



6347 Seaview Avenue Northwest
Seattle, Washington 98107
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**GROUNDWATER MONITORING REPORT
(Second Quarter 2022 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:
Mike Warfel
Washington State Department of Ecology
15700 Dayton Avenue North
Shoreline, Washington 98133**

**Submitted on behalf of:
Audrey Bonafede
Phillips 66 Company
Remediation Management
3900 Kilroy Airport Way, Suite 210
Long Beach, California 90806**

**Submitted by:
Atlas Technical Consultants
6347 Seaview Avenue Northwest
Seattle, Washington 98107**

**Atlas Project No. Z076000087
September 26, 2022**

A handwritten signature in black ink, appearing to read "Isabella A".

**Isabella Ancona
Staff Scientist**

A handwritten signature in black ink, appearing to read "Elisabeth Silver".

**Elisabeth Silver, LG
Senior Project Manager**



SITE INFORMATION:

Atlas Contact Person:	Elisabeth Silver, LG
Date of previous sampling event:	03/30-31/2022
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 06/27-30/2022:

Date(s) monitored and/or sampled:	06/27-30/2022
Wells monitored:	Eighteen: GW-8S, GW-8D, GW-10S, GW-10D, GW-11D, GW-13S, GW-13D, GW-14S, GW-14D, GW-14V, GW-15S, GW-15D, GW-16S, GW-16D, GW-17S, GW-17D, GWR-18S, and GWR-18D
Wells sampled:	Nine: GW-10D, GW-13S, GW-13D, GW-14S, GW-14D, GW-14V, GW-15S, GW-15D, and GWR-18D.
Purging method:	Wells were purged prior to sampling by 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 06/27-30/2022:

Minimum depth to groundwater (feet below top of casing [TOC]):	21.15 (GW-8S – shallow water bearing zone)
Maximum depth to groundwater (feet below TOC):	77.37 (GW-16D – deep water bearing zone)
Average groundwater elevation (feet):	376.87 (shallow water bearing zone – GW-8S, GW-10S, GW-13S, GW-14S, GW-15S, GW-16S, GW-17S, and GWR-18S); 341.12 (deep water bearing zone – GW-8D, GW-10D, GW-11D, GW-13D, GW-14D, GW-15D, GW-16D, GW-17D, and GWR-18D)
Change in average groundwater elevation since previous monitoring event (feet):	- 3.80 (shallow water bearing zone) +1.08 (deep water bearing zone)
Approximate groundwater gradient/flow direction:	0.150 feet per foot (ft./ft.) radially North, 0.330 ft./ft. Southwest toward well GWR-18S, and 0.698 ft./ft. East toward well GWR-18S (shallow water bearing zone); 0.021 ft./ft. radially East (deep water bearing zone)
Previous groundwater gradient/flow direction (03/30-31/2021):	0.416 ft./ft. East, 0.297 ft./ft. radially West, and 0.244 ft./ft. North (shallow water bearing zone); 0.051 ft./ft. radially North and 0.008 ft./ft. Southwest (deep water bearing zone)

GROUNDWATER CONDITIONS 06/27-30/2022:

Minimum dissolved phase gasoline-range hydrocarbon concentration excluding “non-detects” (micrograms per liter [µg/L]):	1,470 (GW-14D – deep water bearing zone)
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Maximum dissolved phase gasoline-range hydrocarbon concentration (µg/L):	<u>21,800 (GW-14S – shallow water bearing zone)</u>
Maximum dissolved phase gasoline-range hydrocarbon concentration (µg/L) observed previous sampling event (March, 2022):	<u>19,400 (GW-14S – shallow water bearing zone)</u>
Minimum dissolved phase benzene concentration excluding “non-detects” (micrograms per liter [µg/L]):	<u>0.10J (GW-15S – shallow water bearing zone)</u>
Maximum dissolved phase benzene concentration (µg/L): 5	<u>98 (GW-14D – deep water bearing zone)</u>
Maximum dissolved phase benzene concentration (µg/L) observed previous sampling event (March, 2022):	<u>327 (GW-14D – deep water bearing zone)</u>
Minimum dissolved phase toluene concentration excluding “non-detects” (micrograms per liter [µg/L]):	<u>0.12J (GW-14V – vertical delineation well)</u>
Maximum dissolved phase toluene concentration (µg/L):	<u>715 (GW-14S – shallow water bearing zone)</u>
Maximum dissolved phase toluene concentration (µg/L) observed previous sampling event (March, 2022):	<u>514 (GW-14S – shallow water bearing zone)</u>
Minimum dissolved phase ethylbenzene concentration excluding “non-detects” (micrograms per liter [µg/L]):	<u>0.11J (GW-15S – shallow water bearing zone)</u>
Maximum dissolved phase ethylbenzene concentration (µg/L):	<u>1,040 (GW-14S – shallow water bearing zone)</u>
Maximum dissolved phase ethylbenzene concentration (µg/L) observed previous sampling event (March, 2022):	<u>575 (GW-14S – shallow water bearing zone)</u>
Minimum dissolved phase total xylenes concentration excluding “non-detects” (µg/L):	<u>8.8J (GW-14D – deep water bearing zone)</u>
Maximum dissolved phase total xylenes concentration (µg/L):	<u>3,930 (GW-14S – shallow water bearing zone)</u>
Maximum dissolved phase total xylenes concentration (µg/L) observed previous sampling event (March, 2022):	<u>2,350 (GW-14S – shallow water bearing zone)</u>
Minimum total lead concentration excluding “non-detects” (µg/L):	<u>4.5J (GW-13D – deep water bearing zone)</u>
Maximum total lead concentration (µg/L):	<u>5.0J (GWR-18D – deep water bearing zone)</u>
Maximum total lead concentration (µg/L) observed previous sampling event (March, 2022):	<u>All wells sampled were “non-detect”</u>
Minimum dissolved lead concentration excluding “non-detects” (µg/L):	<u>2.7J (GW-14D – deep water bearing zone)</u>
Maximum dissolved lead concentration (µg/L):	<u>5.3J (GW-13D – deep water bearing zone)</u>
Maximum dissolved lead concentration (µg/L) observed previous sampling event (March, 2022):	<u>All wells sampled were “non-detect”</u>

ADDITIONAL INFORMATION AND COMMENTS:

Second Quarter 2022:

During the June 2022 groundwater monitoring and sampling event, 18 monitoring wells were monitored, including GW-8S, GW-8D, GW-10S, GW-10D, GW-11D, GW-13S, GW-13D, GW-14S, GW-14D, GW-14V, GW-15S, GW-15D, GW-16S, GW-16D, GW-17S, GW-17D, GWR-18S, and GWR-18D. Nine of the monitoring wells were sampled and analyzed, including GW-10D, GW-13S, GW-13D, GW-14S, GW-14D, GW-14V, GW-15S, GW-15D, and GWR-18D. Monitoring well GWR-18S did not have sufficient water to sample. Refer to the attached Table 1 for a summary of groundwater gauging and sampling data from the June 2022 event. Purge water and equipment decontamination water was collected in a 16-gallon drum and stored on site.

Shallow Water Bearing Zone:

Within the shallow water bearing zone, three wells were sampled during the June 2022 event. Gasoline-range hydrocarbons were detected above the Model Toxics Control Act (MTCA) Method A Cleanup Level (CUL) in GW-13S at a concentration of 2,710 µg/L and GW-14S at a concentration of 21,800 µg/L. Gasoline-range hydrocarbons were not detected in GW-15S. Benzene was detected above the MTCA Method A CUL in GW-13S at a concentration of 7.5 µg/L and in GW-14S at a concentration of 18.4 µg/L. Benzene was detected below the MTCA Method A CUL in GW-15S at a concentration of 0.10J µg/L. Toluene was detected below the MTCA Method A CUL in GW-13S at a concentration of 6.2 µg/L and GW-14S at a concentration of 715 µg/L. Toluene was not detected in GW-15S. Ethylbenzene was detected above the MTCA Method A CUL in GW-14S at a

concentration of 1,040 µg/L. Ethylbenzene was detected below the MTCA Method A CUL in GW-13S at a concentration of 61.8 µg/L and in GW-15S at a concentration of 0.11J µg/L. Total xylenes were detected above the MTCA Method A CUL in GW-14S at a concentration of 3,930 µg/L. Total xylenes were detected below the MTCA Method A CUL in GW-13S at a concentration of 95.2 µg/L. Total xylenes were not detected in GW-15S. Total lead and dissolved lead were not detected in any of the shallow water bearing zone wells sampled.

Deep Water Bearing Zone:

Within the deep water bearing zone, five wells were sampled during the June 2022 event. Gasoline-range hydrocarbons were detected above the MTCA Method A CUL in GW-14D at a concentration of 1,470 µg/L and in GWR-18D at a concentration of 2,640 µg/L. Gasoline-range hydrocarbons were not detected in any other deep water bearing zone wells sampled. Benzene was detected above the MTCA Method A CUL in GW-14D at a concentration of 598 µg/L and in GWR-18D at a concentration of 28.1 µg/L. Benzene was not detected in any other deep water bearing zone wells sampled. Toluene was detected below the MTCA Method A CUL in GW-14D at a concentration of 1.2J µg/L and in GWR-18D at a concentration of 0.92J µg/L. Toluene was not detected in any other deep water bearing zone wells sampled. Ethylbenzene was detected below the MTCA Method A CUL in GW-14D at a concentration of 21.1 µg/L and in GWR-18D at a concentration of 31.6 µg/L. Ethylbenzene was not detected in any other deep water bearing zone wells sampled. Total xylenes were detected below the MTCA Method A CUL in GW-14D at a concentration of 8.8J µg/L and GWR-18D at a concentration of 43.3 µg/L. Total xylenes were not detected in any other deep water bearing zone wells sampled. Total lead was detected below the MTCA Method A CUL in GW-13D at a concentration of 4.5J µg/L and in GWR-18D at a concentration of 5.0J µg/L. Total lead was not detected in any other deep water bearing zone wells sampled. Dissolved lead was detected below the MTCA Method A CUL in GW-13D, GW-14D, and GWR-18D at concentrations of 5.3J µg/L, 2.7J µg/L, and 4.7J µg/L, respectively. Dissolved lead was not detected in any other deep water bearing zone wells sampled.

Vertical Delineation Well:

In early May of 2022, monitoring well GW-14V was installed to a depth of 150 feet. The purpose of this well is to monitor the groundwater contamination that may be, or may become, present beyond the deep water bearing zone, where it is believed that a third water bearing zone is situated. Based on the analytical results, toluene was detected below the MTCA Method A CUL at a concentration of 0.12J µg/L. All other compounds, including gasoline-range hydrocarbons, benzene, ethylbenzene, total xylenes, total lead, and dissolved lead, were not detected.

ATTACHMENTS:

Figure 1 Groundwater Potentiometric Map – Shallow Water Bearing Zone (06/27-30/2022)

Figure 2 Groundwater Potentiometric Map – Deep Water Bearing Zone (06/27-30/2022)

Figure 3 Groundwater Analytical Results Map (06/27-30/2022)

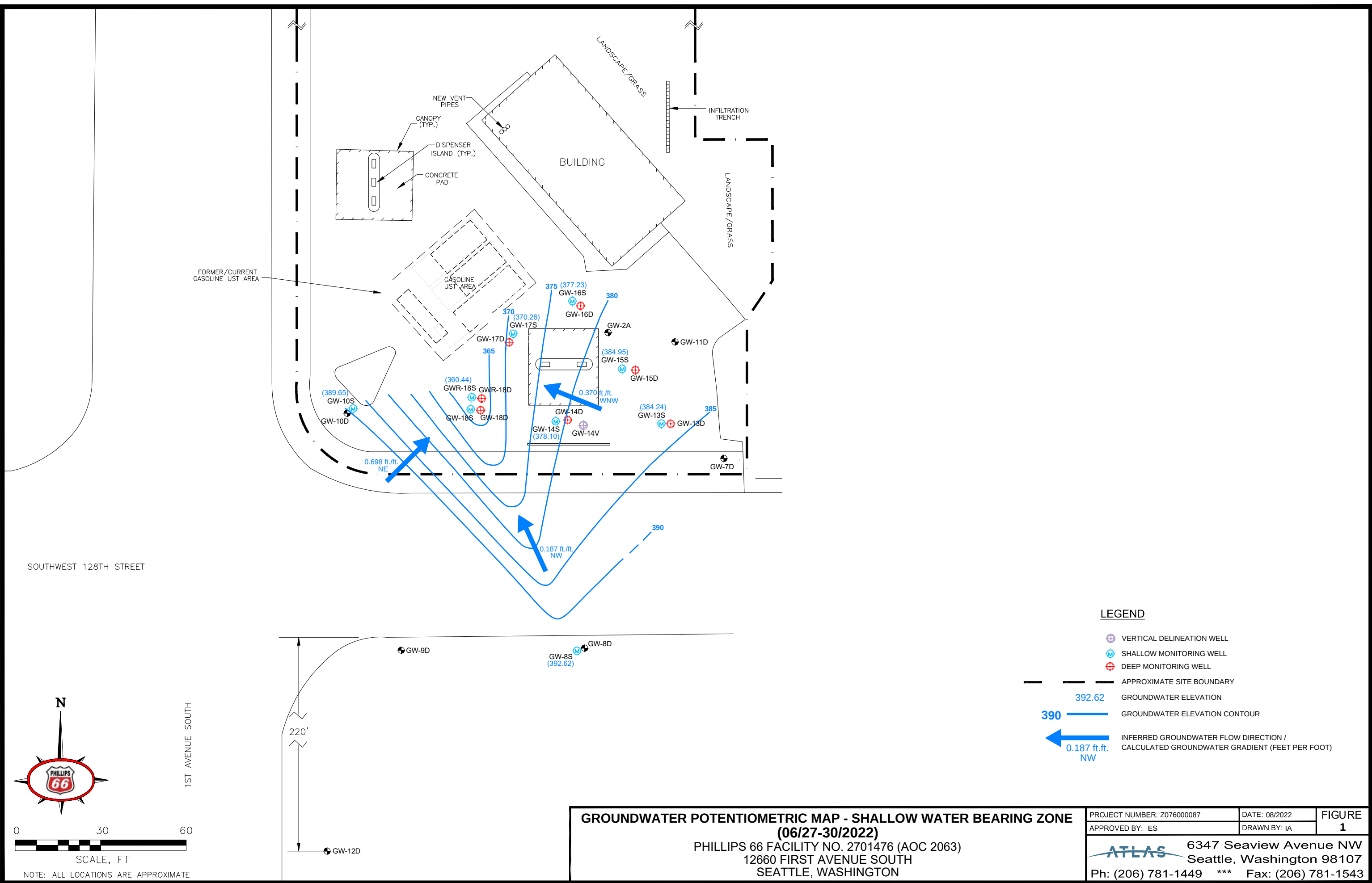
Table 1 Summary of Historical Groundwater Gauging and Laboratory Analytical Data

Appendix A Laboratory Analytical Data Report and Chain of Custody Documents

Appendix B Field Reports / Groundwater Gauging and Sampling Logs

Appendix C Non-hazardous Disposal Documentation

FIGURES



GROUNDWATER POTENTIOMETRIC MAP - SHALLOW WATER BEARING ZONE

(06/27-30/2022)

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

PROJECT NUMBER: Z076000087

DATE: 08/2022

FIGURE

APPROVED BY: ES

DRAWN BY: IA

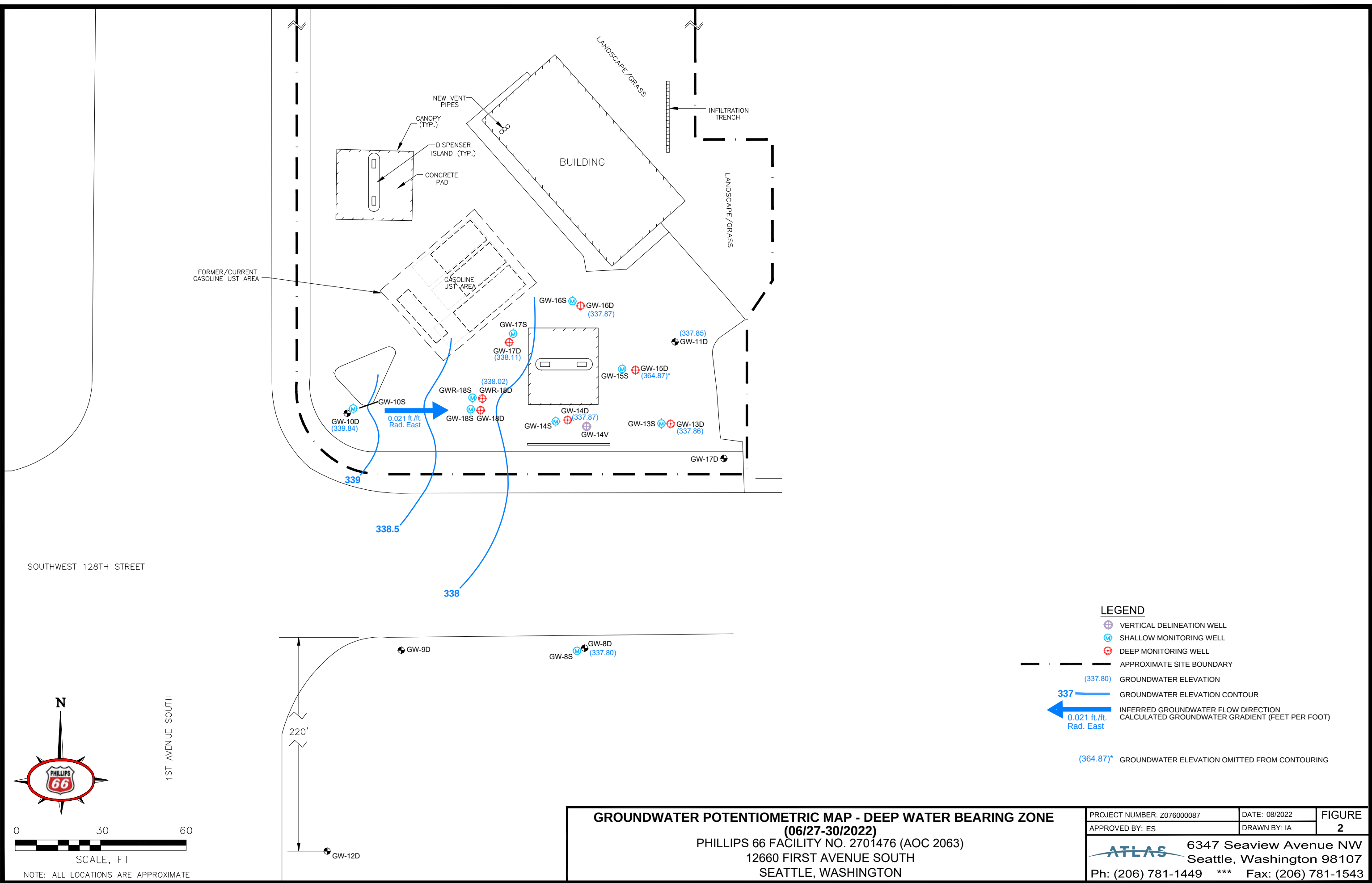
1



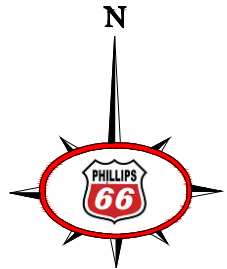
6347 Seaview Avenue NW
Seattle, Washington 98107

Ph: (206) 781-1449 *** Fax: (206) 781-1543

NOTE: ALL LOCATIONS ARE APPROXIMATE



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NOTE: ALL LOCATIONS ARE APPROXIMATE

SOUTHWEST 128TH STREET

1ST AVENUE SOUTH

FORMER/CURRENT
GASOLINE UST AREA

GW-10D	
TPHg	<31.6
B	<0.10
T	<0.10
E	<0.11
X	<0.20
Total Pb	<2.6
Diss Pb	<2.6

GWR-18D	
TPHg	2,640
B	28.1
T	0.92J
E	31.6
X	43.3
Total Pb	5.0J
Diss Pb	4.7J

GW-14S	
TPHg	21,800
B	18.4
T	715
E	1,040
X	3,930
Total Pb	<2.6
Diss Pb	<2.6

GW-14D	
TPHg	1,470
B	598
T	1.2J
E	21.1
X	8.8J
Total Pb	<2.6
Diss Pb	2.7J

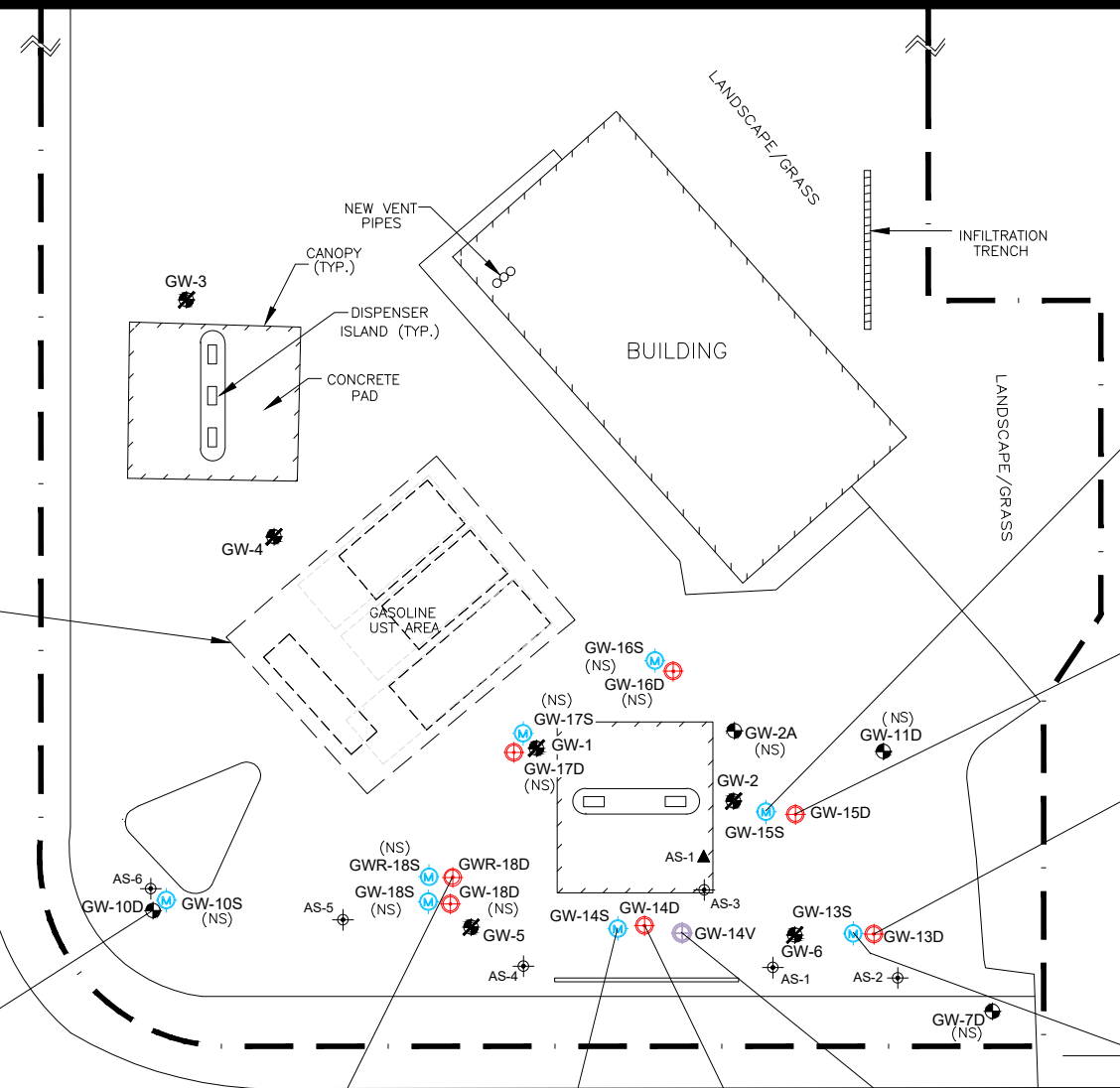
GW-14V	
TPHg	<31.6
B	<0.10
T	0.12J
E	<0.11
X	<0.20
Total Pb	<2.6
Diss Pb	<2.6

GW-13S	
TPHg	2,710
B	7.5
T	6.2
E	61.8
X	95.2
Total Pb	<2.6
Diss Pb	<2.6

GW-13D	
TPHg	<31.6
B	<0.10
T	<0.10
E	<0.11
X	<0.20
Total Pb	4.5J
Diss Pb	5.3J

GW-15D	
TPHg	<31.6
B	<0.10
T	<0.10
E	<0.11
X	<0.20
Total Pb	<2.6
Diss Pb	<2.6

GW-15S	
TPHg	<31.6
B	<0.10
T	<0.10
E	0.11J
X	<0.20
Total Pb	<2.6
Diss Pb	<2.6



LEGEND

- VERTICAL DELINEATION WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DECOMMISSIONED MONITORING WELL
- AIR SPARGE WELL (1994)
- AIR SPARGE POINT (1998)
- MONITORING WELL (1992 and 1994/1995)

APPROXIMATE SITE BOUNDARY

TPHg	<31.6	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	<0.10	BENZENE
T	<0.10	TOLUENE
E	<0.11	ETHYLBENZENE
X	<0.20	TOTAL XYLENES
Total Pb	<2.6	TOTAL LEAD
Diss Pb	<2.6	DISSOLVED LEAD

ALL ANALYTICAL RESULTS REPORTED IN MICROGRAMS PER LITER ($\mu\text{g/L}$)

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

GROUNDWATER ANALYTICAL RESULTS MAP (06/27-30/2022)

PHILLIPS 66 FACILITY NO. 2701476 (AOC 2063)
12660 FIRST AVENUE SOUTH
SEATTLE, WASHINGTON

PROJECT NUMBER: Z076000087	DATE: 07/2022	FIGURE
APPROVED BY: ES	DRAWN BY: IA	3
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, WA

Well ID TOC Elevation	Sample Date	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)	Chloroform (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	1,1 DCE (µg/L)	1,2 DCE (µg/L)	1,2 DCP (µg/L)	PCE (µg/L)	TCE (µg/L)	
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15	1.4	5	0.01	NA	5	NA	5	5	
	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	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/22/13	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	09/20/13	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	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	--	--	--	--	--	--	--	--	
413.77	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	338.72	<19.6	--	--	<0.10	<0.083	0.28J	<0.31	--	2.2J	<2.0	--	--	--	--	--	--	--	--	
	03/27/19	76.29	0.00	337.48	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--	
	06/26/19	76.42	0.00	337.35	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--	
	07/31/20	Well not monitored or sampled this quarter																					
	03/09/21	Well not monitored or sampled this quarter																					
	07/14/21	Well not monitored or sampled this quarter																					
	10/07/21	77.12	0.00	336.65	Well not sampled this quarter																		
	12/16/21	77.66	0.00	336.11	Well not sampled this quarter																		
	03/31/22	77.09	0.00	336.68	Well not sampled this quarter																		
	06/27/22	75.97	0.00	337.80	Well not sampled this quarter																		
GW-9D ¹	11/11/94	79.83	0.00	19.74	93,000	--	--	6,600	18,000	1,400	9,300	--	<2	--	--	--	--	--	--	--	--	--	
99.57	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 [*]	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	--	--	--	--	--	--	--	--	--	
GW-9D	08/18/99 ^{NP}	73.61	0.00	25.96	<50	--	--	2.9	<1	<1	<1	--	--	--	--	--	--	--	--	--	--	--	
(Cont.)	11/11/99 ^{NP}	77.38	0.00	22.19	6,440	--	--	2,510	129	625	841	--	7.05	--	--	<10.0	--	--	--	--	25.0	--	
	02/09/00 ^{NP}	75.54	0.00	24.03	320	--	--	34	<0.5	0.67	0.74	--	<2	--	--	--	--	--	--	--	<0.5	--	
	05/24/00 ^{NP}	75.90	0.00	23.67	98.0	--	--	<1.25	<0.550	<0.500	3.11	--	--	--	--	<1.00	--	--	--	--	<1.00	<1.00	
	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	--	--	<1.00	--	--	--	--	<1.00	<1.00	
	02/23/01	74.59	0.00	24.98	133	--	--	0.721	< 0.500	3.34	3.07	--	10.6	--	--	< 1.00	--	--	--	--	< 1.00	< 1.00	
	05/16/01	79.10	0.00	20.47	<50.0	--	--	3.92	< 0.500	1.18	< 1.00	--	<1.00	--	--	< 1.00	--	--	--	--	< 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	--	--	1.62	--	--	--	--	< 1.00	< 1.00	
	11/19/01	79.38	0.00	20.19	<50.0	--	--	0.726	<0.500	<0.500	<1.00	--	<1.00	--	--	< 1.00	--	--	--	--	< 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	--								

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

Well ID TOC Elevation	Sample Date	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)	Chloroform (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	1,1 DCE (µg/L)	1,2 DCE (µg/L)	1,2 DCP (µg/L)	PCE (µg/L)	TCE (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15	1.4	5	0.01	NA	5	NA	5	5
	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	--	--	--	--	--	--	--	--
406.56	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	--	<1.0	<0.010	<1.0	<2.0	<1.0	<1.0	<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	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/22/13	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/13	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/18/14	64.45	0.00	342.11	<100	<100	<500	<0.50	<0.50	<0.50	<0.50	--	<5.0	<5.0	--	--	--	--	--	--	--	--
	04/29/15	63.40	0.00	343.16	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	07/23/15	63.75	0.00	342.81	<100	--	--	<1.0	<1.0	1.5	<3.0	--	--	--	--	--	--	--	--	--	--	--
	10/15/15	65.62	0.00	340.94	Well gauged only this quarter.																	
GW-12D	10/07/16	64.50	0.00	342.06	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0	--	--	--	--	--	--	--	--
(Cont.)	09/19/17	62.35	0.00	344.21	<100	--	--	<1.0	<1.0	<1.0	<3.0	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	09/05/18	63.65	0.00	342.91	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	12/12/18	64.28	0.00	342.28	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	2.8J	<2.0	--	--	--	--	--	--	--	--
	03/28/19	64.94	0.00	341.62	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	06/26/19	64.90	0.00	341.66	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	3.6J	<2.0	--	--	--	--	--	--	--	--
	07/31/20	Well not monitored or sampled this quarter																				
	03/09/21	Well not monitored or sampled this quarter																				
	07/14/21	Well not monitored or sampled this quarter																				
	10/07/21	65.37	0.00	341.19	Well not sampled this quarter																	
	12/16/21	65.96	0.00	340.60	Well not sampled this quarter																	
	03/31/22	64.92	0.00	341.64	Well not sampled this quarter																	
	06/27/22	NM	0.00	--	Well not monitored or sampled this quarter																	
GW-13S	12/13/18	38.85	0.00	374.28	9,380	--	--	41.3	14	230.0	882	--	<2.0	<2.0	--	--	--	--	--	--	--	--
413.13	03/28/19	32.70	0.00	380.43	2,780	--	--	12.3	4.1	69.5	194	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	06/28/19	34.46	0.00	378.67	712	--	--	0.55J	0.20J	8.3	46.5	--	3.8J	<2.0	--	--	--	--	--	--	--	--
	09/12/19	38.25	0.00	374.88	5,740	--	--	6.9	1.8	99.1	190	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	12/11/19	40.00	0.00	375.30	6,150	--	--	34.2	9.9	144	257	--	2.3J	--	--	--	--	--	--	--	--	--
	03/11/20	31.75	0.00	381.38	3,300	--	--	11.8	4.7	61.9	186	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/31/20	32.90	0.00	380.23	744	--	--	8.5	3.4	40.0	28.0	--	<2.0	2.2J	--	--	--	--	--	--	--	--
	03/09/21	27.35	0.00	385.78	2,410	--	--	3.78	1.86	30.3	107.0	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/14/21	32.42	0.00	380.71	5,810	--	--	10.4	5.90	90.1	220	--	3.8J	<2.6	--	--	--	--	--	--	--	--
	10/08/21	38.16	0.00	374.97	3,650	--	--	1.48	17.2	41.9	177	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	12/16/21	37.96	0.00	375.17	1,630	--	--	0.83J	0.32J	9.7	26.9	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	03/30/22	28.37	0.00	384.76	2,100	--	--	2.8	2.3	26.5	57.1	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	06/27/22	28.89	0.00	384.24	2,710	--	--	7.5	6.2	61.8	95.2	--	<2.6	<2.6	0.33J	--	--	--	--	--	--	--
GW-13D	12/13/18	74.30	0.00	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	0.00	337.60	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	06/27/19	75.50	0.00	337.44	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	2.5J	<2.0	--	--	--	--	--	--	--	--
	09/12/19	76.17	0.00	336.77	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	4.2J	<2.0	--	--	--	--	--	--	--	--
	12/11/19	76.65	0.00	338.65	66.9J	--	--	<0.10	<0.083	<0.14	<0.31	--	5.0J	<2.0	--	--	--	--	--	--	--	--
	03/11/20	77.10	0.00	335.84	<38.3	--	--	<0.12	<0.12	<0.075	<0.29	--	4.4J	<2.0	--	--	--	--	--	--	--	--
	07/31/20	Well not monitored or sampled this quarter																				
	03/09/21	76.90	0.00	336.04	<42.8	--	--	<0.0941	<0.278	<0.137	<0.174	--	7.4J	<2.0	--	--	--	--	--	--	--	--
	07/14/21	76.00	0.00	336.94	<31.6	--	--	<0.0941	<0.278	0.162J	0.401J	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	10/08/21	76.15	0.00	336.79	902	--	--	<1.00	1.58	5.03	25.0	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	12/16/21	76.78	0.00	336.16	<42.8	--	--	<0.10	<0.10	<0.11	<0.20	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	03/30/22	76.35	0.00	336.59	<22.2	--	--	<0.10	<0.10	<0.11	<0.20	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	06/27/22	75.08	0.00	337.86	<31.6	--	--	<0.10	<0.10	<0.11	<0.20	--	4.5J	5.3J	<0.23	--	--	--	--	--	--	--
GW-14S	12/11/18	41.05	0.00	372.73	113,000	--	--	13.8	6,440	2,790	17,600	--	5.0 J	3.0 J	--	--	--	--	--	--	--	--
413.78	03/28/19	38.82	0.00	374.96	53,300	--	--	9.7J	3,470	1,870	9,300	--	<2.0	2.2J	--	--	--	--	--	--	--	--
	06/28/19	40.30	0.00	373.48	96,200	--	--	21.6	5,350	2,610	13,300	--	4.2J	<2.0	--	--	--	--	--	--	--	--
	09/12/19	44.73	0.00	369.05	93,400	--	--	356	3,660	2,840	13,700	--	11.1	<2.0	--	--	--	--	--	--	--	--
	12/12/19	45.00	0.00	370.30	114,000	--	--	693	3,900	2,430	11,400	--	2.5J	2.2J	--	--	--	--	--	--	--	--
	03/12/20	38.18	0.00	375.60	35,800	--	--	4.5J	1,030	499	2,360	--	3.2J	<2.0	--	--	--	--	--	--	--	--
	07/31/20	37.35	0.00	376.43	357,000	--	--	8.3J	814	1,030	3,960	--	8.8J	<2.0	--	--	--	--	--	--	--	--
	03/09/21	36.00	0.00	377.78	23,200	--	--	10.6	107	75.4	334	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/14/21	40.09	0.00	373.69	50,900	--	--	48.7J	4,350	1,740	9,000	--	3.3J									

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Phillips 66 Facility No. 2701476 (AOC 2063)
12660 First Avenue South
Seattle, WA

Well ID TOC Elevation	Sample Date	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)	Chloroform (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	1,1 DCE (µg/L)	1,2 DCE (µg/L)	1,2 DCP (µg/L)	PCE (µg/L)	TCE (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15	1.4	5	0.01	NA	5	NA	5	5
	09/12/19	76.82	0.00	336.90	402	--	--	671	3.0 J	23.1	<1.5	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	12/12/19	77.30	0.00	338.00	39.9J	--	--	1.5	0.16J	0.15J	<0.31	--	4.4J	<2.0	--	--	--	--	--	--	--	--
	03/12/20	77.90	0.00	335.82	Well not sampled this quarter.																	
	07/31/20	73.60	0.00	340.12	908	--	--	509	0.38J	1.6	<0.29	--	2.6J	2.5J	--	--	--	--	--	--	--	--
	03/09/21	73.20	0.00	340.52	337	--	--	665	<5.56	7.86J	<3.48	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/15/21	76.71	0.00	337.01	1,720	--	--	636	<5.56	4.86J	5.72J	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	10/08/21	76.93	0.00	336.79	3,300	--	--	<1.00	36.9	49.9	247	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	12/17/21	77.63	0.00	336.09	Well not sampled this quarter.																	
	03/31/22	76.96	0.00	336.76	186	--	--	327	0.25J	8.8	0.36J	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	06/29/22	75.85	0.00	337.87	1,470	--	--	598	1.2J	21.1	8.8J	--	<2.6	2.7J	<1.2	--	--	--	--	--	--	--
GW-14V	06/30/22	128.63	0.00	285.03	<31.6	--	--	<0.10	0.12J	<0.11	<0.20	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--
413.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GW-15S	12/11/18	39.30	0.00	374.76	Insufficient Water to Sample																	
414.06	03/30/19	32.69	0.00	381.37	398	--	--	1.0J	0.23J	10.8	26.6	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	06/25/19	34.67	0.00	379.39	2,670	--	--	7.4	6.9	52.5	281	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	09/12/19	38.63	0.00	375.43	987	--	--	0.50 J	0.81 J	9.8	30.4	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	12/11/19	40.42	0.00	374.88	470	--	--	0.65J	1.1	12.0	17.6	--	<2.0	--	--	--	--	--	--	--	--	--
	03/12/20	32.49	0.00	381.57	547	--	--	2.0	1.4	4.2	28.2	--	2.3J	<2.0	--	--	--	--	--	--	--	--
	07/31/20	33.00	0.00	381.06	392	--	--	2.5	2.7	17.7	30.4	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	03/09/21	27.14	0.00	386.92	<42.8	--	--	0.141J	<0.278	<0.137	<0.174	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/14/21	33.43	0.00	380.63	1,390	--	--	2.47	5.96	37.1	124	--	2.7J	<2.6	--	--	--	--	--	--	--	--
	10/07/21	38.16	0.00	375.90	1,940	--	--	<1.00	<1.00	25.7	30.6	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	12/16/21	38.47	0.00	375.59	2,220	--	--	1.4	2.1	14.4	41.4	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	03/30/22	28.34	0.00	385.72	<22.2	--	--	<0.10	<0.10	<0.11	0.41J	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	06/28/22	29.11	0.00	384.95	<31.6	--	--	0.10J	<0.10	0.11J	<0.20	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--
GW-15D	12/13/18	56.00	0.00	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	0.00	361.41	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	06/25/19	52.40	0.00	361.61	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	09/12/19	54.60	0.00	359.41	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	12/11/19	57.35	0.00	357.95	61.8J	--	--	<0.10	0.16J	0.28J	<0.31	--	2.4J	--	--	--	--	--	--	--	--	--
GW-15D	03/12/20	53.98	0.00	360.08	<38.3	--	--	<0.12	<0.12	<0.075	<0.29	--	<2.0	<2.0	--	--	--	--	--	--	--	--
(Cont.)	07/31/20	Well not monitored or sampled this quarter																				
	03/09/21	49.70	0.00	364.31	<42.8	--	--	<0.0941	<0.278	<0.137	<0.174	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/14/21	51.03	0.00	362.98	<31.6	--	--	<0.0941	<0.278	0.206J	0.621J	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	10/07/21	54.38	0.00	359.63	163	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	12/16/21	55.42	0.00	358.59	<42.8	--	--	<0.10	<0.10	0.24J	0.26J	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	03/30/22	49.06	0.00	364.95	<22.2	--	--	<0.10	<0.10	<0.11	0.33J	--	<2.6	<2.6	--	--	--	--	--	--	--	--
	06/28/22	49.14	0.00	364.87	<31.6	--	--	<0.10	<0.10	<0.11	<0.20	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--
GW-16S	12/11/18	48.50	0.00	366.94	Insufficient Water to Sample										--	--	--	--	--	--	--	--
415.44	03/30/19	42.69	0.00	372.75	<19.6	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	06/27/19	43.56	0.00	371.88	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/31/20	Well not monitored or sampled this quarter																				
	03/09/21	Well not monitored or sampled this quarter																				
	07/14/21	Well not monitored or sampled this quarter																				
	10/07/21	45.99	0.00	369.45	Well not sampled this quarter																	
	12/16/21	49.65	0.00	365.79	Well not sampled this quarter																	
	03/31/22	36.60	0.00	378.84	Well not sampled this quarter																	
	06/27/22	38.21	0.00	377.23	Well not sampled this quarter																	
GW-16D	12/13/18	76.55	0.00	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	0.00	337.60	<19.6	--	--	<0.10	<0.083	<0.14	<0.31		<2.0	<2.0	--	--	--	--	--	--	--	--
	06/27/19	77.78	0.00	337.46	<38.3	--	--	<0.10	<0.083	<0.14	<0.31		<2.0	<2.0	--	--	--	--	--	--	--	--
	03/09/21	Well not monitored or sampled this quarter																				
	07/14/21	Well not monitored or sampled this quarter																				
	10/07/21	78.47	0.00	336.77	Well not sampled this quarter																	
	12/16/21	79.06	0.00	336.18	Well not sampled this quarter																	
	03/31/22	78.52	0.00	336.72	Well not sampled this quarter																	
	06/27/22	77.37	0.00	337.87	Well not sampled this quarter																	
GW-17S	12/11/18	49.30	0.00	365.54	Insufficient Water to Sample																	
414.84	03/30/19	48.00	0.00	366.84	<19.6	--	--	0.29 J	0.094 J	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	06/27/19	47.00	0.00	367.84	<38.3	--	--	<0.10	<0.083	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	07/31/20	Well not monitored or sampled this quarter																				
	03/09/21	Well not monitored or sampled this quarter																				
	07/14/21	Well not monitored or sampled this quarter																				
	10/07/21	48.61	0.00	366.23	Well not sampled this quarter																	
	12/16/21	49.24	0.00	365.60	Well not sampled this quarter																	
	03/31/22	43.94	0.00	370.90	Well not sampled this quarter																	
	06/27/22	44.58	0.00	370.26	Well not sampled this quarter																	
GW-17D	02/27/00	76.08	0.00	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	0.00	337.92	<19.6	--	--	<0.10	<0.083	<0.14	<0.31		2.9J	<2.0	--	--	--	--	--	--	--	--
	06/27/19	77.35	0.00	337.72	<38.3	--	--	<0.10	<0.083	<0.14	<0.31		2.8J	<2.0	--	--	--	--	--	--	--	--
	03/09/21	Well not monitored or sampled this quarter																				
	07/14/21	Well not monitored or sampled this quarter																				
	10/07/21	77.98	0.00	337.09	Well not sampled this quarter																	
	12/16/21	78.52	0.00	336.55	Well not sampled this quarter																	
	03/31/22	78.06	0.00	337.01	Well not sampled this quarter																	
	06/27/22	76.96	0.00	338.11	Well not sampled this quarter																	
GW-18S	12/11/18	48.38	0.00	365.93	Insufficient Water to Sample																	
414.31	03/30/19	Dry	0.00	--	Insufficient Water to Sample																	
	06/25/19	48.18	0.00	366.13	Insufficient Water to Sample																	
	09/12/19	48.50	0.00	365.81	Insufficient Water to Sample																	
	12/12/19	48.30	0.00	366.01	Insufficient Water to Sample																	
	03/11/20	48.49	0.00	365.82	Insufficient Water to Sample																	
	07/31/20	Well not monitored or sampled this quarter																				
	03/09/21	48.60	0.00	365.71	Insufficient Water to Sample																	
	07/14/21	48.34	0.00	365.97	Insufficient Water to Sample																	
	10/07/21	48.93	0.00	365.38	Insufficient Water to Sample																	
	12/16/21	49.15	0.00	365.16	Insufficient Water to Sample																	
	03/31/22	48.48	0.00	365.83	Insufficient Water to Sample																	
	06/27/22	NM	0.00	--	Well not monitored or sampled this quarter																	
GW-18D	12/11/18	75.45	0.00	338.73	<19.6	--	--	<0.10	0.093 J	<0.14	<0.31	--	<2.0	<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, WA

Well ID TOC Elevation	Sample Date	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)	Chloroform (µg/L)	1,2 DCA (µg/L)	EDB (µg/L)	1,1 DCE (µg/L)	1,2 DCE (µg/L)	1,2 DCP (µg/L)	PCE (µg/L)	TCE (µg/L)
MTCA Method A Cleanup Levels					1,000/800 ^a	500	500	5	1,000	700	1,000	20	15	15	1.4	5	0.01	NA	5	NA	5	5
414.18	03/27/19	76.50	0.00	337.68	1,270	--	--	558	3.8	45.0	109	--	4.9J	<2.0	--	--	--	--	--	--	--	--
	06/28/19	76.60	0.00	337.58	241	--	--	62.3	1.2J	7.3	<1.5	--	<2.0	<2.0	--	--	--	--	--	--	--	--
	09/12/19	77.28	0.00	336.90	<38.3	--	--	1.8	<0.083	<0.14	<0.31	--	5.4J	<2.0	--	--	--	--	--	--	--	--
	12/12/19	77.70	0.00	337.60	<38.3	--	--	0.32J	<0.083	<0.14	<0.31	--	3.4J	--	--	--	--	--	--	--	--	--
	03/11/20	78.27	0.00	335.91	Insufficient Water to Sample																	
	07/31/20	77.60	0.00	336.58	Insufficient Water to Sample																	
	03/09/21	78.05	0.00	336.13	Insufficient Water to Sample																	
	07/14/21	77.04	0.00	337.14	<36.1	--	--	4.54	<0.278	0.589J	0.321J	--	2.7J	<2.6	--	--	--	--	--	--	--	--
	10/07/21	77.39	0.00	336.79	159	--	--	<1.00	<1.00	<1.00	<3.00	--	<10.0	<10.0	--	--	--	--	--	--	--	--
	12/17/21	78.11	0.00	336.07	Insufficient Water to Sample																	
	03/31/22	77.38	0.00	336.80	Insufficient Water to Sample																	
	06/27/22	NM	0.00	--	Well not monitored or sampled this quarter																	
GWR-18S	06/27/22	52.65	0.00	360.44	Insufficient Water to Sample																	
413.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GWR-18D	06/28/22	75.20	0.00	338.02	2,640	--	--	28.1	0.92J	31.6	43.3	--	5.0J	4.7J	0.52J	--	--	--	--	--	--	--
413.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Total Pb = Total lead by EPA Method 6020; Diss Pb = Dissolved lead by EPA Method 6020.
TPH-G = Total Petroleum Hydrocarbons as gasoline by Ecology Method NWTPH-Gx
TPH-D = Total Petroleum Hydrocarbons as diesel and oil by Ecology Method NWTPH-Dx
Prior to 5/18/11, BTEX and MTBE Analyzed by EPA Method 8021B. After 5/18/11, analyzed by EPA Method 5030B/8260.
^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.
DTW = Depth to water in feet below top of casing
All concentrations are in µg/L (ppb).
Data collected before May 18, 2011 was obtained from prior consultants.
Groundwater elevations were corrected for LPH using a specific gravity of 0.75, as necessary.
GW Elev. = Groundwater elevation in feet relative to top of casing elevations
LPH = Liquid-phase hydrocarbon thickness in feet
< = Less than the stated laboratory reporting limit
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
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.
NA = Not Analyzed or Sampled
NE = Not established
NM = Not Measured
NP = Not Purged
Wellhead elevations were taken from prior consultant's reports for dates prior to 2018.
¹ = For wells GW-7D through GW-12D: Well designations changed from GW-7 through GW-12 respectively to reflect that the wells are designated as deep water bearing zone wells.
^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.
* DTW measurements collected 1 day prior to sampling
** Analytical results are anomalous compared to historical data. Atlas suspects that sample ID's "GW-5" and "GW-6" may have been switched.
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.
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.



APPENDIX A

LABORATORY ANALYTICAL DATA REPORT AND CHAIN OF CUSTODY DOCUMENT

August 15, 2022

Elisabeth Silver
Atlas
6347 Seaview Ave NW
Seattle, WA 98107

RE: Project: P66 Burien-Revised Report
Pace Project No.: 10615362

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Minneapolis

This report was revised on August 15, 2022, to report chloroform by method 8260D on Pace samples 10615362001 through -010.

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

Sincerely,



Tina Soltani for
Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: P66 Burien-Revised Report
Pace Project No.: 10615362

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
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
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
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 #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 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 (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
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*
Vermont Certification #: VT-027053137
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
USDA Permit #: P330-19-00208
Please Note: Applicable air certifications are denoted with an asterisk ().

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008

Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Pace Analytical Services National

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Virginia Certification #: VT2006

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10615362001	GW-10D	Water	06/27/22 15:40	07/01/22 08:50
10615362002	GW-13D	Water	06/27/22 13:20	07/01/22 08:50
10615362010	GW-13S	Water	06/27/22 12:30	07/01/22 08:50
10615362003	GW-14D	Water	06/29/22 11:00	07/01/22 08:50
10615362004	GW-14S	Water	06/29/22 10:00	07/01/22 08:50
10615362005	GW-14V	Water	06/30/22 13:45	07/01/22 08:50
10615362006	GW-15D	Water	06/28/22 12:55	07/01/22 08:50
10615362007	GW-15S	Water	06/28/22 10:10	07/01/22 08:50
10615362008	GWR-18D	Water	06/28/22 14:15	07/01/22 08:50
10615362009	TRIP BLANK	Water	06/27/22 00:00	07/01/22 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10615362001	GW-10D	NWTPH-Gx	ACG	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	TKL	7	PASI-M
10615362002	GW-13D	NWTPH-Gx	ACG	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	TKL	7	PASI-M
10615362010	GW-13S	NWTPH-Gx	ACG	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	TKL	7	PASI-M
10615362003	GW-14D	NWTPH-Gx	MGF	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	JEM	7	PASI-M
10615362004	GW-14S	NWTPH-Gx	MGF	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	JEM	7	PASI-M
10615362005	GW-14V	NWTPH-Gx	MGF	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	TKL	7	PASI-M
10615362006	GW-15D	NWTPH-Gx	JHH	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	JEM	7	PASI-M
10615362007	GW-15S	NWTPH-Gx	JHH	2	PAN
		EPA 6010D	DM	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10615362008	GWR-18D	EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	JEM	7	PASI-M
		NWTPH-Gx	JHH	2	PAN
		EPA 6010D	DM	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8260D	JEM	4	PASI-M
10615362009	TRIP BLANK	EPA 8260D	JEM	7	PASI-M
		EPA 8260D	JEM	4	PASI-M
		EPA 8260D	TKL	7	PASI-M

PAN = Pace National - Mt. Juliet

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: GW-10D		Lab ID: 10615362001		Collected: 06/27/22 15:40		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX Pace National - Mt. Juliet									
TPH (C06-C12)	<31.6	ug/L	100	31.6	1	07/11/22 21:18	07/11/22 21:18		
Surrogates									
a,a,a-Trifluorotoluene (FID)	98.9	%	78.0-120		1	07/11/22 21:18	07/11/22 21:18	98-08-8FID	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead	<2.6	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:36	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 12:50	7439-92-1	
8260D MSV Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Chloroform	0.50J	ug/L	1.0	0.23	1		07/06/22 20:55	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/06/22 20:55	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		07/06/22 20:55	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		07/06/22 20:55	2037-26-5	
8260D MSV UST Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		07/06/22 20:55	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		07/06/22 20:55	100-41-4	
Toluene	<0.10	ug/L	1.0	0.10	1		07/06/22 20:55	108-88-3	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		07/06/22 20:55	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/06/22 20:55	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		07/06/22 20:55	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		07/06/22 20:55	2037-26-5	

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: GW-13D		Lab ID: 10615362002		Collected: 06/27/22 13:20		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX Pace National - Mt. Juliet									
TPH (C06-C12)	<31.6	ug/L	100	31.6	1	07/11/22 21:40	07/11/22 21:40		
Surrogates									
a,a,a-Trifluorotoluene (FID)	99.3	%	78.0-120		1	07/11/22 21:40	07/11/22 21:40	98-08-8FID	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead	4.5J	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:48	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead, Dissolved	5.3J	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 12:59	7439-92-1	
8260D MSV Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Chloroform	<0.23	ug/L	1.0	0.23	1		07/06/22 21:10	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/06/22 21:10	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		07/06/22 21:10	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		07/06/22 21:10	2037-26-5	
8260D MSV UST Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		07/06/22 21:10	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		07/06/22 21:10	100-41-4	
Toluene	<0.10	ug/L	1.0	0.10	1		07/06/22 21:10	108-88-3	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		07/06/22 21:10	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/06/22 21:10	2199-69-1	
4-Bromofluorobenzene (S)	99	%	75-125		1		07/06/22 21:10	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		07/06/22 21:10	2037-26-5	

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report
Pace Project No.: 10615362

Sample: GW-13S		Lab ID: 10615362010		Collected: 06/27/22 12:30		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX									
Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX Pace National - Mt. Juliet									
TPH (C06-C12)	2710	ug/L	100	31.6	1	07/11/22 22:02	07/11/22 22:02		
Surrogates									
a,a,a-Trifluorotoluene (FID)	90.9	%	78.0-120		1	07/11/22 22:02	07/11/22 22:02	98-08-8FID	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead	<2.6	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:59	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 13:14	7439-92-1	
8260D MSV									
Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Chloroform	0.33J	ug/L	1.0	0.23	1		07/06/22 21:25	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/06/22 21:25	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		1		07/06/22 21:25	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		07/06/22 21:25	2037-26-5	
8260D MSV UST									
Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Benzene	7.5	ug/L	1.0	0.10	1		07/06/22 21:25	71-43-2	
Ethylbenzene	61.8	ug/L	1.0	0.11	1		07/06/22 21:25	100-41-4	
Toluene	6.2	ug/L	1.0	0.10	1		07/06/22 21:25	108-88-3	
Xylene (Total)	95.2	ug/L	3.0	0.20	1		07/06/22 21:25	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/06/22 21:25	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		1		07/06/22 21:25	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		07/06/22 21:25	2037-26-5	

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: GW-14D		Lab ID: 10615362003		Collected: 06/29/22 11:00		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX Pace National - Mt. Juliet									
TPH (C06-C12)	1470	ug/L	100	31.6	1	07/13/22 17:40	07/13/22 17:40		H1
Surrogates									
a,a,a-Trifluorotoluene (FID)	92.0	%	78.0-120		1	07/13/22 17:40	07/13/22 17:40	98-08-8FID	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead	<2.6	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:49	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead, Dissolved	2.7J	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 13:00	7439-92-1	
8260D MSV Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Chloroform	<1.2	ug/L	5.0	1.2	5		07/08/22 21:11	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		5		07/08/22 21:11	2199-69-1	D3
4-Bromofluorobenzene (S)	101	%	75-125		5		07/08/22 21:11	460-00-4	
Toluene-d8 (S)	93	%	75-125		5		07/08/22 21:11	2037-26-5	
8260D MSV UST Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Benzene	598	ug/L	5.0	0.52	5		07/08/22 21:11	71-43-2	
Ethylbenzene	21.1	ug/L	5.0	0.54	5		07/08/22 21:11	100-41-4	
Toluene	1.2J	ug/L	5.0	0.52	5		07/08/22 21:11	108-88-3	
Xylene (Total)	8.8J	ug/L	15.0	1.0	5		07/08/22 21:11	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	75-125		5		07/08/22 21:11	2199-69-1	
4-Bromofluorobenzene (S)	101	%	75-125		5		07/08/22 21:11	460-00-4	
Toluene-d8 (S)	93	%	75-125		5		07/08/22 21:11	2037-26-5	

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: GW-14S		Lab ID: 10615362004		Collected: 06/29/22 10:00		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX									
Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX									
Pace National - Mt. Juliet									
TPH (C06-C12)	21800	ug/L	1000	316	10	07/15/22 10:51	07/15/22 10:51		H1
Surrogates									
a,a,a-Trifluorotoluene (FID)	91.4	%	78.0-120		10	07/15/22 10:51	07/15/22 10:51	98-08-8FID	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Minneapolis									
Lead	<2.6	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:51	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Minneapolis									
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 13:02	7439-92-1	
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Chloroform	2.5J	ug/L	10.0	2.3	10		07/08/22 21:41	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		10		07/08/22 21:41	2199-69-1	D3
4-Bromofluorobenzene (S)	96	%	75-125		10		07/08/22 21:41	460-00-4	
Toluene-d8 (S)	96	%	75-125		10		07/08/22 21:41	2037-26-5	
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	18.4	ug/L	10.0	1.0	10		07/08/22 21:41	71-43-2	
Ethylbenzene	1040	ug/L	10.0	1.1	10		07/08/22 21:41	100-41-4	
Toluene	715	ug/L	10.0	1.0	10		07/08/22 21:41	108-88-3	
Xylene (Total)	3930	ug/L	30.0	2.0	10		07/08/22 21:41	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	75-125		10		07/08/22 21:41	2199-69-1	
4-Bromofluorobenzene (S)	96	%	75-125		10		07/08/22 21:41	460-00-4	
Toluene-d8 (S)	96	%	75-125		10		07/08/22 21:41	2037-26-5	

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report
Pace Project No.: 10615362

Sample: GW-14V		Lab ID: 10615362005		Collected: 06/30/22 13:45		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX Pace National - Mt. Juliet									
TPH (C06-C12)	<31.6	ug/L	100	31.6	1	07/14/22 05:19	07/14/22 05:19		
Surrogates									
a,a,a-Trifluorotoluene (FID)	94.1	%	78.0-120		1	07/14/22 05:19	07/14/22 05:19	98-08-8FID	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead	<2.6	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:53	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 13:07	7439-92-1	
8260D MSV Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Chloroform	<0.23	ug/L	1.0	0.23	1		07/11/22 20:52	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/11/22 20:52	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		07/11/22 20:52	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		07/11/22 20:52	2037-26-5	
8260D MSV UST Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		07/11/22 20:52	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		07/11/22 20:52	100-41-4	
Toluene	0.12J	ug/L	1.0	0.10	1		07/11/22 20:52	108-88-3	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		07/11/22 20:52	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/11/22 20:52	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		07/11/22 20:52	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		07/11/22 20:52	2037-26-5	

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: GW-15D		Lab ID: 10615362006		Collected: 06/28/22 12:55		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX									
Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX									
Pace National - Mt. Juliet									
TPH (C06-C12)	<31.6	ug/L	100	31.6	1	07/12/22 05:35	07/12/22 05:35		
Surrogates									
a,a,a-Trifluorotoluene (FID)	99.3	%	78.0-120		1	07/12/22 05:35	07/12/22 05:35	98-08-8FID	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Minneapolis									
Lead	<2.6	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:54	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Minneapolis									
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 13:09	7439-92-1	
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Chloroform	<0.23	ug/L	1.0	0.23	1		07/08/22 20:12	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/08/22 20:12	2199-69-1	
4-Bromofluorobenzene (S)	98	%	75-125		1		07/08/22 20:12	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		07/08/22 20:12	2037-26-5	
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		07/08/22 20:12	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		07/08/22 20:12	100-41-4	
Toluene	<0.10	ug/L	1.0	0.10	1		07/08/22 20:12	108-88-3	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		07/08/22 20:12	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%	75-125		1		07/08/22 20:12	2199-69-1	
4-Bromofluorobenzene (S)	98	%	75-125		1		07/08/22 20:12	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		07/08/22 20:12	2037-26-5	

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: GW-15S		Lab ID: 10615362007		Collected: 06/28/22 10:10		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX									
Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX									
Pace National - Mt. Juliet									
TPH (C06-C12)	<31.6	ug/L	100	31.6	1	07/12/22 05:57	07/12/22 05:57		
Surrogates									
a,a,a-Trifluorotoluene (FID)	97.8	%	78.0-120		1	07/12/22 05:57	07/12/22 05:57	98-08-8FID	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Minneapolis									
Lead	<2.6	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:56	7439-92-1	
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Minneapolis									
Lead, Dissolved	<2.6	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 13:10	7439-92-1	
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Chloroform	<0.23	ug/L	1.0	0.23	1		07/08/22 20:27	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		07/08/22 20:27	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		07/08/22 20:27	460-00-4	
Toluene-d8 (S)	94	%	75-125		1		07/08/22 20:27	2037-26-5	
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	0.10J	ug/L	1.0	0.10	1		07/08/22 20:27	71-43-2	
Ethylbenzene	0.11J	ug/L	1.0	0.11	1		07/08/22 20:27	100-41-4	
Toluene	<0.10	ug/L	1.0	0.10	1		07/08/22 20:27	108-88-3	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		07/08/22 20:27	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	75-125		1		07/08/22 20:27	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		07/08/22 20:27	460-00-4	
Toluene-d8 (S)	94	%	75-125		1		07/08/22 20:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: GWR-18D		Lab ID: 10615362008		Collected: 06/28/22 14:15		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC) NWTPHGX Analytical Method: NWTPH-Gx Preparation Method: NWTPHGX Pace National - Mt. Juliet									
TPH (C06-C12)	2640	ug/L	100	31.6	1	07/12/22 06:19	07/12/22 06:19		
Surrogates									
a,a,a-Trifluorotoluene (FID)	88.3	%	78.0-120		1	07/12/22 06:19	07/12/22 06:19	98-08-8FID	
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead	5.0J	ug/L	10.0	2.6	1	07/07/22 05:20	07/11/22 12:58	7439-92-1	
6010D MET ICP, Dissolved Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis									
Lead, Dissolved	4.7J	ug/L	10.0	2.6	1	07/08/22 11:37	07/12/22 13:12	7439-92-1	
8260D MSV Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Chloroform	0.52J	ug/L	1.0	0.23	1		07/08/22 20:42	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		07/08/22 20:42	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		07/08/22 20:42	460-00-4	
Toluene-d8 (S)	91	%	75-125		1		07/08/22 20:42	2037-26-5	
8260D MSV UST Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis									
Benzene	28.1	ug/L	1.0	0.10	1		07/08/22 20:42	71-43-2	
Ethylbenzene	31.6	ug/L	1.0	0.11	1		07/08/22 20:42	100-41-4	
Toluene	0.92J	ug/L	1.0	0.10	1		07/08/22 20:42	108-88-3	
Xylene (Total)	43.3	ug/L	3.0	0.20	1		07/08/22 20:42	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	75-125		1		07/08/22 20:42	2199-69-1	
4-Bromofluorobenzene (S)	97	%	75-125		1		07/08/22 20:42	460-00-4	
Toluene-d8 (S)	91	%	75-125		1		07/08/22 20:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Sample: TRIP BLANK		Lab ID: 10615362009		Collected: 06/27/22 00:00		Received: 07/01/22 08:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Chloroform	<0.23	ug/L	1.0	0.23	1		07/06/22 20:25	67-66-3	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		07/06/22 20:25	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		07/06/22 20:25	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		07/06/22 20:25	2037-26-5	
8260D MSV UST									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Benzene	<0.10	ug/L	1.0	0.10	1		07/06/22 20:25	71-43-2	
Ethylbenzene	<0.11	ug/L	1.0	0.11	1		07/06/22 20:25	100-41-4	
Toluene	<0.10	ug/L	1.0	0.10	1		07/06/22 20:25	108-88-3	
Xylene (Total)	<0.20	ug/L	3.0	0.20	1		07/06/22 20:25	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		07/06/22 20:25	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		07/06/22 20:25	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		07/06/22 20:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	1892826	Analysis Method:	NWTPH-Gx
QC Batch Method:	8021B/NWTPHGx	Analysis Description:	VOA (GC) NWTPHGx
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 10615362001, 10615362002, 10615362010

METHOD BLANK: R3814802-2 Matrix: Water

Associated Lab Samples: 10615362001, 10615362002, 10615362010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	47.4J	100	31.6	07/11/22 14:47	J
a,a,a-Trifluorotoluene (FID)	%	103	78.0-120		07/11/22 14:47	

LABORATORY CONTROL SAMPLE: R3814802-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	5760	105	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			99.9	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	1892826	Analysis Method:	NWTPH-Gx
QC Batch Method:	NWTPHGx	Analysis Description:	VOA (GC) NWTPHGx
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 10615362001, 10615362002, 10615362010

METHOD BLANK: R3814802-2 Matrix: Water

Associated Lab Samples: 10615362001, 10615362002, 10615362010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	47.4J	100	31.6	07/11/22 14:47	J
a,a,a-Trifluorotoluene (FID)	%	103	78.0-120		07/11/22 14:47	

LABORATORY CONTROL SAMPLE: R3814802-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	5760	105	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			99.9	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	1893417	Analysis Method:	NWTPH-Gx
QC Batch Method:	8015/8021/8021B/NWTPHGx	Analysis Description:	VOA (GC) NWTPHGx
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 10615362006, 10615362007, 10615362008

METHOD BLANK: R3813912-2 Matrix: Water

Associated Lab Samples: 10615362006, 10615362007, 10615362008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/12/22 03:26	
a,a,a-Trifluorotoluene (FID)	%	99	78.0-120		07/12/22 03:26	

LABORATORY CONTROL SAMPLE: R3813912-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	4990	90.7	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			99.6	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	1893417	Analysis Method:	NWTPH-Gx
QC Batch Method:	8015/NWTPHGx	Analysis Description:	VOA (GC) NWTPHGx
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 10615362006, 10615362007, 10615362008

METHOD BLANK: R3813912-2 Matrix: Water

Associated Lab Samples: 10615362006, 10615362007, 10615362008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/12/22 03:26	
a,a,a-Trifluorotoluene (FID)	%	99	78.0-120		07/12/22 03:26	

LABORATORY CONTROL SAMPLE: R3813912-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	4990	90.7	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			99.6	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch: 1894150

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPHGx

Analysis Description: VOA (GC) NWTPHGx

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10615362003

METHOD BLANK: R3814858-2

Matrix: Water

Associated Lab Samples: 10615362003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/13/22 14:24	
a,a,a-Trifluorotoluene (FID)	%	99	78.0-120		07/13/22 14:24	

LABORATORY CONTROL SAMPLE: R3814858-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	5820	106	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			101	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch: 1894150

Analysis Method: NWTPH-Gx

QC Batch Method: 8021B/NWTPHGx

Analysis Description: VOA (GC) NWTPHGx

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10615362003

METHOD BLANK: R3814858-2

Matrix: Water

Associated Lab Samples: 10615362003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/13/22 14:24	
a,a,a-Trifluorotoluene (FID)	%	99	78.0-120		07/13/22 14:24	

LABORATORY CONTROL SAMPLE: R3814858-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	5820	106	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			101	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch: 1894612

Analysis Method: NWTPH-Gx

QC Batch Method: 8015/8021/8021B/NWTPHGx

Analysis Description: VOA (GC) NWTPHGx

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10615362005

METHOD BLANK: R3814605-2

Matrix: Water

Associated Lab Samples: 10615362005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/13/22 23:27	
a,a,a-Trifluorotoluene (FID)	%	94.1	78.0-120		07/13/22 23:27	

LABORATORY CONTROL SAMPLE: R3814605-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	6130	111	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			105	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch: 1894612

Analysis Method: NWTPH-Gx

QC Batch Method: 8015/NWTPHGx

Analysis Description: VOA (GC) NWTPHGx

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10615362005

METHOD BLANK: R3814605-2

Matrix: Water

Associated Lab Samples: 10615362005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/13/22 23:27	
a,a,a-Trifluorotoluene (FID)	%	94.1	78.0-120		07/13/22 23:27	

LABORATORY CONTROL SAMPLE: R3814605-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	6130	111	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			105	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch: 1895299

Analysis Method: NWTPH-Gx

QC Batch Method: 8021B/NWTPHGx

Analysis Description: VOA (GC) NWTPHGx

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10615362004

METHOD BLANK: R3816398-2

Matrix: Water

Associated Lab Samples: 10615362004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/15/22 09:25	
a,a,a-Trifluorotoluene (FID)	%	96.2	78.0-120		07/15/22 09:25	

LABORATORY CONTROL SAMPLE: R3816398-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	5370	97.6	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			96.5	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch: 1895299

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPHGx

Analysis Description: VOA (GC) NWTPHGx

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 10615362004

METHOD BLANK: R3816398-2

Matrix: Water

Associated Lab Samples: 10615362004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH (C06-C12)	ug/L	<31.6	100	31.6	07/15/22 09:25	
a,a,a-Trifluorotoluene (FID)	%	96.2	78.0-120		07/15/22 09:25	

LABORATORY CONTROL SAMPLE: R3816398-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C12)	ug/L	5500	5370	97.6	70.0-124	
a,a,a-Trifluorotoluene (FID)	%			96.5	78.0-120	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	826174	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D Water
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10615362001, 10615362002, 10615362003, 10615362004, 10615362005, 10615362006, 10615362007, 10615362008, 10615362010		

METHOD BLANK:	4376224	Matrix:	Water
Associated Lab Samples:	10615362001, 10615362002, 10615362003, 10615362004, 10615362005, 10615362006, 10615362007, 10615362008, 10615362010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	<2.6	10.0	2.6	07/11/22 12:33	

LABORATORY CONTROL SAMPLE: 4376225						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	964	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
4376226					4376227							
		10615362001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
Lead	ug/L	<2.6	1000	1000	971	973	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	826172	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D Water Dissolved
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10615362001, 10615362002, 10615362003, 10615362004, 10615362005, 10615362006, 10615362007, 10615362008, 10615362010		

METHOD BLANK:	4376213	Matrix:	Water
Associated Lab Samples:	10615362001, 10615362002, 10615362003, 10615362004, 10615362005, 10615362006, 10615362007, 10615362008, 10615362010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<2.6	10.0	2.6	07/12/22 12:47	

LABORATORY CONTROL SAMPLE: 4376214						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	1000	922	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			4376215		4376216							
Parameter	Units	10615362001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	<2.6	1000	1000	937	962	94	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	834077	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10615362001, 10615362002, 10615362009, 10615362010

METHOD BLANK: 4417318 Matrix: Water
Associated Lab Samples: 10615362001, 10615362002, 10615362009, 10615362010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	ug/L	<0.23	1.0	0.23	07/06/22 19:54	
1,2-Dichlorobenzene-d4 (S)	%.	99	75-125		07/06/22 19:54	
4-Bromofluorobenzene (S)	%.	99	75-125		07/06/22 19:54	
Toluene-d8 (S)	%.	99	75-125		07/06/22 19:54	

LABORATORY CONTROL SAMPLE & LCSD: 4417319		4417320								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	20	18.2	17.8	91	89	74-125	2	20	
1,2-Dichlorobenzene-d4 (S)	%.				98	98	75-125			
4-Bromofluorobenzene (S)	%.				102	101	75-125			
Toluene-d8 (S)	%.				101	100	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	834078	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples: 10615362003, 10615362004, 10615362006, 10615362007, 10615362008			

METHOD BLANK: 4417327

Matrix: Water

Associated Lab Samples: 10615362003, 10615362004, 10615362006, 10615362007, 10615362008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	ug/L	<0.23	1.0	0.23	07/08/22 19:28	
1,2-Dichlorobenzene-d4 (S)	%.	97	75-125		07/08/22 19:28	
4-Bromofluorobenzene (S)	%.	96	75-125		07/08/22 19:28	
Toluene-d8 (S)	%.	93	75-125		07/08/22 19:28	

LABORATORY CONTROL SAMPLE & LCSD: 4417328

4417329

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	20	18.1	17.6	91	88	74-125	3	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	98	75-125			
4-Bromofluorobenzene (S)	%.				97	96	75-125			
Toluene-d8 (S)	%.				93	94	75-125			

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch: 834079

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10615362005

METHOD BLANK: 4417330

Matrix: Water

Associated Lab Samples: 10615362005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloroform	ug/L	<0.23	1.0	0.23	07/11/22 19:22	
1,2-Dichlorobenzene-d4 (S)	%.	99	75-125		07/11/22 19:22	
4-Bromofluorobenzene (S)	%.	99	75-125		07/11/22 19:22	
Toluene-d8 (S)	%.	97	75-125		07/11/22 19:22	

LABORATORY CONTROL SAMPLE & LCSD: 4417331

4417332

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	20	16.4	16.1	82	80	74-125	2	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	99	75-125			
4-Bromofluorobenzene (S)	%.				100	101	75-125			
Toluene-d8 (S)	%.				99	98	75-125			

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	826322	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV UST-WATER
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10615362001, 10615362002, 10615362009, 10615362010

METHOD BLANK: 4377081 Matrix: Water

Associated Lab Samples: 10615362001, 10615362002, 10615362009, 10615362010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	07/06/22 19:54	
Ethylbenzene	ug/L	<0.11	1.0	0.11	07/06/22 19:54	
Toluene	ug/L	<0.10	1.0	0.10	07/06/22 19:54	
Xylene (Total)	ug/L	<0.20	3.0	0.20	07/06/22 19:54	
1,2-Dichlorobenzene-d4 (S)	%	99	75-125		07/06/22 19:54	
4-Bromofluorobenzene (S)	%	99	75-125		07/06/22 19:54	
Toluene-d8 (S)	%	99	75-125		07/06/22 19:54	

LABORATORY CONTROL SAMPLE & LCSD: 4377082

4377083

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	19.4	18.9	97	95	73-125	3	20	
Ethylbenzene	ug/L	20	19.1	18.8	96	94	75-125	2	20	
Toluene	ug/L	20	19.0	18.6	95	93	74-125	2	20	
Xylene (Total)	ug/L	60	56.7	56.8	95	95	72-125	0	20	
1,2-Dichlorobenzene-d4 (S)	%				98	98	75-125			
4-Bromofluorobenzene (S)	%				102	101	75-125			
Toluene-d8 (S)	%				101	100	75-125			

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

QC Batch:	826888	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV UST-WATER
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples: 10615362003, 10615362004, 10615362006, 10615362007, 10615362008			

METHOD BLANK: 4380380

Matrix: Water

Associated Lab Samples: 10615362003, 10615362004, 10615362006, 10615362007, 10615362008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	07/08/22 19:28	
Ethylbenzene	ug/L	<0.11	1.0	0.11	07/08/22 19:28	
Toluene	ug/L	<0.10	1.0	0.10	07/08/22 19:28	
Xylene (Total)	ug/L	<0.20	3.0	0.20	07/08/22 19:28	
1,2-Dichlorobenzene-d4 (S)	%	97	75-125		07/08/22 19:28	
4-Bromofluorobenzene (S)	%	96	75-125		07/08/22 19:28	
Toluene-d8 (S)	%	93	75-125		07/08/22 19:28	

LABORATORY CONTROL SAMPLE & LCSD: 4380381

4380383

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	18.7	18.1	93	90	73-125	3	20	
Ethylbenzene	ug/L	20	19.4	18.8	97	94	75-125	3	20	
Toluene	ug/L	20	17.4	17.0	87	85	74-125	2	20	
Xylene (Total)	ug/L	60	55.8	53.8	93	90	72-125	4	20	
1,2-Dichlorobenzene-d4 (S)	%				100	98	75-125			
4-Bromofluorobenzene (S)	%				97	96	75-125			
Toluene-d8 (S)	%				93	94	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P66 Burien-Revised Report
Pace Project No.: 10615362

QC Batch:	827214	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV UST-WATER
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10615362005

METHOD BLANK: 4382185 Matrix: Water

Associated Lab Samples: 10615362005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	07/11/22 19:22	
Ethylbenzene	ug/L	<0.11	1.0	0.11	07/11/22 19:22	
Toluene	ug/L	<0.10	1.0	0.10	07/11/22 19:22	
Xylene (Total)	ug/L	<0.20	3.0	0.20	07/11/22 19:22	
1,2-Dichlorobenzene-d4 (S)	%	99	75-125		07/11/22 19:22	
4-Bromofluorobenzene (S)	%	99	75-125		07/11/22 19:22	
Toluene-d8 (S)	%	97	75-125		07/11/22 19:22	

LABORATORY CONTROL SAMPLE & LCSD: 4382186

LABORATORY CONTROL SAMPLE & LCSD: 4382186			4382187							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	17.3	16.8	86	84	73-125	2	20	
Ethylbenzene	ug/L	20	17.7	17.5	89	87	75-125	1	20	
Toluene	ug/L	20	16.8	16.3	84	81	74-125	3	20	
Xylene (Total)	ug/L	60	52.8	52.5	88	87	72-125	1	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	99	75-125			
4-Bromofluorobenzene (S)	%.				100	101	75-125			
Toluene-d8 (S)	%.				99	98	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: P66 Burien-Revised Report
Pace Project No.: 10615362

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.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 826322
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 826888
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 827214
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 834077
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 834078
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 834079
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1 Analysis conducted outside the recognized method holding time.
J Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10615362001	GW-10D	NWTPHGX	1892826	NWTPH-Gx	1892826
10615362002	GW-13D	NWTPHGX	1892826	NWTPH-Gx	1892826
10615362003	GW-14D	NWTPHGX	1894150	NWTPH-Gx	1894150
10615362004	GW-14S	NWTPHGX	1895299	NWTPH-Gx	1895299
10615362005	GW-14V	NWTPHGX	1894612	NWTPH-Gx	1894612
10615362006	GW-15D	NWTPHGX	1893417	NWTPH-Gx	1893417
10615362007	GW-15S	NWTPHGX	1893417	NWTPH-Gx	1893417
10615362008	GWR-18D	NWTPHGX	1893417	NWTPH-Gx	1893417
10615362010	GW-13S	NWTPHGX	1892826	NWTPH-Gx	1892826
10615362001	GW-10D	EPA 3010A	826174	EPA 6010D	826582
10615362002	GW-13D	EPA 3010A	826174	EPA 6010D	826582
10615362003	GW-14D	EPA 3010A	826174	EPA 6010D	826582
10615362004	GW-14S	EPA 3010A	826174	EPA 6010D	826582
10615362005	GW-14V	EPA 3010A	826174	EPA 6010D	826582
10615362006	GW-15D	EPA 3010A	826174	EPA 6010D	826582
10615362007	GW-15S	EPA 3010A	826174	EPA 6010D	826582
10615362008	GWR-18D	EPA 3010A	826174	EPA 6010D	826582
10615362010	GW-13S	EPA 3010A	826174	EPA 6010D	826582
10615362001	GW-10D	EPA 3010A	826172	EPA 6010D	827109
10615362002	GW-13D	EPA 3010A	826172	EPA 6010D	827109
10615362003	GW-14D	EPA 3010A	826172	EPA 6010D	827109
10615362004	GW-14S	EPA 3010A	826172	EPA 6010D	827109
10615362005	GW-14V	EPA 3010A	826172	EPA 6010D	827109
10615362006	GW-15D	EPA 3010A	826172	EPA 6010D	827109
10615362007	GW-15S	EPA 3010A	826172	EPA 6010D	827109
10615362008	GWR-18D	EPA 3010A	826172	EPA 6010D	827109
10615362010	GW-13S	EPA 3010A	826172	EPA 6010D	827109
10615362001	GW-10D	EPA 8260D	834077		
10615362002	GW-13D	EPA 8260D	834077		
10615362003	GW-14D	EPA 8260D	834078		
10615362004	GW-14S	EPA 8260D	834078		
10615362005	GW-14V	EPA 8260D	834079		
10615362006	GW-15D	EPA 8260D	834078		
10615362007	GW-15S	EPA 8260D	834078		
10615362008	GWR-18D	EPA 8260D	834078		
10615362009	TRIP BLANK	EPA 8260D	834077		
10615362010	GW-13S	EPA 8260D	834077		
10615362001	GW-10D	EPA 8260D	826322		
10615362002	GW-13D	EPA 8260D	826322		
10615362003	GW-14D	EPA 8260D	826888		
10615362004	GW-14S	EPA 8260D	826888		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P66 Burien-Revised Report

Pace Project No.: 10615362

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10615362005	GW-14V	EPA 8260D	827214		
10615362006	GW-15D	EPA 8260D	826888		
10615362007	GW-15S	EPA 8260D	826888		
10615362008	GWR-18D	EPA 8260D	826888		
10615362009	TRIP BLANK	EPA 8260D	826322		
10615362010	GW-13S	EPA 8260D	826322		

REPORT OF LABORATORY ANALYSIS

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	DC#_ Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)
	Effective Date: 04/12/2022

Sample Condition Upon Receipt	Client Name: <u>ATC</u>	Project #:	WO# : 10615362 PM: JMG Due Date: 07/11/22 CLIENT: ATC_WA
Courier:	☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Speedee ☐ Commercial	See Exceptions ☐ ENV-FRM-MIN4-0142	
Tracking Number: <u>5405 1820 1303</u>			

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: ☐ T1(0461) ☒ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) ☐ T6(0235) ☐ T7 (0042) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Did Samples Originate in West Virginia? ☐ Yes ☐ No	Were All Container Temps Taken? ☐ Yes ☐ No ☐ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>0.2</u> °C	
Correction Factor: <u>True</u> Cooler Temp Corrected w/temp blank: <u>0.2</u> °C	
Average Corrected Temp (no temp blank only): _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container	

USDA Regulated Soil: ☒ N/A, water sample/Other: _____ **Date/Initials of Person Examining Contents:** 7.1.22 M

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 ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☒ Minneapolis ☐ Virginia	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. If Fecal: ☐ <8 hrs ☐ >8hr, <24 hrs, ☐ >24 hrs
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. <u>7 day</u>
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	9.
Containers Intact? ☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests? ☒ Yes ☐ No ☐ N/A	11. If no, write ID/ Date/Time on Container Below: See Exception ☐ ENV-FRM-MIN4-0142
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	
Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other-	
All containers needing acid/base preservation have been checked? ☒ Yes ☐ No ☐ N/A	12. Sample # <u>2/2</u> ☐ NaOH ☒ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide) ☒ Yes ☐ No ☐ N/A	Positive for Res. ☐ Yes ☐ No See Exception ☐ ENV-FRM-MIN4-0142 Chlorine? ☐ Yes ☐ No pH Paper Lot#
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Res. Chlorine 0-6 Roll <u>230320</u> 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container? ☐ Yes ☐ No ☒ N/A	
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. See Exception ☐ ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☒ Yes ☐ No ☐ N/A	14. Pace Trip Blank Lot # (if purchased): <u>367192</u>
Trip Blank Custody Seals Present? ☒ Yes ☐ No ☐ N/A	

CLIENT NOTIFICATION/RESOLUTION

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

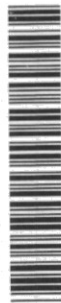
Comments/Resolution: _____

Project Manager Review: Jenni Gross **Date:** 7/1/22

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

Labeled by: NF

Internal Transfer Chain of Custody



F231

Pace Analytical
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: WA

Cert. Needed: ☒ Yes ☐ No

Owner Received Date: 7/1/2022 Results Requested By: 7/18/2022

Workorder: 10615362 Workorder Name: P66 Burien

Report To Subcontract To

Jennifer Gross
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers										Comments
						H65A										
1	GW-10D	PS	6/27/2022 15:40	10615362001	Water	3										LAB USE ONLY
2	GW-13D	PS	6/27/2022 13:20	10615362002	Water	3										-01
3	GW-14D	PS	6/29/2022 11:00	10615362003	Water	3										-02
4	GW-14S	PS	6/29/2022 10:00	10615362004	Water	3										-03
5	GW-14V	PS	6/30/2022 13:45	10615362005	Water	3										-04
6	GW-15D	PS	6/28/2022 12:55	10615362006	Water	3										-05
7	GW-15S	PS	6/28/2022 10:10	10615362007	Water	3										-06
8	GWR-18D	PS	6/28/2022 14:15	10615362008	Water	3										-07
9	GW-13S	PS	6/27/2022 12:30	10615362010	Water	3										-08

Transfers	Released By	Date/Time	Received By	Date/Time
1	CSM/Pace	7-522 15:10	M. Smith	7/10/2022 09:15
2				
3				

Cooler Temperature on Receipt °C Custody Seal ☒ or N Received on Ice ☒ or N Samples Intact ☒ or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This

Sample Receipt Checklist
COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
ran screen 40 5 mg/hr. ☒ Y ☐ N

0.540-0.5 DMS

546 888 5 22UG



APPENDIX B

FIELD REPORTS / GROUNDWATER GAUGING AND SAMPLING LOGS

ATLAS		Monitor Well Gauging Log						FLD-102
								Revision 0.0
								Jul-08
Atlas Branch: Seattle - 10282				Date: 06-27-2022		Page 1 of 2		
Atlas Representative(s): B. Goulet / I. Ancona				Project: P06 Burien - ADC 2063				
Contact Information: (206) 781-1449				Location: Burien, WA			Task No:	
				Project No: 2076000087			Temperature:	
Water Level Meter Model/ID: EnviroTape				Weather: clear				
				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)
Δ GW-10D	2"	10:00	10:05	—	75.46	—	92.95	
Δ GW-13B	2"	11:02	11:04	—	28.89	—	83.95	
Δ GW-13D	2"	11:00	11:02	—	75.08	—	49.48	
GW-14D	2"	10:55	10:57	—	75.85	—	78.70	
GW-14S	2"	10:56	10:58	—	35.68	—	50.61	
O GW-15D	2"	11:12	11:14	—	49.14	—	73.12	
O GW-15S	2"	11:13	11:15	—	29.11	—	45.05	
GW-16D	2"	09:47	09:50	—	77.37	—		gauge only
GW-17D	2"	10:12	10:14	—	76.96	—		↓
GW-17S	2"	10:00	10:12	—	44.58	—		
* GWR-18D	2"	10:39	10:43	—	75.20	—	71.50	
* GWR-18S	2"	10:38	10:40	—	52.65	—	71.52	55.21
GW-19D	2"							gauge only
GW-10S	2"	10:18	10:20	—	25.81	—	38.61	
GW-11D	2"	09:37	09:40	—	76.73	—		gauge only
Comments:								
* re-measured TD after completion of development activities								
GWR-18D =								
GWR-18S =								
Note: all wells gauged on 6/27/22.								
Δ = sampled 6/27								
O = sampled 6/28								

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.

ATLAS		Monitoring Well Purging and Sampling Log		FLD-103					
				Revision 1.0					
				Jul-08					
ATC Branch: Seattle - 10282		Date: 6/27/22	Page 1 of 1						
ATC Representative(s): B. Goulet, J. Ancona		Project: PGS AOC 2063	Location: Burien WA						
Contact Information: (206) 781-1449		Project No: 207600087	Task No: —						
Well ID: MW-10D		Weather: clear	Temperature: 90°						
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): ~84'									
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): 92.95						
Depth to Water (DTW)(feet): 75.46			Water Column (WC)(feet): 17.49						
LNAPL Thickness (ft): —			Purging Start Time: 15:23						
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
15:33	77.55	1.50	17.6	374.1	CL	8.77	6.64	184.4	
15:36	77.55	3.00	17.9	375.9	CL	8.72	6.64	178.4	
15:39	77.55	3.75	17.6	376.8	CL	8.60	6.63	167.0	
15:42	77.55	4.50	17.7	377.4	CL	8.57	6.64	160.1	
Sample Data									
Sample ID: MW-10D		Time of Sample: 15:45		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): 77.55				Approximate Flow Rate (GPM):					
Recovery Type: ☒ Fast ☐ Slow				% Recovery = 100					
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments:									

ATLAS

Monitoring Well Purging and Sampling Log

FLD-103

Revision 1.0

Jul-08

ATC Branch: Seattle - 10282

Date: 6/27/12

Page 1 of 1

ATC Representative(s):

B. Goulet, I. Ancona

Project: PEG ADL 2063

Location: Burien WA

Contact Information: (206) 781-1449

Project No: 2076000087

Task No: —

Well ID:

GW-13S

Weather: Clear

Temperature: 90°

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) ~39'

Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing ☐ Other: —

Casing Volume Information

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): 48.49

Depth to Water (DTW)(feet): 28.89

Water Column (WC)(feet): 19.60

LNAPL Thickness (ft): —

Purging Start Time: 12:06

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
12:18	31.18	3	16.5	748.3	CL	1.84	6.26	121.5	
12:20	31.29	3.75	16.6	748.3	CL	1.67	6.32	106.4	
12:23	31.40	4.50	16.5	359.3	CL	1.66	6.39	93.9	
12:26	31.44	5.00	16.6	349.4	CL	1.74	6.41	85.8	

Sample Data

Sample ID: GW-13S	Time of Sample: 12:30	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): 31.44	Approximate Flow Rate (GPM):
Recovery Type: ☒ Fast ☐ Slow	% Recovery = 100

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

Comments:

31 gpm

ATLAS		Monitoring Well Purging and Sampling Log		FLD-103					
				Revision 1.0					
				Jul-08					
				Page 1 of 1					
Atlas Branch: Seattle - 10282		Date: 6/27/22							
Atlas Representative(s): B. Goulet, I. Arcona		Project: PGG ADC 2063							
Contact Information: (206) 781-1449		Location: Burien WA		Task No: _____					
Well ID: MW-13D		Project No: 2076000087		Temperature: 90°					
		Weather: clear							
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: _____		Intake Depth (feet below TOC) 279'							
3 Well Volumes _____ Low Flow ☒ Micro Purge _____		Dedicated Tubing Other: _____							
Sampling Method: _____ Teflon Bailer _____ Disposable Bailer ☒									
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): 83.95						
Depth to Water (DTW)(feet): 75.08			Water Column (WC)(feet): 12.87 - 8.87						
LNAPL Thickness (ft): _____			Purging Start Time: 13:03						
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
13:13	75.25	2.00	16.8	434.0	CL	5.38	7.11	191.3	
13:16	75.25	2.50	16.7	437.3	CL	5.32	7.09	184.9	
13:19	75.25	3.00	16.8	437.2	CL	5.24	7.09	180.3	
Sample Data									
Sample ID: MW-13D		Time of Sample: 13:20		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): 75.25				Approximate Flow Rate (GPM):					
Recovery Type: ☒ Fast ☐ Slow				% Recovery = 100					
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: 75									

ATLAS		Monitoring Well Purging and Sampling Log		FLD-103					
				Revision 1.0					
				Jul-08					
ATC Branch: Seattle - 10282		Date: 6/28/22	Page 1 of 1						
ATC Representative(s): B. Goulet, I. Ancona		Project: P66 AOC 2063							
Contact Information: (206) 781-1449		Location: Burien WA							
Well ID: GW-145		Project No: 2076000087		Task No: —					
		Weather: partly cloudy		Temperature: 65°					
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) ~42'									
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): 50.61						
Depth to Water (DTW)(feet): 35.68			Water Column (WC)(feet): 14.93						
LNAPL Thickness (ft): —			Purging Start Time: 09:40						
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
09:50	38.93	0.75	15.8	440.6	CL	0.19	6.89	-25.8	
09:53	39.00	0.85	15.9	444.0	CL	0.17	6.93	-38.9	
09:56	39.05	1.00	16.1	445.6	CL	0.19	6.95	-50.4	
09:59	39.11	1.15	16.3	447.9	CL	0.20	6.97	-59.1	
Sample Data									
Sample ID: GW-145		Time of Sample: 10:00		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): 39.11				Approximate Flow Rate (GPM):					
Recovery Type: ☒ Fast ☐ Slow				% Recovery = 100					
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: 30 - flow rate									
* Strong Pb									

ATLAS		Monitoring Well Purging and Sampling Log		FLD-103					
				Revision 1.0					
				Jul-08					
				Page 1 of 1					
ATC Branch: Seattle - 10282		Date: 6/29/22							
ATC Representative(s): B. Goulet, I. Ancona		Project: P66 ABC 2063							
Contact Information: (206) 781-1449		Location: Burien WA		Task No: —					
Well ID: GW-14D		Project No: 2076000087		Temperature: 65°					
		Weather: partly cloudy							
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'									
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): 78.70						
Depth to Water (DTW)(feet): 75.85 / 75.99			Water Column (WC)(feet): 2.85 / 2.71						
LNAPL Thickness (ft): —			Purging Start Time: 10:38						
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
10:48	76.23	1.25	15.8	563.9	CL	0.27	6.99	-3.6	
10:51	76.23	1.50	16.1	566.3	CL	0.21	7.02	-8.7	
10:54	76.23	1.75	16.3	567.3	CL	0.16	7.03	-13.2	
Sample Data									
Sample ID: GW-14D		Time of Sample: 11:00		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): 76.23			Approximate Flow Rate (GPM):						
Recovery Type: ☒ Fast ☐ Slow			% Recovery = 100						
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: 60-flow rate									
*DTW → gauged 6/27/22 / gauged 6/29/22									

ATLAS		Monitoring Well Purging and Sampling Log		FLD-103					
				Revision 1.0					
				Jul-08					
ATC Branch: Seattle - 10282		Date: 6/28/22	Page 1 of 1						
ATC Representative(s): B. Groulet, I. Ancona		Project: P66 AOL 2063							
Contact Information: (206) 781-1449		Location: Burien WA							
Well ID: GW-15S		Project No: 2076000087	Task No: —						
		Weather: clear cloudy	Temperature: 65°						
Purging & Sampling Instrumentation & Method									
Water Level Meter (Model/ID): Envirotec		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) ~38'									
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): 45.05						
Depth to Water (DTW)(feet): 29.11			Water Column (WC)(feet): 15.94						
LNAPL Thickness (ft): —			Purging Start Time: 09:48						
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
09:58	30.55	1.25	16.2	713	CL	0.21	6.64	79.0	
10:01	30.59	1.50	16.4	709	CL	0.23	6.65	75.6	
10:04	30.65	1.75	16.4	713	CL	0.20	6.66	72.7	
Sample Data									
Sample ID: GW-15S		Time of Sample: 10:10							
Container Types, Volumes, & Quantities:				Filtered (yes/no)	Preservatives	Analytical Parameters			
6-40ml VOAs				NO	HCl	Gx, VOCs			
2-250ml PE				NO/Lab Filtered	HNO3	Pb, Dissolved Pb			
Well Recovery Data									
Maximum Drawdown (DTWm)(feet): 30.65				Approximate Flow Rate (GPM):					
Recovery Type: ☒ Fast ☐ Slow				% Recovery = 100					
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: 30									

ATLAS	Monitoring Well Purging and Sampling Log		FLD-103						
			Revision 1.0						
			Jul-08						
ATC Branch: Seattle - 10282		Date: June 30, 2022	Page 1 of 2						
ATC Representative(s): E. Silver B. Goulet, J. Aronson		Project: P66 AOL 2063	Location: Burien WA						
Contact Information: (206) 781-1449		Project No: 2076000087	Task No: —						
Well ID: GIW-14V		Weather: sunny, mid 60's	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) 137.9 ← 136.4 + 1.5 =									
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): NA		Total Well Depth (feet): 153							
Depth to Water (DTW)(feet): 128.63		Water Column (WC)(feet): 24.37							
LNAPL Thickness (ft): NA		Purging Start Time: 10:20							
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
10:35	128.62	~1.5 gal	16.6	392.5	slightly cloudy	2.91	6.92	141.7	
10:40	128.64	~1.5	18.0	372.5	"	2.77	6.96	131.6	
10:45	128.65		17.3			8.28			
13:00	128.63	~2 gal	18.6	411.1		3.83	7.52	128.5	
13:15	128.63	~2.75	15.4	396.2		2.88	6.96	123.9	
Sample Data									
Sample ID: GIW-14V		Time of Sample: _____			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): 240 ml/min				
Recovery Type: ☒ Fast ☐ Slow					% Recovery = 100				
Purge Water Disposition (Attach Drum Inventory Log - FLD 108): _____									
Comments: Restarted sampling with new pump at 1300. Pump is set at same depth as previously.									

Pump stopped working. waiting for replacement

		Monitoring Well Purging and Sampling Log		FLD-103 Revision 1.0 Jul-08					
ATC Branch: Seattle - 10282		Date: 6-30-22		Page 2 of 2					
ATC Representative(s): B. Boulet / E. Silver		Project: Buvien Pk6		Location: 12600 1st Ave S					
Contact Information: (206) 781-1449		Project No: 207000087		Task No:					
Well ID: Buvien-14V		Weather: mostly sunny		Temperature: 68°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) 136									
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): NA			Total Well Depth (feet): 153						
Depth to Water (DTW)(feet): 128.63			Water Column (WC)(feet): 24'						
LNAPL Thickness (ft):			Purging Start Time: 1300 (2nd 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
1320	128.64	~3 gal	17.7	396.6	cloudy	8	6.93	123.2	flow rate increased to allow purge
1325	128.62	~3.5	17.4	397.6		2.54	6.91	118.5	
1330	128.41	4 gal	17.3	395.8	mostly clear	2.40	6.90	113.6	
1335	128.63	4.5	17.0	394.5		2.13	6.88	111.1	
Sample Data									
Sample ID:		Time of Sample:		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:									

		Monitoring Well Purging and Sampling Log		FLD-103 Revision 1.0 Jul-08					
ATC Branch: Seattle - 10282		Date: 6/28/22		Page 1 of 1					
ATC Representative(s): B. Goulet, I. Ancona		Project: P66 AOC 2063		Location: Buriem WA					
Contact Information: (206) 781-1449		Project No: 2076000087		Task No: /					
Well ID: GW-15D		Weather: cloudy		Temperature: 65°					
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) ~ 4' 10" / 60'									
Sampling Method: ☐ Teflon Bailer ☐ Disposable Bailer ☒ Dedicated Tubing Other: /									
Casing Volume Information			Purging Calculations						
Casing Diameter (Circle): <u>2"</u> 4" 6" Other			Casing Volumes (CV):						
Casing Multiplier (CM)(gallons/foot): 0.16 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): 73.12						
Depth to Water (DTW)(feet): 49.14			Water Column (WC)(feet): 23.98						
LNAPL Thickness (ft): <u> </u>			Purging Start Time: 12:37						
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
12:47	52.66	1.00	15.7	378.9	CL	1.33	6.58	101.0	
12:50	52.19	1.25	16.0	377.1	CL	1.12	6.58	100.1	
12:53	52.00	1.50	15.8	377.7	CL	0.95	6.56	99.9	
Sample Data									
Sample ID: GW-15D		Time of Sample: 12:55		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): 52.66				Approximate Flow Rate (GPM):					
Recovery Type: ☒ Fast ☐ Slow				% Recovery = 100					
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: 37-flow rate									

	Monitoring Well Purging and Sampling Log		FLD-103 Revision 1.0 Jul-08						
	ATC Branch: Seattle - 10282		Date: 6/28/22						
	ATC Representative(s): B. Giorlet, I. Ancona		Project: P66 ADL 2063						
Contact Information: (206) 781-1449		Location: Burien WA		Page 1 of 1					
Well ID: GWR-18D		Project No: 2076000087		Task No: —					
		Weather: partly cloudy		Temperature: 65°					
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) ~83'									
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): 0.15 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): 91.50							
Depth to Water (DTW)(feet): 75.20 / 76.38		Water Column (WC)(feet): 16.30 - 15.11							
LNAPL Thickness (ft): —		Purging Start Time: 13:54							
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
14:04	77.15	1.00	16.2	652	CL	0.30	6.87	27.4	
14:07	76.98	1.25	16.3	648	CL	0.31	6.90	21.3	
14:10	76.93	1.50	16.6	650	CL	0.30	6.91	13.6	
Sample Data									
Sample ID: GWR-18D		Time of Sample: 14:15		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): 77.15		Approximate Flow Rate (GPM):							
Recovery Type: ☒ Fast ☐ Slow		% Recovery = 100							
Purge Water Disposition (Attach Drum Inventory Log - FLD 108):									
Comments: 57 - flow rate									
* DTW → gauged 6/27/22 / gauged 6/28/22 (after development)									

		Monitoring Well Purging and Sampling Log			FLD-103				
				Revision 1.0					
				Jul-08					
ATC Branch: Seattle - 10282			Date:		Page 1 of 1				
ATC Representative(s): B. Goulet, I. Ancona			Project: P66 ADC 2063						
			Location: Burien WA						
Contact Information: (206) 781-1449			Project No: 2076000087		Task No: —				
Well ID: GWR-18S			Weather:		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) ~54'									
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): 55.21						
Depth to Water (DTW)(feet): 52.65			Water Column (WC)(feet): 2.56						
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
Sample Data									
Sample ID: GWR-18S		Time of Sample:		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:									



APPENDIX C

NON-HAZARDOUS DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAVSQG	2. Page 1 of 1	3. Emergency Response Phone 888-785-7225	4. Waste Tracking Number 356071/D441735	
5. Generator's Name and Mailing Address Phillips 66 No. 2701476 c/o ATC Group 6347 Seaview Ave NW Seattle, WA 98107 Generator's Phone: 206-491-9754		Generator's Site Address (if different than mailing address) Phillips 66 No. 2701476 12660 First Ave South Seattle, WA 98168				
6. Transporter 1 Company Name Advanced Chemical Transport Inc./DBA ACTenviro		U.S. EPA ID Number CAR000070540				
7. Transporter 2 Company Name R Transport, INC		U.S. EPA ID Number				
8. Designated Facility Name and Site Address Columbia Ridge Landfill 18177 Cedar Springs Lane Arlington, OR 97812 Facility's Phone: 541-454-2030		U.S. EPA ID Number WAH000028338 ORD987173457				
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)		01	CM	12,000	P	55940
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information Project Number 356071 Document #: D441735 WHXU0085440 1) 137858OR PHC-						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name Elisabeth Silverman Signature Elisabeth Silverman Month 6 Day 7 Year 22						
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Year Transporter 2 Printed/Typed Name Signature Month Day Year						
17. Discrepancy 17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Trans 3. UPRR James Rippert 6/9/22						
17b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone:						
17c. Signature of Alternate Facility (or Generator) Month Day Year						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Signature Month Day Year						