	12/11/18	39.30	--	374.76	Insufficient Water to Sample									
414.06	03/30/19	32.69	--	381.37	398			1.0J	0.23J	10.8	26.6		<2.0	<2.0
GW15D	12/13/18	56.00	--	358.01	<19.6	--	--	1.0	0.66 J	0.27 J	<0.31	--	8.1 J	<2.0
414.01	03/26/19	52.60	--	361.41	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW16S	12/11/18	48.50	--	366.94	Insufficient Water to Sample									
415.44	03/30/19	42.69	--	372.75	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW16D	12/13/18	76.55	--	338.69	<19.6	--	--	0.59 J	0.44 J	0.17 J	<0.31	--	6.7 J	<2.0
415.24	03/27/19	77.64	--	337.60	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0
GW17S	12/11/18	49.30	--	365.54	Insufficient Water to Sample									
414.84	03/30/19	48.00	--	366.84	<19.6	--	--	0.29J	0.094J	<0.14	<0.31	--	<2.0	<2.0
GW17D	12/13/18	76.08	--	338.99	<19.6	--	--	0.50 J	0.38 J	<0.14	<0.31	--	2.8 J	2.0 J
415.07	03/30/19	77.15	--	337.92	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.9J	<2.0
GW18S	12/11/18	48.38	--	365.93	Insufficient Water to Sample									
414.31	03/30/19	Dry	--	--	Insufficient Water to Sample									
GW18D	12/11/18	75.45	--	338.73	<19.6	--	--	<0.10	0.093 J	<0.14	<0.31	--	<2.0	<2.0
414.18	03/27/19	76.50	--	337.68	1,270	--	--	558	3.8	45.0	109	--	4.9J	<2.0

EXPLANATION:

All concentrations are in µg/L (ppb).

Wellhead elevations were taken from prior consultant's reports

DTW = Depth to water in feet below top of casing

LPH = Liquid-phase hydrocarbon thickness in feet

GW Elev. = Groundwater elevation in feet relative to top of casing elevations

Groundwater elevations were corrected for LPH using a specific gravity of 0.75.

TPH-G = Total Petroleum Hydrocarbons as gasoline by Ecology Method NWTTPH-Gx

TPH-D = Total Petroleum Hydrocarbons as diesel and oil by Ecology Method NWTTPH-Dx

Prior to 5/18/11, BTEX Analyzed by EPA Method 8021B.

After 5/18/11, BTEX Analyzed by EPA Method 5030B/8260.

Total Pb = Total lead by EPA Method 6020

Diss Pb = Dissolved lead by EPA Method 6020

Prior to December 20, 2011, 1,2-DCA = 1,2-Dichloroethane; PCE = Tetrachloroethene; TCE = Trichloroethene; 1,1-DCE = 1,1 Dichloroethene; 1,2-DCE = 1,2 Dichloroethene; 1,2-DCP = 1,2 Dichloropropane analyzed by EPA Method 8260.

Prior to December 20, 2011, EDB (1,2-Dibromoethane) analyzed by EPA Method 8011.

After December 20, 2011, 1,2-Dichloroethane (1,2-DCA); Tetrachloroethene (PCE); Trichloroethene (TCE); 1,1 Dichloroethene (1,1-DCE); 1,2 Dichloroethene (1,2-DCE); 1,2 Dichloropropane (1,2-DCP) and 1,2-Dibromoethane (EDB) analyzed by EPA Method 8260.

1n = Sample was evaluated to the MDL; 2n = Diluted analysis conducted in excess of EPA method holding time; 4n = Sample was reanalyzed 3 days outside of holding time due to carryover.

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

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

Z2 = Analyte present in the associated method blank above the detection limit.

Prior to second quarter 2008, monitoring wells surveyed to relative elevations. Wells were surveyed relative to sea level during the second quarter of 2008.

¹ = For wells GW7D through GW12D: Well designations changed from GW-7 through GW-12 respectively to reflect that the wells are designated as deep water bearing zone wells)

< = Less than the stated laboratory reporting limit

NM = Not Measured; -- = Not Analyzed or Sampled

^a Concentration levels stated by MTCA Method A for TPH-G are

1,000 µg/L when no benzene is present and 800 µg/L when benzene is present.

^b Approximated due to wellhead modification

^c Samples collected from stub-ups inside remediation compound

^d Well contained insufficient water to sample, labeled dry when unable to pull any water from well.

^{NP} Not Purged

NA = Not established

Data collected before May 18, 2011 was obtained from prior consultants.

* DTW measurements collected 1 day prior to sampling

** Analytical results are anomalous compared to historical data. Cardno ATC suspects that sample ID's "GW-5" and "GW-6" may have been switched.

APPENDIX A

**LABORATORY ANALYTICAL DATA REPORT
AND CHAIN OF CUSTODY DOCUMENT**

April 08, 2019

Elisabeth Silver
ATC Group Services LLC
6347 Seaview Ave NW
Seattle, WA 98107

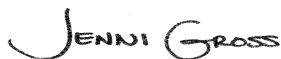
RE: Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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
(206)957-2426
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10468918001	GW-7D	Water	03/26/19 15:25	03/30/19 09:20
10468918002	GW-8S	Water	03/27/19 10:12	03/30/19 09:20
10468918003	GW-8D	Water	03/27/19 09:20	03/30/19 09:20
10468918004	GW-9D	Water	03/28/19 09:20	03/30/19 09:20
10468918005	GW-10S	Water	03/27/19 17:22	03/30/19 09:20
10468918006	GW-10D	Water	03/27/19 16:26	03/30/19 09:20
10468918007	GW-11D	Water	03/26/19 14:00	03/30/19 09:20
10468918008	GW-12D	Water	03/28/19 10:32	03/30/19 09:20
10468918009	GW-13S	Water	03/28/19 17:10	03/30/19 09:20
10468918010	GW-13D	Water	03/26/19 16:42	03/30/19 09:20
10468918011	GW-14S	Water	03/28/19 18:10	03/30/19 09:20
10468918012	GW-14D	Water	03/28/19 16:00	03/30/19 09:20
10468918013	GW-15S	Water	03/28/19 11:40	03/30/19 09:20
10468918014	GW-15D	Water	03/26/19 11:30	03/30/19 09:20
10468918015	GW-16S	Water	03/28/19 13:50	03/30/19 09:20
10468918016	GW-16D	Water	03/27/19 13:32	03/30/19 09:20
10468918017	GW-17S	Water	03/28/19 14:55	03/30/19 09:20
10468918018	GW-17D	Water	03/27/19 14:22	03/30/19 09:20
10468918019	GW-18D	Water	03/27/19 15:24	03/30/19 09:20
10468918020	Trip Blank	Water	03/14/19 00:00	03/30/19 09:20

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SAMPLE ANALYTE COUNT

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10468918001	GW-7D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	DS2	7	PASI-M
10468918002	GW-8S	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MJD	7	PASI-M
10468918003	GW-8D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10468918004	GW-9D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10468918005	GW-10S	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10468918006	GW-10D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10468918007	GW-11D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10468918008	GW-12D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MJD	7	PASI-M
10468918009	GW-13S	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10468918010	GW-13D	NWTPH-Gx	AJR	2	PASI-M

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SAMPLE ANALYTE COUNT

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10468918011	GW-14S	EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
10468918012	GW-14D	EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
10468918013	GW-15S	EPA 8260B	AEZ, MJD	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MJD	7	PASI-M
10468918014	GW-15D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	MJD	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
10468918015	GW-16S	EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
10468918016	GW-16D	EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
10468918017	GW-17S	EPA 8260B	MJD	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
10468918018	GW-17D	NWTPH-Gx	AJR	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
10468918019	GW-18D	EPA 6010D	IP	1	PASI-M
		EPA 8260B	AEZ	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M

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SAMPLE ANALYTE COUNT

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10468918020	Trip Blank	EPA 6010D	DM	1	PASI-M
		EPA 8260B	AEZ, MJD	7	PASI-M
		NWTPH-Gx	AJR	2	PASI-M
		EPA 8260B	MJD	7	PASI-M

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-7D Lab ID: 10468918001 Collected: 03/26/19 15:25 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 17:02		
Surrogates									
a,a,a-Trifluorotoluene (S)	82	%	50-150		1		04/04/19 17:02	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 16:34	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 11:42	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/02/19 12:21	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/02/19 12:21	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/02/19 12:21	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/02/19 12:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		04/02/19 12:21	17060-07-0	
Toluene-d8 (S)	106	%	75-125		1		04/02/19 12:21	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		04/02/19 12:21	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-8S		Lab ID: 10468918002		Collected: 03/27/19 10:12		Received: 03/30/19 09:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 17:19		
Surrogates									
a,a,a-Trifluorotoluene (S)	82	%.	50-150		1		04/04/19 17:19	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 16:54	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 11:50	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/01/19 19:42	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/01/19 19:42	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/01/19 19:42	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/01/19 19:42	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%.	75-125		1		04/01/19 19:42	17060-07-0	
Toluene-d8 (S)	87	%.	75-125		1		04/01/19 19:42	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1		04/01/19 19:42	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-8D		Lab ID: 10468918003		Collected: 03/27/19 09:20		Received: 03/30/19 09:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 15:22		
Surrogates									
a,a,a-Trifluorotoluene (S)	83	%	50-150		1		04/04/19 15:22	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 16:57	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 11:52	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/03/19 13:40	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/03/19 13:40	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/03/19 13:40	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/03/19 13:40	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		04/03/19 13:40	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		04/03/19 13:40	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		04/03/19 13:40	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-9D Lab ID: 10468918004 Collected: 03/28/19 09:20 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 22:20		
Surrogates									
a,a,a-Trifluorotoluene (S)	81	%.	50-150		1		04/04/19 22:20	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:00	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 11:53	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/03/19 13:56	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/03/19 13:56	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/03/19 13:56	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/03/19 13:56	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		04/03/19 13:56	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1		04/03/19 13:56	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		04/03/19 13:56	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-10S Lab ID: 10468918005 Collected: 03/27/19 17:22 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 15:55		
Surrogates									
a,a,a-Trifluorotoluene (S)	80	%.	50-150		1		04/04/19 15:55	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:03	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 11:55	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/03/19 12:52	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/03/19 12:52	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/03/19 12:52	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/03/19 12:52	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		1		04/03/19 12:52	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1		04/03/19 12:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		04/03/19 12:52	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-10D Lab ID: 10468918006 Collected: 03/27/19 16:26 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 17:36		
Surrogates									
a,a,a-Trifluorotoluene (S)	77	%.	50-150		1		04/04/19 17:36	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:06	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 11:57	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/03/19 14:11	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/03/19 14:11	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/03/19 14:11	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/03/19 14:11	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		04/03/19 14:11	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1		04/03/19 14:11	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		04/03/19 14:11	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-11D Lab ID: 10468918007 Collected: 03/26/19 14:00 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 19:33		
Surrogates									
a,a,a-Trifluorotoluene (S)	76	%.	50-150		1		04/04/19 19:33	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:09	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:02	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/03/19 14:27	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/03/19 14:27	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/03/19 14:27	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/03/19 14:27	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		04/03/19 14:27	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1		04/03/19 14:27	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		04/03/19 14:27	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-12D Lab ID: 10468918008 Collected: 03/28/19 10:32 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 23:27		
Surrogates									
a,a,a-Trifluorotoluene (S)	81	%.	50-150		1		04/04/19 23:27	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:18	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:03	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/04/19 15:57	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/04/19 15:57	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/04/19 15:57	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/04/19 15:57	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		1		04/04/19 15:57	17060-07-0	
Toluene-d8 (S)	107	%.	75-125		1		04/04/19 15:57	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1		04/04/19 15:57	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-13S Lab ID: 10468918009 Collected: 03/28/19 17:10 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	2780	ug/L	100	19.6	1		04/04/19 23:44		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	78	%.	50-150		1		04/04/19 23:44	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:21	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:05	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	12.3	ug/L	2.0	0.20	2		04/04/19 01:34	71-43-2	
Ethylbenzene	69.5	ug/L	2.0	0.28	2		04/04/19 01:34	100-41-4	
Toluene	4.1	ug/L	2.0	0.17	2		04/04/19 01:34	108-88-3	
Xylene (Total)	194	ug/L	6.0	0.62	2		04/04/19 01:34	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	75-125		2		04/04/19 01:34	17060-07-0	
Toluene-d8 (S)	100	%.	75-125		2		04/04/19 01:34	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		2		04/04/19 01:34	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-13D Lab ID: 10468918010 Collected: 03/26/19 16:42 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 16:12		
Surrogates									
a,a,a-Trifluorotoluene (S)	77	%.	50-150		1		04/04/19 16:12	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:24	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:07	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/03/19 23:11	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/03/19 23:11	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/03/19 23:11	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/03/19 23:11	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	75-125		1		04/03/19 23:11	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1		04/03/19 23:11	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		04/03/19 23:11	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-14S Lab ID: 10468918011 Collected: 03/28/19 18:10 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	53300	ug/L	5000	980	50		04/05/19 13:27		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	78	%.	50-150		50		04/05/19 13:27	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:27	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	2.2J	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:08	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	9.7J	ug/L	10.0	1.0	10		04/04/19 03:10	71-43-2	
Ethylbenzene	1870	ug/L	10.0	1.4	10		04/04/19 03:10	100-41-4	
Toluene	3470	ug/L	50.0	4.2	50		04/04/19 02:38	108-88-3	
Xylene (Total)	9300	ug/L	150	15.4	50		04/04/19 02:38	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		10		04/04/19 03:10	17060-07-0	
Toluene-d8 (S)	91	%.	75-125		10		04/04/19 03:10	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125		10		04/04/19 03:10	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-14D Lab ID: 10468918012 Collected: 03/28/19 16:00 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	502	ug/L	100	19.6	1		04/05/19 00:01		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	85	%	50-150		1		04/05/19 00:01	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:30	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:10	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	580	ug/L	5.0	0.51	5		04/07/19 15:22	71-43-2	
Ethylbenzene	34.4	ug/L	1.0	0.14	1		04/03/19 23:27	100-41-4	
Toluene	1.5	ug/L	1.0	0.083	1		04/03/19 23:27	108-88-3	
Xylene (Total)	3.5	ug/L	3.0	0.31	1		04/03/19 23:27	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		04/03/19 23:27	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		04/03/19 23:27	2037-26-5	
4-Bromofluorobenzene (S)	100	%	75-125		1		04/03/19 23:27	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-15S Lab ID: 10468918013 Collected: 03/28/19 11:40 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	398	ug/L	100	19.6	1		04/05/19 02:47		
Surrogates									
a,a,a-Trifluorotoluene (S)	79	%.	50-150		1		04/05/19 02:47	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:33	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:12	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	1.0J	ug/L	1.0	0.10	1		04/04/19 16:14	71-43-2	
Ethylbenzene	10.8	ug/L	1.0	0.14	1		04/04/19 16:14	100-41-4	
Toluene	0.23J	ug/L	1.0	0.083	1		04/04/19 16:14	108-88-3	
Xylene (Total)	26.6	ug/L	3.0	0.31	1		04/04/19 16:14	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	75-125		1		04/04/19 16:14	17060-07-0	
Toluene-d8 (S)	104	%.	75-125		1		04/04/19 16:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		04/04/19 16:14	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-15D		Lab ID: 10468918014		Collected: 03/26/19 11:30		Received: 03/30/19 09:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 14:14		
Surrogates									
a,a,a-Trifluorotoluene (S)	79	%.	50-150		1		04/04/19 14:14	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:36	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:13	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/04/19 21:04	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/04/19 21:04	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/04/19 21:04	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/04/19 21:04	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		1		04/04/19 21:04	17060-07-0	
Toluene-d8 (S)	106	%.	75-125		1		04/04/19 21:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1		04/04/19 21:04	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-16S		Lab ID: 10468918015		Collected: 03/28/19 13:50		Received: 03/30/19 09:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV									
Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/05/19 00:17		
Surrogates									
a,a,a-Trifluorotoluene (S)	77	%.	50-150		1		04/05/19 00:17	98-08-8	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:39	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:15	7439-92-1	
8260B MSV UST									
Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/04/19 03:57	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/04/19 03:57	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/04/19 03:57	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/04/19 03:57	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	75-125		1		04/04/19 03:57	17060-07-0	
Toluene-d8 (S)	91	%.	75-125		1		04/04/19 03:57	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1		04/04/19 03:57	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-16D Lab ID: 10468918016 Collected: 03/27/19 13:32 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 18:43		
Surrogates									
a,a,a-Trifluorotoluene (S)	77	%.	50-150		1		04/04/19 18:43	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:42	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:16	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/04/19 21:21	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/04/19 21:21	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/04/19 21:21	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/04/19 21:21	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		1		04/04/19 21:21	17060-07-0	
Toluene-d8 (S)	107	%.	75-125		1		04/04/19 21:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125		1		04/04/19 21:21	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-17S Lab ID: 10468918017 Collected: 03/28/19 14:55 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/05/19 00:34		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	75	%.	50-150		1		04/05/19 00:34	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:44	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:33	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	0.29J	ug/L	1.0	0.10	1		04/04/19 04:13	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/04/19 04:13	100-41-4	
Toluene	0.094J	ug/L	1.0	0.083	1		04/04/19 04:13	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/04/19 04:13	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	75-125		1		04/04/19 04:13	17060-07-0	
Toluene-d8 (S)	99	%.	75-125		1		04/04/19 04:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		04/04/19 04:13	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-17D Lab ID: 10468918018 Collected: 03/27/19 14:22 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	<19.6	ug/L	100	19.6	1		04/04/19 16:29		
Surrogates									
a,a,a-Trifluorotoluene (S)	78	%.	50-150		1		04/04/19 16:29	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	2.9J	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:53	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:35	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	<0.10	ug/L	1.0	0.10	1		04/03/19 23:59	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		04/03/19 23:59	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		04/03/19 23:59	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		04/03/19 23:59	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		04/03/19 23:59	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1		04/03/19 23:59	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	75-125		1		04/03/19 23:59	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: GW-18D Lab ID: 10468918019 Collected: 03/27/19 15:24 Received: 03/30/19 09:20 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV Analytical Method: NWTPH-Gx									
TPH as Gas	1270	ug/L	100	19.6	1		04/04/19 16:46		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	84	%	50-150		1		04/04/19 16:46	98-08-8	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead	4.9J	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 17:56	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010									
Lead, Dissolved	<2.0	ug/L	10.0	2.0	1	04/01/19 16:02	04/03/19 12:36	7439-92-1	
8260B MSV UST Analytical Method: EPA 8260B									
Benzene	588	ug/L	5.0	0.51	5		04/06/19 05:02	71-43-2	
Ethylbenzene	45.0	ug/L	1.0	0.14	1		04/04/19 00:15	100-41-4	
Toluene	3.8	ug/L	1.0	0.083	1		04/04/19 00:15	108-88-3	
Xylene (Total)	109	ug/L	3.0	0.31	1		04/04/19 00:15	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		04/04/19 00:15	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1		04/04/19 00:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		04/04/19 00:15	460-00-4	

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ANALYTICAL RESULTS

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Sample: Trip Blank		Lab ID: 10468918020		Collected: 03/14/19 00:00		Received: 03/30/19 09:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx							
TPH as Gas	<19.6	ug/L	100	19.6	1		04/03/19 14:56		H3
Surrogates									
a,a,a-Trifluorotoluene (S)	77	%.	50-150		1		04/03/19 14:56	98-08-8	
8260B MSV UST		Analytical Method: EPA 8260B							
Benzene	<0.10	ug/L	1.0	0.10	1		03/30/19 16:22	71-43-2	
Ethylbenzene	<0.14	ug/L	1.0	0.14	1		03/30/19 16:22	100-41-4	
Toluene	<0.083	ug/L	1.0	0.083	1		03/30/19 16:22	108-88-3	
Xylene (Total)	<0.31	ug/L	3.0	0.31	1		03/30/19 16:22	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	75-125		1		03/30/19 16:22	17060-07-0	H3
Toluene-d8 (S)	99	%.	75-125		1		03/30/19 16:22	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		03/30/19 16:22	460-00-4	

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch: 597358 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10468918020

METHOD BLANK: 3230148 Matrix: Water
Associated Lab Samples: 10468918020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	04/03/19 12:08	
a,a,a-Trifluorotoluene (S)	%.	85	50-150		04/03/19 12:08	

METHOD BLANK: 3230149 Matrix: Water
Associated Lab Samples: 10468918020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	04/03/19 12:25	
a,a,a-Trifluorotoluene (S)	%.	79	50-150		04/03/19 12:25	

LABORATORY CONTROL SAMPLE & LCSD: 3230150 3230151

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	972	967	97	97	75-125	0	20	
a,a,a-Trifluorotoluene (S)	%.				88	90	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3230240 3230241

Parameter	Units	10468574002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	224	1000	1000	1270	1310	105	109	75-125	3	30	
a,a,a-Trifluorotoluene (S)	%.						90	93	50-150			

SAMPLE DUPLICATE: 3230295

Parameter	Units	10468591017 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	56.4J		30	
a,a,a-Trifluorotoluene (S)	%.	76	76			

SAMPLE DUPLICATE: 3230296

Parameter	Units	10468591018 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	<19.6		30	

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

SAMPLE DUPLICATE: 3230296

Parameter	Units	10468591018 Result	Dup Result	RPD	Max RPD	Qualifiers
a,a,a-Trifluorotoluene (S)	%.	77	77			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch:	597455	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPH-Gx	Analysis Description:	NWTPH-Gx Water
Associated Lab Samples:	10468918001, 10468918002, 10468918003, 10468918005, 10468918006, 10468918007, 10468918010, 10468918014, 10468918016, 10468918018, 10468918019		

METHOD BLANK: 3230455 Matrix: Water
Associated Lab Samples: 10468918001, 10468918002, 10468918003, 10468918005, 10468918006, 10468918007, 10468918010, 10468918014, 10468918016, 10468918018, 10468918019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	04/04/19 13:41	
a,a,a-Trifluorotoluene (S)	%.	81	50-150		04/04/19 13:41	

METHOD BLANK: 3230456 Matrix: Water
Associated Lab Samples: 10468918001, 10468918002, 10468918003, 10468918005, 10468918006, 10468918007, 10468918010, 10468918014, 10468918016, 10468918018, 10468918019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	04/04/19 13:57	
a,a,a-Trifluorotoluene (S)	%.	80	50-150		04/04/19 13:57	

LABORATORY CONTROL SAMPLE & LCSD: 3230457		3230458									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
TPH as Gas	ug/L	1000	1040	912	104	91	75-125	13	20		
a,a,a-Trifluorotoluene (S)	%.				90	87	50-150				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3231743				3231744								
Parameter	Units	10468918014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	<19.6	1000	1000	1180	1180	118	118	75-125	0	30	
a,a,a-Trifluorotoluene (S)	%.						91	92	50-150			

SAMPLE DUPLICATE: 3231742

Parameter	Units	10468918003 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<19.6	<19.6		30	
a,a,a-Trifluorotoluene (S)	%.	83	80			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

SAMPLE DUPLICATE: 3231745

Parameter	Units	10468918016 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<19.6	<19.6		30	
a,a,a-Trifluorotoluene (S)	%.	77	77			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch: 597617 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10468918004, 10468918008, 10468918009, 10468918012, 10468918013, 10468918015, 10468918017

METHOD BLANK: 3231546 Matrix: Water
Associated Lab Samples: 10468918004, 10468918008, 10468918009, 10468918012, 10468918013, 10468918015, 10468918017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	04/04/19 21:47	
a,a,a-Trifluorotoluene (S)	%.	84	50-150		04/04/19 21:47	

METHOD BLANK: 3231547 Matrix: Water
Associated Lab Samples: 10468918004, 10468918008, 10468918009, 10468918012, 10468918013, 10468918015, 10468918017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	04/04/19 22:04	
a,a,a-Trifluorotoluene (S)	%.	76	50-150		04/04/19 22:04	

LABORATORY CONTROL SAMPLE & LCSD: 3231548 3231549

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	984	889	98	89	75-125	10	20	
a,a,a-Trifluorotoluene (S)	%.				87	85	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3231763 3231764

Parameter	Units	10468918004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	<19.6	1000	1000	1020	1050	102	105	75-125	3	30	
a,a,a-Trifluorotoluene (S)	%.						88	90	50-150			

SAMPLE DUPLICATE: 3231765

Parameter	Units	10468931005 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	<19.6		30	
a,a,a-Trifluorotoluene (S)	%.	80	79			

SAMPLE DUPLICATE: 3231766

Parameter	Units	10468931007 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	<19.6		30	

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

SAMPLE DUPLICATE: 3231766

Parameter	Units	10468931007 Result	Dup Result	RPD	Max RPD	Qualifiers
a,a,a-Trifluorotoluene (S)	%.	74	77			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

QC Batch: 597888

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx Water

Associated Lab Samples: 10468918011

METHOD BLANK: 3232859

Matrix: Water

Associated Lab Samples: 10468918011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<19.6	100	19.6	04/05/19 12:20	
a,a,a-Trifluorotoluene (S)	%.	81	50-150		04/05/19 12:20	

LABORATORY CONTROL SAMPLE & LCSD: 3232860

3232861

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1020	1020	102	102	75-125	1	20	
a,a,a-Trifluorotoluene (S)	%.				92	89	50-150			

SAMPLE DUPLICATE: 3232862

Parameter	Units	10468918011 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	53300	51900	3	30	G-
a,a,a-Trifluorotoluene (S)	%.	78	80			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

QC Batch:	596711	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010	Analysis Description:	6010D Water
Associated Lab Samples:	10468918001, 10468918002, 10468918003, 10468918004, 10468918005, 10468918006, 10468918007, 10468918008, 10468918009, 10468918010, 10468918011, 10468918012, 10468918013, 10468918014, 10468918015, 10468918016, 10468918017, 10468918018, 10468918019		

METHOD BLANK:	3227032	Matrix:	Water
Associated Lab Samples:	10468918001, 10468918002, 10468918003, 10468918004, 10468918005, 10468918006, 10468918007, 10468918008, 10468918009, 10468918010, 10468918011, 10468918012, 10468918013, 10468918014, 10468918015, 10468918016, 10468918017, 10468918018, 10468918019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	<2.0	10.0	2.0	04/03/19 16:28	

LABORATORY CONTROL SAMPLE: 3227033						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	984	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3227034				3227035								
Parameter	Units	10468918001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	<2.0	1000	1000	961	968	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

QC Batch:	596710	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010	Analysis Description:	6010D Water Dissolved
Associated Lab Samples:	10468918001, 10468918002, 10468918003, 10468918004, 10468918005, 10468918006, 10468918007, 10468918008, 10468918009, 10468918010, 10468918011, 10468918012, 10468918013, 10468918014, 10468918015, 10468918016, 10468918017, 10468918018, 10468918019		

METHOD BLANK:	3227028	Matrix:	Water
Associated Lab Samples:	10468918001, 10468918002, 10468918003, 10468918004, 10468918005, 10468918006, 10468918007, 10468918008, 10468918009, 10468918010, 10468918011, 10468918012, 10468918013, 10468918014, 10468918015, 10468918016, 10468918017, 10468918018, 10468918019		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<2.0	10.0	2.0	04/03/19 11:34	

LABORATORY CONTROL SAMPLE: 3227029						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	1000	994	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3227030					3227031							
Parameter	Units	10468918001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.								Result
Lead, Dissolved	ug/L	<2.0	1000	1000	972	982	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch:	596678	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV UST-WATER
Associated Lab Samples:	10468918020		

METHOD BLANK: 3226639 Matrix: Water
Associated Lab Samples: 10468918020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	03/30/19 16:06	
Ethylbenzene	ug/L	<0.14	1.0	0.14	03/30/19 16:06	
Toluene	ug/L	<0.083	1.0	0.083	03/30/19 16:06	
Xylene (Total)	ug/L	<0.31	3.0	0.31	03/30/19 16:06	
1,2-Dichloroethane-d4 (S)	%	97	75-125		03/30/19 16:06	
4-Bromofluorobenzene (S)	%	100	75-125		03/30/19 16:06	
Toluene-d8 (S)	%	98	75-125		03/30/19 16:06	

LABORATORY CONTROL SAMPLE: 3226640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.4	102	75-125	
Ethylbenzene	ug/L	20	20.9	105	75-125	
Toluene	ug/L	20	21.0	105	75-125	
Xylene (Total)	ug/L	60	64.7	108	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3226649 3226650

Parameter	Units	10468335003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	19.9	20.9	99	105	30-150	5	30	
Ethylbenzene	ug/L	ND	20	20	20.4	21.3	102	107	30-150	4	30	
Toluene	ug/L	ND	20	20	20.8	21.9	104	110	30-150	5	30	
Xylene (Total)	ug/L	ND	60	60	62.0	65.5	103	109	30-150	5	30	
1,2-Dichloroethane-d4 (S)	%						100	100	75-125			
4-Bromofluorobenzene (S)	%						101	100	75-125			
Toluene-d8 (S)	%						102	101	75-125			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch:	596990	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV UST-WATER
Associated Lab Samples:	10468918002		

METHOD BLANK: 3228275 Matrix: Water
Associated Lab Samples: 10468918002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	04/01/19 19:25	
Ethylbenzene	ug/L	<0.14	1.0	0.14	04/01/19 19:25	
Toluene	ug/L	<0.083	1.0	0.083	04/01/19 19:25	
Xylene (Total)	ug/L	<0.31	3.0	0.31	04/01/19 19:25	
1,2-Dichloroethane-d4 (S)	%	93	75-125		04/01/19 19:25	
4-Bromofluorobenzene (S)	%	96	75-125		04/01/19 19:25	
Toluene-d8 (S)	%	88	75-125		04/01/19 19:25	

LABORATORY CONTROL SAMPLE: 3228276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.4	107	75-125	
Ethylbenzene	ug/L	20	19.2	96	75-125	
Toluene	ug/L	20	18.5	93	75-125	
Xylene (Total)	ug/L	60	59.0	98	75-125	
1,2-Dichloroethane-d4 (S)	%			92	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			89	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3228277 3228278

Parameter	Units	10468918002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.10	20	20	22.6	21.8	113	109	30-150	3	30	
Ethylbenzene	ug/L	<0.14	20	20	20.1	20.1	100	100	30-150	0	30	
Toluene	ug/L	<0.083	20	20	19.2	19.1	96	95	30-150	1	30	
Xylene (Total)	ug/L	<0.31	60	60	61.7	60.8	103	101	30-150	1	30	
1,2-Dichloroethane-d4 (S)	%						88	88	75-125			
4-Bromofluorobenzene (S)	%						96	97	75-125			
Toluene-d8 (S)	%						90	89	75-125			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch:	597081	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV UST-WATER
Associated Lab Samples:	10468918001		

METHOD BLANK: 3228676 Matrix: Water
Associated Lab Samples: 10468918001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	04/02/19 11:30	
Ethylbenzene	ug/L	<0.14	1.0	0.14	04/02/19 11:30	
Toluene	ug/L	<0.083	1.0	0.083	04/02/19 11:30	
Xylene (Total)	ug/L	<0.31	3.0	0.31	04/02/19 11:30	
1,2-Dichloroethane-d4 (S)	%	95	75-125		04/02/19 11:30	
4-Bromofluorobenzene (S)	%	99	75-125		04/02/19 11:30	
Toluene-d8 (S)	%	107	75-125		04/02/19 11:30	

LABORATORY CONTROL SAMPLE: 3228677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.9	89	75-125	
Ethylbenzene	ug/L	20	22.0	110	75-125	
Toluene	ug/L	20	21.1	106	75-125	
Xylene (Total)	ug/L	60	66.9	112	75-125	
1,2-Dichloroethane-d4 (S)	%			94	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			109	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3228678 3228679

Parameter	Units	10468918001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.10	20	20	18.7	17.5	93	87	30-150	7	30	
Ethylbenzene	ug/L	<0.14	20	20	23.1	22.2	116	111	30-150	4	30	
Toluene	ug/L	<0.083	20	20	22.2	20.8	111	104	30-150	6	30	
Xylene (Total)	ug/L	<0.31	60	60	70.4	66.9	117	112	30-150	5	30	
1,2-Dichloroethane-d4 (S)	%						95	98	75-125			
4-Bromofluorobenzene (S)	%						99	97	75-125			
Toluene-d8 (S)	%						108	108	75-125			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch: 597385 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10468918003, 10468918004, 10468918005, 10468918006, 10468918007

METHOD BLANK: 3230242 Matrix: Water
Associated Lab Samples: 10468918003, 10468918004, 10468918005, 10468918006, 10468918007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	04/03/19 12:05	
Ethylbenzene	ug/L	<0.14	1.0	0.14	04/03/19 12:05	
Toluene	ug/L	<0.083	1.0	0.083	04/03/19 12:05	
Xylene (Total)	ug/L	<0.31	3.0	0.31	04/03/19 12:05	
1,2-Dichloroethane-d4 (S)	%	96	75-125		04/03/19 12:05	
4-Bromofluorobenzene (S)	%	101	75-125		04/03/19 12:05	
Toluene-d8 (S)	%	97	75-125		04/03/19 12:05	

LABORATORY CONTROL SAMPLE: 3230243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.2	106	75-125	
Ethylbenzene	ug/L	20	21.7	108	75-125	
Toluene	ug/L	20	21.7	108	75-125	
Xylene (Total)	ug/L	60	67.3	112	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3230251 3230252

Parameter	Units	10468918005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Benzene	ug/L	<0.10	20	20	19.2	20.3	96	102	30-150	6	30
Ethylbenzene	ug/L	<0.14	20	20	19.3	20.8	97	104	30-150	7	30
Toluene	ug/L	<0.083	20	20	19.4	20.9	97	104	30-150	7	30
Xylene (Total)	ug/L	<0.31	60	60	58.6	63.3	98	106	30-150	8	30
1,2-Dichloroethane-d4 (S)	%						101	99	75-125		
4-Bromofluorobenzene (S)	%						99	98	75-125		
Toluene-d8 (S)	%						99	100	75-125		

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

QC Batch:	597465	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV UST-WATER
Associated Lab Samples:	10468918009, 10468918010, 10468918011, 10468918012, 10468918015, 10468918017, 10468918018, 10468918019		

METHOD BLANK: 3230497 Matrix: Water
Associated Lab Samples: 10468918009, 10468918010, 10468918011, 10468918012, 10468918015, 10468918017, 10468918018, 10468918019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	04/03/19 22:07	
Ethylbenzene	ug/L	<0.14	1.0	0.14	04/03/19 22:07	
Toluene	ug/L	<0.083	1.0	0.083	04/03/19 22:07	
Xylene (Total)	ug/L	<0.31	3.0	0.31	04/03/19 22:07	
1,2-Dichloroethane-d4 (S)	%.	98	75-125		04/03/19 22:07	
4-Bromofluorobenzene (S)	%.	99	75-125		04/03/19 22:07	
Toluene-d8 (S)	%.	98	75-125		04/03/19 22:07	

LABORATORY CONTROL SAMPLE: 3230498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.5	102	75-125	
Ethylbenzene	ug/L	20	21.7	109	75-125	
Toluene	ug/L	20	21.5	108	75-125	
Xylene (Total)	ug/L	60	67.2	112	75-125	
1,2-Dichloroethane-d4 (S)	%.			99	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3231922 3231923

Parameter	Units	10469533001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	466	100	100	535	525	69	59	30-150	2	30	
Ethylbenzene	ug/L	629	100	100	701	689	72	60	30-150	2	30	
Toluene	ug/L	23.7	100	100	122	119	99	95	30-150	3	30	
Xylene (Total)	ug/L	14.1J	300	300	325	313	104	100	30-150	4	30	
1,2-Dichloroethane-d4 (S)	%.						100	100	75-125			
4-Bromofluorobenzene (S)	%.						99	100	75-125			
Toluene-d8 (S)	%.						102	102	75-125			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch: 597627 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10468918008, 10468918013

METHOD BLANK: 3231597 Matrix: Water
Associated Lab Samples: 10468918008, 10468918013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	04/04/19 11:07	
Ethylbenzene	ug/L	<0.14	1.0	0.14	04/04/19 11:07	
Toluene	ug/L	<0.083	1.0	0.083	04/04/19 11:07	
Xylene (Total)	ug/L	<0.31	3.0	0.31	04/04/19 11:07	
1,2-Dichloroethane-d4 (S)	%.	94	75-125		04/04/19 11:07	
4-Bromofluorobenzene (S)	%.	99	75-125		04/04/19 11:07	
Toluene-d8 (S)	%.	105	75-125		04/04/19 11:07	

LABORATORY CONTROL SAMPLE: 3231598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.5	97	75-125	
Ethylbenzene	ug/L	20	23.5	117	75-125	
Toluene	ug/L	20	23.2	116	75-125	
Xylene (Total)	ug/L	60	70.1	117	75-125	
1,2-Dichloroethane-d4 (S)	%.			93	75-125	
4-Bromofluorobenzene (S)	%.			96	75-125	
Toluene-d8 (S)	%.			109	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3231601 3231602

Parameter	Units	10469076007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	2.5 mg/L	500	500	2970	2820	101	71	30-150	5	30	
Ethylbenzene	ug/L	223	500	500	846	810	125	117	30-150	4	30	
Toluene	ug/L	2920	500	500	3630	3440	142	102	30-150	6	30	
Xylene (Total)	ug/L	1450	1500	1500	3320	3230	125	119	30-150	3	30	
1,2-Dichloroethane-d4 (S)	%.						95	93	75-125			
4-Bromofluorobenzene (S)	%.						98	97	75-125			
Toluene-d8 (S)	%.						108	107	75-125			

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QUALITY CONTROL DATA

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

QC Batch: 597716 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 10468918014, 10468918016

METHOD BLANK: 3231961 Matrix: Water
Associated Lab Samples: 10468918014, 10468918016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	04/04/19 19:55	
Ethylbenzene	ug/L	<0.14	1.0	0.14	04/04/19 19:55	
Toluene	ug/L	<0.083	1.0	0.083	04/04/19 19:55	
Xylene (Total)	ug/L	<0.31	3.0	0.31	04/04/19 19:55	
1,2-Dichloroethane-d4 (S)	%	95	75-125		04/04/19 19:55	
4-Bromofluorobenzene (S)	%	99	75-125		04/04/19 19:55	
Toluene-d8 (S)	%	105	75-125		04/04/19 19:55	

LABORATORY CONTROL SAMPLE: 3231962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.1	96	75-125	
Ethylbenzene	ug/L	20	22.4	112	75-125	
Toluene	ug/L	20	22.4	112	75-125	
Xylene (Total)	ug/L	60	66.7	111	75-125	
1,2-Dichloroethane-d4 (S)	%			95	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			108	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3232283 3232284

Parameter	Units	10468885005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	20.4	19.2	102	96	30-150	6	30	
Ethylbenzene	ug/L	ND	20	20	24.2	23.5	121	118	30-150	3	30	
Toluene	ug/L	ND	20	20	24.1	22.6	121	113	30-150	6	30	
Xylene (Total)	ug/L	ND	60	60	72.2	69.8	120	116	30-150	3	30	
1,2-Dichloroethane-d4 (S)	%						95	95	75-125			
4-Bromofluorobenzene (S)	%						98	97	75-125			
Toluene-d8 (S)	%						108	108	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Z076000070 AOC02063 P66-Burien
Pace Project No.: 10468918

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
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

BATCH QUALIFIERS

Batch: 597888

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

G- Early peaks present outside the GRO window.
H3 Sample was received or analysis requested beyond the recognized method holding time.

REPORT OF LABORATORY ANALYSIS

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METHOD CROSS REFERENCE TABLE

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10468918001	GW-7D	NWTPH-Gx	597455		
10468918002	GW-8S	NWTPH-Gx	597455		
10468918003	GW-8D	NWTPH-Gx	597455		
10468918004	GW-9D	NWTPH-Gx	597617		
10468918005	GW-10S	NWTPH-Gx	597455		
10468918006	GW-10D	NWTPH-Gx	597455		
10468918007	GW-11D	NWTPH-Gx	597455		
10468918008	GW-12D	NWTPH-Gx	597617		
10468918009	GW-13S	NWTPH-Gx	597617		
10468918010	GW-13D	NWTPH-Gx	597455		
10468918011	GW-14S	NWTPH-Gx	597888		
10468918012	GW-14D	NWTPH-Gx	597617		
10468918013	GW-15S	NWTPH-Gx	597617		
10468918014	GW-15D	NWTPH-Gx	597455		
10468918015	GW-16S	NWTPH-Gx	597617		
10468918016	GW-16D	NWTPH-Gx	597455		
10468918017	GW-17S	NWTPH-Gx	597617		
10468918018	GW-17D	NWTPH-Gx	597455		
10468918019	GW-18D	NWTPH-Gx	597455		
10468918020	Trip Blank	NWTPH-Gx	597358		
10468918001	GW-7D	EPA 3010	596711	EPA 6010D	597015
10468918002	GW-8S	EPA 3010	596711	EPA 6010D	597015
10468918003	GW-8D	EPA 3010	596711	EPA 6010D	597015
10468918004	GW-9D	EPA 3010	596711	EPA 6010D	597015
10468918005	GW-10S	EPA 3010	596711	EPA 6010D	597015
10468918006	GW-10D	EPA 3010	596711	EPA 6010D	597015
10468918007	GW-11D	EPA 3010	596711	EPA 6010D	597015
10468918008	GW-12D	EPA 3010	596711	EPA 6010D	597015
10468918009	GW-13S	EPA 3010	596711	EPA 6010D	597015
10468918010	GW-13D	EPA 3010	596711	EPA 6010D	597015
10468918011	GW-14S	EPA 3010	596711	EPA 6010D	597015
10468918012	GW-14D	EPA 3010	596711	EPA 6010D	597015
10468918013	GW-15S	EPA 3010	596711	EPA 6010D	597015
10468918014	GW-15D	EPA 3010	596711	EPA 6010D	597015
10468918015	GW-16S	EPA 3010	596711	EPA 6010D	597015
10468918016	GW-16D	EPA 3010	596711	EPA 6010D	597015
10468918017	GW-17S	EPA 3010	596711	EPA 6010D	597015
10468918018	GW-17D	EPA 3010	596711	EPA 6010D	597015
10468918019	GW-18D	EPA 3010	596711	EPA 6010D	597015
10468918001	GW-7D	EPA 3010	596710	EPA 6010D	597014
10468918002	GW-8S	EPA 3010	596710	EPA 6010D	597014
10468918003	GW-8D	EPA 3010	596710	EPA 6010D	597014

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000070 AOC02063 P66-Burien

Pace Project No.: 10468918

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10468918004	GW-9D	EPA 3010	596710	EPA 6010D	597014
10468918005	GW-10S	EPA 3010	596710	EPA 6010D	597014
10468918006	GW-10D	EPA 3010	596710	EPA 6010D	597014
10468918007	GW-11D	EPA 3010	596710	EPA 6010D	597014
10468918008	GW-12D	EPA 3010	596710	EPA 6010D	597014
10468918009	GW-13S	EPA 3010	596710	EPA 6010D	597014
10468918010	GW-13D	EPA 3010	596710	EPA 6010D	597014
10468918011	GW-14S	EPA 3010	596710	EPA 6010D	597014
10468918012	GW-14D	EPA 3010	596710	EPA 6010D	597014
10468918013	GW-15S	EPA 3010	596710	EPA 6010D	597014
10468918014	GW-15D	EPA 3010	596710	EPA 6010D	597014
10468918015	GW-16S	EPA 3010	596710	EPA 6010D	597014
10468918016	GW-16D	EPA 3010	596710	EPA 6010D	597014
10468918017	GW-17S	EPA 3010	596710	EPA 6010D	597014
10468918018	GW-17D	EPA 3010	596710	EPA 6010D	597014
10468918019	GW-18D	EPA 3010	596710	EPA 6010D	597014
10468918001	GW-7D	EPA 8260B	597081		
10468918002	GW-8S	EPA 8260B	596990		
10468918003	GW-8D	EPA 8260B	597385		
10468918004	GW-9D	EPA 8260B	597385		
10468918005	GW-10S	EPA 8260B	597385		
10468918006	GW-10D	EPA 8260B	597385		
10468918007	GW-11D	EPA 8260B	597385		
10468918008	GW-12D	EPA 8260B	597627		
10468918009	GW-13S	EPA 8260B	597465		
10468918010	GW-13D	EPA 8260B	597465		
10468918011	GW-14S	EPA 8260B	597465		
10468918012	GW-14D	EPA 8260B	597465		
10468918013	GW-15S	EPA 8260B	597627		
10468918014	GW-15D	EPA 8260B	597716		
10468918015	GW-16S	EPA 8260B	597465		
10468918016	GW-16D	EPA 8260B	597716		
10468918017	GW-17S	EPA 8260B	597465		
10468918018	GW-17D	EPA 8260B	597465		
10468918019	GW-18D	EPA 8260B	597465		
10468918020	Trip Blank	EPA 8260B	596678		

REPORT OF LABORATORY ANALYSIS

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

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Aynalem Degafa (ATC)	03/29/19	1254	<i>Aynalem Degafa</i>	03/29	1254					1.3	Y	Y	Y
				<i>Aynalem Degafa</i>	03/29/19					1.5				
				<i>Aynalem Degafa</i>						0.0				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Aynalem Degafa*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YYYY): *03-29-19*

ORIGINAL

Page 47 of 5

CHAIN-OF-CUSTODY / Analytical Request Document

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



Page: 2 of 2
2301618

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>ATC Group Services LLC</u>	Report To: <u>Elisabeth Silver</u>	Attention: <u>Accounts Payable</u>	Company Name: <u>ATC Group Services LLC</u>	REGULATORY AGENCY <u>WA</u>	☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER Site Location STATE: <u>WA</u>
Address: <u>6347 Seaview Ave NW</u>	Copy To: <u>elisabeth.silver@atcs.com</u>	Company Address: <u>Sea the 1 WA 98107</u>	Pace Quote Reference: <u>206 281 1449</u>		
Phone: <u>206 281 1449</u>	Purchase Order No.: <u>2076000070</u>	Pace Project Manager: <u>3976513</u>			
Requested Due Date/TAT: <u>03-29-19</u>	Project Name: <u>A0002063-P66 Borien</u>	Pace Profile #: <u>3976513</u>			
	Project Number: <u>2076000070</u>				

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Analysis Test	Total lead	Dissolved lead	WTPH-GX/BT/XPM	Trip Blank	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB	DATE			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other								
1	GW-15S		WT	G	3/28/19	11:40																	13				
2	GW-15D				3/26/19	11:30																	14				
3	GW-16S				3/28/19	13:50																	15				
4	GW-16D				3/28/19	13:32																	16				
5	GW-17S				3/28/19	14:55																	17				
6	GW-17D				3/28/19	14:22																	18				
7	GW-18D				3/28/19	15:24																	19				
8	Trip Blank				03/14/19																		20				
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Aynalem Degefa (ATC)	03/29/19	12:54	MTE	3-29	12:54	
				Ground Pace	3/30/19	9:20	Y Y Y
						1:5	
						08	

SAMPLER NAME AND SIGNATURE		Temp In °C	Received on	Custody	Samples Intact
Aynalem Degefa					
PRINT Name of SAMPLER: Aynalem Degefa					
SIGNATURE of SAMPLER: 03-29-19					

	Document Name:	Document Revised: 06Feb2019
	Sample Condition Upon Receipt Form	Page 1 of 1
	Document No.: F-MN-L-213-rev.25	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: ATC Group Services	Project #: WO# : 10468918
Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client	PM: JMG Due Date: 04/12/19	
☐ Pace ☐ SpeedDee ☐ Commercial See Exception	CLIENT: P66_CarWA	
Tracking Number: 1863 4083 8425/8414, 4486 7791, 2858		
Custody Seal on Cooler/Box Present? ☒ Yes ☐ No	Seals Intact? ☒ Yes ☐ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____	Temp Blank? ☒ Yes ☐ No	
Thermometer: ☐ G87A9155100842 ☒ G87A9170600254	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: 1.3, 1.5, 0.8 °C	Average Corrected Temp (no temp blank only): _____ °C
Correction Factor: 1.0	Cooler Temp Corrected w/temp blank: 1.3, 1.5, 0.8 °C	See Exceptions ☐

USDA Regulated Soil: ☒ N/A, water sample/Other: _____

Date/Initials of Person Examining Contents: **3/30/19**

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6. Past due
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	
Containers Intact?	☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests?	☒ Yes ☐ No ☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☒ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☒ Yes ☐ No ☐ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☒ Yes ☐ No ☐ N/A	☐ NaOH ☒ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: ☒ Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes ☐ No ☐ N/A	1-19% 1
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☒ No ☐ N/A	Positive for Res. ☐ Yes ☒ No
Trip Blank Present?	☒ Yes ☐ No ☐ N/A	Chlorine? ☐ Yes ☒ No
Trip Blank Custody Seals Present?	☒ Yes ☐ No ☐ N/A	13. ☒ See Exception
		14. Pace Trip Blank Lot # (if purchased): 199989

CLIENT NOTIFICATION/RESOLUTION

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

Comments/Resolution: _____

Project Manager Review:

Note: Whenever there is a discrepancy affecting N hold, incorrect preservative, out of temp, incorrect

JENNI GROSS

Date: **04/01/19**

3 samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of

Labeled by: **HT**

APPENDIX B

FIELD REPORTS / GROUNDWATER GAUGING & SAMPLING LOGS

	Monitor Well Gauging Log						FLD-102		
							Revision 0.0		
							Jul-08		
ATC Branch: Seattle, WA						Date: 3/26/2019		Page 1 of	
ATC Representative(s): LB/AD						Project: AOC02063 P66-Burner			
						Location: 12660 1 st Ave S Seattle, WA			
Contact Information:						Project No: 2076000070		Task No:	
206-781-1449						Weather: Sun / overcast		Temperature: 55°	
Water Level Meter Model/ID: EnviroTape						Interface Probe Model/ID:			

Well ID	Casing Diameter (inches) / Type	Time of Well Cap Removal*	Time of Gauging*	Depth To LNAPL (feet)	Depth To Water (feet)	LNAPL Thickness (feet)	Total Well Depth (feet)	Other (DTW, DO, ORP, Temp, etc)
GW-12D	2"	8:59	9:02	/	64.94	/	91.47	
GW-9D	2"	9:08	9:11	/	76.98	/	91.83	
GW-8S	2"	9:18	9:22	/	20.02	/	40.50	
GW-8D	2"	9:20	9:23	/	76.29	/	92.55	
GW-7D	2"	9:40	9:43	/	74.65	/	84.10	
GW-11D	2"	9:45	9:46	/	76.98	/	86.64	
GW-15D	2"	9:50	9:54 1000	/	52.60	/	74.40	cap under pressure
GW-15S	2"	9:51	9:52	/	32.69	/	45.00	
GW-16D	2"	0958	1002	/	77.64	/	86.50	
GW-16S	2"	1000	1005	/	42.69	/	50.60	
GW-17S	2"	1010	1014	/	48.00	/	50.60	
GW-17D	2"	1012	1017	/	77.15	/	86.40	
GW-10S	2"	1025	1027	/	20.90	/	38.95	
GW-10D	2"	1026	1028	/	77.75	/	93.10	
GW-18S	2"	1038	1041	/	Dry	/	50.00	silty residue on probe

Comments:

Notes:

- * If top of screen is submerged, allow at least 15 minutes for well equilibration following well cap removal.
- All measurements to be reported to nearest 0.01 ft.
- ID = Identification.
- LNAPL = Light Non-Aqueous Phase Liquid.
- Sheen = Discontinuous, non-measurable thickness of LNAPL (less than 0.01 ft).
- Trace = Continuous, non-measurable thickness of LNAPL.



Field Report

FLD-100

Revision 1.0

6/1/2016

Page 1 of 4

ATC Branch: Seattle - 10282

Date: 3/26/2019

ATC Representative(s):

L. Brown / A. Degeba

Project:

P66 - Broken

Role: Field Geologist

Location:

12660 1st Ave S., Seattle, WA

Contact Information: (206) 781-1449

Project No:

2026000070

Task No: --

Scope of Work:

Weather:

Partly Cloudy

Temperature:

~50°F

☒ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor:

NA

Time:

Comments:

0802:

ATC (L. Brown & A. Degeba) arrived at site and put on PPE / checked in w/ Sta. Mgr (John) confirming that it was ok to commence GWM work.

0810

Commenced JTM.

0835

JTM concluded and began setting up to perform well gauging activities.

8:50

MOB to Gw-9 & Gw-12 on 1st Ave. Set up exclusion zone using cones.

8:59

Measure PWT @ Gw-9

9:02

gauge Gw-12

9:15

MOB to gauge Gw-8S, Gw-8D

9:18

gauge Gw-8S

9:20

gauge Gw-8D

9:23

Load equipment in the van and MOB to the gas station site to resume gauging.

9:40

MOB to Gw-7 on the sidewalk of S 128th St

9:42

open well cap Gw-7

9:45

ATC observed another Environmental Consultant

DH-Environmental performing work at the SW-128th St & 1st Ave intersection (SW corner of intersection)

9:45

gauge Gw-7.

→ Had vac truck and poly tanks (2 x 300 gal) on site + 4 x personnel

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 3/26/2019

Page 2 of 4

ATC Representative(s): L. Brown / A. Degeta

Project: P66 - Burien

Role: Field Geologist

Location: 1266 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No: --

Scope of Work:

Weather: Overcast

Temperature:

☒ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor:

Time:

Comments:

9:46 Mob to GW 15S & GW 15D, set up exclusion zone using 3 cones

9:50 Open GW 15D, pressure buildup observed as new cap open. Set it to equilibrate.

9:51 Open GW-15S no pressure.

0958 L. Brown / A. Degeta switch rolls (A. Degeta performing well gauging & L. Brown spotting traffic)

1002 Gauged GW-16D

1005 Gauged GW-16S

* Observed that northern pump island in pump complex at W side of Sta. property was closed-down/wrapped in caution tape.

1022 Setting up to gauge GW-10S & 10D.

1027 Gauged GW-10S

1028 Gauged GW-10D

1035 Setup to gauge GW-18S & 18D

1056 Returned to GW-15D to re-gauge (well was found to be under pressure and WL was rising/equilibrating)

1104 Setup to gauge GW-13S & 13D

1121 Setup to gauge GW-14S & 14D Had completed gauging of GW-13S & 13D

1135 Completed gauging activities

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 3/26/2019

Page 3 of 4

ATC Representative(s):

Project: P66 - Broken

Role: Field Geologist

Location: 12660 1st Ave S, Seattle WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No: --

Scope of Work:

Weather: Overcast

Temperature:

☐ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor: X

Time:

Comments:

1148 ATC personnel took lunch. + L. Brown call to E. Silver to discuss project details

1254 ATC returned to work, setting up to sample at GW-11

1330 Set up exclusion zone around GW-11

1340 Start purging GW-11D

1400 Collected sample GW-11D.

1425 Empties ~ 7-gal combined purge/storm H₂O into a nearby placed 55-gal open-top steel drum located in Sta. trash enclosure.

1430 SME started working on the gas pump on the east side of the station

1440 Mob to GW-7D and set up exclusion zone

1450 Set up pump & tubing

1454 Start purge GW-7D

1504 Parameter stable, start reading YSI log.

1507 pump start stopping on / off irregularly
ATC Control from cycle manually

1525 parameter stable start sampling GW-7D

1550 Done sampling GW-7D, start deconning.

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 03-26-19

Page 4 of 4

ATC Representative(s):

LB/AD

Project: A0C02063 - P66 Burien

Role: Field Geologist

Location: 12666 1st Ave S Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No: --

Scope of Work:

Weather: Sun

Temperature: 55°

☐ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor: X

Time:

Comments:

1555 MOB to GW-13D, Setup exclusion zone
16:15 Set up pump & tubing @ 77.50 intake depth
16:19 Start purging GW-13D
1642 Parameters stable, start sampling GW-13D
1650 finished sampling
1700 Start deconing equipment
1710 Dump 4 gal of purge water into a
drum, Drum now contains 11 gal &
9 purge water from today's sampling
1720 Mob leave site, end of activity

END

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:

HEALTH AND SAFETY PLAN (HASP)

Tailgate Safety Meeting Form

Site Name & Number: P66 - Burien
 ATC Project Number: 20760000
 Work Being Performed: Groundwater Monitoring
 Date & Time of Meeting: 3/26/2019 0810
 Name of Presenter: L. Brown

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Safety Meeting. This inspection should include a review of project site equipment, hazards, specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Safety Meeting. For subsequent days, any changes to the site or operations must be covered in the Tailgate Safety Meeting. In addition, "Task-Specific" Job Safety Analysis (JSA) for the tasks/activities at the project site must be integrated into the HASP and Tailgate discussions. Tailgate Meetings should be performed each day. Employees, client representatives and subcontractors must review the Tailgate Safety Meeting, be briefed on the topics and acknowledge the HSE topics by signing this form. Individuals not fluent in the English language must have the site's health safety and environmental requirements translated to them.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

☒ Emergency Evacuation area(s) NW corner of gas station ☒ Eye Wash / First Aid Kit / Fire Extinguisher ☒ HASP Location ☒ Hospital Route

5 KEY SAFETY CONCEPTS - Both E & F

☒ How is everyone feeling? (Get a response) Is everyone Rested & Mentally alert? FOCUS IS KEY to staying injury free.

☒ Watch out for & Coach your Coworkers (COMMUNICATE HAZARDS when recognized).

☒ No Improvising – Use the proper tool for the job (Stop and Discuss ANY variance with ATC)

☒ No Willful Unsafe Acts – Enjoy the day, but no horseplay or anything unsafe.

☒ Everyone has STOP WORK authority – USE IT whenever people aren't focused, for all near-misses and hazards.

☒ PPE is required at all times within Exclusion zone (Set the example, call out non-compliance/stop work). ☒ Proper PPE? (check) Level D

☒ 50 lbs. or awkward, get lifting help. ☒ Eating, Drinking and use of Cell Phones in Designated Area Only.

☒ Spotters Needed for Backing Equipment. ☐ We will follow the Safe Work Plan for the work and initial each page. Major changes will need official approvals through Mark Wallinga and Jen Williams. ☒ Use 3 part communication as we work today. *(You will do what, I will do X, and together we will complete task SWP)

☒ Caution crossing street (Use crosswalks - HAZARDS ARE HIGH). ☒ Today's Weather Partly Cloudy 50°-60°F, Drink Fluids!

☒ Caution dealing with public (Irate/unstable pedestrians, customers, locals. Be aware, be courteous, don't antagonize).

☒ Keep Emotions in check. Communicate, Take Breaks when stressed, pushed, tired, not focused! (5 minute break or job shut down?)

☒ Maintain Housekeeping ☒ No FOBKs (What else? Are there other items we haven't considered?)

☒ Subcontractor – Discuss scope of work, JSA, Daily Tasks (What are we doing? What are the Hazards? What could go wrong?)

☒ JSA Reviewed? ☐ Changes to task? Get approval first. Use the GO-CARD. Contact supervisor if solutions are clear.

☒ Headcount? 2 (First time employees onsite [Sign HASP, PPE check, discuss site specifics and client expectations]).

☐ Any Shared Learning? (Site's SIRs/Hazards) ☒ Equipment Inspections ☒ Communication & Focus is Key.

☐ Everyone needs to sign the following documents: HASP, JSA and Tailgate Safety Meeting Form. ☐ Recognition to employees –if you see something, say something!

☒ **Client Requirements** - By checking the box to the left, the presenter of the Tailgate Meeting acknowledges that all client-specific requirements have been completed for both ATC and Subcontractor employees.

By signing this Tailgate Safety Meeting form, you are acknowledging that you have read, reviewed and understand the health and safety topics discussed on this form.

*List the JSAs reviewed below. *Was the Go Card used? *What extra hazards are present on this site on this day?

JSA: > <u>Site Set up</u>	> <u>Opening / Closing Well Vaults</u>	
	> <u>Backfilling a Well</u>	

Daily Safety Tailgate Meeting Participants (Use the back of this form if needed)

Print Name	Signature	Company	Date
<u>Larry Brown</u>	<u>[Signature]</u>	<u>ATC</u>	<u>3/26/19</u>
<u>A. Jaga fa</u>	<u>[Signature]</u>	<u>ATC</u>	<u>3/26/19</u>



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 3/27/19

Page 1 of 3

ATC Representative(s):

L. Brown/A. Degata

Project:

ADC02063 P66-Burien

Role: Field Geologist

Location:

12660 1st Ave S Seattle, WA

Contact Information: (206) 781-1449

Project No:

2076000070

Task No: --

Scope of Work:

Weather:

Overcast

Temperature:

50°

☐ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor:

Time:

Comments:

0810

L. Brown/A. Degata arrived at site (Smoky's restaurant project) and began Prep to perform GWM activities

0831

Completed DTM and began setting up to sample GW-8D

9:02

start purging GW-8D

9:20

parameters stable, start sampling GW-8D

9:35

Done sampling GW-8D

9:50

Decon equipment and move to Gw85

9:55

start purging GW-85

10:12

start sampling GW-85

10:30

Done sampling GW-85

10:35

Decon equipment plan to go to the gas station across S-128th street

10:45

set up exclusion zone at Gw 15D

10:50

set up tubing at Gw-15D

10:59

start purging Gw15D

11:03

pump start turning off by its own.

11:10

ATC contacted Geotek for a fix after attempting to fix it. Geotek advised to change the display batteries.

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 03-27-19

Page 2 of 3

ATC Representative(s): A.B / A.D

Project: A0C02063 PGG - Burien

Role: Field Geologist

Location: 12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No: --

Scope of Work:

Weather: Overcast

Temperature: 60°

☒ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor:

Time:	Comments:
1112	Start purging GW-15D
1130	parameters stable, start sampling
11:40	finished sampling GW-15D
12:10	Decon equipment, collect cones, ATC break for lunch.
12:45	ATC back from lunch break, change batteries for the display unit of the pump
1300	Mob to GW-16D
1310	Set up exclusion zone and tubing at GW 16D
1314	Start purging GW-16D
1332	parameters stable, start sampling GW-16D
1345	finalized sampling GW-16D
1350	Remove exclusion zone, mob to GW 17D
1400	setup tubing exclusion zone & tubing @ GW-17D
1405	Start purging GW-17D
1422	parameters stable at GW 17D, start sampling
1433	finalized sampling GW-17D
1440	Remove exclusion zone mob to GW-18D
1445	Set up exclusion zone @ GW-18D

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 03-27-19

Page 3 of 3

ATC Representative(s): LB / AD

Project: AUC02063 P66-Burien

Role: Field Geologist

Location: 12660 1st Ave S Seattle WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No: --

Scope of Work:

Weather: Overcast

Temperature: 60°

☒ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor: X

Time:

Comments:

1500	Set up tubing & pump @ Gw 18D
1506	start purging Gw 18D
1516	Start taking parameter reading @ y5I
1524	Parameter stable, start sampling @ Gw 18D
1538	Finalized sampling Gw 18D
1542	Decom equipment and remove exclusion zone
1550	Mob to Gw 10D
1555	set up exclusion zone
1600	Set up tubing & pump @ Gw-10D
1611	Start purging Gw-10D
1628	Parameters stable, start sampling Gw-10D
1640	finalized sampling Gw-10D
1645	Remove tubing from Gw-10D
1650	Decom equipment, set up tubing at Gw 10S
1706	Start purging Gw-10S
1716	Start reading parameter at y5B

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:

HEALTH AND SAFETY PLAN (HASP)

Tailgate Safety Meeting Form

Site Name & Number: 766 - Broken

ATC Project Number: 2076000070

Work Being Performed: Groundwater Monitoring

Date & Time of Meeting: 3/27/2019 0815

Name of Presenter: L. Brown

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Safety Meeting. This inspection should include a review of project site equipment, hazards, specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Safety Meeting. For subsequent days, any changes to the site or operations must be covered in the Tailgate Safety Meeting. In addition, "Task-Specific" Job Safety Analysis (JSA) for the tasks/activities at the project site must be integrated into the HASP and Tailgate discussions. Tailgate Meetings should be performed each day. Employees, client representatives and subcontractors must review the Tailgate Safety Meeting, be briefed on the topics and acknowledge the HSE topics by signing this form. Individuals not fluent in the English language must have the site's health safety and environmental requirements translated to them.

Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- ☒ Emergency Evacuation area(s) ☒ Eye Wash / First Aid Kit / Fire Extinguisher ☒ HASP Location ☒ Hospital Route
- Smoky's property = SW property corner / Chris Station property = NW site corner
- 5 KEY SAFETY CONCEPTS - Fit**
- ☒ How is everyone feeling? (Get a response) Is everyone Rested & Mentally alert? FOCUS IS KEY to staying injury free.
 - ☒ Watch out for & Coach your Coworkers (COMMUNICATE HAZARDS when recognized).
 - ☒ No Improvising - Use the proper tool for the job (Stop and Discuss ANY variance with ATC)
 - ☒ No Willful Unsafe Acts - Enjoy the day, but no horseplay or anything unsafe.
 - ☒ Everyone has STOP WORK authority - USE IT whenever people aren't focused, for all near-misses and hazards.
 - ☒ PPE is required at all times within Exclusion zone (Set the example, call out non-compliance/stop work). ☒ Proper PPE? (check)
 - ☒ 50 lbs. or awkward, get lifting help. ☒ Eating, Drinking and use of Cell Phones in Designated Area Only. Level D
 - ☒ Spotters Needed for Backing Equipment. ☐ We will follow the Safe Work Plan for the work and initial each page. Major changes will need official approvals through Mark Wallinga and Jenn Williams. ☐ Use 3 part communication as we work today 45° - 65° F
 - ☒ Caution crossing street (Use crosswalks - HAZARDS ARE HIGH). ☒ Today's Weather Clear Sunny, Drink Fluids!
 - ☒ Caution dealing with public (Irate/unstable pedestrians, customers, locals. Be aware, be courteous, don't antagonize).
 - ☒ Keep Emotions in check. Communicate, Take Breaks when stressed, pushed, tired, not focused! (5 minute break or job shut down?)
 - ☒ Maintain Housekeeping ☒ No FOBKs (What else? Are there other items we haven't considered?)
 - ☐ Subcontractor - Discuss scope of work, JSA, Daily Tasks (What are we doing? What are the Hazards? What could go wrong?)
 - ☐ JSA Reviewed? ☐ Changes to task? Get approval first. Use the GO-CARD. Contact supervisor if solutions are clear.
 - ☒ Headcount? 2 (First time employees onsite [Sign HASP, PPE check, discuss site specifics and client expectations]).
 - ☒ Any Shared Learning? (Site's SIRs/Hazards) ☒ Equipment Inspections ☒ Communication & Focus is Key.
 - ☒ Everyone needs to sign the following documents: HASP, JSA and Tailgate Safety Meeting Form. ☒ Recognition to employees - if you see something, say something!

☒ **Client Requirements** - By checking the box to the left, the presenter of the Tailgate Meeting acknowledges that all client-specific requirements have been completed for both ATC and Subcontractor employees.

By signing this Tailgate Safety Meeting form, you are acknowledging that you have read, reviewed and understand the health and safety topics discussed on this form.

*List the JSAs reviewed below. *Was the Go Card used? *What extra hazards are present on this site on this day?

JSA:7	<u>Opening / Closing a Well</u>	<u>Work</u>	<u>Sampling at Well</u>
	<u>Drilling</u>		
Daily Safety Tailgate Meeting Participants (Use the back of this form if needed)			
Print Name	Signature	Company	Date
<u>Larry Brown</u>	<u>[Signature]</u>	<u>ATC</u>	<u>3/27/19</u>
<u>Matthew Degeta</u>	<u>[Signature]</u>	<u>ATC</u>	<u>3/27/19</u>



Field Report

FLD-100

Revision 1.0

6/1/2016

ATC Branch: Seattle - 10282

Date: 3/28/2019

Page 1 of 2

ATC Representative(s):

L. Brown / A. Degeba

Project:

1266 - Brien

Role: Field Geologist

Location:

12660 1st Ave S. Seattle WA

Contact Information: (206) 781-1449

Project No:

2076000070

Task No:

Scope of Work:

Weather:

Partly Cloudy

Temperature:

~45°F

☒ Monitoring ☐ Assessment ☐ Remediation ☐ Closure

Contractor:

NA

Time:

Comments: ATC

0755 (L. Brown) arrived at site. Commenced Field Prep and put on PPE.

0809 ATC A. Degeba arrived at site. * Both ATC personnel met in Smokey's Restaurant parking lot.

0812 ATC commenced DTU.

0831 ATC completed DTU and began setting up to sample GW-9D.

* Observed that GW: DH Environmental west continuing work @ SW corner of intersection (1st Ave S / SW 128th St). Performing pilot test (dial phase extraction).

0920 Collected sample GW-9D * L. Brown performing traffic spotting / A. Degeba performing well sampling

1000 Setup to perform sampling at GW-12D.

1032 Collected sample GW-12D.

1045 Prepping to Mob to 76 Sta. property.

1058 Setting up to sample GW-15S

1140 Collected sample GW-15S.

1205 ATC personnel on lunch.

1302. ATC returned from lunch and began setting up to sample GW-16S. Observed that DH Env. had removed Vac truck from SW corner of intersection

Equipment Used:

Contractor Hours (per Person):

Staff / Technician Hours:

Mileage:

Copies To:

Project Manager:

Reviewed By:

HEALTH AND SAFETY PLAN (HASP)

Tailgate Safety Meeting Form

Site Name & Number: P66 - Buick
 ATC Project Number: 7076000070
 Work Being Performed: Geopointer Monitoring
 Date & Time of Meeting: 3/28/2019
 Name of Presenter: L. Brown

NOTE: On the initial day of the project, the Project Manager or designee should conduct a visual inspection of the project site prior to the Tailgate Safety Meeting. This inspection should include a review of project site equipment, hazards, specific job tasks, activities or operations to be performed for that day. These specific items must be covered during the Tailgate Safety Meeting. For subsequent days, any changes to the site or operations must be covered in the Tailgate Safety Meeting. In addition, "Task-Specific" Job Safety Analysis (JSA) for the tasks/activities at the project site must be integrated into the HASP and Tailgate discussions. Tailgate Meetings should be performed each day. Employees, client representatives and subcontractors must review the Tailgate Safety Meeting, be briefed on the topics and acknowledge the HSE topics by signing this form. Individuals not fluent in the English language must have the site's health safety and environmental requirements translated to them.

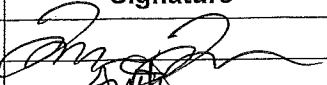
Itemize the Specific Topics Discussed (if more space is needed use the back of this page):

- ☒ Emergency Evacuation area(s) ☒ Eye Wash / First Aid Kit / Fire Extinguisher ☒ HASP Location ☒ Hospital Route
Swallow's Property - SW lot corner / 76 Sta Property NW corner of site.
5 KEY SAFETY CONCEPTS
☒ How is everyone feeling? (Get a response) Is everyone Rested & Mentally alert? FOCUS IS KEY to staying injury free.
☒ Watch out for & Coach your Coworkers (COMMUNICATE HAZARDS when recognized).
☒ No Improvising - Use the proper tool for the job (Stop and Discuss ANY variance with ATC)
☒ No Willful Unsafe Acts - Enjoy the day, but no horseplay or anything unsafe.
☒ Everyone has STOP WORK authority - USE IT whenever people aren't focused, for all near-misses and hazards.
☒ PPE is required at all times within Exclusion zone (Set the example, call out non-compliance/stop work). ☒ Proper PPE? (check)
☒ 50 lbs. or awkward, get lifting help. ☒ Eating, Drinking and use of Cell Phones in Designated Area Only. Level D.
☒ Spotters Needed for Backing Equipment. ☐ We will follow the Safe Work Plan for the work and initial each page. Major changes will need official approvals through Mark Wallinga and Jenn Williams. ☒ Use 3 part communication as we work today ~45-650 F
☒ Caution crossing street (Use crosswalks - HAZARDS ARE HIGH). ☒ Today's Weather Sunny, Drink Fluids!
☒ Caution dealing with public (Irate/unstable pedestrians, customers, locals. Be aware, be courteous, don't antagonize).
☒ Keep Emotions in check. Communicate, Take Breaks when stressed, pushed, tired, not focused! (5 minute break or job shut down?)
☒ Maintain Housekeeping. ☒ No FOBKs (What else? Are there other items we haven't considered?)
☒ Subcontractor Do Sub - Discuss scope of work, JSA, Daily Tasks (What are we doing? What are the Hazards? What could go wrong?)
☒ JSA Reviewed? ☐ Changes to task? Get approval first. Use the GO-CARD. Contact supervisor if solutions are clear.
☒ Headcount? 2 (First time employees onsite [Sign HASP, PPE check, discuss site specifics and client expectations]).
☒ Any Shared Learning? (Site's SIRs/Hazards) ☒ Equipment Inspections ☒ Communication & Focus is Key.
☒ Everyone needs to sign the following documents: HASP, JSA and Tailgate Safety Meeting Form. ☒ Recognition to employees - if you see something, say something!

☒ **Client Requirements** - By checking the box to the left, the presenter of the Tailgate Meeting acknowledges that all client-specific requirements have been completed for both ATC and Subcontractor employees.

By signing this Tailgate Safety Meeting form, you are acknowledging that you have read, reviewed and understand the health and safety topics discussed on this form.

*List the JSAs reviewed below. *Was the Go Card used? *What extra hazards are present on this site on this day?

JSA: <u>Sampling a Well</u>			
<u>Accessing a Cased Drm.</u>			
Daily Safety Tailgate Meeting Participants (Use the back of this form if needed)			
Print Name	Signature	Company	Date
Larry Brown		ATC	3/28/19
Angela Dizek		ATC	03-28-19



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-26-19

Page 1 of 1

ATC Representative(s):

LB / AD

Project: AOC02063 - P66 Burién

Location: 12660 1st Ave S Burien, WA

Contact Information: (206) 781-1449

Project No: 207600070

Task No:

Well ID:

GW-7D

Weather: Sun

Temperature: 59°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 77Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 88

Depth to Water (DTW)(feet): 74.65

Water Column (WC)(feet): 13.35

LNAPL Thickness (ft):

Purging Start Time: 14:54

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
15:04	74.70	0.70	14.57	349	Clear	4.62	7.75	62.6	—
15:07	74.70	1.0	14.35	352		4.99	7.76	64.8	—
15:11	74.72	1.15	14.66	356		5.18	7.76	71.6	—
15:21	74.72	1.35	14.62	357		5.12	7.79	66.7	—
15:23	74.70	1.50	14.46	358		5.06	7.80	68.3	—

Sample Data

Sample ID: GW-7D	Time of Sample: 1525	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:		NO	HCl	Gx, VOCs
6-40ml VOAs		NO/Lab Filtered	HNO3	Pb, Dissolved Pb
2-250ml PE				

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM):
Recovery Type: ☐ Fast ☐ Slow	% Recovery =

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

* Pump irregularly on/off by its own, manually control pump cycle.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date:

3/27/19

Page of

ATC Representative(s):

Project:

A0602063 P66 - Burien

Location:

12660 1st Ave S Seattle, WA 98148

Contact Information: (206) 781-1449

Project No:

07600070

Task No:

Well ID:

GW-85

Weather:

Sun

Temperature:

55°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump ☐ Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 22Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing ☐ Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet):

Depth to Water (DTW)(feet):

Water Column (WC)(feet):

LNAPL Thickness (ft):

Purging Start Time:

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
10:05	19.90	0.3	13.10	340	Clear	5.57	6.64	138.2	✓
10:08	19.97	0.5	13.24	340		5.97	6.65	131.0	✓
10:11	20.05	0.8	13.25	343		5.96	6.64	125.9	✓

Sample Data

Sample ID: GW-85	Time of Sample: 10:12	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 175 ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

	Monitoring Well Purging and Sampling Log		FLD-103						
			Revision 1.0						
			Jul-08						
ATC Branch: Seattle - 10282		Date: <u>3/27/19</u>		Page <u>1</u> of <u>1</u>					
ATC Representative(s): <u>LB/AD</u>		Project: <u>AOC 02063 P66 - Burien</u>							
		Location: <u>12660 1st Ave S, Seattle, WA</u>							
Contact Information: (206) 781-1449		Project No:		Task No:					
Well ID: <u>GW-8D</u>									
		Weather: <u>Sun</u>		Temperature: <u>45°</u>					
Purging & Sampling Instrumentation & Method									
Water Level Meter (Model/ID): Envirotape		Interface Probe (Model/ID): NA							
Water Quality Meter (Model/ID): YSI 556 MPS		Decontamination Method: Alconox/DI Water							
Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐									
3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) <u>78'</u>									
Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: <u>bladder pump</u>									
Casing Volume Information		Purging Calculations							
Casing Diameter (Circle): <u>2"</u> 4" 6" Other		Casing Volumes (CV):							
Casing Multiplier (CM)(gallons/foot): <u>0.16</u> 0.65 1.47		WC <u> </u> x CM <u> </u> = <u> </u> (CV)(gal) x 3.0 CV (gal) = <u> </u> PV							
Monitoring Measurements									
Depth to LNAPL (feet): <u> </u>		Total Well Depth (feet): <u>95</u>							
Depth to Water (DTW)(feet): <u>76.29</u>		Water Column (WC)(feet): <u>18.71</u>							
LNAPL Thickness (ft): <u> </u>		Purging Start Time: <u>9:02</u>							
Purging Data									
Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
9:12	76.10	0.2	12.78	627	Clear	2.82	7.19	182.5	✓
9:15	76.10	0.5	12.85	641		2.49	7.19	178.2	
9:17	76.10	0.8	12.94	648		2.36	7.19	175.3	
9:20	76.12	1.0	12.95	655		2.26	7.19	171.6	
Sample Data									
Sample ID: <u>GW-8D</u>		Time of Sample: <u>9:20</u>		Filtered (yes/no)		Preservatives		Analytical Parameters	
Container Types, Volumes, & Quantities:				NO		HCl		Gx, VOCs	
6-40ml VOAs				NO/Lab Filtered		HNO3		Pb, Dissolved Pb	
2-250ml PE									
Well Recovery Data									
Maximum Drawdown (DTWm)(feet):				Approximate Flow Rate (GPM): <u>175 ml/min</u>					
Recovery Type: ☒ Fast ☐ Slow				% Recovery = <u>100%</u>					
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments:									



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle, WA

Date: 03-28-19

Page of

ATC Representative(s):

LB/AD

Project: AOC02063 1366 - Buxien

Location: 12660 1st Ave S, Seattle, WA

Contact Information: 206-781-1449

Project No: 2076000070

Task No:

Well ID:

GW-9D

Weather: overcast

Temperature: 55°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☒ Peristaltic Pump Other: ☐3 Well Volumes ☒ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Casing Diameter (Circle): 2" 4" 6" Other

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Purging Calculations

Casing Volumes (CV):

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 95

Depth to Water (DTW)(feet): 76.98

Water Column (WC)(feet): 18.02

LNAPL Thickness (ft):

Purging Start Time: 9:00

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
9:10	77.14	0.3	13.65	318	clear	4.83	6.99	101.1	—
9:13	77.14	0.5	13.73	320		4.66	6.99	99.1	—
13:16	77.20	0.8	13.82	321		4.40	7.00	95.7	—

Sample Data

Sample ID: GW-9D Time of Sample: 9:20

Filtered (yes/no)	Preservative	Analytical Parameters

Container Types, Volumes, & Quantities:

Well Recovery Data

Maximum Drawdown (DTWm)(feet):

Approximate Flow Rate (GPM): 200 ml/min

Recovery Type: ☐ Fast ☐ Slow

% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: no odor / no skin

	Monitoring Well Purging and Sampling Log		FLD-103						
			Revision 1.0						
			Jul-08						
ATC Branch: Seattle, WA		Date: 03/27/19		Page of					
ATC Representative(s): LB/AD		Project: ADL02063 - P66 Borden							
Contact Information: (206) 781-1449		Location: 12660 1st Aves Seattle, WA							
Well ID: GW-105		Project No: 2076000070		Task No: 7601					
		Weather: Overcast		Temperature: 60°					
Purging & Sampling Instrumentation & Method									
Water Level Meter (Model/ID): Envirotape		Interface Probe (Model/ID): NA							
Water Quality Meter (Model/ID): YSI 556 MPS		Decontamination Method: Alconox/DI Water							
Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐									
3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) 23.0									
Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump									
Casing Volume Information			Purging Calculations						
Casing Diameter (Circle): 2" 4" 6" Other			Casing Volumes (CV):						
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47			WC x CM = (CV)(gal) x 3.0 CV (gal) = PV						
Monitoring Measurements									
Depth to LNAPL (feet):		Total Well Depth (feet): 40.0							
Depth to Water (DTW)(feet): 20.90		Water Column (WC)(feet): 19.10							
LNAPL Thickness (ft):		Purging Start Time: 1706							
Purging Data									
Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1716	20.92	0.5	14.63	129	Clear	5.84	6.58	136.6	✓
1719	20.92	0.7	14.63	130		5.76	6.58	136.8	✓
1722	20.95	1.0	14.62	130		5.75	6.57	137.2	✓
Sample Data									
Sample ID: GW-105		Time of Sample: 17.22		Filtered (yes/no)	Preservatives	Analytical Parameters			
Container Types, Volumes, & Quantities:				NO	HCl	Gx, VOCs			
6-40ml VOAs				NO/Lab Filtered	HNO3	Pb, Dissolved Pb			
2-250ml PE									
Well Recovery Data									
Maximum Drawdown (DTWm)(feet):		Approximate Flow Rate (GPM): 200 ml/min							
Recovery Type: ☒ Fast ☐ Slow		% Recovery = 100%							
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments:									



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-27-19

Page of

ATC Representative(s):

LB / AD

Project: AOC 02063 - P66 Burien

Location: 12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID:

GW-10D

Weather: Overcast

Temperature: 63°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 7.9'Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 95

Depth to Water (DTW)(feet): 77.75

Water Column (WC)(feet): 17.25

LNAPL Thickness (ft):

Purging Start Time: 16:11

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
16:21	77.55	0.4	14.43	215	Clear	8.39	7.42	96.9	—
16:23	77.60	0.7	14.35	216		8.67	7.36	96.3	
16:25	77.70	1.0	14.31	218		8.58	7.32	97.0	

Sample Data

Sample ID: GW-10D	Time of Sample: 16:28	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTW _m)(feet):	Approximate Flow Rate (GPM): 250 ml / min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-26-19

Page 1 of 1

ATC Representative(s):

L. Brown / A. Degefa

Project: AOC-02063 P66 - Burien

Location: 12660 1st Aves, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID: GW-11D

Weather: SUN

Temperature: 55°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 79Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet):

Depth to Water (DTW)(feet): 76.98

Water Column (WC)(feet):

LNAPL Thickness (ft):

Purging Start Time: 1340

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1350	77.05	1.50	14.79	260	Cloudy	6.00	6.99	139.3	—
1353	77.09	1.85	14.78	263		6.00	6.99	138.4	—
1356	77.05	2.5	14.77	264		6.07	6.99	137.7	—

Sample Data

Sample ID: GW-11D	Time of Sample: 14:00	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):

Approximate Flow Rate (GPM): 250 ml/min

Recovery Type: ☒ Fast ☐ Slow

% Recovery = Fast 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments: No skin / odor



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle, WA

Date: 03-28-19

Page of

ATC Representative(s):

LB/AD

Project: A0002063 P66-Burien

Location: 12600 1st Ave S, Burien, WA

Contact Information: 206-781-1449

Project No: 2076000070

Task No:

Well ID:

GW-12D

Weather: Sun

Temperature: 55°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☒ Peristaltic Pump Other: ☐3 Well Volumes ☒ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 69'Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Casing Diameter (Circle): 12" 4" 6" Other

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Purging Calculations

Casing Volumes (CV):

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 95

Depth to Water (DTW)(feet): 64.94

Water Column (WC)(feet): 30.06

LNAPL Thickness (ft):

Purging Start Time: 10:12

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
10:22	85.06	0.2	13.23	285	turbid	5.30	7.18	109.0	—
10:25	85.06	0.4	13.27	288	turbid	5.59	7.17	103.5	—
10:28	85.05	0.6	13.31	290	" "	5.73	7.17	115.7	—

Sample Data

Sample ID: GW-12D

Time of Sample: 10:32

Filtered
(yes/no)

Preservative

Analytical Parameters

Container Types, Volumes, & Quantities:

Well Recovery Data

Maximum Drawdown (DTWm)(feet):

Approximate Flow Rate (GPM): 180 gpm/min

Recovery Type: ☒ Fast ☐ Slow

% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

No add-on / no skin



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle, WA

Date:

03-28-19

Page

1 of 2

ATC Representative(s):

LB/AD

Project:

AOC 02063 P66 - Burien

Location:

12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No:

2076000070

Task No: 7601

Well ID:

GW-135

Weather: Sun

Temperature:

63°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 34.50Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet):

50.0

Depth to Water (DTW)(feet):

32.70

Water Column (WC)(feet):

17.30

LNAPL Thickness (ft):

Purging Start Time:

1641

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1651	35.60	0.3	14.72	347	Turbid	3.14	7.26	78.4	✓
1654	35.62	0.6	14.72	347	Turbid	3.26	7.23	58.3	✓
1657	35.70	0.9	14.73	346	Turbid	3.59	7.19	26.0	✓
1700	35.70	1.2	14.70	345	clear	3.66	7.16	-6.9	✓
1703	35.76	1.5	14.70	344	clear	3.51	7.14	-20.1	✓

Sample Data

Sample ID: GW-135	Time of Sample: 17:10	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:		NO	HCl	Gx, VOCs
6-40ml VOAs		NO/Lab Filtered	HNO3	Pb, Dissolved Pb
2-250ml PE				

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM):
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

Very slight petroleum odor, no skin



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-26-19

Page 1 of 1

ATC Representative(s):

LB/AD

Project: A002063 PGG-Burien

Location: 12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID:

GW-13D

Weather: Sun

Temperature: 60°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump ☐ Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 77.50Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☐ Dedicated Tubing ☐ Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 85.00

Depth to Water (DTW)(feet): 75.34

Water Column (WC)(feet): 9.66

LNAPL Thickness (ft):

Purging Start Time: 16:19

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
16:29	75.36		14.38	419	Clear	5.73	7.51	142.6	
16:32	75.34		14.25	419		5.57	7.51	128.8	
16:35	75.32		14.10	419		5.61	7.50	116.9	
16:38	75.35		14.05	419		5.57	7.50	110.9	
16:41	75.35		14.02	419		5.53	7.50	107.5	

Sample Data

Sample ID: GW-13D	Time of Sample: 1642	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 200ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

No smell / Skin.



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-28-19

Page of

ATC Representative(s):

LB / AD

Project: A0102063 P66-Burien

Location: 12660 1st Ave S Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID:

GW-145

Weather: Sun

Temperature: 62°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 40.5Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☐ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot) 0.16 0.65 1.47

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 50.00

Depth to Water (DTW)(feet): 38.82

Water Column (WC)(feet): 11.18

LNAPL Thickness (ft):

Purging Start Time: 17:52

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
18:02	39.86	0.5	15.32	334	Smokey	2.71	7.54	-115.8	✓
18:05	39.88	0.8	15.54	333		2.99	7.53	-118.3	✓
18:08	39.29	1.2	15.56	332		3.07	7.52	-117.5	✓

Sample Data

Sample ID: GW-145	Time of Sample: 18:10	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 220 ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

Moderate Petroleum Odor / No skin



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-28-19

Page of

ATC Representative(s):

EB/AD

Project: A0102063 - P66 Burien

Location: 12660 1st Ave S Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070 Task No:

Well ID:

GW-14D

Weather: SUN

Temperature: 63°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 78Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Casing Diameter (Circle): 2" 4" 6" Other

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Purging Calculations

Casing Volumes (CV):

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 80.0

Depth to Water (DTW)(feet): 76.12

Water Column (WC)(feet): 3.88

LNAPL Thickness (ft):

Purging Start Time: 15:36

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1546	76.20	0.3	15.28	681	Turbid	2.87	7.30	26.6	✓
1549	76.20	0.5	15.17	674		2.66	7.32	21.7	✓
1552	76.20	0.7	15.06	671		2.59	7.34	18.8	✓
1255	76.22	1.0	14.82	671		2.86	7.35	12.2	✓

Sample Data

Sample ID: GW-14D	Time of Sample: 16:00	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 150 ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle, WA

Date: 03-28-19

Page of

ATC Representative(s):

LB/AD

Project: A0C02063 P66-Burien

Location: 12660 1st Ave S, Seattle, WA

Contact Information: 206-781-1449

Project No: 2076000070

Task No:

Well ID:

GW-155

Weather: Sun

Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☒ Peristaltic Pump Other: ☐3 Well Volumes ☒ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 34.50Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Casing Diameter (Circle): 2" 4" 6" Other

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Purging Calculations

Casing Volumes (CV):

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 45.00

Depth to Water (DTW)(feet): 32.69

Water Column (WC)(feet): 12.31

LNAPL Thickness (ft):

Purging Start Time: 11:18

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1128	33.30	0.3	14.83	855	Clear	7.24	7.03	68.9	
1131	33.38	0.5	14.78	867		7.00	7.06	55.0	
1134	33.48	0.8	14.85	869		6.92	7.08	40.4	
1137	33.55	1.2	14.82	854		6.50	7.10	34.5	

Sample Data

Sample ID: GW-155 Time of Sample: 1140

Filtered (yes/no)	Preservative	Analytical Parameters

Container Types, Volumes, & Quantities:

Well Recovery Data

Maximum Drawdown (DTWm)(feet):

Approximate Flow Rate (GPM): 315 ml/min

Recovery Type: ☒ Fast ☐ Slow

% Recovery = Adjusted to 215 @ 1130

Purge Water Disposition (Attach Drum Inventory Log - FLD 108): 100%

Comments:

No odor / No skin



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-26-19

Page of

ATC Representative(s):

LB / AD

Project: AOC 02063 P66 - Burien

Location: 12660 1st Ave S Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID:

GW-15D

Weather: SUN

Temperature:

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump ☐ Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) 56'Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing ☐ Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 75'

Depth to Water (DTW)(feet): 52.60

Water Column (WC)(feet): 22.40

LNAPL Thickness (ft):

Purging Start Time: 10:59 (AD) 11:12

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1122	53.12	0.4	14.34	356	Clear	3.02	7.11	50.6	—
1125	53.30	0.7	14.32	354		3.22	7.11	59.9	—
1128	53.35	1.0	14.30	350		3.25	7.10	68.2	—

Sample Data

Sample ID: GW-15D	Time of Sample: 1130	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTW_m)(feet):

Approximate Flow Rate (GPM): 20 GPM / min

Recovery Type: ☒ Fast ☐ Slow

% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

pump turn off for sampling, new purg start @ 11:12



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle, WA

Date: 03-28-19

Page of

ATC Representative(s):

Project: Acc 02063 - p66 Bvlien

Location: 12260 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No: 7601

Well ID:

GW-16S

Weather: Sun

Temperature: 62°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) 44.50Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 50.00

Depth to Water (DTW)(feet): 46.69

Water Column (WC)(feet): 3.31

LNAPL Thickness (ft):

Purging Start Time: 13:26

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
13:36	43.10	0.1	14.72	443	clear	3.17	6.83	103.0	—
1339	43.20	0.2	14.70	441		3.11	6.82	102.8	—
1342	43.35	0.3	14.66	440		3.11	6.81	103.2	—
1345	43.40	0.4	14.69	439		3.17	6.81	103.7	—

Sample Data

Sample ID: GW-16S	Time of Sample: 13:50	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 100 ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery =

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

NO odor / NO skin



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-27-19

Page of

ATC Representative(s):

LB/AD

Project:

A0602063 P66-Buizen

Location:

12660 1st Ave S Seattle, WA

Contact Information: (206) 781-1449

Project No:

2076 000070

Task No:

Well ID:

GW-16D

Weather:

Sun/overcast

Temperature:

59°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) 79.50Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Badder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet):

85

Depth to Water (DTW)(feet):

77.64

Water Column (WC)(feet):

LNAPL Thickness (ft):

Purging Start Time:

13:14

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
13:24	77.50	0.4	13.99	295	cloudy	5.96	7.03	118.3	
13:27	77.50	0.7	13.97	294	"	5.87	7.03	119.2	
13:30	77.48	1.3	13.99	293	"	6.15	7.03	119.8	
					"				
					"				

Sample Data

Sample ID: GW-16D	Time of Sample: 1332	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 200 ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-28-19

Page of

ATC Representative(s):

Project: A0602063 P66-Burien

Location: 12660 1st Ave Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID:

GW-175

Weather: SUN

Temperature: 62°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC x CM = (CV)(gal) x 3.0 CV (gal) = PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 50.00

Depth to Water (DTW)(feet): 47.50

Water Column (WC)(feet): 2.50

LNAPL Thickness (ft):

Purging Start Time: 1428

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1438	4805	0.2	15.32	2253		1.07	7.32	-51.7	—
1441	4802	0.4	15.37	2212		0.59	7.35	-45.5	—
1443	4822	0.6	15.43	2092		0.62	7.36	-40.00	—
1447	4834	0.8	15.46	2007		0.61	7.37	-36.0	—
1450	4839	1.0	15.50	1927		0.56	7.37	-32.2	—

Sample Data

Sample ID: GW-175

Time of Sample: 1455

Filtered
(yes/no)

Preservatives

Analytical Parameters

Container Types, Volumes, & Quantities:

6-40ml VOAs

NO

HCl

Gx, VOCs

2-250ml PE

NO/Lab
Filtered

HNO3

Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):

Approximate Flow Rate (GPM): 150 ml/min

Recovery Type: ☒ Fast ☐ Slow

% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

Very slight HC odor. No skin



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 3/27/2019

Page 1 of

ATC Representative(s): L. Brown/A. Degefa

Project: P66 - Brien

Location: 12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID: GW-17D

Weather: overcast

Temperature: 65°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump ☐ Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 79'Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing ☐ Other: Badden pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet):

Depth to Water (DTW)(feet):

Water Column (WC)(feet):

LNAPL Thickness (ft):

Purging Start Time: 1405

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1415	77.02	0.4	14.55	826	Turbid	6.07	7.26	135.1	—
1418	77.00	0.8	14.54	829	Turbid	5.77	7.26	130.4	—
1421	77.0	1.2	14.38	830	Turbid	5.44	7.25	125.5	—

Sample Data

Sample ID: GW-17D	Time of Sample: 14:22	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 200 ml/min
Recovery Type: ☐ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 3/26/19

Page 1 of 1

ATC Representative(s): LB/AD

Project: AOC 02063 T66-Burien

Location: 12660 1st Ave S. Seattle, WA

Contact Information: (206) 781-1449

Project No: 7076000070

Task No:

Well ID:

GW-18S

Weather: Sunny

Temperature: ~60°F

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump Other: ☐3 Well Volumes ☐ Low Flow ☐ Micro Purge ☐ Intake Depth (feet below TOC) ☐Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☐ Dedicated Tubing Other: ☐

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 50.00

Depth to Water (DTW)(feet): Dry

Water Column (WC)(feet): NA

LNAPL Thickness (ft):

Purging Start Time: NA

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
Well found dry.									
Not Sampled									

Sample Data

Sample ID: NA

Time of Sample: NA

Filtered
(yes/no)

Preservatives

Analytical Parameters

Container Types, Volumes, & Quantities:

6-40ml VOAs

NO

HCl

Gx, VOCs

2-250ml PE

NO/Lab
Filtered

HNO3

Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):

Approximate Flow Rate (GPM):

Recovery Type: ☐ Fast ☐ Slow

% Recovery =

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:



Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 03-27-19

Page of

ATC Representative(s):

LB / AD

Project: AOC02063 - P66 - Burien

Location: 12660 1st Ave S, Seattle, WA

Contact Information: (206) 781-1449

Project No: 2076000070

Task No:

Well ID:

GW-18D

Weather: Overcast

Temperature: 60°

Purging & Sampling Instrumentation & Method

Water Level Meter (Model/ID): Envirotape

Interface Probe (Model/ID): NA

Water Quality Meter (Model/ID): YSI 556 MPS

Decontamination Method: Alconox/DI Water

Purging Method: ☐ PVC Bailer ☐ Vacuum Truck ☐ Submersible Pump ☐ Peristaltic Pump ☐ Other: ☐3 Well Volumes ☐ Low Flow ☒ Micro Purge ☐ Intake Depth (feet below TOC) 78.50Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing ☐ Other: Bladder pump

Casing Volume Information

Purging Calculations

Casing Diameter (Circle): 2" 4" 6" Other

Casing Volumes (CV):

Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

WC ☐ x CM ☐ = ☐ (CV)(gal) x 3.0 CV (gal) = ☐ PV

Monitoring Measurements

Depth to LNAPL (feet):

Total Well Depth (feet): 80

Depth to Water (DTW)(feet): 76.50

Water Column (WC)(feet): 3.50

LNAPL Thickness (ft):

Purging Start Time: 1506

Purging Data

Time (24 Hours)	DTW (Feet)	Cum. Vol. Purged (Gallons)	Temp (°C) (± 1°)	Specific Cond. (uS/cm) (± 5%)	Turbidity NTU	Dissolved Oxygen (mg/L) (± 10%)	pH (± 0.1)	ORP (mV) (± 10 mV)	Other
1516	76.46	0.4	14.57	758	Cloudy	4.95	7.09	11.7	✓
1519	76.35	0.8	14.76	758		4.82	7.10	19.7	
1522	76.50	1.2	14.81	759		4.79	7.10	26.2	

Sample Data

Sample ID: GW-18D	Time of Sample: 1524	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTWm)(feet):	Approximate Flow Rate (GPM): 200 ml/min
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100%

Purge Water Disposition (Attach Drum Inventory Log - FLD 108):

Comments:

APPENDIX C

NON-HAZARDOUS WASTE DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C E S 6 6		Manifest Document No. PS		2. Page 1 of 1	
3. Generator's Name and Mailing Address: Phillips 66 - AOC 2063 12660 First Ave. South Burien WA 98168				SAME			
4. Generator's Phone (6 0 9) 2 2 4 - 3 2 0 8							
5. Transporter 1 Company Name WASTEXPRESS		6. US EPA ID Number ORQ 0 0 0 0 2 3 1 5 0		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 603 224*3206			
9. Designated Facility Name and Site Address ORRCO 4150 N. SUTTLE RD. PORTLAND OR 97217		10. US EPA ID Number ORD 9 8 0 9 7 5 6 9 2		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone 603 286*8362			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. Non-regulated material, Liquid, N.O.S., (IDW Water),							
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a.				a.			
b.				b.			
c.				c.			
d.				d.			
15. Special Handling Instructions and Additional Information a) ORR-D							
							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Elizabeth Silver				Signature <i>Elizabeth Silver</i>		Date 2/18/19	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space.							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name				Signature		Date	
						Month Day Year	

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C E S 0 8		Manifest Document No. PS 927		2. Page 1 of 1			
3. Generator's Name and Mailing Address Phillips 66 - AOC 2083 12660 First Ave. South Burien WA 98168				SAME					
4. Generator's Phone (5 0 3) 2 2 4 - 3 2 0 6				6. US EPA ID Number ORQ000023150					
5. Transporter 1 Company Name WASTEXPRESS				A. State Transporter's ID 881002					
				B. Transporter 1 Phone 503 224*3206					
7. Transporter 2 Company Name				C. State Transporter's ID					
				D. Transporter 2 Phone					
9. Designated Facility Name and Site Address ORRCO 4150 N. SUTTLE RD. PORTLAND OR 97217				10. US EPA ID Number ORD980975692					
				E. State Facility's ID					
				F. Facility's Phone 503 286*8362					
11. WASTE DESCRIPTION						Containers		13. Total Quantity	14. Unit Wt./Vol.
						No.	Type		
a. Non-regulated material, Liquid, N.O.S., (IDW:Water)						1	DM	55	G
b.									
c.									
d.									
G. Additional Descriptions for Materials Listed Above						H. Handling Codes for Wastes Listed Above			
a.						a.			
b.						b.			
c.						c.			
d.						d.			
15. Special Handling Instructions and Additional Information a) ORR-D 55 DM WXL									
									
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.									
Printed/Typed Name						Signature		Date	
						<i>[Signature]</i> on behalf of ATC Group		Month Day Year 2 12 19	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name						Signature		Date	
James Rogers						<i>[Signature]</i>		Month Day Year 2 12 19	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name						Signature		Date	
								Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.									
Printed/Typed Name						Signature		Date	
Chris Moore on behalf of IRM						<i>[Signature]</i>		Month Day Year 3 17 19	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY