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)	Benzo(a) pyrene (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**	**0.1**	**5**	**0.01**	**NA**	**5**	**NA**	**5**	**5**
GW-13S	09/21/22	33.48	0.00	379.65	**2,210**	--	--	**6.3**	3.6	45.7	88.4	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--	--
(Cont.)	12/14/22	36.21	0.00	376.92	**1,370**	--	--	4.4	2.5	38.7	58.2	--	<2.6	<2.6	<0.23	<0.011	--	--	--	--	--	--	--
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	NM	0.00	NE	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	--	--	--	--	--	--	--	--
	09/21/22	75.27	0.00	337.67	147	--	--	<0.10	0.13J	0.26J	0.88J	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--	--
	12/14/22	76.10	0.00	336.84	<22.6	--	--	<0.10	<0.10	<0.11	<0.20	--	<2.6	<2.6	<0.23	<0.012	--	--	--	--	--	--	--
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	2.9J	--	--	--	--	--	--	--	--	--
	10/08/21	44.81	0.00	368.97	**51,800**	--	--	**290**	**2,310**	**1,810**	**8,560**	--	<10.0	<10.0	--	--	--	--	--	--	--	--	--
	12/17/21	42.92	0.00	370.86	**65,900**	--	--	**26.1J**	**1,720**	**2,060**	**9,870**	--	<2.6	<2.6	--	--	--	--	--	--	--	--	--
	03/31/22	36.84	0.00	376.94	**19,400**	--	--	**10.4**	514	575	**2,350**	--	<2.6	<2.6	--	--	--	--	--	--	--	--	--
	06/29/22	35.68	0.00	378.10	**21,800**	--	--	**18.4**	715	**1,040**	**3,930**	--	<2.6	<2.6	**2.5J**	**--**	--	--	--	--	--	--	--
	09/20/22	41.06	0.00	372.72	**49,800**	--	--	**96.3**	**2,520**	**2,060**	**9,160**	--	<2.6	3.6J	**<5.8**	**--**	--	--	--	--	--	--	--
	12/16/22	44.52	0.00	369.26	**37,100**	--	--	**336**	813	**1,600**	**6,070**	--	3.1J	<2.6	**<5.8**	**1.1**	--	--	--	--	--	--	--
GW-14D	12/13/18	75.00	0.00	338.72	<19.6	--	--	**12**	0.40 J	<0.14	<0.31	--	<2.0	<2.0	--	--	--	--	--	--	--	--	--
413.72	03/30/19	76.12	0.00	337.60	502	--	--	**580**	1.5	34.4	3.5	--	<2.0	<2.0	--	--	--	--	--	--	--	--	--
	06/28/19	76.32	0.00	337.40	604	--	--	**956**	7.5	60.0	19.2	--	<2.0	<2.0	--	--	--	--	--	--	--	--	--
	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 gauged only 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 gauged only 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	--	--	--	--	--	--	--	--
	09/20/22	74.99	0.00	338.73	**2,310**	--	--	**147**	32.3	54.4	257	--	<2.6	<2.6	0.28J	--	--	--	--	--	--	--	--
	12/16/22	76.83	0.00	336.89	79.1J	--	--	**53.4**	0.19J	0.15J	0.26J	--	6.0J	<2.6	<0.23	<0.013	--	--	--	--	--	--	--
GW-14V	06/30/22	128.63	0.00	285.15	<31.6	--	--	<0.10	0.12J	<0.11	<0.20	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--	--
413.78	09/21/22	128.59	0.00	285.19	280	--	--	<0.10	0.24J	2.6	12.7	--	2.7J	<2.6	<0.23	--	--	--	--	--	--	--	--
	12/16/22	129.23	0.00	284.55	<22.6	--	--	<0.10	<0.10	<0.11	<0.20	--	<2.6	<2.6	<0.23	<0.011	--	--	--	--	--	--	--

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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)	Benzo(a) pyrene (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**	**0.1**	**5**	**0.01**	**NA**	**5**	**NA**	**5**	**5**
GW-15S	12/11/18	39.30	0.00	374.76	Well not sampled due to insufficient water.																		
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	--	--	--	--	--	--	--	--
	09/20/22	33.23	0.00	380.83	740	--	--	1.5	3.0	23.2	69.7	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--	--
	12/14/22	36.34	0.00	377.72	247	--	--	0.44J	0.43J	16.6	3.4	--	<2.6	<2.6	<0.23	<0.11	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--
	03/12/20	53.98	0.00	360.08	<38.3	--	--	<0.12	<0.12	<0.075	<0.29	--	<2.0	<2.0	--	--	--	--	--	--	--	--	--
	07/31/20	NM	0.00	NE	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	--	--	--	--	--	--	--	--
	09/20/22	51.37	0.00	362.64	47.1J	--	--	<0.10	<0.10	0.16J	0.56J	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--	--
	12/14/22	54.38	0.00	359.63	<22.6	--	--	<0.10	<0.10	<0.11	<0.20	--	<2.6	<2.6	<0.23	<0.011	--	--	--	--	--	--	--
GW-16S	12/11/18	48.50	0.00	366.94	Well not sampled due to insufficient water.																		
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	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	03/09/21	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	07/14/21	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	10/07/21	45.99	0.00	369.45	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/16/21	49.65	0.00	365.79	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	03/31/22	36.60	0.00	378.84	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	06/27/22	38.21	0.00	377.23	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	09/20/22	42.79	0.00	372.65	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/14/22	46.57	0.00	368.87	Well gauged only this quarter - concentrations historically below cleanup levels.																		
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	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	07/14/21	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	10/07/21	78.47	0.00	336.77	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/16/21	79.06	0.00	336.18	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	03/31/22	78.52	0.00	336.72	Well gauged only this quarter - concentrations historically below cleanup levels.																		

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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)	Benzo(a) pyrene (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**	**0.1**	**5**	**0.01**	**NA**	**5**	**NA**	**5**	**5**
GW-16D	06/27/22	77.37	0.00	337.87	Well gauged only this quarter - concentrations historically below cleanup levels.																		
(Cont.)	09/20/22	77.44	0.00	337.80	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/14/22	78.40	0.00	336.84	Well gauged only this quarter - concentrations historically below cleanup levels.																		
GW-17S	12/11/18	49.30	0.00	365.54	Well not sampled due to insufficient water.																		
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	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	03/09/21	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	07/14/21	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	10/07/21	48.61	0.00	366.23	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/16/21	49.24	0.00	365.60	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	03/31/22	43.94	0.00	370.90	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	06/27/22	44.58	0.00	370.26	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	09/20/22	46.82	0.00	368.02	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/14/22	49.43	0.00	365.41	Well gauged only this quarter - concentrations historically below cleanup levels.																		
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	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	07/14/21	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	10/07/21	77.98	0.00	337.09	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/16/21	78.52	0.00	336.55	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	03/31/22	78.06	0.00	337.01	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	06/27/22	76.96	0.00	338.11	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	09/20/22	76.92	0.00	338.15	Well gauged only this quarter - concentrations historically below cleanup levels.																		
	12/14/22	77.84	0.00	337.23	Well gauged only this quarter - concentrations historically below cleanup levels.																		
GW-18S	12/11/18	48.38	0.00	365.93	Well not sampled due to insufficient water.																		
414.31	03/30/19	DRY	0.00	NE	Well not sampled due to insufficient water.																		
	06/25/19	48.18	0.00	366.13	Well not sampled due to insufficient water.																		
	09/12/19	48.50	0.00	365.81	Well not sampled due to insufficient water.																		
	12/12/19	48.30	0.00	366.01	Well not sampled due to insufficient water.																		
	03/11/20	48.49	0.00	365.82	Well not sampled due to insufficient water.																		
	07/31/20	NM	0.00	NE	Well not monitored or sampled this quarter.																		
	03/09/21	48.60	0.00	365.71	Well not sampled due to insufficient water.																		
	07/14/21	48.34	0.00	365.97	Well not sampled due to insufficient water.																		
	10/07/21	48.93	0.00	365.38	Well not sampled due to insufficient water.																		
	12/16/21	49.15	0.00	365.16	Well not sampled due to insufficient water.																		
	03/31/22	48.48	0.00	365.83	Well not sampled due to insufficient water.																		
	06/27/22	NM	0.00	NE	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	--	--	--	--	--	--	--	--	--
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	Well not sampled due to insufficient water.																		
	07/31/20	77.60	0.00	336.58	Well not sampled due to insufficient water.																		
	03/09/21	78.05	0.00	336.13	Well not sampled due to insufficient water.																		
	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	Well not sampled due to insufficient water.																		

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)	Benzo(a) pyrene (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**	**0.1**	**5**	**0.01**	**NA**	**5**	**NA**	**5**	**5**
GW-18D	03/31/22	77.38	0.00	336.80	Well not sampled due to insufficient water.																		
(Cont.)	06/27/22	NM	0.00	NE	Well not monitored or sampled this quarter																		
GWR-18S	06/27/22	52.65	0.00	361.69	Well not sampled due to insufficient water.																		
414.34	09/20/22	53.56	0.00	360.78	Well not sampled due to insufficient water.																		
	12/14/22	53.87	0.00	360.47	Well not sampled due to insufficient water.																		
GWR-18D	06/28/22	75.20	0.00	339.02	**2,640**	--	--	**28.1**	0.92J	31.6	43.3	--	5.0J	4.7J	0.52J	--	--	--	--	--	--	--	--
414.22	09/21/22	76.32	0.00	337.90	**2,530**	--	--	**34.2**	0.97J	24.7	19.6	--	<2.6	<2.6	<0.23	--	--	--	--	--	--	--	--
	12/16/22	77.26	0.00	336.96	**1,530**	--	--	**24.2**	0.38J	15.2	0.25J	--	<2.6	<2.6	<0.23	<0.011	--	--	--	--	--	--	--

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 benze
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 deltection 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

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

December 28, 2022

Elisabeth Silver
Atlas
6347 Seaview Ave NW
Seattle, WA 98107

RE: Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 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 Analytical Services - Minneapolis

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

Sincerely,

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

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

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
GMP+ Certification #: GMP050884
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, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10637518001	**GW-10D**	Water	12/16/22 11:25	12/17/22 09:50
10637518002	**GW-13S**	Water	12/14/22 13:30	12/17/22 09:50
10637518003	**GW-13D**	Water	12/14/22 12:45	12/17/22 09:50
10637518004	**GW-14S**	Water	12/16/22 15:00	12/17/22 09:50
10637518005	**GW-14D**	Water	12/16/22 14:20	12/17/22 09:50
10637518006	**GW-14V**	Water	12/16/22 12:55	12/17/22 09:50
10637518007	**GW-15S**	Water	12/14/22 16:35	12/17/22 09:50
10637518008	**GW-15D**	Water	12/14/22 15:45	12/17/22 09:50
10637518009	**GWR-18D**	Water	12/16/22 10:30	12/17/22 09:50
10637518010	**Trip Blank**	Water	12/14/22 00:00	12/17/22 09:50

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10637518001	**GW-10D**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518002	**GW-13S**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518003	**GW-13D**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518004	**GW-14S**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518005	**GW-14D**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518006	**GW-14V**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518007	**GW-15S**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518008	**GW-15D**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518009	**GWR-18D**	NWTPH-Gx	TM2	2	PASI-M
		EPA 6010D	IP	1	PASI-M
		EPA 6010D	DM	1	PASI-M
		EPA 8270E by SIM	KJ3	3	PASI-M
		EPA 8260D	PAB	8	PASI-M
10637518010	**Trip Blank**	NWTPH-Gx	TM2	2	PASI-M
		EPA 8260D	PAB	8	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-10D **Lab ID: 10637518001** Collected: 12/16/22 11:25 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/20/22 21:46		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	50-150		1		12/20/22 21:46	98-08-8	
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	12/22/22 05:53	12/22/22 12:58	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	12/22/22 05:53	12/22/22 13:40	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.011**	ug/L	0.038	0.011	1	12/19/22 18:13	12/20/22 22:10	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	73	%.	52-125		1	12/19/22 18:13	12/20/22 22:10	321-60-8	
p-Terphenyl-d14 (S)	89	%.	51-125		1	12/19/22 18:13	12/20/22 22:10	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 13:19	71-43-2	
Chloroform	**0.37J**	ug/L	1.0	0.23	1		12/21/22 13:19	67-66-3	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/21/22 13:19	100-41-4	
Toluene	**0.12J**	ug/L	1.0	0.10	1		12/21/22 13:19	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/21/22 13:19	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125		1		12/21/22 13:19	2199-69-1	
4-Bromofluorobenzene (S)	102	%.	75-125		1		12/21/22 13:19	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		12/21/22 13:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-13S **Lab ID: 10637518002** Collected: 12/14/22 13:30 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**1370**	ug/L	100	22.6	1		12/20/22 22:01		
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%.	50-150		1		12/20/22 22:01	98-08-8	
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	12/22/22 05:53	12/22/22 13:10	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	12/22/22 05:53	12/22/22 13:48	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.011**	ug/L	0.039	0.011	1	12/19/22 18:13	12/22/22 12:30	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	82	%.	52-125		1	12/19/22 18:13	12/22/22 12:30	321-60-8	
p-Terphenyl-d14 (S)	93	%.	51-125		1	12/19/22 18:13	12/22/22 12:30	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**4.4**	ug/L	1.0	0.10	1		12/21/22 13:35	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 13:35	67-66-3	
Ethylbenzene	**38.7**	ug/L	1.0	0.11	1		12/21/22 13:35	100-41-4	
Toluene	**2.5**	ug/L	1.0	0.10	1		12/21/22 13:35	108-88-3	
Xylene (Total)	**58.2**	ug/L	3.0	0.20	1		12/21/22 13:35	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	105	%.	75-125		1		12/21/22 13:35	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		12/21/22 13:35	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/21/22 13:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-13D **Lab ID: 10637518003** Collected: 12/14/22 12:45 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/20/22 22:16		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	50-150		1		12/20/22 22:16	98-08-8	
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	12/22/22 05:53	12/22/22 13:11	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	12/22/22 05:53	12/22/22 13:50	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.012**	ug/L	0.043	0.012	1	12/19/22 18:13	12/21/22 15:51	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	83	%.	52-125		1	12/19/22 18:13	12/21/22 15:51	321-60-8	
p-Terphenyl-d14 (S)	91	%.	51-125		1	12/19/22 18:13	12/21/22 15:51	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 13:50	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 13:50	67-66-3	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/21/22 13:50	100-41-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 13:50	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/21/22 13:50	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		12/21/22 13:50	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		12/21/22 13:50	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/21/22 13:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-14S **Lab ID: 10637518004** Collected: 12/16/22 15:00 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**37100**	ug/L	2500	565	25		12/20/22 22:31		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	50-150		25		12/20/22 22:31	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis								
Lead	**3.1J**	ug/L	10.0	2.6	1	12/22/22 05:53	12/22/22 13:13	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	12/22/22 05:53	12/22/22 13:51	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**1.1**	ug/L	0.049	0.014	1	12/19/22 18:13	12/21/22 16:20	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	73	%.	52-125		1	12/19/22 18:13	12/21/22 16:20	321-60-8	
p-Terphenyl-d14 (S)	80	%.	51-125		1	12/19/22 18:13	12/21/22 16:20	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**336**	ug/L	25.0	2.6	25		12/22/22 22:14	71-43-2	
Chloroform	**<5.8**	ug/L	25.0	5.8	25		12/22/22 22:14	67-66-3	
Ethylbenzene	**1600**	ug/L	25.0	2.7	25		12/22/22 22:14	100-41-4	
Toluene	**813**	ug/L	25.0	2.6	25		12/22/22 22:14	108-88-3	
Xylene (Total)	**6070**	ug/L	75.0	5.0	25		12/22/22 22:14	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125		25		12/22/22 22:14	2199-69-1	D4
4-Bromofluorobenzene (S)	99	%.	75-125		25		12/22/22 22:14	460-00-4	
Toluene-d8 (S)	103	%.	75-125		25		12/22/22 22:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-14D **Lab ID: 10637518005** Collected: 12/16/22 14:20 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**79.1J**	ug/L	100	22.6	1		12/20/22 23:00		
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%.	50-150		1		12/20/22 23:00	98-08-8	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis								
Lead	**6.0J**	ug/L	10.0	2.6	1	12/22/22 05:53	12/22/22 13:15	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	12/22/22 05:53	12/22/22 14:06	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.013**	ug/L	0.044	0.013	1	12/19/22 18:13	12/21/22 16:50	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	72	%.	52-125		1	12/19/22 18:13	12/21/22 16:50	321-60-8	
p-Terphenyl-d14 (S)	75	%.	51-125		1	12/19/22 18:13	12/21/22 16:50	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**53.4**	ug/L	1.0	0.10	1		12/21/22 19:19	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 19:19	67-66-3	
Ethylbenzene	**0.15J**	ug/L	1.0	0.11	1		12/21/22 19:19	100-41-4	
Toluene	**0.19J**	ug/L	1.0	0.10	1		12/21/22 19:19	108-88-3	
Xylene (Total)	**0.26J**	ug/L	3.0	0.20	1		12/21/22 19:19	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		12/21/22 19:19	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		12/21/22 19:19	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/21/22 19:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-14V **Lab ID: 10637518006** Collected: 12/16/22 12:55 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/20/22 23:15		
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%.	50-150		1		12/20/22 23:15	98-08-8	
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	12/22/22 05:53	12/22/22 13:16	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	12/22/22 05:53	12/22/22 14:07	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.011**	ug/L	0.039	0.011	1	12/19/22 18:13	12/21/22 17:49	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	75	%.	52-125		1	12/19/22 18:13	12/21/22 17:49	321-60-8	
p-Terphenyl-d14 (S)	86	%.	51-125		1	12/19/22 18:13	12/21/22 17:49	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 19:34	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 19:34	67-66-3	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/21/22 19:34	100-41-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 19:34	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/21/22 19:34	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		12/21/22 19:34	2199-69-1	
4-Bromofluorobenzene (S)	103	%.	75-125		1		12/21/22 19:34	460-00-4	
Toluene-d8 (S)	101	%.	75-125		1		12/21/22 19:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-15S **Lab ID: 10637518007** Collected: 12/14/22 16:35 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**247**	ug/L	100	22.6	1		12/20/22 23:30		
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%.	50-150		1		12/20/22 23:30	98-08-8	
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	12/22/22 05:53	12/22/22 13:18	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	12/22/22 05:53	12/22/22 14:09	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.011**	ug/L	0.039	0.011	1	12/19/22 18:13	12/21/22 18:18	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	76	%.	52-125		1	12/19/22 18:13	12/21/22 18:18	321-60-8	
p-Terphenyl-d14 (S)	90	%.	51-125		1	12/19/22 18:13	12/21/22 18:18	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**0.44J**	ug/L	1.0	0.10	1		12/21/22 19:50	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 19:50	67-66-3	
Ethylbenzene	**16.6**	ug/L	1.0	0.11	1		12/21/22 19:50	100-41-4	
Toluene	**0.43J**	ug/L	1.0	0.10	1		12/21/22 19:50	108-88-3	
Xylene (Total)	**3.4**	ug/L	3.0	0.20	1		12/21/22 19:50	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125		1		12/21/22 19:50	2199-69-1	
4-Bromofluorobenzene (S)	103	%.	75-125		1		12/21/22 19:50	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/21/22 19:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GW-15D **Lab ID: 10637518008** Collected: 12/14/22 15:45 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/20/22 23:45		
Surrogates									
a,a,a-Trifluorotoluene (S)	93	%.	50-150		1		12/20/22 23:45	98-08-8	
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	12/22/22 05:53	12/22/22 13:20	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	12/22/22 05:53	12/22/22 14:11	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.011**	ug/L	0.039	0.011	1	12/19/22 18:13	12/21/22 18:48	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	52-125		1	12/19/22 18:13	12/21/22 18:48	321-60-8	
p-Terphenyl-d14 (S)	94	%.	51-125		1	12/19/22 18:13	12/21/22 18:48	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 20:05	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 20:05	67-66-3	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/21/22 20:05	100-41-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 20:05	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/21/22 20:05	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125		1		12/21/22 20:05	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		12/21/22 20:05	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/21/22 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: GWR-18D **Lab ID: 10637518009** Collected: 12/16/22 10:30 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**1530**	ug/L	100	22.6	1		12/21/22 00:00		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	50-150		1		12/21/22 00:00	98-08-8	
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	12/22/22 05:53	12/22/22 13:21	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	12/22/22 05:53	12/22/22 14:12	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)pyrene	**<0.011**	ug/L	0.038	0.011	1	12/19/22 18:13	12/21/22 19:17	50-32-8	
Surrogates									
2-Fluorobiphenyl (S)	66	%.	52-125		1	12/19/22 18:13	12/21/22 19:17	321-60-8	
p-Terphenyl-d14 (S)	84	%.	51-125		1	12/19/22 18:13	12/21/22 19:17	1718-51-0	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**24.2**	ug/L	1.0	0.10	1		12/21/22 20:21	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 20:21	67-66-3	
Ethylbenzene	**15.2**	ug/L	1.0	0.11	1		12/21/22 20:21	100-41-4	
Toluene	**0.38J**	ug/L	1.0	0.10	1		12/21/22 20:21	108-88-3	
Xylene (Total)	**0.25J**	ug/L	3.0	0.20	1		12/21/22 20:21	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125		1		12/21/22 20:21	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		12/21/22 20:21	460-00-4	
Toluene-d8 (S)	97	%.	75-125		1		12/21/22 20:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Sample: Trip Blank **Lab ID: 10637518010** Collected: 12/14/22 00:00 Received: 12/17/22 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/21/22 00:30		
Surrogates									
a,a,a-Trifluorotoluene (S)	94	%.	50-150		1		12/21/22 00:30	98-08-8	
8260D VOC	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/21/22 19:03	71-43-2	
Chloroform	**<0.23**	ug/L	1.0	0.23	1		12/21/22 19:03	67-66-3	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/21/22 19:03	100-41-4	
Toluene	**0.34J**	ug/L	1.0	0.10	1		12/21/22 19:03	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/21/22 19:03	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125		1		12/21/22 19:03	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		12/21/22 19:03	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/21/22 19:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

QC Batch: 859563 | Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx | Analysis Description: NWTPH-Gx Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009, 10637518010

METHOD BLANK: 4541923 Matrix: Water
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009, 10637518010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<22.6	100	22.6	12/20/22 21:31	
a,a,a-Trifluorotoluene (S)	%.	94	50-150		12/20/22 21:31	

LABORATORY CONTROL SAMPLE & LCSD: 4541925 4541926

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	949	821	95	82	75-125	14	20	
a,a,a-Trifluorotoluene (S)	%.				97	94	50-150			

SAMPLE DUPLICATE: 4541927

Parameter	Units	10637518004 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	37100	38100	2	30	
a,a,a-Trifluorotoluene (S)	%.	94	94			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

QC Batch: 859336
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009

METHOD BLANK: 4541212 Matrix: Water
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	<2.6	10.0	2.6	12/22/22 12:55	

LABORATORY CONTROL SAMPLE: 4541213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	987	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541214 4541215

Parameter	Units	10637518001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	<2.6	1000	1000	1010	961	101	96	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

QC Batch: 859337
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D Water Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009

METHOD BLANK: 4541216 Matrix: Water
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<2.6	10.0	2.6	12/22/22 13:36	

LABORATORY CONTROL SAMPLE: 4541217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541218 4541219

Parameter	Units	10637518001 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	998	1030	100	103	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

QC Batch: 859745
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10637518001, 10637518002, 10637518003

METHOD BLANK: 4542714 Matrix: Water
Associated Lab Samples: 10637518001, 10637518002, 10637518003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/21/22 11:55	
Chloroform	ug/L	<0.23	1.0	0.23	12/21/22 11:55	
Ethylbenzene	ug/L	<0.11	1.0	0.11	12/21/22 11:55	
Toluene	ug/L	<0.10	1.0	0.10	12/21/22 11:55	
Xylene (Total)	ug/L	<0.20	3.0	0.20	12/21/22 11:55	
1,2-Dichlorobenzene-d4 (S)	%.	101	75-125		12/21/22 11:55	
4-Bromofluorobenzene (S)	%.	103	75-125		12/21/22 11:55	
Toluene-d8 (S)	%.	102	75-125		12/21/22 11:55	

LABORATORY CONTROL SAMPLE & LCSD: 4542715 4542716

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	18.3	19.0	92	95	73-125	4	20	
Chloroform	ug/L	20	17.3	18.4	86	92	74-125	6	20	
Ethylbenzene	ug/L	20	19.5	19.8	98	99	75-125	1	20	
Toluene	ug/L	20	18.0	18.2	90	91	74-125	1	20	
Xylene (Total)	ug/L	60	57.0	58.5	95	97	72-125	2	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	101	75-125			
4-Bromofluorobenzene (S)	%.				102	100	75-125			
Toluene-d8 (S)	%.				98	97	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

QC Batch: 859757 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10637518005, 10637518006, 10637518007, 10637518008, 10637518009, 10637518010

METHOD BLANK: 4542762 Matrix: Water
Associated Lab Samples: 10637518005, 10637518006, 10637518007, 10637518008, 10637518009, 10637518010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/21/22 18:47	
Chloroform	ug/L	<0.23	1.0	0.23	12/21/22 18:47	
Ethylbenzene	ug/L	<0.11	1.0	0.11	12/21/22 18:47	
Toluene	ug/L	<0.10	1.0	0.10	12/21/22 18:47	
Xylene (Total)	ug/L	<0.20	3.0	0.20	12/21/22 18:47	
1,2-Dichlorobenzene-d4 (S)	%.	100	75-125		12/21/22 18:47	
4-Bromofluorobenzene (S)	%.	102	75-125		12/21/22 18:47	
Toluene-d8 (S)	%.	101	75-125		12/21/22 18:47	

LABORATORY CONTROL SAMPLE & LCSD: 4542763 4542764

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	18.6	18.5	93	92	73-125	1	20	
Chloroform	ug/L	20	18.0	17.1	90	85	74-125	5	20	
Ethylbenzene	ug/L	20	19.3	19.7	96	98	75-125	2	20	
Toluene	ug/L	20	17.8	17.4	89	87	74-125	2	20	
Xylene (Total)	ug/L	60	56.8	56.8	95	95	72-125	0	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	99	75-125			
4-Bromofluorobenzene (S)	%.				99	99	75-125			
Toluene-d8 (S)	%.				99	97	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(612)607-1700

QUALITY CONTROL DATA

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

QC Batch: 860004
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10637518004

METHOD BLANK: 4543935 Matrix: Water
Associated Lab Samples: 10637518004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/22/22 19:22	
Chloroform	ug/L	<0.23	1.0	0.23	12/22/22 19:22	
Ethylbenzene	ug/L	<0.11	1.0	0.11	12/22/22 19:22	
Toluene	ug/L	<0.10	1.0	0.10	12/22/22 19:22	
Xylene (Total)	ug/L	<0.20	3.0	0.20	12/22/22 19:22	
1,2-Dichlorobenzene-d4 (S)	%.	102	75-125		12/22/22 19:22	
4-Bromofluorobenzene (S)	%.	101	75-125		12/22/22 19:22	
Toluene-d8 (S)	%.	102	75-125		12/22/22 19:22	

LABORATORY CONTROL SAMPLE: 4543936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	93	73-125	
Chloroform	ug/L	20	18.2	91	74-125	
Ethylbenzene	ug/L	20	19.9	99	75-125	
Toluene	ug/L	20	18.5	92	74-125	
Xylene (Total)	ug/L	60	59.5	99	72-125	
1,2-Dichlorobenzene-d4 (S)	%.			100	75-125	
4-Bromofluorobenzene (S)	%.			105	75-125	
Toluene-d8 (S)	%.			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4543937 4543938

Parameter	Units	10637417006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	18.1	26.5	90	133	65-140	38	30	R1
Chloroform	ug/L	ND	20	20	18.1	24.8	90	124	54-148	31	30	R1
Ethylbenzene	ug/L	ND	20	20	18.7	27.3	93	137	66-126	38	30	M1,R1
Toluene	ug/L	ND	20	20	17.5	25.3	87	126	69-131	37	30	R1
Xylene (Total)	ug/L	ND	60	60	56.3	80.4	94	134	68-136	35	30	MS,RS
1,2-Dichlorobenzene-d4 (S)	%.						99	100	75-125			
4-Bromofluorobenzene (S)	%.						101	102	75-125			
Toluene-d8 (S)	%.						100	97	75-125			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

QC Batch: 859326
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E CPAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009

METHOD BLANK: 4541163 Matrix: Water
Associated Lab Samples: 10637518001, 10637518002, 10637518003, 10637518004, 10637518005, 10637518006, 10637518007, 10637518008, 10637518009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(a)pyrene	ug/L	<0.012	0.040	0.012	12/20/22 10:56	
2-Fluorobiphenyl (S)	%.	86	52-125		12/20/22 10:56	
p-Terphenyl-d14 (S)	%.	91	51-125		12/20/22 10:56	

LABORATORY CONTROL SAMPLE & LCSD: 4541164 4541165

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzo(a)pyrene	ug/L	3	2.9	3.0	97	98	62-125	1	20	
2-Fluorobiphenyl (S)	%.				72	82	52-125			
p-Terphenyl-d14 (S)	%.				93	93	51-125			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

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: 859563

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

Batch: 859745

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

[1] The continuing calibration verification was below the method acceptance limit for chloromethane, vinyl chloride, bromomethane, and 1,2-dibromo-3-chloropropane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 859757

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

[1] The continuing calibration verification was below the method acceptance limit for chloromethane, vinyl chloride, bromomethane, and 1,2-dibromo-3-chloropropane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Batch: 860004

[1] The continuing calibration verification was below the method acceptance limit for chloromethane, vinyl chloride, and bromomethane. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

ANALYTE QUALIFIERS

D4 Sample was diluted due to the presence of high levels of target analytes.

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

ANALYTE QUALIFIERS

MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10637518001	**GW-10D**	NWTPH-Gx	859563		
10637518002	**GW-13S**	NWTPH-Gx	859563		
10637518003	**GW-13D**	NWTPH-Gx	859563		
10637518004	**GW-14S**	NWTPH-Gx	859563		
10637518005	**GW-14D**	NWTPH-Gx	859563		
10637518006	**GW-14V**	NWTPH-Gx	859563		
10637518007	**GW-15S**	NWTPH-Gx	859563		
10637518008	**GW-15D**	NWTPH-Gx	859563		
10637518009	**GWR-18D**	NWTPH-Gx	859563		
10637518010	**Trip Blank**	NWTPH-Gx	859563		
10637518001	**GW-10D**	EPA 3010A	859336	EPA 6010D	859984
10637518002	**GW-13S**	EPA 3010A	859336	EPA 6010D	859984
10637518003	**GW-13D**	EPA 3010A	859336	EPA 6010D	859984
10637518004	**GW-14S**	EPA 3010A	859336	EPA 6010D	859984
10637518005	**GW-14D**	EPA 3010A	859336	EPA 6010D	859984
10637518006	**GW-14V**	EPA 3010A	859336	EPA 6010D	859984
10637518007	**GW-15S**	EPA 3010A	859336	EPA 6010D	859984
10637518008	**GW-15D**	EPA 3010A	859336	EPA 6010D	859984
10637518009	**GWR-18D**	EPA 3010A	859336	EPA 6010D	859984
10637518001	**GW-10D**	EPA 3010A	859337	EPA 6010D	859985
10637518002	**GW-13S**	EPA 3010A	859337	EPA 6010D	859985
10637518003	**GW-13D**	EPA 3010A	859337	EPA 6010D	859985
10637518004	**GW-14S**	EPA 3010A	859337	EPA 6010D	859985
10637518005	**GW-14D**	EPA 3010A	859337	EPA 6010D	859985
10637518006	**GW-14V**	EPA 3010A	859337	EPA 6010D	859985
10637518007	**GW-15S**	EPA 3010A	859337	EPA 6010D	859985
10637518008	**GW-15D**	EPA 3010A	859337	EPA 6010D	859985
10637518009	**GWR-18D**	EPA 3010A	859337	EPA 6010D	859985
10637518001	**GW-10D**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518002	**GW-13S**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518003	**GW-13D**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518004	**GW-14S**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518005	**GW-14D**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518006	**GW-14V**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518007	**GW-15S**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518008	**GW-15D**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518009	**GWR-18D**	EPA 3510C	859326	EPA 8270E by SIM	859412
10637518001	**GW-10D**	EPA 8260D	859745		
10637518002	**GW-13S**	EPA 8260D	859745		
10637518003	**GW-13D**	EPA 8260D	859745		
10637518004	**GW-14S**	EPA 8260D	860004		
10637518005	**GW-14D**	EPA 8260D	859757		
10637518006	**GW-14V**	EPA 8260D	859757		
10637518007	**GW-15S**	EPA 8260D	859757		
10637518008	**GW-15D**	EPA 8260D	859757		
10637518009	**GWR-18D**	EPA 8260D	859757		

Pace Analytical Services, LLC
1700 Elm Street
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000087 P66 Burien
Pace Project No.: 10637518

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10637518010	**Trip Blank**	EPA 8260D	859757		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:
Company: ATC Group Services LLC
Address: 6347 Seaview Ave NW
Phone: (206) 781-1449 Fax:
Requested Due Date: Standard 5-7

Section B — Required Project Information:
Report To: Elisabeth Silver
Copy To:
Purchase Order #:
Project Name: PSE Gulen
Project #: 2076000087

Section C — Invoice Information:
Attention: Elisabeth Silver
Company Name: ATC Group Services LLC
Pace Project Manager: jennifer.gross@pacelabs.com
Pace Profile #: 39765 / 2
State / Location: WA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BTEX by 8260	NWTPH-Gx	Total Lead	Dissolved Lead (Field Filtered)	CPAH - Benzo(a)pyrene	Chloroform	Residual Chlorine (Y/N)	
1	GW-10D	WT	C	12/16	1125				10	2		2	6						X	X	X	X	X	X		001
2	GW-13S			12/14	1330				10	2		2	6						X	X	X	X	X	X		002
3	GW-13D			12/14	1245				10	2		2	6						X	X	X	X	X	X		003
4	GW-14S			12/16	1500				10	2		2	6						X	X	X	X	X	X		004
5	GW-14D			12/16	1420				10	2		2	6						X	X	X	X	X	X		005
6	GW-14V			12/16	1255				10	2		2	6						X	X	X	X	X	X		006
7	GW-15S			12/14	1035				10	2		2	6						X	X	X	X	X	X		007
8	GW-15D			12/14	1545				10	2		2	6						X	X	X	X	X	X		008
9	GWR-18D	↓	↓	12/16	1030				10	2		2	6						X	X	X	X	X	X		009
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
CPAH - specifically benzo(a)pyrene				N&I/Pace	12/19/22	950	1.1, 1.2	Y	N	Y

WO# : 10637518

10637518

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Isabella Ancona

SIGNATURE of SAMPLER: Isabella

DATE Signed: 12/16/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample Condition Upon Receipt

Client Name: ATC Group Services

Project #: WO#: 10637518
PM: JMG Due Date: 12/27/22
CLIENT: ATC_WA

Courier: ☐ FedEx ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial

☐ See Exceptions ENV-FRM-MIN4-0142

Tracking Number: _____

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 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☒ T9(0727) ☐ 01339252/1710

Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ 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:** _____ °C

Correction Factor: _____ **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 1.6, 1.1, 1.2 °C
☒ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☒ N/A (water sample/other: _____)

Date/Initials of Person Examining Contents: 12/19/22 NV

Did samples originate in a quarantine zone within the United States: AL, AR, AZ 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 ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Sample Volume?	☒ Yes	☐ No		7.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☒ Yes	☐ No		
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☒ Yes	☐ No	☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other	☒ Yes	☐ No		11. **If no, write ID/Date/Time of container below:** 12 trip blanks ☐ See Exceptions ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample # 001-009
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☒ Yes	☐ No	☐ N/A	☐ NaOH ☐ H2SO4 2/2 ☒ HNO3 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☒ Yes	☐ No	☐ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142
				pH Paper Lot #
				Residual Chlorine: 0-6 Roll 208422; 0-6 Strip; 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☒ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☒ No	☐ N/A	
3 Trip Blanks Present?	☒ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 091522-JOYR

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Jenni Gross **Date:** 12/19/22

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: NV **Line:** 2

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank								
Read Temp			Corrected Temp			Average temp		
1.7	0.3	1.0	1.7	0.3	1.0	1.6	1.1	1.2
1.2	2.5	3.7	1.2	2.5	3.7			
0.8	1.5	0.2	0.8	1.5	0.2			
2.6	0.2	0.1	2.6	0.2	0.1			

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No
If yes, indicate who was contacted, date and time. If no, indicate reason why.
_____
Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

_____

_____

_____

APPENDIX B

FIELD REPORTS / GROUNDWATER GAUGING AND SAMPLING LOGS

ATLAS

Monitor Well Gauging Log

FLD-102
Revision 0.0
Jul-08

ATC Branch: Seattle - 10282
Date: 12/14, 12/16/22
Page 1 of 2

ATC Representative(s): IA, MR
Project: PL66 ADC 2063
Location: PL66 Burien
Contact Information: (206) 781-1449
Project No: 20760000087
Task No:
Weather: overcast
Temperature: 40's

Water Level Meter Model/ID: EnviroTape
Interface Probe Model/ID: ——

	Well ID	Casing Diameter (inches) / Type	Time of Well Cap Removal*	Time of Gauging*	Depth To LNAPL (feet)	Depth To Water (feet)	LNAPL Thickness (feet)	Total Well Depth (feet)	Other (DTW, DO, ORP, Temp, etc)
	GW-8S	2"	0924	0927	/	39.87	/	/	gauge only
	GW-8D		0926	0928	/	77.01	/	/	gauge only
	GW-10S		0934	0935	/	38.59	/	/	gauge only
o	GW-10D		0934	0936	/	78.49	/	95.48	
	GW-11D		0953	1000	/	77.69	/	/	gauge only
*	GW-13S		1010	1011	/	36.21	/	46.69	
*	GW-13D		1009	1012	/	76.10	/	87.38	
o	GW-14S		1015	1019	/	44.52	/	50.60	PO - strong
o	GW-14D		1017	1021	/	74.83	/	79.95	light PO
o	GW-14V		1018	1022	/	129.23	/	153.02	
*	GW-15S		1004	1005	/	36.34	/	45.26	
*	GW-15D		1002	1006	/	54.38	/	74.88	
	GW-16S		0953	0954	/	46.57	/	/	gauge only
	GW-16D		0951	0955	/	78.40	/	/	gauge only
	GW-17S	↓	0943	0944	/	49.43	/	/	gauge only

Comments:

All wells gauged 12/14/22

* - sampled 12/14/22
o - sampled 12/16/22

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: 12/16/22	Page 1 of 1
ATC Representative(s): IA, MR	Project: P66 AOC 2063	
	Location: Burien	
Contact Information: (206) 781-1449	Project No: 20760000087	Task No: —
Well ID: GW-14S	Weather: Partly Cloudy	Temperature: 40's

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 X Submersible Pump ___ Peristaltic Pump Other: ____

3 Well Volumes ____ Low Flow X Micro Purge ____ Intake Depth (feet below TOC) ~48'

Sampling Method: ____ Teflon Bailer ____ Disposable Bailer X 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): 50.60
Depth to Water (DTW)(feet): 44.52	Water Column (WC)(feet): 6.08
LNAPL Thickness (ft): —	Purging Start Time: 1444

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
1454	46.41	1.00	15.29	293	CL	0.68	9.75	108.2	
1457	46.75	1.25	15.44	301	CL	0.65	9.31	107.8	
1500	46.91	1.50	15.57	306	CL	0.63	9.26	106.0	

Sample Data

Sample ID: GW-14S	Time of Sample: 1500	Filtered (yes/no)	Preservatives	Analytical Parameters
Container Types, Volumes, & Quantities:				
6-40ml VOAs		NO	HCl	Gx, VOCs
2-250ml PE		NO/Lab Filtered	HNO3	Pb, Dissolved Pb

Well Recovery Data

Maximum Drawdown (DTW*m*)(feet): 46.91	Approximate Flow Rate (GPM):
Recovery Type: X Fast ____ Slow	% Recovery = 100

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

Comments: Very strong PO in purge water; trace LNAPL in purge water

Monitoring Well Purging and Sampling Log

ATLAS

FLD-103
Revision 1.0
Jul-08

ATC Branch: Seattle - 10282 | Date: 12/16/22 | Page 1 of 1

ATC Representative(s): IA, MR | Project: P66 AOC 2063 | Location: Burien

Contact Information: (206) 781-1449 | Project No: 207600087 | Task No: —

Well ID: GW-14D | Weather: Partly Cloudy | Temperature: 40's

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 X Submersible Pump ____ Peristaltic Pump Other: ____

3 Well Volumes ____ Low Flow X Micro Purge ____ Intake Depth (feet below TOC) ~78'

Sampling Method: ____ Teflon Bailer ____ Disposable Bailer X Dedicated Tubing Other: ____

Casing Volume Information

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

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

Purging Calculations

Casing Volumes (CV):

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

Monitoring Measurements

Depth to LNAPL (feet): — | Total Well Depth (feet): 79.95

Depth to Water (DTW)(feet): 76.83 | Water Column (WC)(feet): 3.12

LNAPL Thickness (ft): — | Purging Start Time: 1400

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
1410	76.82	1.25	18.01	322	CLOUDY	0.68	10.17	114.3	
1413	76.86	1.75	18.01	330	CLOUDY	0.61	9.98	123.1	
1416	76.86	2.25	17.96	330	CLOUDY	0.57	9.84	122.5	
1419	76.87	2.75	17.46	327	CLOUDY	0.57	9.63	117.9	

Sample Data

Sample ID: GW-14D | Time of Sample: 1420

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 (DTW*m*)(feet): 76.87 | Approximate Flow Rate (GPM):

Recovery Type: X 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: 12/16/22
Page 1 of 1

ATC Representative(s): IA, MR
Project: P66 AOC 2063
Location: Burien
Contact Information: (206) 781-1449
Project No: Z076000087
Task No: —

Well ID: GW-14V
Weather: Partly Cloudy
Temperature: 40's

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 X Submersible Pump ____ Peristaltic Pump Other: ____
3 Well Volumes ____ Low Flow X Micro Purge ____ Intake Depth (feet below TOC) ~140'
Sampling Method: ____ Teflon Bailer ____ Disposable Bailer X Dedicated Tubing Other: ____

Casing Volume Information

Casing Diameter (Circle): 2" 4" 6" Other
Casing Multiplier (CM)(gallons/foot): 0.16 0.65 1.47

Purging Calculations

Casing Volumes (CV):
WC ____ x CM ____ = ____ (CV)(gal) x 3.0 CV (gal) = ____ PV

Monitoring Measurements

Depth to LNAPL (feet): —
Total Well Depth (feet): 153.02
Depth to Water (DTW)(feet): 129.23
Water Column (WC)(feet): 23.79
LNAPL Thickness (ft): —
Purging Start Time: 1238

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
1248	128.84	1.50	13.70	194	CLOUDY	1.31	9.49	88.9	
1251	128.84	1.75	13.91	195	CLOUDY	1.23	9.51	87.6	
1254	128.84	2.00	14.07	196	CLOUDY	1.21	9.41	89.1	

Sample Data

Sample ID: GW-14V
Time of Sample: 1255

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 (DTW*m*)(feet): 128.84
Approximate Flow Rate (GPM):
Recovery Type: X Fast ____ Slow
% Recovery = 100

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

Comments: