

Attachment F

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Attachment F-1

Surface Water Analytical Data for Key PFAS Compounds

Attachment F-1: Surface Water Analytical Data for Key PFAS Compounds

Chemical Name			PFOS	PFDA	PFOA	PFBA	PFBS	PFHxS	PFHxA	PFHxO	PFNA	PFNSA	PFDA	PFNSA
CAS Number			335-01-7	335-01-7	335-01-7	335-01-7	335-01-7	335-01-7	335-01-7	335-01-7	335-01-7	335-01-7	335-01-7	335-01-7
Site Specific Surface Water Quality Criteria (ng/L)			100	100	100	100	100	100	100	100	100	100	100	100
Swimming Screening Value (ng/L)			330	1900	1900	5700	1400	2300-2300	2200	2200	2200	2200	2200	2200
Chemical Name	Area	Location	Sample ID	Sample Date	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier
62-0116-00-202	Expanded Domain	BL3	BL3-WAT-BULK-01-013021	7/19/2021	16.1	NA	23.5	NA	139	NA	10.1	NA	11.1	NA
82-0116-00-202	Expanded Domain	BL3	BL3-WAT-BULK-01-013021	10/28/2021	21.6	NA	16.5	NA	117	NA	7.31	NA	8.45	NA
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-083021	8/30/2021	3.20	NA	3.43	NA	59.1	NA	2.84	NA	1.27	NA
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-102821	10/28/2021	3.32	NA	3.17	NA	89	NA	3.17	NA	3.17	NA
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-042922	3/29/2022	3.09	J	3.09	J	119	NA	4.49	J	4.01	JK
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-041822	4/18/2022	3.32	D1	3.57	NA	102	NA	4.93	NA	1.44	J
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-102422	10/24/2022	3.23	J	3.23	J	186	NA	5.65	J	3.3	J
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-042423	4/24/2023	1.91	NA	4.7	NA	107	NA	2.92	NA	0.756	J
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-062624	6/26/2024	3.23	NA	7.92	NA	143	NA	3.63	NA	1.26	NA
S016-596	Expanded Domain	BL3	BL3-WAT-BULK-01-071624	7/16/2024	3.23	NA	7.47	NA	149	NA	2.74	NA	1.1	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-032922	3/29/2022	15.6	NA	10.8	NA	148	NA	3.76	NA	6.14	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-041822	4/18/2022	19.1	NA	10.5	NA	113	NA	4.08	NA	7.78	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-071822	7/18/2022	186	NA	68.8	NA	292	NA	88.3	NA	76.5	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-102522	10/25/2022	179	NA	50.6	NA	284	NA	72.8	NA	31.7	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-102522 (DUP)	10/25/2022	170	NA	50.8	NA	272	NA	75.7	NA	71.5	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-012523	1/25/2023	33.5	NA	19.9	NA	208	NA	13.3	NA	12.5	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-022323 (DUP)	2/23/2023	34.1	NA	20.1	NA	145	NA	10.9	NA	12.7	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-042423	4/24/2023	13.5	NA	13.7	NA	129	NA	5.09	NA	4.65	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-042423 (DUP)	4/24/2023	13.1	NA	12.6	NA	133	NA	5.12	NA	6.11	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-071723	7/17/2023	93.5	NA	40.1	NA	212	NA	43.2	NA	48.5	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-012323	10/23/2023	23.9	NA	14.1	NA	140	NA	7.06	NA	7.27	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-102323	10/23/2023	23.5	NA	13.5	NA	144	NA	6.59	NA	7.24	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-012424	1/24/2024	91.2	NA	32	NA	213	NA	10.7	NA	33.9	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-012424 (DUP)	1/24/2024	91.2	NA	32	NA	213	NA	10.7	NA	33.9	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-012424	1/24/2024	102	NA	31.5	NA	197	NA	10.1	NA	34	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-01-050624	5/6/2024	16.4	NA	14.8	NA	165	NA	5.49	NA	5.31	NA
S016-714	Expanded Domain	BL5	BL5-WAT-BULK-02-050624	5/6/2024	15.5	NA	15.6	NA	164	NA	5.98	NA	5.43	NA
S016-713	Expanded Domain	BL5	BL5-WAT-BULK-01-071624	7/16/2024	20.7	NA	15.4	NA	157	NA	5.85	NA	7.99	NA
S016-713	Expanded Domain	BL5	BL5-WAT-BULK-02-071624	7/16/2024	24.4	NA	16.2	NA	168	NA	6.87	NA	6.95	NA
S016-713	Expanded Domain	BL5	BL5-WAT-BULK-01-101424	10/14/2024	169	NA	53.2	NA	237	NA	27.7	NA	101	NA
S016-713	Expanded Domain	BL5	BL5-WAT-BULK-02-101424	10/14/2024	170	NA	53.6	NA	245	NA	27.8	NA	105	NA
82-0111-00-201	Browns Pond	BP1	BP1-WAT-BULK-01-050420	5/4/2020	1.24	J	1.24	J	123	NA	2.23	NA	5.32	NA
82-0111-00-201	Browns Pond	BP1	BP1-WAT-MID-01-091920	9/19/2020	2.3	J	1.5	NA	130	NA	2.6	J	1.7	J
82-0111-00-201	Browns Pond	BP1	BP1-WAT-MID-01-091920 (FILTER)	9/19/2020	2	J	1.4	NA	150	NA	3.6	J	1.7	J
82-0111-00-201	Browns Pond	BP1	BP1-WAT-MID-02-091920 (DUP)	9/19/2020	3	J	1.4	NA	130	NA	2.1	J	1.7	J
82-0111-00-201	Browns Pond	BP1	BP1-WAT-BULK-01-072021	7/20/2021	9.37	NA	39	NA	218	NA	44.8	NA	59	NA
82-0111-00-201	Browns Pond	CL1	CL1-WAT-BULK-01-102821	10/28/2021	0.988	J	2.9	NA	32.4	NA	0.988	J	3.46	NA
82-0111-00-201	Browns Pond	CL1	CL1-WAT-BULK-02-102821 (DUP)	10/28/2021	0.875	J	1.76	NA	22	NA	0.536	J	2.28	NA
82-0111-00-202	Expanded Domain	CL1	CL1-WAT-BULK-01-072021	7/20/2021	11.29	NA	11.8	NA	174	NA	5.13	NA	6.39	NA
82-0111-00-202	Expanded Domain	CL2	CL2-WAT-BULK-02-072021 (DUP)	7/20/2021	5.69	NA	7.3	NA	174	NA	7.2	NA	6.58	NA
82-0111-00-202	Expanded Domain	CL2	CL2-WAT-BULK-01-102821	10/28/2021	6.39	NA	8.92	NA	126	NA	6.07	NA	5.59	NA
82-0111-00-202	Expanded Domain	CL3	CL3-WAT-BULK-01-072021	7/20/2021	6.26	NA	15.8	NA	320	NA	7.6	NA	15.2	NA
82-0111-00-451	Downs Lake	PD1	PD1-WAT-BULK-01-090420	9/4/2020	1.84	NA	1.84	NA	37.1	NA	0.854	NA	3.43	NA
P00001	Eagle Point Lake	EP10	EP10-WAT-BULK-01-012622	1/26/2022	58.7	NA	60.9	NA	895	NA	2.86	NA	6.48	NA
P00001	Eagle Point Lake	EP10	EP10-WAT-BULK-01-032822	3/28/2022	232	NA	69.7	NA	116	NA	3.85	NA	6.58	NA
P00001	Eagle Point Lake	EP10	EP10-WAT-SUR-01-081319	8/13/2019	288	NA	66.7	NA	153	NA	3.95	NA	10	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-042122	4/21/2022	287	NA	31.7	NA	387	NA	3.87	NA	46.2	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-091920	9/19/2020	140	NA	40	NA	120	NA	3.9	J	8.5	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-091920 (FILTER)	9/19/2020	110	NA	38	NA	110	NA	3.5	J	6.3	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-042122	4/21/2022	287	NA	31.7	NA	387	NA	3.87	NA	46.2	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-042122 (FILTER)	4/21/2022	287	NA	31.7	NA	387	NA	3.87	NA	46.2	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-091920	9/19/2020	619	NA	111	NA	68.1	NA	3.71	NA	13.6	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-092420	9/24/2020	210	NA	76	NA	140	NA	5.1	NA	11	NA
82-0109-00-452	Eagle Point Lake	EP17	EP17-WAT-BULK-01-092420 (FILTER)	9/24/2020	200	NA	77	NA	150	NA	5.1	NA	10	NA
P00002	Lake Elmo	EP11	EP11-WAT-BULK-01-081319	8/13/2019	75	NA	12.9	NA	81	NA	3.2	NA	1.4	NA
P00002	Lake Elmo	EP11	EP11-WAT-BULK-01-091920	9/19/2020	55.2	NA	65.1	NA	813	NA	3.34	NA	6.87	NA
P00002	Lake Elmo	EP11	EP11-WAT-BULK-02-022520 (DUP)	2/25/2020	63.6	NA	63.6	NA	767	NA	3.34	NA	6.82	NA
P00002	Lake Elmo	EP11	EP11-WAT-BULK-01-032622	3/26/2022	54	NA	61	NA	933	NA	3.01	NA	6.76	NA
P00002	Lake Elmo	EP11	EP11-WAT-BULK-02-022622	2/26/2022	50.2	NA	58.2	NA	928	NA	2.69	NA	6.34	NA
S016-070	LE Discharge, Horsehoose Lake, Pre WLL	EP12	EP12-WAT-SUR-01-081319	8/13/2019	118	NA	72	NA	607	NA	3.44	NA	7.68	NA
S016-070	LE Discharge, Horsehoose Lake, Pre WLL	EP12	EP12-WAT-SUR-02-081319 (DUP)	8/13/2019	147	NA	73.9	NA	595	NA	3.46	NA	7.83	NA
S016-070	LE Discharge, Horsehoose Lake, Pre WLL	EP12	EP12-WAT-BULK-01-121319	11/23/2019	110	NA	60.3	NA	404	NA	3.02	NA	7.36	NA
S016-070	LE Discharge, Horsehoose Lake, Pre WLL	EP13	EP13-WAT-BULK-01-091920	9/19/2020	120	NA	49	NA	470	NA	3.6	J	5.7	NA
S016-070	LE Discharge, Horsehoose Lake, Pre WLL	EP14	EP14-WAT-BULK-01-091920	9/19/2020	88.4	NA	64.2	NA	358	NA	1.7	NA	6.09	NA
82-0106-00-208	Lake Elmo	EP14	EP14-WAT-BULK-01-081319	8/13/2019	85	NA	65	NA	88	NA	2.38	NA	6.65	NA
82-0106-00-208	Lake Elmo	EP14	EP14-WAT-BULK-01-091920	9/19/2020	115	NA	86	NA	820	NA	3.1	NA	22	NA
82-0106-00-208	Lake Elmo	EP14	EP14-WAT-MID-01-091920 (FILTER)	9/19/2020	64	NA	77	NA	660	NA	3.4	J	8.5	NA
82-0106-00-208	Lake Elmo	EP15	EP15-WAT-BULK-01-081319	8/13/2019	69.6	NA	68.1	NA	743	NA	3.05	NA	7.75	NA
82-0106-00-209	Lake Elmo	EP15	EP15-WAT-BULK-01-081319	8/13/2019	67	NA	68	NA	98	NA	3.22	NA	16	NA
82-0106-00-209	Lake Elmo	EP15	EP15-WAT-BULK-01-051220	5/12/2020	46.8	NA	60.8	NA	478	NA	2.2	NA	5.86	NA
82-0106-00-209	Lake Elmo	EP15	EP15-WAT-MID-01-091920 (FILTER)	9/19/2020	86	NA	82	NA	810	NA	3.3	J	7.3	NA
82-0106-00-209	Lake Elmo	EP15	EP15-WAT-MID-01-091920	9/19/2020	92	NA	78	NA	750	NA	3.6	J	9.7	NA
S016-234	LE Discharge, Horsehoose Lake, Pre WLL</													

Attachment F-1: Surface Water Analytical Data for Key PFAS Compounds

Chemical Name	CAS Number	PFOS		PFOA		PFBA		PFBS		PFHxS		PFNA		PFDA		PFPO-DA		PFNA		
		45298-90-6		335-67-4		157-60-6		54187-15-3		1809-78-9		307-24-0		13122-13-6		375-95-1				
		NS	Qualifier	NS	Qualifier	NS	Qualifier	NS	Qualifier	NS	Qualifier	NS	Qualifier	NS	Qualifier	NS	Qualifier	NS	Qualifier	
State Specific Surface Water Quality Criteria (ng/L)		330		1900		5700		140		530		220		220						
Swimming Screening Value (ng/L)		330		1900		5700		140		530		220		220						
LUI	Area	Location	Sample ID	Sample Date	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-071321	7/13/2021	300	NA	117	NA	165	NA	8.14	NA	14.8	NA	19.1	NA	1.08	NA	1.37	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-071822	7/18/2022	491	D1	138	NA	161	NA	7.07	NA	13.6	NA	17.7	NA	1.26	NA	1.86	NA
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-072920	7/29/2020	343	NA	72.3	NA	108	NA	4.6	NA	10.2	NA	11.1	NA	0.61	NA	1.14	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-082620	8/26/2020	266	NA	52.2	NA	70.1	NA	3.49	NA	8.25	NA	6.87	NA	0.58	NA	1.23	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-090120	9/1/2020	225	NA	50.1	NA	110	NA	4.88	NA	8.09	NA	9	NA	0.58	NA	1.04	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-090420	9/4/2020	197	NA	42.1	NA	102	NA	4.87	NA	8.51	NA	8.18	NA	0.67	NA	1.02	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-091920	9/19/2020	280	NA	70	NA	120	NA	4.6	NA	11	NA	15	NA	0.47	NA	1.5	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-091920 (FILTER)	9/19/2020	180	NA	62	NA	130	NA	4.5	NA	8.9	NA	10	NA	0.47	NA	1.4	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-100422	10/24/2022	1340	D1	178	NA	168	NA	8.89	NA	17.7	NA	19.5	NA	0.60	NA	4.01	NA
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-102821	10/28/2021	206	NA	101	NA	167	NA	6.07	NA	13.6	NA	16.8	NA	0.62	NA	1.08	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-01-111821	11/18/2021	549	NA	126	NA	180	NA	8.11	J	16.5	NA	23.4	NA	0.61	NA	1.89	J
82-0109-00453	Eagle Point Lake	EP19	EP19-WAT-BULK-02-072920 (DUP)	7/29/2020	331	NA	69.2	NA	88.9	NA	4.48	NA	9.64	NA	9.42	NA	0.64	NA	1.33	J
82-0109-00205	Eagle Point Lake	EP1	EP1A-WAT-BOT-01-091520	9/15/2020	160	NA	58	NA	120	NA	4.6	NA	9	NA	13	NA	0.67	NA	1.5	J
82-0109-00205	Eagle Point Lake	EP1	EP1A-WAT-BOT-01-091520 (FILTER)	9/15/2020	710	NA	159	NA	190	NA	5.8	NA	10	NA	31	NA	0.67	NA	1.59	J
82-0109-00205	Eagle Point Lake	EP1	EP1A-WAT-MID-01-091520	9/15/2020	150	NA	57	NA	110	NA	4.3	NA	8.4	NA	12	NA	0.69	NA	1.9	J
82-0109-00205	Eagle Point Lake	EP1	EP1A-WAT-MID-01-091520 (FILTER)	9/15/2020	140	NA	77	NA	130	NA	6.4	NA	9	NA	13	NA	0.69	NA	1.2	J
82-0109-00205	Eagle Point Lake	EP1	EP1H-WAT-BULK-01-092721	9/27/2021	469	NA	106	NA	140	NA	6.3	NA	13.4	NA	16.1	NA	0.69	NA	2.38	NA
82-0109-00205	Eagle Point Lake	EP1	EP1-WAT-18-21-01-081319	8/13/2019	157	NA	28.7	NA	96.6	NA	2.89	NA	5.84	NA	6.13	NA	0.62	NA	1.12	J
82-0109-00205	Eagle Point Lake	EP1	EP1-WAT-SUR-01-081319	8/13/2019	160	NA	37.2	NA	95.3	NA	3.07	NA	5.43	NA	7.13	NA	0.69	NA	0.894	J
82-0109-00205	Eagle Point Lake	EP1	EP1-WAT-SUR-02-081319 (DUP)	8/13/2019	165	NA	34.9	NA	93.4	NA	3.36	NA	5.8	NA	6.77	NA	0.69	NA	1.03	J
82-0109-00456	Eagle Point Lake	EP26	EP26A-WAT-0-0-01-070522	7/5/2022	512	NA	124	NA	145	NA	6.07	NA	12.3	NA	16.8	NA	0.69	NA	2.68	J
82-0109-00456	Eagle Point Lake	EP26	EP26A-WAT-12-24-01-070522	7/5/2022	530	NA	135	NA	159	NA	6.76	NA	13.8	NA	17.4	NA	0.69	NA	1.54	NA
82-0109-00456	Eagle Point Lake	EP26	EP26A-WAT-BULK-01-042122	4/21/2022	254	NA	106	NA	153	NA	6.2	NA	11.2	NA	16.7	NA	0.69	NA	1.33	J
82-0109-00456	Eagle Point Lake	EP26	EP26A-WAT-BULK-01-051322	5/13/2022	444	NA	148	NA	150	NA	7.31	NA	14	NA	19	NA	0.69	NA	1.82	NA
82-0109-00456	Eagle Point Lake	EP26	EP26A-WAT-BULK-01-052522	5/25/2022	504	NA	195	NA	167	NA	7.9	NA	16.2	NA	22	NA	0.69	NA	2.01	NA
82-0109-00456	Eagle Point Lake	EP26	EP26A-WAT-BULK-01-061022	6/10/2022	318	NA	129	NA	160	NA	6.99	NA	13.7	NA	18.3	NA	0.69	NA	2.54	NA
82-0109-00456	Lake Elmo	EP20	EP20-WAT-BULK-01-022520	2/25/2020	208	NA	59.6	NA	120	NA	4.49	NA	9.11	NA	10	NA	0.51	NA	1.16	J
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-042920	4/29/2020	190	NA	60.9	NA	123	NA	4.64	NA	8.1	NA	9.99	NA	0.59	NA	1.19	J
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-060720	6/7/2020	215	NA	60.7	NA	125	NA	4.67	NA	8.84	NA	9.99	NA	0.59	NA	1.06	J
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-061020	6/10/2020	201	NA	62	NA	122	NA	4.68	NA	8.68	NA	9.99	NA	0.59	NA	1.1	J
82-0109-00454	Lake Elmo	EP20	EP20-WAT-SML-01-050720	5/7/2020	271	NA	72.7	NA	130	NA	4.77	NA	9.06	NA	9.86	NA	0.59	NA	0.997	J
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-051820	5/18/2020	193	NA	61.3	NA	95.2	NA	4.14	NA	7.98	NA	7.86	NA	0.59	NA	0.873	J
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-062820	6/28/2020	313	NA	105	NA	146	NA	5.3	NA	13.8	NA	13.8	NA	0.59	NA	1.49	J
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-072920	7/29/2020	482	NA	139	NA	167	NA	6.8	NA	13.7	NA	16.1	NA	0.59	NA	1.62	NA
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-082620	8/26/2020	459	NA	133	NA	168	NA	7.4	NA	12	NA	10.5	NA	0.59	NA	1.62	NA
82-0109-00454	Lake Elmo	EP20	EP20-WAT-BULK-01-092020	9/20/2020	410	NA	100	NA	120	NA	5.6	NA	10	NA	14	NA	0.59	NA	1.9	J
82-0109-00454	Lake Elmo	EP21	EP21A-WAT-BULK-01-042320	4/23/2020	383	NA	65.8	NA	772	NA	3	NA	6.33	NA	15.5	NA	0.59	NA	1.07	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-BULK-01-042420	4/24/2020	68.8	NA	62.1	NA	806	NA	3.06	NA	6.46	NA	16	NA	0.59	NA	0.719	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-SML-01-042420	4/24/2020	77.7	NA	68.6	NA	1020	NA	3.2	NA	6.88	NA	16.9	NA	0.59	NA	0.936	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-BULK-01-050520	5/5/2020	475	NA	133	NA	165	NA	6.91	NA	16.7	NA	16.1	NA	0.59	NA	1.49	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-BULK-01-072920	7/29/2020	94.5	NA	65.3	NA	643	NA	3.33	NA	7.59	NA	15.5	NA	0.59	NA	0.65	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-BULK-01-082620	8/26/2020	118	NA	63.5	NA	488	NA	2.9	NA	7.21	NA	11.8	NA	0.59	NA	0.797	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-BULK-02-082620 (DUP)	8/26/2020	121	NA	67	NA	730	NA	3.42	NA	7.99	NA	14.7	NA	0.59	NA	0.962	JK
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-BULK-01-090120	9/1/2020	181	NA	57	NA	785	NA	3.8	NA	7.6	NA	15.5	NA	0.59	NA	0.88	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-MID-01-091920	9/19/2020	110	NA	83	NA	790	NA	3.4	J	9.2	NA	22	NA	0.59	NA	1.6	J
82-0106-00303	Lake Elmo	EP21	EP21A-WAT-MID-01-091920 (FILTER)	9/19/2020	78	NA	81	NA	750	NA	3.9	J	8.3	NA	21	NA	0.59	NA	1.8	J
82-0106-00303	Lake Elmo	EP21	EP21-WAT-BULK-02-071521 (DUP)	7/15/2021	69.2	NA	66.4	NA	695	NA	3.02	NA	6.18	NA	15.2	NA	0.59	NA	0.675	JK
82-0106-00303	Lake Elmo	EP21	EP21-WAT-BULK-01-071822	7/18/2022	165	NA	70.1	NA	780	NA	3.9	NA	6.8	NA	16.8	NA	0.59	NA	1.67	J
82-0106-00303	Lake Elmo	EP21	EP21-WAT-BULK-01-041922	4/19/2022	166	NA	80.1	NA	1010	NA	2.9	NA	6.1	NA	17.7	NA	0.59	NA	0.715	J
82-0106-00303	Lake Elmo	EP21	EP21-WAT-BULK-01-071822	7/18/2022	85.5	NA	92.2	NA	1140	NA	3.94	NA	7.08	NA	11.3	NA	0.59	NA	0.877	J
82-0106-00303	Lake Elmo	EP21	EP21-WAT-BULK-02-071822 (DUP)	7/18/2022	75.3	NA	70.6	NA	1000	NA	3.19	NA	5.75	NA	16.9	NA	0.59	NA	0.598	J
82-0106-00303	Lake Elmo	EP21	EP21-WAT-BULK-02-071822 (DUP)	7/18/2022	71	NA	69.3	NA	915	NA	3.6	NA	6.56	NA	17.6	NA	0.59	NA	1.05	J
82-0106-00303	Lake Elmo	EP21	EP21-WAT-BULK-01-102422	10/24/2022	320	NA	92.1	NA	1130	NA	3.96	NA	6.89	NA	19.9	NA	0.59	NA	1.15	J
82-0106-00303	Lake Elmo	EP21	EP21-WAT-B																	

Attachment F-1: Surface Water Analytical Data for Key PFAS Compounds

Chemical Name		PFOS		PFDA		PFBA		PFBS		PFHxS		PFNA		PFDO-DA		PFNA			
CAS Number	Site-Specific Surface Water Quality Criteria (ng/L)	45298-90-6		335-1-1		375-22-4		45187-15-3		10352-53-8		307-24-0		10352-53-8		375-95-1			
Swimming Screening Value (ng/L)		330		1900		5700		1400		230		220		230		151			
LUI	Area	Location	Sample ID	Sample Date	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	
S016-00	Eagle Point Lake	EPB	EPB-WAT-SUR-01-081319	8/13/2019	237	NA	61	NA	109	NA	4.27	NA	8.36	NA	9.71	NA	<1.00	1.17	J
S016-00-210	Eagle Point Lake	EPB	EPB-WAT-SUR-01-081319	8/13/2019	219	NA	54.5	NA	98.5	NA	4.07	NA	7.42	NA	9.46	NA	<1.00	0.933	J
S016-00-211	Eagle Point Lake	EPB	EPB-WAT-BULK-01-042122	4/21/2022	486	NA	96.2	NA	101	NA	4.03	NA	9.26	NA	11.9	NA	<1.00	2.14	NA
S016-00-212	Eagle Point Lake	EPB	EPB-WAT-BULK-01-022520	2/25/2020	109	NA	38.5	NA	114	NA	3.8	NA	6.17	NA	9.05	NA	<1.00	1.11	J
S016-00-211	Eagle Point Lake	EPB	EPB-WAT-BULK-01-050820	5/8/2020	249	NA	111	NA	141	NA	5.93	NA	14	NA	16.2	NA	<1.00	1.21	J
S016-00-211	Eagle Point Lake	EPB	EPB-WAT-BULK-01-072920	7/29/2020	268	NA	85	NA	105	NA	4.57	NA	11.5	NA	15.1	NA	<1.00	1.51	J
S016-00-211	Eagle Point Lake	EPB	EPB-WAT-BULK-01-091620	9/16/2020	200	NA	54	NA	110	NA	4	J	7.4	NA	13	NA	<1.00	1.7	J
S016-00-211	Eagle Point Lake	EPB	EPB-WAT-SUR-01-081319	8/13/2019	276	NA	71.7	NA	111	NA	4.26	NA	8.34	NA	9.95	NA	<1.00	1.26	J
S016-00-207	Lake Elmo	EPB	EPB-WAT-SUR-01-081319	8/13/2019	67.3	NA	66.3	NA	391	H	1.25	J	6.45	NA	8.87	NA	<1.00	<1.00	NA
S016-00-207	Lake Elmo	EPB	EPB-WAT-SUR-01-081319	8/13/2019	71.2	NA	65.8	NA	514	NA	2.83	NA	7.4	NA	13.1	NA	<1.00	<1.00	NA
S016-00-207	Lake Elmo	EPB	EPB-WAT-BULK-01-051220	5/12/2020	52.3	NA	61.5	NA	660	NA	2.77	NA	6.27	NA	14.6	NA	<1.00	<1.00	NA
S016-00-207	Lake Elmo	EPB	EPB-WAT-BULK-01-072920	7/29/2020	92.9	NA	67.8	NA	635	NA	3.41	NA	7.39	NA	14.8	NA	<1.00	0.69	J
S016-00-304	Lake Elmo	EPB	EPB-WAT-MID-01-091620	9/16/2020	110	NA	84	NA	890	NA	3.6	J	8.7	NA	22	NA	<1.00	1.5	J
S016-00-304	Lake Elmo	EPB	EPB-WAT-MID-01-091620 (FILTER)	9/16/2020	79	NA	74	NA	740	NA	3.9	NA	29	NA	29	NA	<1.00	1.8	J
S016-00-304	Lake Elmo	EPB	EPB-WAT-MID-01-091620 (DUP)	9/16/2020	100	NA	83	NA	820	NA	3.4	J	7.9	NA	22	NA	<1.00	<1.00	NA
S016-315	Eagle Point Lake	FC1	FC1-WAT-BULK-01-050520	5/5/2020	415	NA	9.99	NA	193	NA	3.92	NA	2.54	NA	6.18	NA	<1.00	<1.00	NA
S016-351	Eagle Point Lake	FC1	FC1-WAT-BULK-01-050520	5/5/2020	415	NA	13.4	NA	210	NA	4.51	NA	2.53	NA	7.62	NA	<1.00	<1.00	NA
S016-351	Eagle Point Lake	FC1	FC1-WAT-BULK-01-062920	6/29/2020	5.6	NA	7.64	NA	139	NA	2.4	NA	1.39	NA	3.88	NA	<1.00	<1.00	NA
S016-351	Eagle Point Lake	FC2	FC2-WAT-BULK-01-072920	7/29/2020	4.56	NA	8.17	NA	52.5	NA	1.47	J	2.43	NA	3.69	NA	<1.00	0.697	J
S016-402-452	Expanded Domain	GC1	GC1-WAT-BULK-01-072221	7/22/2021	11.9	NA	18.6	NA	248	NA	6.78	JK	<1.00	NA	12.1	NA	<1.00	<1.00	NA
S016-402-452	Expanded Domain	GC1	GC1-WAT-BULK-01-080321	8/30/2021	4.27	NA	10.3	NA	125	NA	3.01	NA	1.6	NA	4.83	NA	<1.00	0.764	J
S016-402-452	Expanded Domain	GC1	GC1-WAT-BULK-01-102921	10/29/2021	7.56	J	9.27	J	152	NA	2.42	J	5.94	J	7.56	J	<1.00	<1.00	NA
S016-597	Expanded Domain	GC2	GC2-WAT-BULK-01-072221	7/22/2021	6.2	J	13	NA	222	NA	5.09	J	<1.00	NA	7.51	J	<1.00	<1.00	NA
S016-597	Expanded Domain	GC3	GC3-WAT-BULK-01-072221	7/22/2021	6.38	NA	24.8	NA	266	NA	4.95	NA	4.95	NA	15.9	NA	<1.00	0.889	J
S016-597	Expanded Domain	GC4	GC4-WAT-BULK-01-072221	7/22/2021	6.81	NA	25.2	NA	267	NA	4.61	NA	4.97	NA	15.9	NA	<1.00	0.889	J
S016-597	Expanded Domain	GC5	GC5-WAT-BULK-01-072221	7/22/2021	2.83	NA	4.74	NA	60.7	NA	2.38	NA	1.07	J	5.16	NA	<1.00	0.724	J
S016-597	Expanded Domain	GC6	GC6-WAT-BULK-01-072221	7/22/2021	6.86	NA	5.6	NA	39.3	NA	7.41	NA	0.675	J	2.45	NA	<1.00	1.44	J
S016-597	Expanded Domain	GC7	GC7-WAT-BULK-01-072121	7/21/2021	2.56	NA	4.02	NA	52.2	NA	2.65	NA	0.763	J	3.53	NA	<1.00	0.561	J
S016-597	Expanded Domain	GC8	GC8-WAT-BULK-01-051220	5/12/2020	4.71	NA	6.71	NA	80.5	NA	2.4	NA	1.83	NA	3.17	NA	<1.00	<1.00	NA
S016-597	Expanded Domain	GC9	GC9-WAT-BULK-01-062920	6/29/2020	4.27	NA	6.21	NA	89.5	NA	1.05	J	2.76	NA	2.76	NA	<1.00	<1.00	NA
S016-597	Expanded Domain	GC10	GC10-WAT-BULK-01-091620	9/16/2020	5.32	NA	10.8	NA	125	NA	2.09	NA	0.938	J	5.3	NA	<1.00	1.07	J
S016-597	Expanded Domain	GC11	GC11-WAT-BULK-01-111820	11/18/2020	15	NA	81	NA	360	NA	7.2	NA	5.6	NA	32	NA	<1.00	<1.00	NA
S016-597	Expanded Domain	GC12	GC12-WAT-BULK-01-111820	11/18/2020	110	NA	198	NA	129	NA	15.5	NA	15.5	NA	15.5	NA	<1.00	<1.00	NA
S016-597	Expanded Domain	GC13	GC13-WAT-BULK-01-083021	8/30/2021	294	NA	42.1	NA	75	NA	6.47	NA	9.48	NA	9.84	NA	<1.00	2.14	NA
S016-597	Expanded Domain	GC14	GC14-WAT-BULK-01-072221	7/22/2021	17.9	NA	36.7	NA	158	NA	12.3	NA	24.1	NA	12.6	NA	<1.00	<1.00	NA
S016-597	Expanded Domain	GC15	GC15-WAT-BULK-01-071921	7/19/2021	7.61	NA	12.6	NA	169	NA	5.46	NA	5.25	NA	9.08	NA	<1.00	0.542	J
S016-597	Expanded Domain	GC16	GC16-WAT-BULK-02-071921 (DUP)	7/19/2021	6.98	NA	8.98	NA	169	NA	5.26	NA	7.45	NA	9.84	NA	<1.00	0.885	J
S016-597	Expanded Domain	GC17	GC17-WAT-BULK-01-071921	7/19/2021	8.05	NA	27.2	NA	282	NA	13.5	NA	11.7	NA	18.3	NA	<1.00	0.607	J
S016-597	Expanded Domain	GC18	GC18-WAT-BULK-01-102721	10/27/2021	9.91	NA	20.6	NA	277	NA	12.4	NA	11.1	NA	15.6	NA	<1.00	0.414	J
S016-597	Expanded Domain	GC19	GC19-WAT-BULK-01-032821	3/28/2021	6.91	NA	26.5	NA	245	NA	8.83	NA	16.5	NA	13.2	NA	<1.00	0.662	J
S016-597	Expanded Domain	GC20	GC20-WAT-BULK-01-042122	4/21/2022	7.24	NA	18.1	NA	193	NA	8.07	NA	5.61	NA	10.4	NA	<1.00	<1.00	NA
S016-597	Expanded Domain	GC21	GC21-WAT-BULK-01-071822	7/18/2022	7.27	NA	26	NA	353	NA	10.2	NA	9.72	NA	15.8	NA	<1.00	<1.00	NA
S016-597	Expanded Domain	GC22	GC22-WAT-BULK-01-102522	10/25/2022	11.5	NA	22.3	NA	294	NA	10.6	NA	9.29	NA	13.8	NA	<1.00	0.39	J
S016-597	Expanded Domain	GC23	GC23-WAT-BULK-01-102820	10/28/2020	390	NA	100	NA	130	NA	5.1	NA	11	NA	17	NA	<1.00	3	J
S016-597	Expanded Domain	GC24	GC24-WAT-BULK-01-101320	10/13/2020	200	NA	86	NA	86	NA	3.2	J	9.5	NA	14	NA	<1.00	2.3	J
S016-597	Expanded Domain	GC25	GC25-WAT-BULK-01-072021	7/20/2021	249	NA	50.5	NA	95.5	NA	3.55	NA	6.41	NA	9.05	NA	<1.00	1.63	NA
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-071921	7/19/2021	75.2	NA	51.1	NA	241	NA	9.08	NA	8.37	NA	21.4	NA	<1.00	1.17	J
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-083021	8/30/2021	79	NA	53	NA	204	NA	15.3	NA	12	NA	12	NA	<1.00	1.32	J
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-102721	10/27/2021	80.5	NA	53	NA	204	NA	5.92	J	7.96	J	20	NA	<1.00	<1.00	NA
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-032822	3/28/2022	32.2	NA	18.7	NA	74	NA	1.79	NA	1.77	NA	8.8	NA	<1.00	1.01	J
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-042122	4/21/2022	36	NA	29.5	NA	119	NA	2.6	NA	3.67	NA	8.8	NA	<1.00	0.749	J
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-071822	7/18/2022	68	NA	68	NA	254	NA	7.48	NA	8.8	NA	20.2	NA	<1.00	<1.00	NA
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-102522	10/25/2022	198	NA	52.6	NA	219	NA	5.23	NA	5.87	NA	13.8	NA	<1.00	3.23	NA
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-042423	4/24/2023	31.8	NA	29.5	NA	101	NA	3.77	NA	3.69	NA	8.67	NA	<1.00	0.477	J
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-071723	7/17/2023	144	NA	78	NA	179	NA	6.36	J	7.78	J	16.6	NA	<1.00	<1.00	NA
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-102323	10/23/2023	39	NA	36.8	NA	159	NA	3.72	NA	3.72	NA	13.2	NA	<1.00	0.405	J
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-050624	5/6/2024	30	NA	36.8	NA	157	NA	4.1	NA	3.98	NA	11.4	NA	<1.00	0.523	NA
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-071524	7/15/2024	88.1	NA	38.7	NA	117	NA	3.77	NA	4.66	NA	9.08	NA	<1.00	1.24	NA
S016-593	Expanded Domain	GC3	GC3-WAT-BULK-01-101424	10/14/2024	60.9	NA	36.8	NA	217	NA	5.05	NA	6.53	NA	17.9	NA	<1.00	0.83	NA
S016-594	Expanded Domain	GC4	GC4-WAT-BULK-01-072021	7/20/2021	24.2	NA	20.8	NA	158	NA	11.4	NA	15.3	NA	15.9	NA	<1.00	0.821	J
S016-594	Expanded Domain	GC4	GC4-WAT-BULK-01-083021	8/30/2021	16.3	NA	19.6	NA	159	NA	8.41	NA	27.2	NA	25.1	NA	<1.00	0.435	J
S016-594	Expanded Domain	GC4	GC4-WAT-BULK-01-102721	10/27/2021	10.4	J	19.9	NA	152	NA	4.99	J	12.1	J	16.7	NA	<1.00	<1.00	NA
S016-594	Expanded Domain	GC4	GC4-WAT-BULK-02-102721 (DUP)	10/27/2021	10.7	J	14.7	NA	124	NA	5.7	NA	10.4	NA	16.7	NA	<1.00	<1.00	NA
S016-594	Expanded Domain	GC4	GC4-WAT-BULK-01-032822	3/28/2022	15	NA	22.1	NA	178	NA	4.87	NA	9.08	NA	14.9	NA	<1.00	0.67	J
S016-594	Expanded Domain	GC4	GC4-WAT-BULK-01-042122	4/21/2022	12.1	NA	21.5	NA	137	NA	4.75	NA							

Attachment F-1: Surface Water Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFOA	PFBA	PFBS	PFHxS	PFNA	PFDoDA	PFPODA	PFNA										
CAS Number	Site Specific Surface Water Quality Criteria (ng/L)	45288-90-6	375-22-4	15187-15-3	5700	1400	108427-53-8	30724-220	13752-33-6	375-95-1										
Swimming Screening Value (ng/L)		330	1900																	
LUI	Area	Location	Sample ID	Sample Date	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier		
S016-314	Tri-Lakes	RC16A	RC16A-WAT-BULK-01-072920	7/29/2020	3.27	NA	8.41	NA	70.9	NA	2.56	NA	3.14	NA	4.1	NA	<0.28	J	0.827	J
S016-314	Tri-Lakes	RC16A	RC16A-WAT-BULK-01-091920	9/19/2020	1.6	J	8.7	NA	99	NA	2.5	J	4	J	3.3	NA	<0.28	J	0.827	J
S016-314	Tri-Lakes	RC16A	RC16A-WAT-BULK-01-091920 (FILTER)	9/19/2020	3.5	J	8.4	NA	92	NA	2.6	J	3.7	J	3.8	NA	<0.28	J	0.827	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-SUR-01-081319	8/13/2019	2.04	J	7.99	NA	87.9	NA	2.11	J	2.93	J	3.98	J	<0.28	J	0.827	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-SUR-02-081319 (DUP)	8/13/2019	1.64	J	8.23	NA	97.4	NA	1.95	J	2.99	J	3.82	J	<0.28	J	0.827	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-SUR-01-061819	8/14/2019	2.7	J	8.5	NA	97	NA	2.6	J	3.1	J	3.27	NA	<0.28	J	0.827	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-BULK-01-050520	5/5/2020	3.12	NA	6.52	NA	76	NA	2.25	NA	3.05	NA	4.11	NA	<0.28	J	0.827	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-BULK-01-072820	7/28/2020	1.64	NA	32.7	NA	41.3	NA	1.99	NA	5.69	NA	3.41	NA	<0.28	J	1.01	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-BULK-01-091920	9/19/2020	3.5	J	9.2	NA	92	NA	2.9	J	2.7	J	3.82	J	<0.28	J	0.827	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-BULK-01-091920 (FILTER)	9/19/2020	2.7	J	8.2	NA	97	NA	2.6	J	3.1	J	3.27	NA	<0.28	J	0.827	J
S016-065	Post-Confidence Raley Creek	RC17	RC17-WAT-BULK-02-091920 (DUP)	9/19/2020	3.7	J	10	NA	95	NA	2.9	J	3.3	J	3.8	NA	<0.28	J	1.4	J
S016-066	Post-Confidence Raley Creek	RC17A	RC17A-WAT-BULK-01-022420	2/24/2020	1.91	NA	7.46	NA	87.8	NA	2.63	NA	3.06	NA	4.43	J	<0.28	J	0.827	J
S016-066	Post-Confidence Raley Creek	RC17A	RC17A-WAT-SUR-02-022420 (DUP)	2/24/2020	2.36	NA	7.71	NA	89	NA	2.67	NA	3.25	NA	4.55	J	<0.28	J	0.746	J
S016-066	Post-Confidence Raley Creek	RC17A	RC17A-WAT-BULK-01-022420	2/24/2020	5.88	NA	8.14	NA	83	NA	2.49	NA	3.58	NA	4.67	NA	<0.28	J	0.939	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-BULK-01-022520	2/25/2020	2.44	NA	7.38	NA	86.7	NA	2.52	NA	3.27	NA	4.65	J	<0.28	J	0.939	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-BULK-01-050520	5/5/2020	3.79	NA	6.85	NA	82.3	NA	2.63	NA	3.14	NA	4.42	NA	<0.28	J	0.939	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-BULK-01-072820	7/28/2020	1.62	NA	34.3	NA	79.6	NA	3.32	NA	6.08	NA	7.18	NA	<0.28	J	1.09	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-BULK-01-082620	8/26/2020	3.17	NA	8.19	NA	88.7	NA	2.81	NA	3.82	NA	6.69	NA	<0.28	J	0.857	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-BULK-01-090120	9/1/2020	20	NA	9.45	NA	80.3	NA	2.72	NA	3.36	NA	4.69	NA	<0.28	J	0.747	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-BULK-01-091720	9/17/2020	4	NA	15	NA	110	NA	3.4	J	3.2	J	4.8	J	<0.28	J	1.4	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-BULK-01-091720 (FILTER)	9/17/2020	6.5	NA	9.3	NA	110	NA	3	J	3.8	J	5.2	J	<0.28	J	1.4	J
S016-066	Post-Confidence Raley Creek	RC18	RC18-WAT-SUR-01-081319	8/13/2019	2.48	NA	8.76	NA	72.7	NA	1.8	NA	2.98	NA	3.88	J	<0.28	J	0.791	J
S016-339	Post-Confidence Raley Creek	RC18A	RC18A-WAT-BULK-01-050520	5/5/2020	5.89	NA	6.93	NA	74.4	NA	2.21	NA	3.24	NA	4.13	NA	<0.28	J	0.855	J
S016-339	Post-Confidence Raley Creek	RC18A	RC18A-WAT-SML-01-050520	5/5/2020	4.28	NA	6.45	NA	84.2	NA	2.61	NA	3.84	NA	4.38	NA	<0.28	J	0.879	J
S016-339	Post-Confidence Raley Creek	RC18A	RC18A-WAT-BULK-01-092120	9/21/2020	5.8	NA	8.2	NA	88	NA	2.6	NA	4.3	NA	5.2	NA	<0.28	J	0.939	J
S016-339	Post-Confidence Raley Creek	RC18A	RC18A-WAT-BULK-01-092120 (FILTER)	9/21/2020	3.8	J	8.5	NA	89	NA	2.6	J	3.7	J	4.8	J	<0.28	J	0.939	J
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-18-21-01-081519	8/15/2019	1.6	NA	9.28	NA	156	NA	1.61	NA	2.8	NA	4.61	J	<0.28	J	1.27	J
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-SUR-01-081519	8/15/2019	1.69	NA	10.7	NA	119	NA	1.64	NA	3.02	NA	4.82	J	<0.28	J	1.15	J
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-SUR-02-081519 (DUP)	8/15/2019	4.3	NA	9.52	NA	119	NA	1.64	NA	3.02	NA	4.82	J	<0.28	J	1.15	J
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-BULK-01-032923	3/29/2023	1.37	J	8.01	NA	29.6	NA	0.737	J	2.17	NA	2.92	NA	<0.28	J	0.779	J
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-BULK-01-071624	7/16/2024	1.73	NA	9.33	NA	101	NA	2.03	NA	2.46	NA	5.07	NA	<0.28	J	1.06	NA
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-BULK-01-071624	7/16/2024	1.48	NA	9.72	NA	103	NA	1.83	NA	2.82	NA	4.8	NA	<0.28	J	1.06	NA
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-BULK-01-101524	10/15/2024	2.38	NA	8.88	NA	109	NA	2.75	NA	3.05	NA	4.04	NA	<0.28	J	0.94	NA
S016-014-00-204	Tri-Lakes	RC2	RC2-WAT-BULK-02-101524	10/15/2024	2.2	NA	8.79	NA	107	NA	2.59	NA	3.47	NA	5.22	NA	<0.28	J	0.912	NA
S016-276	Pre-Confidence Raley Creek	RC20	RC20-WAT-BULK-01-050820	5/8/2020	2480	D1	1150	NA	604	NA	50.3	NA	128	NA	138	NA	<0.28	J	7.42	NA
S016-276	Pre-Confidence Raley Creek	RC20	RC20-WAT-BULK-01-051820	5/18/2020	2650	NA	1050	NA	324	NA	33.7	NA	108	NA	95.7	NA	<0.28	J	8.48	J
S016-276	Pre-Confidence Raley Creek	RC20	RC20-WAT-BULK-01-052920	5/29/2020	1700	D1	263	NA	155	NA	14.7	NA	40.4	NA	34.5	NA	<0.28	J	3.07	NA
S016-276	Pre-Confidence Raley Creek	RC20	RC20B-WAT-BULK-01-092221	9/22/2021	1180	NA	135	NA	87	NA	10.6	NA	24.2	NA	17	NA	<0.28	J	2.26	NA
S016-276	Pre-Confidence Raley Creek	RC20	RC20-WAT-BULK-01-032823	3/28/2023	1280	D1	564	NA	452	NA	29.7	NA	42.8	NA	81.2	NA	<0.28	J	5.15	NA
S016-276	Pre-Confidence Raley Creek	RC20	RC20-WAT-BULK-01-3/29/23	3/29/2023	1210	D1	564	NA	452	NA	29.7	NA	42.8	NA	81.2	NA	<0.28	J	5.15	NA
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-022420	2/24/2020	2.15	NA	7.48	NA	88.4	NA	2.67	NA	3.29	NA	4.58	J	<0.28	J	0.826	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-042320	4/23/2020	2.1	NA	6.72	NA	73.7	NA	2.26	NA	2.81	NA	4	J	<0.28	J	0.826	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-042820	4/28/2020	1330	NA	321	NA	19	NA	29.1	NA	64.3	NA	64.3	NA	<0.28	J	4.24	NA
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-042920	4/29/2020	366	NA	331	NA	90.3	NA	4.58	NA	14.9	NA	12.7	NA	<0.28	J	1.48	NA
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-050720	5/7/2020	2.09	NA	6.29	NA	59	NA	1.83	NA	2.86	NA	3.39	NA	<0.28	J	0.751	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-02-050720 (DUP)	5/7/2020	2.43	NA	6.31	NA	89.3	NA	2.4	NA	2.84	NA	4.05	NA	<0.28	J	0.826	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-051820	5/18/2020	2.43	NA	6.31	NA	89.3	NA	2.4	NA	2.84	NA	4.05	NA	<0.28	J	0.826	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-062920	6/29/2020	839	NA	149	NA	125	NA	6.21	NA	18.1	NA	16.6	NA	<0.28	J	2.28	NA
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-072820	7/28/2020	146	NA	33.2	NA	76.5	NA	3.44	NA	5.86	NA	6.37	NA	<0.28	J	1.06	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-082620	8/26/2020	3.1	NA	8.17	NA	89.7	NA	2.76	NA	3.57	NA	4.98	NA	<0.28	J	0.955	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-090120	9/1/2020	3.4	NA	8.2	NA	94	NA	2.8	NA	3.48	NA	4.82	NA	<0.28	J	1.14	NA
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-090420	9/4/2020	3.31	NA	7.01	NA	37.1	NA	1.36	J	2.77	NA	2.82	NA	<0.28	J	0.622	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-092120	9/21/2020	3.4	J	8.7	NA	92	NA	3	J	2.8	J	3.8	NA	<0.28	J	0.61	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-092120 (FILTER)	9/21/2020	3.2	J	7.5	NA	86	NA	2.5	J	2.2	J	2.9	NA	<0.28	J	0.635	J
S016-280	Post-Confidence Raley Creek	RC21	RC21-WAT-BULK-01-041621	4/16/2021	2.1	NA	7.39	NA	39.8	NA	1.4	NA	2.3	NA	6.59	NA	<0.28	J	0.826	J
S016-280	Post-Confidence Raley Creek																			

Attachment F-1: Surface Water Analytical Data for Key PFAS Compounds

Chemical Name				PFOA	PFBA	PFBS	PFHxS	PFNA	PFDA	PFPO-DA	PFNA									
CAS Number				335-27-4	375-22-4	1541-19-6	1372-21-9	375-27-4	375-27-4	375-27-4	375-27-4									
Site Specific Surface Water Quality Criteria (ng/L)				0.05	0.25	5.00	1.40	2.00	2.00	2.00	2.00									
Swimming Screening Value (ng/L)				330	1900	3300	600	840	840	840	840									
LUI	Area	Location	Sample ID	Sample Date	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier		
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-090221	3/2/2021	486	NA	309	NA	654	NA	15	NA	31.9	NA	58.6	NA	15.2	NA	1.51	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-094121	4/16/2021	2639	D1	1360	NA	589	NA	50.4	NA	15.0	NA	15.0	NA	15.0	NA	8.03	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-071321 (DUP)	7/13/2021	1700	NA	743	NA	1290	NA	36.2	NA	68.4	NA	15.1	NA	15.1	NA	4.39	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-071321	7/13/2021	1730	NA	720	NA	1270	NA	36.5	NA	82.5	NA	19.4	NA	15.0	NA	4.32	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-071521	7/15/2021	2340	D1	385	NA	342	NA	15.7	NA	45.9	NA	33.9	NA	15.0	NA	5.4	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-092021	9/20/2021	1950	NA	377	NA	391	NA	8.46	NA	39.4	NA	31.2	NA	15.0	NA	2.71	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-092321	9/23/2021	1420	NA	322	NA	386	NA	17.9	NA	36.1	NA	56.1	NA	15.0	NA	3.63	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-102921	10/29/2021	1430	NA	155	NA	182	NA	7.43	NA	17.7	NA	25.9	NA	15.0	NA	2.15	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-102921 (DUP)	10/29/2021	1030	NA	147	NA	184	NA	6.47	NA	16.9	NA	26.6	NA	15.0	NA	1.92	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-021821	3/18/2022	2370	NA	717	NA	484	NA	26.7	NA	52.7	NA	92.6	NA	15.0	NA	6.45	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-041822	4/18/2022	2340	D1	1270	D1	747	NA	48.2	NA	99.4	NA	160	NA	15.0	NA	7.59	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-041822	4/18/2022	2220	NA	1240	NA	661	NA	45	NA	95.7	NA	150	NA	15.0	NA	8.02	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-041822	4/18/2022	2420	NA	1340	NA	680	NA	42.4	NA	103	NA	152	NA	15.0	NA	7.87	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-071822	7/18/2022	1960	NA	589	NA	443	NA	16.9	NA	32.7	NA	76.2	NA	15.0	NA	5.03	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-102522 (DUP)	10/25/2022	1700	NA	464	NA	681	NA	24.2	NA	44.7	NA	84.4	NA	15.0	NA	3.53	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-03-102522 (DUP)	10/25/2022	1700	NA	513	NA	783	NA	27.4	NA	51.1	NA	101	NA	15.0	NA	3.6	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-012523	1/25/2023	1180	D1	309	NA	365	NA	13.4	NA	26.7	NA	49.9	NA	15.0	NA	3.66	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-012523 (DUP)	1/25/2023	1060	D1	305	NA	252	NA	11.3	NA	26.3	NA	44.1	NA	15.0	NA	2.53	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-03-012523 (DUP)	1/25/2023	1120	D1	294	NA	227	NA	10.2	NA	25.2	NA	39.2	NA	15.0	NA	2.44	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-032023 (DUP)	3/20/2023	2390	NA	1380	NA	512	NA	65.2	NA	116	NA	183	NA	15.0	NA	10.9	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-032023 (DUP)	3/20/2023	2310	NA	1430	NA	817	NA	58.2	NA	118	NA	177	NA	15.0	NA	10.8	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-041923	4/19/2023	3630	D1	2270	NA	679	NA	64.8	NA	147	NA	198	NA	15.0	NA	13.7	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-042423 (DUP)	4/24/2023	6410	D1	2260	NA	541	NA	57.7	NA	144	NA	151	NA	15.0	NA	15.6	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-03-042423 (DUP)	4/24/2023	6780	D1	2220	NA	570	NA	58	NA	147	NA	159	NA	15.0	NA	16.4	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-042423	4/24/2023	6200	D1	2190	NA	536	NA	57.1	NA	147	NA	147	NA	15.0	NA	15.3	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-071723	7/17/2023	1500	NA	694	NA	999	NA	25.8	NA	54.8	NA	113	NA	15.0	NA	3.11	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-03-071723	7/17/2023	1550	NA	664	NA	984	NA	25.8	NA	54.8	NA	113	NA	15.0	NA	3.25	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-071723	7/17/2023	1420	NA	677	NA	923	NA	25.5	NA	53.5	NA	104	NA	15.0	NA	3.2	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-102323	10/23/2023	3440	NA	1110	NA	647	NA	31.3	NA	78.1	NA	101	NA	15.0	NA	8.68	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-03-102323	10/23/2023	3380	NA	1060	NA	637	NA	31.7	NA	76.6	NA	93.5	NA	15.0	NA	9.39	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-102323	10/23/2023	3350	NA	1120	NA	614	NA	23.8	NA	99.3	NA	99.3	NA	15.0	NA	9.9	J
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-050624	5/6/2024	5110	NA	2100	NA	697	NA	47.6	NA	137	NA	170	NA	15.0	NA	16.3	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-050624	5/6/2024	5220	NA	2140	NA	697	NA	48.4	NA	134	NA	175	NA	15.0	NA	17.5	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-03-050624	5/6/2024	5090	NA	2260	NA	715	NA	51.2	NA	135	NA	181	NA	15.0	NA	18.5	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-071624	7/16/2024	3660	NA	861	NA	861	NA	23.6	NA	77.6	NA	151	NA	15.0	NA	8.5	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-071624	7/16/2024	3500	NA	861	NA	430	NA	28.8	NA	77.6	NA	151	NA	15.0	NA	5.83	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-03-071624	7/16/2024	3450	NA	839	NA	433	NA	23.1	NA	78.5	NA	136	NA	15.0	NA	6	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-041424	4/14/2024	2260	NA	920	NA	140	NA	15.2	NA	58	NA	98	NA	15.0	NA	3.95	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-02-041424	4/14/2024	1200	NA	605	NA	1270	NA	25.7	NA	58.8	NA	130	NA	15.0	NA	3.74	NA
S016-189	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-BULK-01-101424	10/14/2024	1230	NA	620	NA	1150	NA	26.4	NA	58.5	NA	131	NA	15.0	NA	3.6	NA
S016-190	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-081219	8/12/2019	2770	D1	382	NA	417	NA	16.1	NA	43.3	NA	60.9	NA	15.0	NA	3.8	NA
S016-190	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-091819	9/18/2019	2980	NA	396	NA	420	NA	27	NA	78	NA	149	NA	15.0	NA	5.5	NA
S016-190	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-091819 (FILTER)	9/18/2019	1500	NA	610	NA	830	NA	25	NA	69	NA	130	NA	15.0	NA	3.2	NA
S016-190	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-092321	9/23/2021	1720	NA	358	NA	335	NA	13.1	NA	38.9	NA	58.8	NA	15.0	NA	3.45	NA
S016-375	Pre-Confidence Raleigh Creek	RCSA	RCSA-WAT-BULK-01-092020	9/20/2020	2200	NA	540	NA	540	NA	21	NA	58	NA	110	NA	15.0	NA	5	NA
S016-375	Pre-Confidence Raleigh Creek	RCSA	RCSA-WAT-BULK-01-092020 (FILTER)	9/20/2020	2200	NA	540	NA	540	NA	21	NA	58	NA	110	NA	15.0	NA	5	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-081219	8/12/2019	1910	NA	347	NA	349	NA	14.5	NA	36.7	NA	46.3	NA	15.0	NA	4.02	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-081419	8/14/2019	1540	NA	184	NA	158	H	5.69	NA	18.3	NA	22.3	NA	15.0	NA	2.52	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-042920	4/29/2020	1850	D1	670	NA	318	NA	25	NA	69.3	NA	78.1	NA	15.0	NA	5.88	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-050820	5/8/2020	1780	D1	1280	NA	608	NA	14.8	NA	147	NA	171	NA	15.0	NA	5.7	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-051820	5/18/2020	2580	NA	1250	NA	383	NA	40.4	NA	132	NA	122	NA	15.0	NA	8.62	J
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-062920	6/29/2020	1780	D1	304	NA	151	NA	11.4	NA	35.9	NA	32.2	NA	15.0	NA	3.77	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-072820 (DUP)	7/28/2020	3050	D1	467	NA	217	NA	16.7	NA	51.2	NA	91.4	NA	15.0	NA	6.05	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-072820	7/28/2020	2890	D1	489	NA	219	NA	16.5	NA	54.6	NA	80	NA	15.0	NA	5.7	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-082620	8/26/2020	2500	D1	485	NA	399	NA	18.7	NA	54.6	NA	63.9	NA	15.0	NA	5.17	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR-01-090120	9/1/2020	1830	D1	334	NA	282	NA	12.9	NA	38.1	NA	44.3	NA	15.0	NA	3.92	NA
S016-053	Pre-Confidence Raleigh Creek	RCS	RCS-WAT-SUR																	

Attachment F-1: Surface Water Analytical Data for Key PFAS Compounds

Table with columns: Chemical Name, CAS Number, Site Specific Surface Water Quality Criteria (ng/L), PFOS, PFOA, PFBA, PFBS, PFHxS, PFNA, HFPDA, PFNA. The table contains multiple rows of data for various PFAS compounds, including PFOS, PFOA, PFBA, PFBS, PFHxS, PFNA, and HFPDA, with columns for Result (ng/L) and Qualifier.

Notes:
<0.0001 - Concentration is less than laboratory reportable limit
Bold - Result is above the laboratory minimum reporting limit
DUP - Duplicate Sample
highlighted yellow - indicates exceedance of site-specific water quality criteria
highlighted orange - indicates exceedance of swimming screening value
Lab Qualifiers
1 - Estimated concentration is less than the reporting limit
R - peak detected but did not meet quantification criteria; result reported represents the estimated minimum possible concentration
D - Dilution data
B - Analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank
U - identifies a compound that was not detected

Attachment F-2

Surface Water Analytical Data for All Other Detected PFAS Compounds

Attachment F-2: Surface Water Analytical Data for All Other Detected PFAS Compounds

Table with multiple columns: Station ID, Location, Sampling Date, Compound Name, and various analytical data points (e.g., Result (ng/L), Detection Limit, Units). The table lists numerous PFAS compounds and their concentrations across different sampling events and locations.

Attachment F-2: Surface Water Analytical Data for All Other Detected PFAS Compounds

Table with columns for Compound Name, CAS Number, and various PFAS compounds (PFNA, PFDA, etc.) with sub-columns for Result (ng/L) and Unit. The table contains numerous rows of data for different sampling events and locations.

Attachment F-2: Surface Water Analytical Data for All Other Detected PFAS Compounds

Table with columns for Compound Name, Location, Date, and various PFAS compound names (e.g., PFNA, PFDA, PFDEA, etc.) with associated analytical data values.

Attachment F-3

Foam Analytical Data for Key PFAS Compounds

Attachment F-3: Foam Analytical Data for Key PFAS Compounds

Chemical Name			PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA		PFNA	
CAS Number			45298-90-6		335-67-1		375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6		375-95-1	
Location ID	Sample ID	Sample Date	Result (µg/L)	Qualifier	Result (µg/L)	Qualifier	Result (µg/L)	Qualifier	Result (µg/L)	Qualifier	Result (µg/L)	Qualifier	Result (µg/L)	Qualifier	Result (µg/L)	Qualifier	Result (µg/L)	Qualifier
BL5	BL5-FOAM-01-032922	3/29/2022	316	NA	21.9	NA	<12.3	U	<3.08	U	6.67	NA	<3.08	U	<30.8	U	6.18	NA
EP16	EP16-FOAM-01-072920	7/29/2020	57	NA	0.372	NA	0.722	NA	0.00643	JR	0.0227	J	0.0255	NA	<0.0241	U	0.0359	NA
EP18	EP18-FOAM-01-070620	7/6/2020	13.3	NA	0.591	NA	0.137	NA	<0.00936	U	0.0154	J	0.0102	J	<0.0356	U	0.263	NA
EP18	EP18E-FOAM-FROZEN-01-111821	11/18/2021	361	NA	0.738	NA	<0.654	U	<0.164	U	<0.164	U	<0.164	U	<0.621	U	0.35	J
EP18	EP18E-FOAM-DRY-01-111821	11/18/2021	1000	NA	2.92	NA	<1.4	U	<0.35	U	<0.35	U	<0.35	U	<1.33	U	1.49	NA
EP20	EP20-WAT-SML-01-050720	5/7/2020	0.271	NA	0.0627	NA	0.13	NA	0.00477	NA	0.00906	NA	0.00986	NA	<0.00303	U	0.000997	J
EP21	EP21A-FOAM-01-042320	4/23/2020	216	D	0.521	NA	0.897	J	<0.111	U	<0.111	U	<0.111	U	<0.423	U	0.26	NA
EP21	EP21A-WAT-SML-01-042420	4/24/2020	0.17	NA	0.0686	NA	1.02	NA	0.0032	NA	0.00688	NA	0.0169	NA	<0.00287	U	0.000936	J
EP21	EP21B-FOAM-01-050520	5/5/2020	904	D	1.05	NA	0.839	J	<0.11	U	<0.11	U	<0.11	U	<0.418	U	0.999	NA
EP21	EP21B-FOAM-02-050520 (DUP)	5/5/2020	862	D	1.07	NA	0.83	NA	<0.099	U	<0.099	U	<0.099	U	<0.378	U	1	NA
EP23	EP23-WAT-SML-01-050720	5/7/2020	0.0561	NA	0.0675	NA	0.91	NA	0.00334	NA	0.00702	NA	0.0164	NA	<0.00295	U	<0.000776	U
EP25	EP25-FOAM-01-051120	5/11/2020	1.11	NA	0.481	NA	4.9	NA	<0.006	U	<0.006	U	0.0586	NA	<0.024	U	0.106	NA
FC02	FC2-FOAM-01-062920	6/29/2020	50.8	D	1.21	NA	0.179	NA	<0.00591	U	0.0459	NA	0.062	NA	<0.0225	U	2.1	NA
FP01	FP1-FOAM-01-073120	7/31/2020	12	NA	0.365	NA	0.0659	NA	<0.00312	U	0.0291	NA	0.00642	J	<0.0118	U	0.662	NA
GL01	GL2-FOAM-01-062920	6/29/2020	1.68	NA	0.04	NA	0.123	NA	<0.00813	U	<0.00813	U	0.00989	J	<0.0309	U	0.0585	NA
RC04	RC4K-FOAM-01-092321	9/23/2021	55.3	NA	1.3	NA	0.462	J	<0.0321	U	0.0768	J	0.0783	J	<0.122	U	0.0514	J
RC04C	RC4C-FOAM-01-092321	9/23/2021	4.96	NA	0.491	NA	0.6	NA	<0.0321	U	0.0477	J	0.071	J	<0.122	U	<0.0321	U
RC05	RC5-FOAM-01-022420	2/24/2020	30.7	D	1.24	NA	0.51	NA	0.0205	J	0.0752	NA	0.0924	J	<0.0411	U	0.0394	NA
RC05	RC5-FOAM-01-092020	9/20/2020	4410	D	141	NA	1.24	J	<0.196	U	2.9	NA	0.372	J	<0.745	U	7.42	NA
RC05	RC5A-FOAM-01-092321	9/23/2021	2840	NA	30.4	NA	<3.56	U	<0.889	U	<0.889	U	<0.889	U	<3.38	U	2.79	J
RC07	RC7-FOAM-081219	8/12/2019	40.1	NA	0.658	NA	<0.311	U	<0.0777	U	<0.0777	U	<0.311	U	<0.0777	U	<0.0777	U
RC07	RC7-FOAM-081419	8/14/2019	13800	NA	175	NA	<32	U	<8	U	<8	U	<8	U	<32	U	14.7	J
RC07A	RC7A-FOAM-01-022420	2/24/2020	531	NA	5.21	NA	<3.18	U	<0.796	U	<0.796	U	<0.796	U	<3.02	U	<0.796	U
RC12	RC12-FOAM-081419	8/14/2019	10500	NA	16.2	J	<32	U	<8	U	<8	U	<8	U	<32	U	11.1	J
RC12	RC12-FOAM-01-042820	4/28/2020	391	D	9.11	NA	0.501	J	<0.07	U	0.371	NA	0.124	J	<0.267	U	0.653	NA
RC16	RC16-FOAM-01-040720	4/7/2020	3.67	NA	0.117	NA	0.0995	NA	<0.00584	U	0.0144	J	<0.00584	U	<0.0222	U	0.352	NA
RC17	RC17-FOAM-081419	8/14/2019	2750	NA	3.75	J	<8	U	<2	U	<2	U	<2	U	<8	U	<2	U
RC17A	RC17A-FOAM-081419	8/14/2019	595	D	0.504	NA	<0.316	U	<0.0791	U	<0.0791	U	<0.0791	U	<0.316	U	0.332	NA
RC17A	RC17A-WAT-SML-01-022420	2/24/2020	0.00508	NA	0.00814	NA	0.088	NA	0.00249	NA	0.00358	NA	0.00467	J	<0.00316	U	0.000939	J
RC18A	RC18A-WAT-SML-01-050520	5/5/2020	0.00428	NA	0.00645	NA	0.0842	NA	0.00261	NA	0.00284	NA	0.00438	NA	<0.00294	U	<0.000773	U
RC18A	RC18A-FOAM-FRESH-01-050520	5/5/2020	8.22	NA	0.165	NA	0.0963	NA	<0.006	U	0.026	NA	0.007	J	<0.025	U	0.312	NA
RC21	RC21-FOAM-01-022420	2/24/2020	56.4	D	6.79	NA	0.103	NA	0.00471	J	1.13	NA	0.0174	J	<0.0166	U	7.31	NA
RC21	RC21-FOAM-01-042320	4/23/2020	1.57	NA	0.212	NA	0.0793	NA	<0.005	U	0.0353	NA	0.00651	J	<0.021	U	0.184	NA
RC21	RC21-FOAM-01-072220	7/22/2020	147	D	0.499	NA	0.13	NA	<0.00811	U	0.0347	NA	0.0179	J	<0.0308	U	0.26	NA
VB01	VB1-FOAM-01-040720	4/7/2020	2.55	NA	0.0845	NA	0.127	NA	<0.00588	U	0.0163	J	0.0135	J	<0.0224	U	0.0398	NA
VB03	VB3-FOAM-01-040720	4/7/2020	103	D	2.42	NA	0.252	NA	<0.0108	U	0.218	NA	<0.0108	U	<0.0411	U	0.317	NA
VB03	VB3-FOAM-01-091620	9/16/2020	97.6	NA	4.19	NA	0.498	NA	<0.0097	U	0.232	NA	0.013	J	<0.0369	U	0.317	NA
WL06	WL6-FOAM-01-022520	2/25/2020	1630	D	1.54	J	<3.17	U	<0.792	U	<0.792	U	<0.792	U	<3.01	U	2.73	NA
WL06	WL6-FOAM-01-091720	9/17/2020	20700	D	9.48	NA	<7.48	U	<1.87	U	<1.87	U	<1.87	U	<7.1	U	22.7	NA
WL11	WL11-FOAM-01-050520	5/5/2020	87.1	D	1.25	NA	0.431	NA	<0.009	U	0.0576	NA	0.0221	J	<0.037	U	0.169	NA
WL9	WL9-WAT-SML-01-022520	2/25/2020	0.0801	NA	0.053	NA	0.471	NA	0.00393	NA	0.00834	NA	0.0136	NA	<0.00522	U	<0.00137	U
WL9	WL9-WAT-SML-02-022520 (DUP)	2/25/2020	0.0558	NA	0.043	NA	0.428	NA	0.00388	NA	0.00662	NA	0.0124	J	<0.00552	U	<0.00145	U
WL9	WL9-WAT-SML-01-050720	5/7/2020	0.141	NA	0.0821	NA	0.404	NA	0.00489	NA	0.0111	NA	0.0159	NA	<0.00301	U	<0.000793	U

Notes:

<0.0002 - Concentration is less than laboratory reportable limit

Bold - Result is above the laboratory minimum reporting limit

DUP - Duplicate Sample

Lab Qualifiers

J - Estimated concentration is less than the reporting limit

R - peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration

D - Dilution data

B - analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank

U - Identifies a compound that was not detected

Attachment F-4

Foam Analytical Data for All Other Detected PFAS Compounds

Attachment F-5

Sediment Analytical Data for Key PFAS Compounds

Attachment F-5: Sediment Analytical Data for Key PFAS Compounds

Chemical Name			PFOS	PFOA	PFBA	PFBS	PFHxS	PFHxA	HFPO-DA					
CAS Number			45298-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-6					
MPCA SDSV - 5 Days per Week (µg/kg)			18	0.40	120,000	1,500	170	2,600	160					
MPCA SDSV - 2 Days per Week (µg/kg)			45	0.99	250,000	3,700	430	6,600	390					
Location ID	Sample ID	Sample Date	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier
BL01	BL1-SED-0-6-01-071921	7/19/2021	0.337		0.054	J	0.183	J	<0.038	U	<0.038	U	<0.038	U
BL03	BL3-SED-0-6-01-072121	7/21/2021	0.173		<0.0384	U	0.317	J	<0.0384	U	<0.0384	U	<0.0409	U
BL04	BL4-SED-0-6-01-072121	7/21/2021	0.539		<0.16	U	<0.16	U	<0.04	U	<0.04	U	<0.04	U
BP01	BP1-SED-0-6-01-042720	4/27/2020	0.18		<0.0796	U	<0.318	U	<0.0796	U	<0.0796	U	<0.0796	U
CL01	CL1-SED-0-6-01-072021	7/20/2021	0.208		<0.0318	U	0.163	J	<0.0318	U	<0.0318	U	0.059	JR
CL02	CL2-SED-0-6-01-072021	7/20/2021	0.689		0.061	J	0.178	J	<0.0388	U	0.042	J	<0.0388	U
CL02	CL2-SED-0-6-02-072021(DUP)	7/20/2021	0.762		0.038	J	0.192	J	<0.0371	U	<0.0371	U	<0.0371	U
CL03	CL3-SED-0-6-01-072021	7/20/2021	0.044	J	<0.039	U	<0.156	U	<0.039	U	<0.039	U	<0.039	U
EP01	EP1-SED-0-6-01-082719	8/27/2019	12.5		0.491		<0.272	U	<0.0681	U	0.077	J	<0.0681	U
EP01	EP1A-SED-0-6-01-081820	8/18/2020	43.4		2.48		0.815	J	0.11	J	0.508	J	0.21	J
EP01	EP1A-SED-0-6-01-091520	9/15/2020	40		3.1		<2.7	U	<2.7	U	<2.7	U	<2.7	U
EP01	EP1C-SED-0-6-01-092721	9/27/2021	27.2		0.688		0.369	J	0.04	J	0.121	J	0.1	J
EP01	EP1D-SED-0-6-01-092721	9/27/2021	19.3		0.385		0.414	J	<0.0355	U	0.059	J	0.089	J
EP01	EP1E-SED-0-6-01-092721	9/27/2021	6.45		0.076	J	0.15	J	<0.0371	U	<0.0371	U	<0.0371	U
EP02	EP2-SED-0-6-01-082719	8/27/2019	6.2		0.541		<0.32	U	<0.0801	U	<0.0801	U	<0.0801	U
EP02	EP2C-SED-0-6-01-081820	8/18/2020	51.9		3.16		0.591	J	0.15	J	0.921	J	0.142	J
EP02	EP2A-SED-WET-0-6-01-081820	8/18/2020	5.99		0.603		0.219	J	<0.0395	U	0.102	J	0.062	J
EP02	EP2B-SED-WET-0-6-01-081820	8/18/2020	10.2		0.295		0.154	J	<0.0368	U	0.056	J	<0.0368	U
EP02	EP2D-SED-0-6-01-092821	9/28/2021	6.4		0.283		0.176	J	<0.0376	U	0.052	J	0.04	J
EP02	EP2D-SED-0-6-02-092821(DUP)	9/28/2021	6.25		0.286		<0.152	U	<0.0379	U	0.039	J	<0.0379	U
EP02	EP2F-SED-0-6-01-092821	9/28/2021	24.2		0.716		0.356	J	<0.049	U	0.117	J	0.053	J
EP02	EP2G-SED-0-6-01-092821	9/28/2021	10.4		0.26		<0.161	U	<0.0402	U	0.044	J	<0.0402	U
EP03	EP3-SED-0-6-01-082719	8/27/2019	75.3		6.97		0.709	J	0.21	J	1.29	J	0.144	J
EP04	EP4-SED-0-6-01-081319	8/13/2019	7.18		0.229		<0.286	U	<0.0716	U	<0.0716	U	<0.0716	U
EP04	EP4-SED-0-6-01-092420	9/24/2020	4.9		0.48	J	<1.3	U	<1.3	U	<1.3	U	0.48	J
EP04	EP4-SED-0-6-02-092420(DUP)	9/24/2020	2.7		0.21	J	<0.95	U	<0.95	U	<0.95	U	<0.95	U
EP05	EP5-SED-0-6-01-081319	8/13/2019	3.5		<0.0762	U	<0.305	U	<0.0762	U	<0.0762	U	<0.0762	U
EP05	EP5-SED-0-6-01-092420	9/24/2020	2.8		0.28	J	<1.3	U	<1.3	U	<1.3	U	<1.3	U
EP07	EP7-SED-0-6-01-081319	8/13/2019	10.1		0.195		<0.291	U	<0.0727	U	<0.0727	U	<0.0727	U
EP09	EP9-SED-0-6-01-082719	8/27/2019	5.46		1.24		1.24	J	<0.171	U	<0.171	U	<0.171	U
EP09	EP9-SED-0-6-02-082719(DUP)	8/27/2019	4.48		1.46		1.25	J	<0.165	U	<0.165	U	0.2	J
EP12	EP12-SED-0-6-01-081319	8/13/2019	0.797		<0.0798	U	<0.319	U	<0.0798	U	<0.0798	U	<0.0798	U
EP12	EP12-SED-0-6-02-081319(DUP)	8/13/2019	0.76		<0.0757	U	<0.303	U	<0.0757	U	<0.0757	U	<0.0757	U
EP12	EP12-SED-0-6-01-112119	11/21/2019	0.54		<0.0835	U	<0.334	U	<0.0835	U	<0.0835	U	<0.0835	U
EP13	EP13-SED-0-6-01-081519	8/15/2019	0.287		0.237		0.958	J	<0.118	U	<0.118	U	<0.118	U
EP14	EP14-SED-0-6-01-082719	8/27/2019	1.1		<0.0779	U	<0.312	U	<0.0779	U	<0.0779	U	<0.0779	U
EP15	EP15-SED-0-6-01-082719	8/27/2019	0.847		0.373		5.21	J	<0.0934	U	<0.0934	U	0.126	J
EP16	EP16-SED-0-6-01-112119	11/21/2019	5.67		0.486		<0.0755	U	<0.0755	U	<0.0755	U	<0.0755	U
EP16	EP16-SED-0-6-02-112119(DUP)	11/21/2019	7.37		0.426		0.691	J	<0.0713	U	<0.0713	U	<0.0713	U
EP16	EP16-SED-0-6-01-042720	4/27/2020	1.23		0.122	J	0.387	J	<0.0791	U	<0.0791	U	<0.0791	U
EP16	EP16-SED-0-6-02-042720(DUP)	4/27/2020	1.3		0.113	J	0.395	J	<0.0801	U	<0.0801	U	<0.0801	U
EP16	EP16-SED-6-18-01-042720	4/27/2020	0.301		<0.0796	U	<0.318	U	<0.0796	U	<0.0796	U	<0.0796	U
EP16	EP16-SED-30-36-01-042720	4/27/2020	0.376		<0.0793	U	<0.317	U	<0.0793	U	<0.0793	U	<0.0793	U
EP17	EP17-SED-WET-0-6-01-042520	4/25/2020	90.7		2.92		1.98	J	<0.146	U	0.551	J	0.203	J
EP17	EP17-SED-WET-6-12-01-042520	4/25/2020	34.3		1.75		0.39	J	<0.0713	U	0.378	J	0.142	J
EP17	EP17-SED-0-6-01-042520	4/25/2020	73.1		2.66		0.626	J	0.14	J	0.609	J	0.159	J
EP17	EP17A-SED-WET-0-6-01-081220	8/12/2020	108		10.5		0.824	J	0.15	J	1.73	J	0.414	J
EP17	EP17B-SED-WET-0-6-01-081220	8/12/2020	98.5		4.64		0.477	J	0.09	J	1.02	J	0.216	J
EP17	EP17B-SED-WET-0-6-01-081220	8/12/2020	33.7		0.773		0.188	J	<0.0383	U	0.188	J	0.046	J
EP17	EP17C-SED-0-6-01-092420	9/24/2020	5.8		<1.6	U	<1.6	U	<1.6	U	<1.6	U	<1.6	U
EP17	EP17F-SED-0-6-01-092721	9/27/2021	54.7		0.918		0.327	J	0.05	JR	0.176	J	0.055	J
EP17	EP17D-SED-0-6-01-092721	9/27/2021	27.9		0.737		0.405	J	0.07	JR	0.16	J	0.101	J
EP17	EP17G-SED-0-6-01-092721	9/27/2021	87.3		0.827		0.922	J	0.04	JR	0.158	J	0.088	J
EP17	EP17H-SED-0-6-01-092721	9/27/2021	84.9		3.47		0.561	J	0.07	J	0.663	J	0.219	J
EP17	EP17I-SED-0-6-01-092721	9/27/2021	76.4		3.48		1.05	J	0.33	J	0.723	J	0.386	J
EP18	EP18-SED-0-6-01-051220	5/12/2020	91.2		3.76		1.13	J	0.23	J	1.06	J	0.209	J
EP18	EP18D-SED-0-6-01-081820	8/18/2020	78.3		7.5		2.32	J	0.44	J	1.53	J	0.487	J
EP18	EP18C-SED-0-6-01-081820	8/18/2020	110		5.58		2.11	J	0.29	J	1.46	J	0.363	J
EP18	EP18A-SED-WET-0-6-01-081820	8/18/2020	51.2		4.61		0.771	J	0.14	J	0.945	J	0.384	J
EP18	EP18B-SED-WET-0-6-01-081820	8/18/2020	10.7		0.386		0.182	J	<0.0383	U	0.059	J	<0.0383	U
EP18	EP18E-SED-0-6-01-092821	9/28/2021	225		4.52		1.96	J	<0.2	U	0.686	J	0.289	J
EP18	EP18F-SED-0-6-01-092821	9/28/2021	215		4.42		2	J	0.17	J	0.704	J	0.374	J
EP19	EP19-SED-WET-0-6-01-042520	4/25/2020	7.54		0.425		0.52	J	<0.0793	U	0.089	J	<0.0793	U
EP19	EP19-SED-WET-6-12-01-042520	4/25/2020	6.51		0.376		0.289	J	<0.0703	U	<0.0703	U	<0.0703	U
EP19	EP19-SED-24-30-01-042520	4/25/2020	8.27		0.383		0.47	J	<0.0806	U	<0.0806	U	<0.0806	U
EP19	EP19-SED-36-42-01-042520	4/25/2020	2.14		0.146	J	<0.324	U	<0.081	U	<0.081	U	<0.081	U
EP19	EP19-SED-0-6-01-092020	9/20/2020	2.4		0.2	J	<1	U	<1	U	<1	U	0.4	J
EP20	EP20-SED-WET-0-6-01-042720	4/27/2020	4.44		0.114	J	<0.319	U	<0.0798	U	<0.0798	U	<0.0798	U
EP20	EP20-SED-WET-6-12-01-042720	4/27/2020	3		0.109	J	<0.311	U	<0.0778	U	<0.0778	U	<0.0778	U
EP20	EP20-SED-24-30-01-042720	4/27/2020	3.1		0.104	J	0.331	J	<0.0772	U	<0.0772	U	<0.0772	U
EP20	EP20-SED-36-42-01-042720	4/27/2020	2.67		0.093	J	<0.304	U	<0.0761	U	<0.0761	U	<0.0761	U
EP21	EP21A-SED-FOAM-0-6-01-042320	4/23/2020	0.619		0.095	J	0.464	J	<0.0795	U	<0.0795	U	<0.0795	U
EP21	EP21A-SED-0-6-01-042520	4/25/2020	1.12		<0.0752	U	<0.301	U	<0.0752	U	<0.0752	U	<0.0752	U
EP21	EP21B-BEACH-FOAM-01-050520	5/5/2020	2.45		0.117	J	<0.389	U	<0.0973	U	<0.0973	U	<0.0973	U
EP21	EP21-SED-BEACH-FOAM-01-050520	5/5/2020	2.45		0.117	J	<0.389	U	<0.0973	U	<0.0973	U	<0.0973	U
EP23	EP23-SED-0-6-01-042720	4/27/2020	0.812		<0.0792	U	<0.317	U	<0.0792	U	<0.0792	U	<0.0792	U
EP24	EP24-SED-0-6-01-042720	4/27/2020	0.165		0.108	J	3.61	J	<0.0811	U	<0.0811	U	<0.0811	U
EP26	EP26A-SED-WET-0-6-01-081820	8/18/2020	116		8.34		2.38	J	0.30	J	1.37	J	0.623	J
EP26	EP26B-SED-0-6-01-081820	8/18/2020	86		6.35		1.34	J	0.38	J	1.47	J	0.416	J
EP26	EP26C-SED-0-6-01-081820	8/18/2020	145		7.99		0.921	J	0.27	J	2.56	J	0.267	J
EP26	EP26A-SED-0-6-01-09172													

Attachment F-5: Sediment Analytical Data for Key PFAS Compounds

Chemical Name			PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA	
CAS Number			45298-90-6		335-67-1		375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6	
MPCA SDSV - 5 Days per Week (µg/kg)			18		0.40		120,000		1,500		170		2,600		160	
MPCA SDSV - 2 Days per Week (µg/kg)			45		0.99		250,000		3,700		430		6,600		390	
Location ID	Sample ID	Sample Date	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier
EP27	EP27F-SED-0-6-01-092821	9/28/2021	56.1		1.29		2.02		0.06	J	0.145	J	0.115	JR	<0.164	U
EP27	EP27J-SED-0-6-02-092821(DUP)	9/28/2021	9.87		0.277		0.176	J	<0.0383	U	0.039	J	<0.0383	U	<0.146	U
EP27	EP27L-SED-0-6-01-092821	9/28/2021	7.45		0.196		<0.171	U	<0.0426	U	<0.0426	U	<0.0426	U	<0.162	U
EP27	EP27L-SED-0-6-01-092821	9/28/2021	24.5		0.841		1.37		<0.0396	U	0.065	J	0.095	J	<0.15	U
EP28	EP28-SED-0-6-01-081920	8/19/2020	11.4		0.399		0.164	J	<0.0368	U	0.049	J	<0.0368	U	<0.14	U
FC01	FC1-SED-0-3-01-042320	4/23/2020	0.854		0.145	J	0.463	J	<0.0812	U	<0.0812	U	<0.0812	U	<0.309	U
FC02	FC2A-SED-0-6-01-081420	8/14/2020	2.32		0.217		0.283	J	<0.0379	U	0.038	J	<0.0379	U	<0.144	U
FC02	FC2-SED-0-6-01-081420	8/14/2020	<0.038	U	<0.038	U	<0.152	U	<0.038	U	<0.038	U	<0.038	U	<0.144	U
FC02	FC2-SED-0-6-02-081420(DUP)	8/14/2020	0.071	J	<0.0381	U	<0.152	U	<0.0381	U	<0.0381	U	<0.0381	U	<0.145	U
GC01	GC1-SED-0-6-01-072221	7/22/2021	1.87		0.381	J	2.1	J	<0.135	U	<0.135	U	0.195	J	<0.514	U
GC02	GC2-SED-0-6-01-072221	7/22/2021	0.121	J	0.044	J	0.168	J	<0.0379	U	<0.0379	U	<0.0379	U	<0.144	U
GC02	GC2A-SED-0-6-01-072221	7/22/2021	1.17		0.283	J	1.08	J	<0.101	U	<0.101	U	<0.101	U	<0.384	U
GC03	GC3-SED-0-6-01-072221	7/22/2021	0.081	J	0.047	J	<0.16	U	<0.0399	U	<0.0399	U	<0.0399	U	<0.152	U
GC04	GC4-SED-0-6-01-072221	7/22/2021	0.162	J	<0.0651	U	<0.26	U	<0.0651	U	<0.0651	U	<0.0651	U	<0.247	U
GC05	GC5-SED-0-6-01-072221	7/22/2021	0.112	J	<0.0394	U	<0.157	U	<0.0394	U	<0.0394	U	<0.0394	U	<0.15	U
GC06	GC6-SED-0-6-01-072221	7/22/2021	0.174		<0.0406	U	<0.162	U	<0.0406	U	<0.0406	U	<0.0406	U	<0.154	U
GC07	GC7-SED-0-6-01-072221	7/22/2021	0.04	J	<0.0387	U	<0.155	U	<0.0387	U	<0.0387	U	<0.0387	U	<0.147	U
GL01	GL1-SED-0-6-01-051220	5/12/2020	0.121	J	<0.0802	U	<0.321	U	<0.0802	U	<0.0802	U	<0.0802	U	<0.305	U
MW26B	MW26B-SED-COMP-30-35-01-072122	7/21/2022	<0.154	U	<0.154	U	<0.614	U	<0.154	U	<0.154	U	<0.154	U	<0.614	U
OD03	OD3-SED-0-6-01-071921	7/19/2021	38.1		1.42		1.37	J	0.26	J	0.305	J	0.418		<0.33	U
OD04	OD4-SED-0-6-01-072021	7/20/2021	0.43		0.044	J	<0.148	U	<0.0371	U	<0.0371	U	<0.0371	U	<0.141	U
OD04	OD4-SED-0-6-02-072021(DUP)	7/20/2021	0.341		0.042	J	<0.139	U	<0.0347	U	<0.0347	U	<0.0347	U	<0.132	U
OD04	OD4-SED-NBANK-0-6-01-072021	7/20/2021	1.29		0.149	J	0.209	J	<0.0393	U	0.126	J	<0.0393	U	<0.149	U
OD05	OD5-SED-0-6-01-071921	7/19/2021	0.472		0.058	J	0.167	J	<0.0385	U	<0.0385	U	<0.0385	U	<0.146	U
OD06	OD6-SED-0-6-01-072021	7/20/2021	1.66		0.142	J	0.295	J	<0.0478	U	0.06	J	0.059	JR	<0.182	U
OD07	OD7-SED-0-6-01-071921	7/19/2021	1.66		0.238	J	0.301	J	<0.0381	U	0.084	J	0.042	J	<0.145	U
OD08	OD8-SED-0-6-01-072021	7/20/2021	0.137	J	0.041	J	<0.154	U	<0.0386	U	<0.0386	U	<0.0386	U	<0.147	U
OD09	OD9-SED-0-6-01-071921	7/19/2021	0.526		0.199		0.559	J	0.05	J	<0.0446	U	0.094	JR	<0.169	U
OD10	OD10-SED-0-6-01-072221	7/22/2021	0.224		0.051	J	<0.153	U	<0.0383	U	<0.0383	U	<0.0383	U	<0.146	U
OD11	OD11-SED-0-6-01-071921	7/19/2021	0.329		0.079	J	0.727	J	<0.0442	U	0.05	J	0.074	J	<0.168	U
OD11	OD11-SED-0-6-02-071921(DUP)	7/19/2021	0.29		0.122	J	0.718	J	<0.0449	U	<0.0449	U	0.067	J	<0.171	U
OD12	OD12-SED-0-6-01-071921	7/19/2021	0.093	J	<0.0372	U	<0.149	U	<0.0372	U	<0.0372	U	<0.0372	U	<0.141	U
RC01	RC1-SED-0-6-01-081519	8/15/2019	<0.0739	U	<0.0739	U	<0.296	U	<0.0739	U	<0.0739	U	<0.0739	U	<0.296	U
RC02	RC2-SED-0-6-01-081519	8/15/2019	<0.0888	U	<0.0888	U	0.67		<0.0888	U	<0.0888	U	<0.0888	U	<0.355	U
RC03	RC3-SED-0-6-01-081219	8/12/2019	5.89		0.217		<0.312	U	<0.078	U	<0.078	U	<0.078	U	<0.312	U
RC03	RC3-SED-0-6-02-081219(DUP)	8/12/2019	14		0.581		<0.341	U	<0.0852	U	<0.0852	U	<0.0852	U	<0.341	U
RC03	RC3-SED-WET-0-6-01-042520	4/25/2020	140		7.73		2.28		0.17		0.813		0.497		<0.304	U
RC03	RC3-SED-WET-12-18-01-042520	4/25/2020	58.5		2.54		0.619	J	<0.0781	U	0.409		0.238		<0.297	U
RC03A	RC3A-SED-WET-0-6-01-042520	4/25/2020	179	D	24.2		10.6		0.36		2.76		1.65		<0.314	U
RC03A	RC3B-SED-WET-0-6-01-081220	8/12/2020	2570	D	123		15		0.62		12.7		6.29		<0.203	U
RC03A	RC3B-SED-WET-0-6-02-081220(DUP)	8/12/2020	649	D	34.5		6.44		0.21		3.73		1.91		<0.15	U
RC03A	RC3A-SED-0-6-01-092020	9/20/2020	23		0.91	J	<1.5	U	<1.5	U	<1.5	U	<1.5	U	<1.5	U
RC03A	RC3C-SED-0-6-01-092121	9/21/2021	88.6		1.89		0.784	J	<0.0501	U	0.202		0.19	J	<0.191	U
RC03A	RC3D-SED-0-6-01-092121	9/21/2021	350		6.11		1.21		<0.0692	U	0.657		0.387		<0.263	U
RC03A	RC3E-SED-0-6-01-092121	9/21/2021	264		3.64		0.897	J	0.11	BJ	0.546		0.258	J	<0.313	U
RC03A	RC3F-SED-0-6-01-092121	9/21/2021	645	D	26		8.17		0.62	B	2.94		2.6		<0.251	U
RC03A	RC3F-SED-0-6-02-092121(DUP)	9/21/2021	679	D	29.3		9.48		0.40	B	2.97		1.96		<0.257	U
RC03A	RC3G-SED-0-6-01-092121	9/21/2021	225	D	8.77		2.01		0.11	BJ	0.821		0.635		<0.136	U
RC03A	RC3H-SED-0-6-01-092121	9/21/2021	381	D	3.87		1.09		0.10	BJ	0.527		0.432		<0.137	U
RC03A	RC3I-SED-0-6-01-092121	9/21/2021	407	D	7.39		2.6		0.11	BJ	0.818		0.807		<0.249	U
RC03A	RC3J-SED-0-6-01-092121	9/21/2021	207		1.93		0.496	J	<0.0477	U	0.222		0.186	J	<0.181	U
RC03A	RC3K-SED-0-6-01-092121	9/21/2021	83.9		1.52		2.6		<0.0997	U	0.312	J	0.258	J	<0.379	U
RC03A	RC3L-SED-0-6-01-092121	9/21/2021	310		7.15		6.94		0.30	B	0.982		1.17		<0.244	U
RC03A	RC3L-SED-0-6-02-092121(DUP)	9/21/2021	400		13.5		12.1		0.60	B	1.62		1.57		<0.28	U
RC03A	RC3M-SED-0-6-01-092121	9/21/2021	612	D	18		4.25		0.19	BJ	2.14		0.92		<0.269	U
RC03A	RC3N-SED-0-6-01-092121	9/21/2021	236		43.1		6.71		0.31	B	3.62		1.57	R	<0.279	U
RC03A	RC3O-SED-0-6-01-092121	9/21/2021	428	D	70.4		39.2		1.22		8.32		5.73		<0.221	U
RC03A	RC3I-SED-0-6-01-092421	9/24/2021	139		9.39		5.11		0.16	J	1.01		0.854		<0.164	U
RC03A	RC3J-SED-0-6-01-092421	9/24/2021	148		14		3.99		0.13	J	1.25		0.941		<0.177	U
RC04	RC4-SED-0-6-01-081219	8/12/2019	59.9		1.53		0.841		<0.0964	U	0.22		0.112		<0.385	U
RC04	RC4A-SED-WET-0-6-01-081320	8/13/2020	55.2		1.67		0.422	J	0.04	J	0.295		0.138	J	<0.145	U
RC04	RC4A-SED-0-6-01-091820	9/18/2020	15		0.94	J	<1.2	U	<1.2	U	0.43	J	<1.2	U	<1.2	U
RC04	FW12-SED-0-12-01-033121	3/31/2021	39.2		2.89		0.345	J	0.05	J	0.459		0.166		<0.143	U
RC04	FW13-SED-0-12-01-033121	3/31/2021	23.4		3.72		0.43	J	0.05	JR	1.19		0.103	J	<0.167	U
RC04	FW14-SED-0-12-01-033121	3/31/2021	34.6		1.41											

Attachment F-5: Sediment Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFOA	PFBA	PFBS	PFHxS	PFHxA	HFPO-DA								
CAS Number		45298-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-6								
MPCA SDSV - 5 Days per Week (µg/kg)		18	0.40	120,000	1,500	170	2,600	160								
MPCA SDSV - 2 Days per Week (µg/kg)		45	0.99	250,000	3,700	430	6,600	390								
Location ID	Sample ID	Sample Date	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier				
RC04C	FW09-SED-12-24-01-033121	3/31/2021	47		1.31		0.549	J	<0.039	U	0.145	J	0.214		<0.148	U
RC04C	FW10-SED-0-12-01-033121	3/31/2021	788		19.6		11.9		0.27	J	1.69		1.75		<0.547	U
RC04C	FW10-SED-12-24-01-033121	3/31/2021	222		3.2		1.23		0.08	J	0.402		0.405		<0.142	U
RC04C	FW10-SED-24-36-01-033121	3/31/2021	20.6		0.527		0.418	J	<0.0375	U	0.046	J	0.192		<0.143	U
RC04C	FW10-SED-36-48-01-033121	3/31/2021	8.93		0.316		0.291	J	<0.0365	U	<0.0365	U	0.067	J	<0.139	U
RC04C	FW11-SED-0-12-01-033121	3/31/2021	869	D	15.9		11.6		0.24	J	1.28		1.92		<0.489	U
RC04C	FW11-SED-12-24-01-033121	3/31/2021	139		4.21		1.5		0.07	J	0.515		0.501		<0.14	U
RC04C	FW11-SED-24-48-01-033121	3/31/2021	10.7		0.682		0.417	J	<0.0378	U	0.059	J	0.165		<0.144	U
RC04C	FW03-SED-0-12-01-041421	4/14/2021	154		3.99		0.84		0.09	J	0.59		0.333		<0.159	U
RC04C	FW03-SED-12-24-01-041421	4/14/2021	122		2.81		0.982		0.10	J	0.435		0.568		<0.143	U
RC04C	FW04-SED-24-36-01-041421	4/14/2021	78.4		18.1		0.83		0.14	J	3.62		0.84		<0.137	U
RC04C	FW05-SED-0-12-01-041421	4/14/2021	488	D	1.46		0.905	J	<0.0718	U	0.314		0.159	J	<0.273	U
RC04C	FW05-SED-12-24-01-041421	4/14/2021	213		0.772		0.305	J	<0.037	U	0.151		0.137	J	<0.141	U
RC04C	FW05-SED-24-36-01-041421	4/14/2021	18.7		0.141	J	<0.15	U	<0.0375	U	<0.0375	U	0.07	J	<0.143	U
RC04C	FW04-SED-0-18-01-041621	4/16/2021	253		4.05		0.907	J	0.18	J	0.931		0.362	J	<0.367	U
RC04C	FW04-SED-0-18-02-041621(DUP)	4/16/2021	85.3		1.83		0.552	J	0.05	J	0.372		0.193		<0.18	U
RC04C	RC4Q-SED-0-6-01-092321	9/23/2021	212		4.56		3.09		0.14	J	0.633		0.548		<0.468	U
RC04C	RC4R-SED-0-6-01-092321	9/23/2021	45.4		1.66		0.606		0.04	JR	0.218		0.138		<0.123	U
RC05	RC5-SED-0-6-01-081219	8/12/2019	27.5		0.634		0.314		<0.0662	U	0.081		<0.0662	U	<0.265	U
RC05	RC5-SED-0-4-01-042420	4/24/2020	24		0.664		0.612	J	<0.0756	U	0.12	J	0.088	J	<0.287	U
RC05	RC5-SED-4-6-01-042420	4/24/2020	24.1		0.653		0.481	J	<0.0768	U	0.108	J	0.083	J	<0.292	U
RC05	RC5-SED-22-26-01-042420	4/24/2020	3.25		0.173		0.402	J	<0.0781	U	<0.0781	U	<0.0781	U	<0.297	U
RC05	RC5-SED-WET-3-12-01-042420	4/24/2020	159		5.13		2.54		<0.0792	U	0.445		0.341		<0.301	U
RC05	RC5-SED-WET-12-18-01-042420	4/24/2020	19.8		0.727		0.491	J	<0.0768	U	0.082	J	0.114	J	<0.292	U
RC05	RC5-SED-0-6-01-091820	9/18/2020	8.1		0.52	J	<1.2	U	<1.2	U	<1.2	U	0.38	J	<1.2	U
RC05	PW02-SED-0-24-01-031521	3/15/2021	16.2		1.83		0.96		<0.0368	U	0.102	J	0.745		<0.14	U
RC05	PW04-SED-0-12-01-031521	3/15/2021	531	D	10.9		4.72		0.15	J	0.705		0.807		<0.237	U
RC05	PW04-SED-12-24-01-031521	3/15/2021	120		2.21		0.598	J	0.05	J	0.164		0.233		<0.15	U
RC05	PW04-SED-24-36-01-031521	3/15/2021	66.8		1.33		0.349	J	<0.0401	U	0.064	J	0.193		<0.152	U
RC05	PW04-SED-36-48-01-031521	3/15/2021	16.9		0.577		0.264	J	<0.0388	U	<0.0388	U	0.087	J	<0.147	U
RC05	PW01-SED-0-12-01-031521	3/15/2021	197		8.04		3.11		0.19	J	0.591		0.489		<0.193	U
RC05	PW01-SED-0-12-02-031521(DUP)	3/15/2021	204		8.4		3.2		0.18	J	0.644		0.524		<0.193	U
RC05	PW01-SED-12-24-01-031521	3/15/2021	220		8.3		4.74		0.11	J	0.451		0.668		<0.215	U
RC05	PW01-SED-12-24-02-031521(DUP)	3/15/2021	157		3.02		2.37		0.06	J	0.218		0.485		<0.195	U
RC05	PW03-SED-0-12-01-031521	3/15/2021	354		10		3.85		0.17	J	0.752		0.711		<0.359	U
RC05	PW03-SED-12-24-01-031521	3/15/2021	43.5		1.5		1.09		<0.0496	U	0.109	J	0.228		<0.189	U
RC05	PW03-SED-24-36-01-031521	3/15/2021	6.79		0.596		0.525	J	<0.0433	U	<0.0433	U	0.105	J	<0.164	U
RC05	RC5B-SED-0-6-01-092321	9/23/2021	229		5.9		4.08		0.11	J	0.476		0.543		<0.191	U
RC05	RC5E-SED-0-6-01-092321	9/23/2021	109		1.38		1.38		0.08	J	0.185		0.279		<0.145	U
RC06A	RC6A-SED-WET-0-6-01-081220	8/12/2020	26.4		1.02		0.526	J	<0.0355	U	0.094	J	0.098	J	<0.135	U
RC06A	RC6A-SED-0-6-01-092120	9/21/2020	50		2.6		1.5	J	<1.6	U	<1.6	U	0.86	J	<1.6	U
RC06A	RC6A-SED-0-6-02-092120(DUP)	9/21/2020	54		2.8		1.6		<1.4	U	<1.4	U	0.75	J	<1.4	U
RC06A	PW13-SED-0-12-01-031521	3/15/2021	59.7		1.67		0.549	J	0.04	J	0.177		0.146	J	<0.152	U
RC06A	PW10-SED-0-12-01-031521	3/15/2021	76.8		2.94		2.79		0.04	J	0.223		0.37		<0.145	U
RC06A	PW10-SED-0-12-02-031521(DUP)	3/15/2021	120		4.76		3.98		0.06	J	0.287		0.503		<0.144	U
RC06A	PW10-SED-12-24-01-031521	3/15/2021	22.1		0.636		0.482	J	<0.0389	U	0.086	J	0.102	J	<0.148	U
RC06A	PW10-SED-12-24-02-031521(DUP)	3/15/2021	26.7		0.656		0.667		<0.04	U	0.086	J	0.129	J	<0.152	U
RC06A	PW11-SED-0-12-01-031521	3/15/2021	5.14		0.135	J	0.315	J	<0.0376	U	<0.0376	U	0.046	J	<0.143	U
RC06A	PW15-SED-0-12-01-040621	4/6/2021	50.6		1.99		0.712		0.04	J	0.182		0.193		<0.15	U
RC06A	PW14-SED-0-12-01-040621	4/6/2021	30.6		1.96		1.17		<0.0369	U	0.142	J	0.222		<0.14	U
RC06A	PW14-SED-0-12-02-040621(DUP)	4/6/2021	33.5		1.95		1.21		<0.0377	U	0.155		0.244		<0.143	U
RC06A	PW16-SED-0-12-01-041421	4/14/2021	2.45		0.161		0.167	J	<0.0375	U	<0.0375	U	0.043	J	<0.143	U
RC06B	RC6-SED-0-6-01-081219	8/12/2019	65.8		1.34		0.566		<0.0892	U	0.173		0.106		<0.357	U
RC06B	RC6-SED-WET-0-6-01-042420	4/24/2020	261	D	14.9		3.05		0.33		1.81		0.943		<0.461	U
RC06B	RC6-SED-WET-12-18-01-042420	4/24/2020	77.1		4.11		1.26		0.12	J	0.485		0.382		<0.296	U
RC06B	PW12-SED-0-12-01-031521	3/15/2021	7.52		0.435		1.43		<0.0361	U	<0.0361	U	0.091	J	<0.137	U
RC06B	PW07-SED-0-12-01-031521	3/15/2021	78.7		2.77		0.704		0.06	J	0.282		0.222		<0.147	U
RC06B	PW05-SED-0-12-01-031521	3/15/2021	445		7.77		3.75		0.19	J	1.12		0.777		<0.335	U
RC06B	PW05-SED-12-24-01-031521	3/15/2021	192		3.4		2.27		0.12	J	0.557		0.461		<0.191	U
RC06B	PW05-SED-24-48-01-031521	3/15/2021	11.3		0.619		0.484	J	<0.038	U	0.053	J	0.091	J	<0.144	U
RC06B	PW09-SED-0-12-01-031521	3/15/2021	49		1.98		0.705		0.07	J	0.202		0.193		<0.148	U
RC06B	PW06-SED-0-12-01-031521	3/15/2021	24.5		0.922		0.166	J	<0.0366	U	0.105	J	0.104	J	<0.139	U
RC06B	PW08-SED-0-12-01-031521	3/15/2021	82.6		2.39		1.84		0.05	J	0.266		0.297		<0.147	U
RC06B	RC6C-SED-0-6-01-092321	9/23/2021	191		9.94		11.2		0.07	J	0.428		1.77		<0.214	U
RC06B	RC6E-SED-0-6-01-092321	9/23/2021	29.9		0.44		6.69		0.12	J	<0.0605	U	0.353		<0.23	U
RC07	RC7-SED-0-6-01-081219	8/12/2019	11.5		0.684		0.53		<0.0746	U	<0.0746	U	0.092		<0.298	U
RC07	RC7-SED-0-6-01-092020	9/20/2020	2.9		0.31	J	<0.9	U	<0.9	U	<0.9	U	<0.9	U	<0.9	U
RC07	RC7P-SED-0-12-01-041521	4/15/2021	0.595		<0.0362	U	<0.145	U	<0.0362	U	<0.0362	U	<0.0362	U	<0.137	U
RC07A	RC7AP-SED-0-24-01-041521	4/15/2021	40.7		1.04		0.384	J	<0.0377	U	0.139	J	0.149	J	<0.143	U
RC08	RC8-SED-0-6-01-081219	8/12/2019	0.721		0.08		<0.393	U	<0.0758	U	<0.0758	U	<0.0758	U	<0.303	U
RC09	RC9-SED-0-6-01-081219	8/12/2019	14.9		0.655		0.311		<0.0776	U	<0.0776	U	<0.0776	U	<0.297	U
RC10	RC10-SED-0-6-01-081219	8/12/2019	7.98		0.401		<0.3	U	<0.0749	U	<0.0749	U	<0.0749	U	<0.3	U
RC11	RC11-SED-0-6-01-081219	8/12/2019	10		0.474		0.5		<0.0746	U	<0.0746	U	<0.0746	U	<0.298	U
RC12	RC12-SED-0-6-01-081219	8/12/2019	19.6		0.948		0.52		<0.0729	U	<0.0729	U	0.115		<0.292	U
RC12	RC12-SED-COMP-0-6-01-042420	4/24/2020	25.8		1.98		0.895		<0.0796	U	0.123	J	0.163		<0.	

Attachment F-5: Sediment Analytical Data for Key PFAS Compounds

Chemical Name		PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA		
CAS Number		45298-90-6		335-67-1		375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6		
MPCA SDSV - 5 Days per Week (µg/kg)		18		0.40		120,000		1,500		170		2,600		160		
MPCA SDSV - 2 Days per Week (µg/kg)		45		0.99		250,000		3,700		430		6,600		390		
Location ID	Sample ID	Sample Date	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier
RC17	RC17-SED-0-6-02-081219(DUP)	8/12/2019	0.864		<0.0772	U	<0.309	U	<0.0772	U	<0.0772	U	<0.0772	U	<0.309	U
RC17	RC17-SED-BANK-EAST-0-3-01-042320	4/23/2020	9.92		0.425		0.824		<0.0816	U	<0.0816	U	0.084	J	<0.31	U
RC17	RC17-SED-BANK-EAST-3-6-01-042320	4/23/2020	11.8		0.857		1.16		<0.077	U	<0.077	U	0.123	J	<0.292	U
RC17	RC17-SED-BANK-WEST-0-3-01-042320	4/23/2020	5.31		0.416		0.627	J	<0.0811	U	<0.0811	U	<0.0811	U	<0.308	U
RC17	RC17-SED-BANK-WEST-3-6-01-042320	4/23/2020	5.76		0.468		0.848		<0.0795	U	<0.0795	U	<0.0795	U	<0.302	U
RC17	RC17-SED-0-6-01-092120	9/21/2020	0.46	J	0.28	J	0.75	J	<0.96	U	<0.96	U	0.49	J	<0.96	U
RC17A	RC17A-SED-0-6-01-092320	9/23/2020	2.7		0.32	J	<1.1	U	<1.1	U	<1.1	U	0.46	J	<1.1	U
RC18	RC18-SED-0-6-01-081319	8/13/2019	1.4		0.319		<0.296	U	<0.074	U	0.086	J	<0.074	U	<0.296	U
RC18	RC18-SED-COMP-0-3-01-042320	4/23/2020	4.52		0.143	J	<0.325	U	<0.0813	U	<0.0813	U	<0.0813	U	<0.309	U
RC18	RC18-SED-0-6-01-091720	9/17/2020	0.32	J	0.17	J	<1.1	U	<1.1	U	<1.1	U	<1.1	U	<1.1	U
RC18A	RC18C-SED-WET-0-6-01-081220	8/12/2020	14		0.155	J	<0.165	U	<0.0413	U	<0.0413	U	<0.0413	U	<0.157	U
RC18A	RC18B-SED-WET-0-6-01-081220	8/12/2020	1.16		0.052	J	<0.153	U	<0.0382	U	<0.0382	U	<0.0382	U	<0.145	U
RC18A	RC18A-SED-0-6-01-092320	9/23/2020	3.3		0.29	J	<1.5	U	<1.5	U	<1.5	U	<1.5	U	<1.5	U
RC19	RC19-SED-0-6-01-081319	8/13/2019	1.42		0.621		1.56		<0.0743	U	<0.0743	U	0.092	J	<0.297	U
RC20	RC20A-SED-WET-0-6-01-081220	8/12/2020	178		5.29		1.6		0.08	J	0.44		0.388		<0.143	U
RC20	IW36-SED-0-12-01-021721	2/17/2021	211		9.14		6.29		0.11	J	0.501		0.879		<0.239	U
RC20	IW36-SED-12-24-01-021721	2/17/2021	94.5		4.08		2.11		0.06	J	0.289		0.444		<0.144	U
RC20	IW36-SED-24-36-01-021721	2/17/2021	83.7		4.06		1.42		0.04	J	0.229		0.423		<0.144	U
RC20	IW36-SED-36-48-01-021721	2/17/2021	32.6		2.1		0.588	J	<0.0369	U	0.106	J	0.184		<0.14	U
RC20	IW39-SED-0-12-01-021721	2/17/2021	270		12		8.92		0.14	J	0.644		1.21		<0.193	U
RC20	IW39-SED-12-24-01-021721	2/17/2021	163		6.04		2.73		0.05	J	0.315		0.705		<0.144	U
RC20	IW39-SED-24-36-01-021721	2/17/2021	83.5		5.4		1.51		<0.0377	U	0.164		0.551		<0.143	U
RC20	IW39-SED-36-48-01-021721	2/17/2021	33.6		2.14		0.537	J	<0.0384	U	0.067	J	0.233		<0.146	U
RC20	IW41-SED-0-12-01-021721	2/17/2021	47		5.16		2.88		0.05	J	0.148	J	0.442		<0.149	U
RC20	IW41-SED-12-24-01-021721	2/17/2021	43.9		2.76		2.22		<0.0393	U	0.122	J	0.376		<0.149	U
RC20	IW41-SED-24-48-01-021721	2/17/2021	22.4		1.6		0.855		<0.0385	U	0.081	J	0.27		<0.146	U
RC20	IW42-SED-0-12-01-021721	2/17/2021	89		4.36		2.23		0.06	J	0.245		0.454		<0.146	U
RC20	IW42-SED-12-24-01-021721	2/17/2021	79.1		4.08		2.19		0.05	J	0.295		0.55		<0.146	U
RC20	IW42-SED-24-36-01-021721	2/17/2021	45.6		2.84		0.861		<0.0377	U	0.175		0.242		<0.143	U
RC20	IW42-SED-36-48-01-021721	2/17/2021	18.5		1.21		0.429	J	<0.039	U	0.065	J	0.127	J	<0.148	U
RC20	IW37-SED-0-12-01-021721	2/17/2021	195		7.23		2.35		0.10	J	0.467		0.526		<0.151	U
RC20	IW37-SED-12-24-01-021721	2/17/2021	87.3		5.16		2.1		0.06	J	0.258		0.413		<0.138	U
RC20	IW37-SED-24-36-01-021721	2/17/2021	57.6		3.84		1.33		0.04	J	0.196		0.332		<0.143	U
RC20	IW37-SED-36-48-01-021721	2/17/2021	26.8		2.18		0.591	J	<0.0382	U	0.123	J	0.144	J	<0.145	U
RC20	IW40-SED-0-12-01-021721	2/17/2021	150		4.64		2.25		0.09	J	0.405		0.553		<0.159	U
RC20	IW40-SED-12-24-01-021721	2/17/2021	93.3		3.91		1.5		0.04	J	0.33		0.441		<0.147	U
RC20	IW40-SED-24-48-01-021721	2/17/2021	43.6		3.29		0.944		<0.0379	U	0.129	J	0.231		<0.144	U
RC20	IW43-SED-0-12-01-021721	2/17/2021	13		0.798		0.444	J	<0.0389	U	0.047	J	0.076	J	<0.148	U
RC20	IW43-SED-12-24-01-021721(DUP)	2/17/2021	12.7		1.02		0.488	J	<0.0386	U	0.049	J	0.087	J	<0.147	U
RC20	IW43-SED-12-24-01-021721	2/17/2021	17.7		0.664		0.425	J	<0.039	U	0.049	J	0.089	J	<0.148	U
RC20	IW43-SED-12-24-02-021721(DUP)	2/17/2021	15.6		0.419		0.35	J	<0.039	U	<0.039	U	0.07	J	<0.148	U
RC20	IW43-SED-36-48-01-021721	2/17/2021	56.3		1.13		0.753		<0.0362	U	0.074	J	0.259		<0.137	U
RC20	IW43-SED-36-48-02-021721(DUP)	2/17/2021	56.8		1.38		0.703		<0.0379	U	0.076	J	0.232		<0.144	U
RC20	IW43-SED-24-36-01-021721	2/17/2021	51.6		1.19		0.591	J	<0.0392	U	0.124	J	0.211		<0.149	U
RC20	IW43-SED-24-36-02-021721(DUP)	2/17/2021	47.3		0.649		0.463	J	<0.0392	U	0.075	J	0.197		<0.149	U
RC20	RC20B-SED-0-6-01-092221	9/22/2021	74.3		3.73		1.8		0.05	J	0.162		0.284		<0.138	U
RC20	IW37-SED-0-12-01-051822	5/18/2022	128	D	12.4		5.51		0.10	J	0.553		0.787		<0.585	U
RC20	IW39-SED-0-12-01-051822	5/18/2022	236	D	16.7		5.69		0.13	J	0.755		0.928		<0.641	U
RC21	RC21-SED-COMP-0-3-01-042320	4/23/2020	4.2		0.344		0.425	J	<0.0772	U	<0.0772	U	<0.0772	U	<0.293	U
RC21	RC21-SED-BANK-WEST-0-6-01-081320	8/13/2020	2.3		0.226		0.489	J	<0.04	U	<0.04	U	0.062	J	<0.152	U
RC21	RC21A-SED-0-6-01-092220	9/22/2020	2.8		0.43	J	<1.5	U	<1.5	U	<1.5	U	<1.5	U	<1.5	U
RC21	RC21B-SED-0-6-01-092220	9/22/2020	0.29	J	0.29	J	0.58	J	<1.1	U	<1.1	U	0.5	J	<1.1	U
RC22	RC22-SED-WET-0-6-01-051420	5/14/2020	129		5.96		1.28		0.11	J	0.608		0.427		<0.317	U
RC22	RC22-SED-WET-6-12-01-051420	5/14/2020	81.4		4.5		1.02		<0.0805	U	0.398		0.343		<0.306	U
RC22	RC22-SED-EAST-0-6-01-081320	8/13/2020	37.5		1.16		0.499	J	<0.0367	U	0.109	J	0.114	J	<0.14	U
RC22	RC22-SED-WEST-0-6-01-081420	8/14/2020	82.8		3.02		0.579	J	0.04	J	0.278		0.21		<0.151	U
RC22	RC22-SED-0-6-01-091820	9/18/2020	47		1.4	J	0.66	J	<1.6	U	<1.6	U	<1.6	U	<1.6	U
RC22	IW12-SED-0-12-01-021621	2/16/2021	95.8		2.29		0.902		0.05	J	0.255		0.187		<0.17	U
RC22	IW12-SED-12-24-01-021621	2/16/2021	29.3		0.528		0.246	J	<0.0377	U	0.079	J	0.066	J	<0.143	U
RC22	IW12-SED-24-36-01-021621	2/16/2021	4.58		0.105	J	<0.158	U	<0.0396	U	<0.0396	U	<0.0396	U	<0.15	U
RC22	IW12-SED-36-48-01-021621	2/16/2021	0.764		0.136	J	<0.155	U	<0.0388	U	<0.0388	U	<0.0388	U	<0.147	U
RC22	IW08-SED-0-12-01-021621	2/16/2021	47.2		2.54		2.25		<0.0376	U	0.174		0.332		<0.143	U
RC22	IW08-SED-0-12-02-021621(DUP)	2/16/2021	50.6		2.64		2.15		<0.0377	U	0.17		0.365		<0.143	U
RC22	IW08-SED-12-24-01-021621	2/16/2021	13.9		0.905		0.959	B	<0.0355	U	0.054	J	0.202		<0.135	U
RC22	IW08-SED-12-24-02-021621(DUP)	2/16/2021	24.4		1.29		1.41	B	<0.0367	U	0.095	J	0.249		<0.139	U
RC22	IW08-SED-24-36-01-021621	2/16/2021	15		1.42											

Attachment F-5: Sediment Analytical Data for Key PFAS Compounds

Location ID	Sample ID	Sample Date	PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA	
			CAS Number	45298-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-6						
			MPCA SDSV - 5 Days per Week (ug/kg)	18	0.40	120,000	1,500	170	2,600	160						
			MPCA SDSV - 2 Days per Week (ug/kg)	45	0.99	250,000	3,700	430	6,600	390						
			Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier
RC22	IW11-SED-12-24-01-021621	2/16/2021	44.4		1.44		0.216	J	<0.04	U	0.144	J	0.121	J	<0.152	U
RC22	IW11-SED-24-36-01-021621	2/16/2021	20.4		0.8		0.156	J	<0.0379	U	0.056	J	0.082	J	<0.144	U
RC22	IW11-SED-36-48-01-021621	2/16/2021	10.1		0.543		0.213	J	<0.0379	U	0.04	J	0.081	J	<0.144	U
RC22	IW10-SED-0-12-01-021621	2/16/2021	520	D	8.16		1.85	B	0.18	J	0.889		0.568		<0.255	U
RC22	IW10-SED-12-24-01-021621	2/16/2021	171		3.93		0.763		0.06	J	0.287		0.363		<0.143	U
RC22	IW10-SED-12-24-02-021621(DUP)	2/16/2021	214		4.35		0.871		0.08	J	0.401		0.447		<0.154	U
RC22	IW10-SED-24-36-01-021621	2/16/2021	170		2.92		0.386	J	0.05	J	0.283		0.259		<0.147	U
RC22	IW10-SED-24-36-02-021621(DUP)	2/16/2021	89.1		2.5		0.332	J	<0.0399	U	0.216		0.279		<0.152	U
RC22	IW10-SED-36-48-01-021621	2/16/2021	68.4		4.46		0.873		<0.0379	U	0.219		0.871		<0.144	U
RC22	IW10-SED-36-48-02-021621(DUP)	2/16/2021	70.3		3.83		0.743		<0.0414	U	0.263		0.73		<0.157	U
RC22	IW16-SED-0-12-01-021621	2/16/2021	192		4.24		2.33		0.08	J	0.371		0.427		<0.161	U
RC22	IW16-SED-12-24-01-021621	2/16/2021	74.3		1.64		0.381	J	<0.0381	U	0.162		0.186		<0.145	U
RC22	IW16-SED-24-48-01-021621	2/16/2021	16.8		0.491		0.171	J	<0.0366	U	0.038	J	0.073	J	<0.139	U
RC22	IW17-SED-0-12-01-021721	2/17/2021	31.7		2.39		1.09		0.04	J	0.215		0.24		<0.141	U
RC22	IW17-SED-12-24-01-021721	2/17/2021	29.8		6.11		0.79		0.05	J	0.438		0.386		<0.146	U
RC22	IW17-SED-24-36-01-021721	2/17/2021	20.4		0.846		0.303	J	<0.0337	U	0.042	J	0.132	J	<0.128	U
RC22	IW17-SED-36-48-01-021721	2/17/2021	7.23		0.266		<0.145	U	<0.0364	U	<0.0364	U	0.044	JR	<0.138	U
RC22	IW18-SED-0-12-01-021721	2/17/2021	59		2.17		1.57		<0.0375	U	0.152		0.263		<0.143	U
RC22	IW18-SED-12-24-01-021721	2/17/2021	4.94		0.142	J	<0.149	U	<0.0373	U	<0.0373	U	<0.0373	U	<0.142	U
RC22	IW18-SED-24-36-01-021721	2/17/2021	3.53		0.083	J	<0.146	U	<0.0365	U	<0.0365	U	<0.0365	U	<0.139	U
RC22	IW18-SED-36-48-01-021721	2/17/2021	5.19		0.12	J	<0.147	U	<0.0367	U	<0.0367	U	<0.0367	U	<0.139	U
RC22	RC22A-SED-0-6-01-092221	9/22/2021	116		3.06		2.05		0.05	J	0.224		0.294		<0.155	U
RC22	RC22B-SED-0-6-01-092221	9/22/2021	77.5		2.67		1.03		<0.0395	U	0.172		0.175		<0.15	U
RC22	IW06-SED-0-12-01-051822	5/18/2022	24		1.36		1.79		<0.153	U	0.076	J	0.196		<0.611	U
RC22	IW10-SED-0-12-01-051822	5/18/2022	81.3	D	2.38		0.746		<0.15	U	0.18		0.209		<0.599	U
RC22	IW10-SED-12-02-051822(DUP)	5/18/2022	103	D	2.51		0.809		0.04	J	0.22		0.223		<0.62	U
RC22	IW10-SED-0-12-03-051822(DUP)	5/18/2022	81.6	D	2.44		0.797		0.04	J	0.18		0.218		<0.596	U
RC22	IW16-SED-0-12-01-051822	5/18/2022	105	D	2.73		0.91		0.05	J	0.243		0.211		<0.556	U
RC22	IW12-SED-0-12-01-051922	5/19/2022	52		2.73		1.22		<0.154	U	0.15	J	0.225		<0.617	U
RC23	RC23-SED-WET-0-6-01-051420	5/14/2020	124		3.71		0.922		0.11	J	0.565		0.241		<0.324	U
RC23	RC23-SED-WET-6-12-01-051420	5/14/2020	185	D	3.27		0.55	J	<0.0779	U	0.468		0.194		<0.296	U
RC23	RC23-SED-EAST-0-6-01-081420	8/14/2020	113		3.13		0.616		0.11	J	0.438		0.27		<0.144	U
RC23	RC23-SED-12-18-01-081420	8/14/2020	213	D	4.57		0.553	J	0.07	J	0.625		0.313		<0.146	U
RC23	RC23-SED-WEST-0-6-01-081420	8/14/2020	115		2.67		0.498	J	0.07	J	0.391		0.153	J	<0.148	U
RC23	RC23-SED-0-6-01-092820	9/28/2020	200		4.3		0.63	J	<1.5	U	0.79	J	<1.5	U	<1.5	U
RC23	IW22-SED-0-12-01-021621	2/16/2021	31.3		1.09		0.22	J	<0.036	U	0.121	J	0.122	J	<0.137	U
RC23	IW22-SED-12-24-01-021621	2/16/2021	14.8		0.751		0.211	J	<0.0383	U	0.077	J	0.081	J	<0.146	U
RC23	IW22-SED-24-36-01-021621	2/16/2021	9.74		0.589		0.271	J	<0.0391	U	<0.0391	U	0.073	J	<0.149	U
RC23	IW22-SED-36-48-01-021621	2/16/2021	7.81		0.347		0.231	J	<0.0366	U	<0.0366	U	0.059	J	<0.139	U
RC23	IW23-SED-0-24-01-021721	2/17/2021	65.5		1.53		0.44	J	<0.0372	U	0.142	J	0.159		<0.141	U
RC23	IW23-SED-24-36-01-021721	2/17/2021	26.7		1.02		0.348	J	<0.0362	U	0.053	J	0.132	J	<0.138	U
RC23	IW23-SED-36-48-01-021721	2/17/2021	30.7		0.729		0.276	J	<0.0385	U	0.062	J	0.098	J	<0.146	U
RC23	IW29-SED-0-24-01-021721	2/17/2021	62.6		1.51		0.479	J	<0.0357	U	0.172		0.138	J	<0.136	U
RC23	IW29-SED-24-36-01-021721	2/17/2021	8.49		0.306		0.203	J	<0.0386	U	<0.0386	U	0.068	J	<0.146	U
RC23	IW29-SED-36-48-01-021721	2/17/2021	2.37		0.097	J	<0.142	U	<0.0354	U	<0.0354	U	0.041	J	<0.134	U
RC23	IW30-SED-0-12-01-021721	2/17/2021	142		5.67		0.413	J	0.06	J	0.754		0.295		<0.14	U
RC23	IW30-SED-12-24-01-021721	2/17/2021	74.4		13.9		0.843		0.08	J	1.74		1.67		<0.139	U
RC23	IW30-SED-24-36-01-021721	2/17/2021	27.7		2.85		0.531	J	<0.0368	U	0.28		0.595		<0.14	U
RC23	IW30-SED-36-48-01-021721	2/17/2021	11		0.909		0.239	J	<0.0367	U	0.115	J	0.143	J	<0.14	U
RC23	IW24-SED-0-12-01-021721	2/17/2021	140		2		0.405	J	0.07	J	0.419		0.156		<0.142	U
RC23	IW24-SED-12-24-01-021721	2/17/2021	61.6		1.05		0.223	J	<0.035	U	0.108	J	0.099	J	<0.133	U
RC23	IW24-SED-24-36-01-021721	2/17/2021	10.5		0.475		0.204	J	<0.0385	U	0.044	J	0.078	J	<0.146	U
RC23	IW24-SED-36-48-01-021721	2/17/2021	3.83		0.309		0.154	J	<0.0379	U	0.05	J	0.047	J	<0.144	U
RC23	IW38-SED-0-24-01-021721	2/17/2021	56.9		1.42		0.426	J	0.04	J	0.26		0.074	J	<0.153	U
RC23	IW38-SED-24-36-01-021721	2/17/2021	2.17		0.103	J	<0.145	U	<0.0363	U	<0.0363	U	<0.0363	U	<0.138	U
RC23	IW38-SED-36-48-01-021721	2/17/2021	1.01		0.074	J	<0.15	U	<0.0376	U	<0.0376	U	<0.0376	U	<0.143	U
RC23	IW31-SED-0-12-01-021721	2/17/2021	154		10.3		0.755		0.14	J	1.67		1.19		<0.145	U
RC23	IW31-SED-12-24-01-021721	2/17/2021	126		3.07		0.429	J	0.04	J	0.485		0.245		<0.144	U
RC23	IW31-SED-24-36-01-021721	2/17/2021	47.7		9.86		1.2		0.11	J	1.64		1.26		<0.142	U
RC23	IW31-SED-36-48-01-021721	2/17/2021	4.62		1.17		0.273	J	<0.0368	U	0.118	J	0.168		<0.14	U
RC23	IW32-SED-0-12-01-021721	2/17/2021	177		2.27		0.363	J	0.04	J	0.326		0.154		<0.138	U
RC23	IW32-SED-12-24-01-021721	2/17/2021	138		2.25		0.321	J	0.04	J	0.279		0.191		<0.144	U
RC23	IW32-SED-24-36-01-021721	2/17/2021	21.6		0.745		0.229	J	<0.0362	U	0.093	J	0.171		<0.137	U
RC23	IW32-SED-36-48-01-021721	2/17/2021	6.19		0.335		<0.146	U	<0.0366	U	0.04	J	0.054	J	<0.139	U
RC23	IW25-SED-0-12-01-021721	2/17/2021	153		2.44		0.577	J	0.09	J	0.425		0.143	J	<0.141	U
RC23	IW25-SED-12-24-01-021721	2/17/2021	19.4		0.712		0.243	J	<0.0374	U	0.061	J	0.116	J	<0.142	U
RC23	IW25-SED-24-36-01-021721	2/17/2021	143		1.94		0.369	J	0.04	J	0.311		0.126	J	<0.141	U
RC23	IW25-SED-36-48-01-021721	2/17/2021	2.65		0.164		<0.149	U	<0.0373	U	<0.0373	U	<0.0373	U	<0.142	U
RC23	RC23A-SED-0-6-01-092221	9/22/2021	208		7.91		6.22		0.12	BJ	0.517		0.942		<0.237	U
RC23	RC23B-SED-0-6-01-092221	9/22/2021	448		5.46		1.17	J	0.15	J	0.731		0.386		<0.358	U
RC23	RC23C-SED-0-6-01-092221	9/22/2021	110		2.21		0.383	J	0.06	J	0.333		0.161		<0.148	U
RC23	RC23E-SED-0-6-01-092221	9/22/2021	38.1		0.94		0.175	J	0.05	J	0.159		0.054	J	<0.137	U
RC23	RC23F-SED-0-6-01-092221	9/22/2021	166		4.19		0.508	J	0.09	J	0.574		0.188		<0.166	U
RC23	RC23G-SED-0-6-01-092421	9/24/2021	177	D	5.96		3		0.05	J	0.29		0.446			

Attachment F-5: Sediment Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFPA	PFBA	PFBS	PFHxS	PFHxA	HFPO-DA								
CAS Number		45298-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-6								
MPCA SDSV - 5 Days per Week (µg/kg)		18	0.40	120,000	1,500	170	2,600	160								
MPCA SDSV - 2 Days per Week (µg/kg)		45	0.99	250,000	3,700	430	6,600	390								
Location ID	Sample ID	Sample Date	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier				
RC26	IW20-SED-24-36-01-021621	2/16/2021	100		4.27		2.01	<0.037	U	0.179		0.493	<0.14	U		
RC26	IW20-SED-36-48-01-021621	2/16/2021	73.7		3.54		0.937	<0.0384	U	0.118	J	0.355	<0.146	U		
RC26	IW19-SED-0-12-01-021621	2/16/2021	230		6.28		2.85	0.10	J	0.484		0.577	<0.158	U		
RC26	IW19-SED-24-36-01-021621	2/16/2021	98.4		4.43		1.24	0.05	J	0.226		0.525	<0.145	U		
RC26	IW19-SED-36-48-01-021621	2/16/2021	42.4		2.17		0.585	<0.0365	U	0.073	J	0.222	<0.139	U		
RC26	IW19-SED-12-24-01-021621	2/16/2021	105		4.38		1.46	0.05	J	0.285		0.436	<0.139	U		
RC26	IW26-SED-0-12-01-021721	2/17/2021	344	D	9.6		3.43	0.14	J	0.777		0.638	<0.218	U		
RC26	IW26-SED-12-24-01-021721	2/17/2021	70.7		2.7		0.78	<0.0366	U	0.226		0.273	<0.139	U		
RC26	IW26-SED-24-36-01-021721	2/17/2021	114		3.81		1.2	0.05	J	0.272		0.335	<0.144	U		
RC26	IW26-SED-36-48-01-021721	2/17/2021	31.4		1.82		0.496	J	<0.0316	U	0.11	J	0.147	<0.142	U	
RC26	IW27-SED-0-12-01-021721	2/17/2021	332	D	15.6		11.5	0.19	J	0.876		1.26	<0.205	U		
RC26	IW27-SED-12-24-01-021721	2/17/2021	110		3.16		2.89	0.06	J	0.263		0.444	<0.144	U		
RC26	IW27-SED-24-36-01-021721	2/17/2021	91.4		3.39		1.64	<0.0391	U	0.167		0.417	<0.149	U		
RC26	IW27-SED-36-48-01-021721	2/17/2021	35.6		1.7		0.682	<0.0404	U	0.055	J	0.175	<0.154	U		
RC26	IW33-SED-0-12-01-021721	2/17/2021	190	D	10.4		2.67	0.16		0.848		0.787	<0.14	U		
RC26	IW33-SED-12-24-01-021721	2/17/2021	88.7		4.23		1.16	0.06	J	0.321		0.448	<0.138	U		
RC26	IW33-SED-24-36-01-021721	2/17/2021	16.3		0.577		0.278	J	<0.0372	U	0.065	J	0.088	J	<0.142	U
RC26	IW33-SED-36-48-01-021721	2/17/2021	5.01		0.344		0.188	J	<0.0364	U	<0.0364	U	0.07	J	<0.138	U
RC26	IW34-SED-0-12-01-021721	2/17/2021	148		7.28		4.17	0.10	J	0.45		0.786	<0.154	U		
RC26	IW34-SED-12-24-01-021721	2/17/2021	46.5		1.87		0.819	<0.0373	U	0.167		0.224	<0.142	U		
RC26	IW34-SED-24-36-01-021721	2/17/2021	74.6		2.5		0.949	0.05	J	0.219		0.231	<0.145	U		
RC26	IW34-SED-36-48-01-021721	2/17/2021	24.5		1.13		0.365	J	<0.0376	U	0.071	J	0.094	J	<0.143	U
RC26	IW28-SED-0-12-01-021721	2/17/2021	256		12.7		11.3	0.15	J	0.777		1.4	<0.257	U		
RC26	IW28-SED-12-24-01-021721	2/17/2021	99.7		3.2		2.55	0.05	J	0.251		0.377	<0.151	U		
RC26	IW28-SED-24-36-01-021721	2/17/2021	59.5		3.19		1.01	<0.0365	U	0.168		0.242	<0.139	U		
RC26	IW28-SED-36-48-01-021721	2/17/2021	23.5		1.37		0.408	J	<0.0355	U	0.075	J	0.123	J	<0.135	U
RC26	IW35-SED-0-12-01-021721	2/17/2021	281	D	16.6		13.2	0.15	J	0.894		1.99	<0.191	U		
RC26	IW35-SED-12-24-01-021721	2/17/2021	88.2		3.73		2.82	0.06	J	0.269		0.523	<0.141	U		
RC26	IW35-SED-24-36-01-021721	2/17/2021	80.9		3.34		1.4	<0.0381	U	0.255		0.362	<0.145	U		
RC26	IW35-SED-36-48-01-021721	2/17/2021	66.7		3.52		0.978	<0.0376	U	0.162		0.339	<0.143	U		
RC26	RC26A-SED-0-6-01-092421	9/24/2021	165		5.17		2.61	0.07	J	0.296		0.343	<0.153	U		
RC26	IW35-SED-0-12-01-051822	5/18/2022	109	D	8.28		3.15	0.08	J	0.434		0.54	<0.608	U		
RC26	IW28-SED-0-12-01-051822	5/18/2022	100	D	7.86		3	0.07	J	0.446		0.466	<0.607	U		
RC26	IW27-SED-0-12-01-051922	5/19/2022	125	D	4.54		2.08	0.06	J	0.289		0.4	<0.618	U		
RC26	IW26-SED-0-12-01-051922	5/19/2022	129	D	3.26		1.16	<0.149	U	0.21		0.32	<0.597	U		
RC26	IW26-SED-0-12-02-051922(DUP)	5/19/2022	124	D	3.08		1.14	<0.148	U	0.186		0.277	<0.59	U		
RC26	IW19-SED-0-12-01-051922	5/19/2022	128	D	7.01		2.96	0.08	J	0.373		0.56	<0.581	U		
RC26	IW19-SED-0-12-02-051922(DUP)	5/19/2022	112	D	5.85		2.3	0.07	J	0.332		0.484	<0.591	U		
RC26	IW19-SED-0-12-03-051922(DUP)	5/19/2022	124	D	6.26		2.54	0.07	J	0.331		0.49	<0.603	U		
RC26	IW20-SED-0-12-01-051922	5/19/2022	166	D	7.43		3.21	0.07	J	0.393		0.488	<0.603	U		
RC26	IW15-SED-0-12-01-051922	5/19/2022	114	D	8.88		3.59	0.08	J	0.442		0.482	<0.575	U		
RC27	IW01-SED-0-12-01-021621	2/16/2021	24.8		1.46		1.06	<0.0373	U	0.083	J	0.159	<0.142	U		
RC27	IW01-SED-12-24-01-021621	2/16/2021	27		1.14		1.06	<0.0381	U	0.076	J	0.138	J	<0.145	U	
RC27	IW01-SED-24-36-01-021621	2/16/2021	6.99		0.46		0.391	J	<0.0379	U	<0.0379	U	0.095	J	<0.144	U
RC27	IW04-SED-0-12-01-021621	2/16/2021	47.5		1.98		0.893	<0.0385	U	0.151	J	0.162	<0.146	U		
RC27	IW04-SED-12-24-01-021621	2/16/2021	67.7		3.09		2.84	0.04	J	0.187		0.402	<0.149	U		
RC27	IW04-SED-24-36-01-021621	2/16/2021	38.1		1.37		1.31	<0.0362	U	0.09	J	0.218	<0.138	U		
RC27	IW02-SED-0-12-01-021621	2/16/2021	69.2		3.38		0.983	0.08	J	0.266		0.196	<0.145	U		
RC27	IW04-SED-36-48-01-021621	2/16/2021	37.6		1.05		0.879	<0.0382	U	0.094	J	0.186	<0.145	U		
RC27	IW02-SED-12-24-01-021621	2/16/2021	66.4		3.91		1.83	0.07	J	0.272		0.379	<0.145	U		
RC27	IW02-SED-24-36-01-021621	2/16/2021	41.3		1.7		1.59	<0.0371	U	0.1	J	0.273	<0.141	U		
RC27	IW02-SED-36-48-01-021621	2/16/2021	27.4		0.839		0.48	J	<0.0389	U	0.065	J	0.112	J	<0.148	U
RC27	IW05-SED-0-24-01-021621	2/16/2021	37.1		0.487		0.211	J	<0.0371	U	0.055	J	<0.0371	U	<0.141	U
RC27	IW05-SED-24-36-01-021621	2/16/2021	1.38		0.073	J	<0.142	U	<0.0355	U	<0.0355	U	<0.0355	U	<0.135	U
RC27	IW03-SED-0-12-01-021621	2/16/2021	24.2		0.808		1.12	<0.039	U	0.04	J	0.143	J	<0.148	U	
RC27	IW03-SED-12-24-01-021621	2/16/2021	22.8		0.617		1.43	<0.0381	U	<0.0381	U	0.259	<0.145	U		
RC27	IW03-SED-24-36-01-021621	2/16/2021	21.9		0.706		0.975	<0.0389	U	<0.0389	U	0.179	<0.148	U		
RC27	IW03-SED-36-48-01-021621	2/16/2021	16.1		0.459		0.316	J	<0.0385	U	<0.0385	U	0.104	J	<0.146	U
RC27	IW44-SED-0-12-01-051822	5/18/2022	7.34		0.927		1.4	<0.153	U	0.045	J	0.089	J	<0.611	U	
RC27	IW48-SED-0-12-01-051822	5/18/2022	14.4		1.65		0.777	<0.157	U	0.074	J	0.17	<0.627	U		
RC27	IW47-SED-0-12-01-051822	5/18/2022	6.16		0.318		0.602	J	<0.152	U	<0.152	U	0.069	J	<0.609	U
RC27	IW47-SED-12-24-01-051822	5/18/2022	3.66		0.242		0.381	J	<0.151	U	<0.151	U	0.053	J	<0.605	U
RC27	IW46-SED-0-12-01-051822	5/18/2022	7.47		0.531		0.46	J	<0.149	U	<0.149	U	0.053	J	<0.598	U
RC27	IW46-SED-12-24-01-051822	5/18/2022	5.78		0.49		0.706	<0.15	U	<0.15	U	0.068	J	<0.6	U	
RC27	IW45-SED-0-12-01-051822	5/18/2022	41.8		1.13		1.78	<0.142	U	0.056	J	0.224	<0.567	U		
RC27	IW45-SED-12-24-01-051822	5/18/2022	78.3	D	1.34		1.58	<0.137	U	0.057	J	0.386	<0.55	U		
TL01	TL1-SED-0-6-01-071921	7/19/2021	0.076	J	<0.036	U	0.216	J	<0.036	U	<0.036	U	<0.137	U		
TL02	TL2-SED-0-6-01-071921	7/19/2021	2.05		0.576	J	0.56	J	<0.0682	U	0.124	J	<0.0682	U	<0.259	U
TL03	TL3-SED-0-6-01-072121	7/21/2021	3.92		0.383	J	1.56	J	<0.238	U	<0.238	U	0.391	J	<0.903	U
VB01	VB1-SED-COMP-0-6-01-042720	4/27/2020	<0.08	U	<0.08	U	<0.32	U	<0.08	U	<0.08	U	<0.08	U	<0.304	U
VB03	VB3-SED-COMP-0-6-01-042720	4/27/2020	1.37		0.781		1.49	<0.0787	U	<0.0787	U	0.117	J	<0.299	U	
VB03	VB3-SED-COMP-0-6-02-042720(DUP)	4/27/2020	0.862		0.408		0.74	<0.0711	U	<0.0711	U	<0.0711	U	<0.27	U	
VB03	VB3-SED-BANK-SOUTH-0-6-01-081320	8/13/2020	0.321		0.074	J	0.257	J	<0.0377	U	<0.0377	U	<0.0377	U	<0.143	U
VB03	VB3-SED-BANK-SOUTH-0-6-02-081320(DUP)	8/13/2020	0.478		0.081	J	0.257	J	<0.0377	U	<0.0377	U	<0.0377	U	<0.143	U
VB03	VB3-SED-0-6-01-081320	8/13/2020	0.208		0.062	J	0.284	J	<0.0389	U	<0.0389	U	<0.0389	U	<0.148	U
WL02	WL2-SED-0-6-01-081519	8/15/2019	0.83		<0.0714	U	<0.286	U	<0.0714	U	<0.0714	U	<0.286	U		
WL02	WL2-SED-0-6-01-092220	9/22/2020	1.3	J	0.29	J	<1.3	U	<1.3	U	<1.3	U	0.45	J	<1.3	U
WL03	WL3-SED-0-6-01-082719	8/27/2019	2.86		<0.0746	U	<0									

Attachment F-5: Sediment Analytical Data for Key PFAS Compounds

Chemical Name			PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA	
CAS Number			45298-90-6		335-67-1		375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6	
MPCA SDSV - 5 Days per Week (µg/kg)			18		0.40		120,000		1,500		170		2,600		160	
MPCA SDSV - 2 Days per Week (µg/kg)			45		0.99		250,000		3,700		430		6,600		390	
Location ID	Sample ID	Sample Date	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier	Result (µg/kg)	Qualifier
WL11	WL11-SED-0-6-01-092220	9/22/2020	2.5		0.47	J	0.54	J	<1.1	U	<1.1	U	<1.1	U	<1.1	U
WL12	WL12-SED-0-6-01-081419	8/14/2019	0.939		<0.0739	U	<0.295	U	<0.0739	U	<0.0739	U	<0.0739	U	<0.295	U
WL13	WL13-SED-0-6-01-081419	8/14/2019	2.04		0.106	J	<0.312	U	<0.0781	U	<0.0781	U	<0.0781	U	<0.312	U
WL13	WL13-SED-0-6-01-092520	9/25/2020	0.56	J	0.3	J	<0.99	U	<0.99	U	<0.99	U	<0.99	U	<0.99	U
WL14	WL14-SED-0-6-01-081419	8/14/2019	3.82		0.203		<0.3	U	<0.075	U	<0.075	U	<0.075	U	<0.3	U
WL15	WL15-SED-0-6-01-081419	8/14/2019	3.17		0.137	J	<0.317	U	<0.0793	U	<0.0793	U	<0.0793	U	<0.317	U
WL16	WL16-SED-0-6-01-092320	9/23/2020	1.8		0.27	J	<1.1	U	<1.1	U	<1.1	U	<1.1	U	<1.1	U
WL17	WL17-SED-0-6-01-081319	8/13/2019	1.7		0.081	J	<0.295	U	<0.0738	U	<0.0738	U	<0.0738	U	<0.295	U
WL21	WL21-SED-0-6-01-081920	8/19/2020	8.59		0.376		0.522	J	<0.0387	U	0.098	J	<0.0387	U	<0.147	U
WL21	WL21-SED-6-12-01-081920	8/19/2020	2.35		0.268		0.201	J	<0.0249	U	0.034	J	0.038	J	<0.0947	U
WL22	WL22-SED-0-6-01-081920	8/19/2020	3.25		0.26		0.342	J	<0.0382	U	<0.0382	U	0.047	J	<0.145	U
WL22	WL22-SED-6-12-01-081920	8/19/2020	2.12		0.183		0.274	J	<0.0368	U	<0.0368	U	<0.0368	U	<0.14	U
WL23	WL23-SED-0-6-01-081920	8/19/2020	0.917		0.053	J	0.171	J	<0.0254	U	<0.0254	U	<0.0254	U	<0.0967	U
WL23	WL23-SED-6-12-01-081920	8/19/2020	1.08		0.097	J	0.201	J	<0.0376	U	<0.0376	U	<0.0376	U	<0.143	U

Notes:

MPCA - Minnesota Pollution Control Agency

SDSV - Site specific sediment screening value

Highlighted Yellow Result is in exceedance of MPCA SDVCV 5 Days per Week

Highlighted Orange Result is in exceedance of MPCA SDVCV 2 Days per Week

<0.0002 - Concentration is less than laboratory reportable limit

DUP - Duplicate Sample

Bold - Result is above the laboratory minimum reporting limit

Lab Qualifiers

J - Estimated concentration is less than the reporting limit

R - peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration

D - Dilution data

B - analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank

U - Identifies a compound that was not detected

Attachment F-6

Sediment Analytical Data for All Other PFAS Compounds

Attachment F-6: Sediment Analytical Data for All Other Detected PFAS Compounds

Location ID	Sample ID	Sampling Date	PFBA		PFDA		PFOS		PFPeA		PFHxA		PFHpA		PFNA		PFDA		PFUNA		PFDoA		PFTrDA		PFTEa		PFBS		PFPeS		PFHxS		PFHpS		PFNS		PFDS		PFDoS		6:2 FTS		8:2 FTS		PFOSA		N-MeFOSA		N-EFOSA		N-MeFOSA		N-EFOSA		N-MeFOSE		N-EFOSE		Perfluoro-3-methylpropanoic acid	
			Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier						
Chemical Name			MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)		MPCA SDSV - 5 Days Perme (ug/kg)		MPCA SDSV - 2 Days Perme (ug/kg)											
CAS Number			375-22-4		335-87-1		45298-90-4		2706-90-3		30724-4		375-85-9		375-95-1		335-76-2		2058-94-8		307-55-1		72629-94-8		376-06-7		45187-15-3		175005-36-9		108427-53-8		146689-46-5		474511-07-4		126205-34-8		343629-43-6		425670-75-3		480171-78-7		754-91-6		31506-32-8		4151-50-2		2355-31-9		2991-50-6		24448-09-7		1691-99-2		377-73-1	
MPCA SDSV - 5 Days Perme (ug/kg)			120000		0.4		18		NS		2600		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS											
MPCA SDSV - 2 Days Perme (ug/kg)			250000		0.99		45		NS		6600		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS											
Sample Date			8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019		8/17/2019											
Result (ug/kg)			0.156		0.066		0.13		0.087		0.053		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041		0.041													
Qualifier			J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J													
Result (ug/kg)			0.054		0.173		0.078		0.049		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038													
Qualifier			J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J													
Result (ug/kg)			0.079		0.173		0.078		0.049		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038													
Qualifier			J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J													
Result (ug/kg)			0.079		0.173		0.078		0.049		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038													
Qualifier			J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J													
Result (ug/kg)			0.079		0.173		0.078		0.049		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038		0.038													
Qualifier			J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J		J													

Attachment F-6: Sediment Analytical Data for All Other Detected PFAS Compounds

Table with columns for Chemical Name, PFBA, PFDA, PFOS, PFPeA, PFHxA, PFHpA, PFNA, PFDA, PFUNA, PFDoA, PFTDA, PFTEA, PFBS, PFPeS, PFHxS, PFHpS, PFNS, PFDS, PFDoS, 6:2 FTS, 8:2 FTS, PFOSA, N-MeFOSA, N-EFOSA, N-MeFOAA, N-EFOAA, N-MeFOSE, N-EFOSE, and Perfluoro-3-methoxypropionic acid. Rows include sample IDs like RC33-SED-0-6-01-092121 and associated analytical data.

Notes:
Qualifiers
J - Estimated concentration
R - Identifies a detected peak that did not satisfy all requirements necessary for accurate peak identification; reported result was an estimated maximum possible concentration.
D1 - Dilution data
B - Analyte found in the associated blank and concentration in sample is less than 10x the concentration in the associated blank
U - Identifies a compound that was not detected
<0.0002 - Concentration is less than laboratory reportable limit
DUP - Duplicate Sample
Bold - Result is above the laboratory reporting limit.

Attachment F-7

Groundwater Analytical Data for Key PFAS Compounds

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFDA	PFBA	PFBS	PFHxS	PFNA	HFO-DA	PFNA	Additive Health Impact Calculations															
CAS Number		45298-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-6	375-95-1																
MDH HBV (ng/L)		2.3	0.24	NS	NS	NS	NS	NS	NS																
MDH HL (ng/L)		300	35	7000	NS	47	200	NS	NS																
EPA MCL (ng/L)		4	4	NS	NS	10	200	NS	NS																
LUI	Location	Analyte	Sample ID	Sample Date	Other Type	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Hazard Index	Developmental HRI	Liver System HRI	Immune System HRI	Cancer HRI	Thyroid HRI
848625	WW13B	CI-DN	MW13B-GW-295-005-01-050824	7/16/21	Well	74.7	NA	11	NA	15.5	NA	11	NA	18	NA	23	NA	18.06	549.226	>1	1.554	1.544	1.570	1.613	1.824
848625	WW13B	CI-DN	MW13B-GW-295-005-01-071621	7/16/21	Well	65.2	NA	119	NA	558	NA	7.7	NA	18	NA	23	NA	1.806	524.296	>1	526.061	524.181	524.181	15707.870	2.105
848625	WW13B	CI-DN	MW13B-GW-295-005-01-072320	7/23/20	Well	84.9	NA	158	NA	816	NA	12.6	NA	26.2	NA	31.4	NA	2.626	695.403	>1	697.983	695.246	695.246	20011.171	3.020
848625	WW13B	CI-DN	MW13B-GW-295-005-01-102120	10/21/20	Well	87	NA	140	NA	610	NA	9.4	NA	26	NA	30	NA	2.605	621.309	>1	623.847	621.159	623.847	17372.966	2.931
848625	WW13B	CI-DN	MW13B-GW-295-005-01-102921	10/29/21	Well	143	K	131	NA	551	NA	8.56	J	22.2	NA	18.7	NA	2.224	608.101	>1	610.306	608.007	608.007	16601.094	2.478
854546	WW13C	CI-DN	MW13C-GW-115-125-01-102121	10/21/21	Well	73.6	NA	113	NA	632	NA	13.1	NA	21.7	NA	21.7	NA	2.726	577.833	>1	579.482	579.482	579.482	17035.653	2.792
854546	WW13B	CI-DN	MW13B-GW-46-50-01-061520	6/15/20	VAP	13	NA	61.5	NA	253	NA	6.37	NA	6.64	NA	18.7	NA	0.667	261.966	>1	262.602	261.902	261.902	7788.521	0.857
848625	WW13B	CI-DN	MW13B-GW-91-95-01-061520	6/15/20	VAP	9.1	NA	62.6	NA	380	NA	6.5	NA	14	NA	19.8	NA	1.403	264.889	>1	266.244	264.790	264.790	7925.248	1.618
848625	WW13B	CI-DN	MW13B-GW-91-95-02-061520 (DUP)	6/15/20	VAP	9.62	NA	59.5	NA	308	NA	5.46	NA	13.8	NA	17.6	NA	1.383	252.187	>1	253.523	252.099	252.099	7532.911	1.567
854546	WW13C	CI-DN	MW13C-GW-115-125-01-011521	1/15/21	Well	8.8	NA	47.8	NA	520	NA	7.1	NA	30	NA	21	NA	3.004	188.098	>1	188.007	188.098	188.098	5444.196	3.250
854546	WW13C	CI-DN	MW13C-GW-115-125-01-020021	1/26/22	Well	3.97	NA	31.5	NA	454	NA	8.15	NA	30.3	NA	13.1	NA	2.733	129.287	>1	132.022	129.287	129.287	3873.940	2.918
854546	WW13C	CI-DN	MW13C-GW-115-125-01-041421	4/14/21	Well	4.16	K	37.1	NA	468	NA	7.89	NA	27.2	NA	13.9	NA	2.724	159.378	>1	162.096	159.378	159.378	4785.357	2.935
854546	WW13C	CI-DN	MW13C-GW-115-125-01-042022	4/20/22	Well	4.98	K	34.1	NA	507	NA	6.36	NA	23.2	NA	12.4	NA	2.353	144.311	>1	146.671	144.249	144.249	4317.111	2.548
854546	WW13C	CI-DN	MW13C-GW-115-125-01-042123	4/21/23	Well	5.77	K	38.1	NA	483	NA	6.57	NA	19.6	NA	10.4	NA	1.963	161.311	>1	163.288	161.259	161.259	4822.544	2.147
854546	WW13C	CI-DN	MW13C-GW-115-125-01-050824	5/8/24	Well	4.99	NA	37.1	NA	530	NA	4.85	NA	20.5	NA	11	NA	2.052	156.808	>1	158.879	156.879	156.879	4496.859	2.229
854546	WW13C	CI-DN	MW13C-GW-115-125-01-102822	10/28/22	Well	4.72	K	38.7	NA	485	NA	4.86	NA	23.4	NA	14.3	NA	2.343	163.374	>1	165.711	163.302	163.302	4899.355	2.548
854546	WW13C	CI-DN	MW13C-GW-115-125-01-102921	10/29/21	Well	4.63	K	33.2	NA	502	NA	6.89	NA	29.8	NA	14.7	NA	2.803	140.420	>1	143.216	140.420	140.420	4203.141	3.014
833402	WW13D	CI-DN	MW13D-GW-15-25-01-102120	10/21/20	Well	41	NA	100	NA	67	NA	4.3	NA	33	NA	17	NA	3.302	434.578	>1	437.802	437.802	437.802	12663.623	3.438
833402	WW13D	CI-DN	MW13D-GW-15-25-01-102622	1/26/22	Well	2.26	K	84.9	NA	57.2	NA	3.15	NA	23.2	NA	10.4	NA	2.322	354.785	>1	357.061	354.785	354.785	10471.193	2.412
833402	WW13D	CI-DN	MW13D-GW-15-25-01-102821	4/13/21	Well	2.19	K	89.1	NA	62	NA	5.2	NA	27.3	NA	11	NA	2.522	379.396	>1	381.922	379.396	379.396	11366.654	2.622
833402	WW13D	CI-DN	MW13D-GW-15-25-01-042022	4/20/22	Well	2.61	K	102	NA	63	NA	3.44	NA	18.4	NA	9.84	NA	1.842	426.184	>1	427.984	426.184	426.184	12913.766	1.933
833402	WW13D	CI-DN	MW13D-GW-15-25-01-042123	4/21/23	Well	5.86	K	42.2	NA	61.1	NA	4.07	NA	14.7	NA	9.84	NA	1.472	178.430	>1	179.860	178.430	178.430	5342.543	1.569
833402	WW13D	CI-DN	MW13D-GW-15-25-01-072021	7/20/21	Well	3.03	K	90.3	NA	64.9	NA	3.31	NA	27.9	NA	8.57	NA	2.792	377.610	>1	380.367	377.610	377.610	11430.778	2.875
833402	WW13D	CI-DN	MW13D-GW-15-25-01-102120	10/21/20	Well	19	NA	110	NA	38	NA	4.1	J	19	NA	9.2	J	1.902	466.640	>1	468.500	466.640	466.640	13936.551	1.992
833402	WW13D	CI-DN	MW13D-GW-15-25-01-102821	10/28/21	Well	2.69	K	80	NA	50	NA	3.6	NA	19.1	NA	12.3	NA	2.262	339.939	>1	341.921	339.939	339.939	10052.774	2.522
833402	WW13D	CI-DN	MW13D-GW-15-25-01-102921	10/29/21	Well	2.26	K	84	NA	55.2	NA	3.77	NA	24.5	NA	12.1	NA	2.452	351.043	>1	353.440	351.043	351.043	10653.209	2.556
833402	WW13D	CI-DN	MW13D-GW-15-25-02-102120 (DUP)	10/21/20	Well	18	NA	110	NA	39	NA	4	J	18	NA	9.5	J	1.802	466.159	>1	467.962	466.159	466.159	13926.419	1.846
850557	WW14A	OSTP	MW14A-GW-116-120-01-120720	12/7/20	VAP	3600	NA	760	NA	400	NA	25	NA	53	NA	100	NA	6.308	4732.384	>1	4737.241	4732.384	4732.384	96676.216	6.107
850557	WW14A	OSTP	MW14A-GW-146-150-01-120820	12/8/20	VAP	3100	NA	690	NA	350	NA	24	NA	56	NA	89	NA	6.434	4223.271	>1	4228.476	4228.476	4228.476	87746.667	6.335
850557	WW14A	OSTP	MW14A-GW-196-200-01-102920	10/29/20	VAP	190	NA	930	NA	150	NA	45	NA	96	NA	130	NA	1.159	382.674	>1	385.696	382.674	382.674	11361.774	2.622
850557	WW14A	OSTP	MW14A-GW-196-200-02-102920 (DUP)	10/29/20	VAP	120	NA	420	NA	150	NA	45	NA	55	NA	120	NA	5.523	380.324	>1	380.324	380.324	380.324	5310.346	7.314
850557	WW14A	OSTP	MW14A-GW-286-290-01-121020	12/10/20	VAP	390	NA	180	NA	1200	NA	18	NA	17	NA	39	NA	1.864	919.760	>1	921.437	919.760	919.760	22836.126	2.149
850557	WW14A	CI-DN	MW14A-GW-316-326-01-011921	1/19/21	Well	470	X	270	X	1800	NA	11	J	37	X	9.5	J	5.906	1329.348	>1	1333.305	1329.348	1329.348	34239.057	4.067
850557	WW14A	CI-DN	MW14A-GW-316-326-01-012121	1/21/21	Well	490	NA	280	NA	2200	NA	13	NA	30	NA	74	NA	6.117	1380.070	>1	1383.024	1379.710	1379.710	35567.512	3.804
850557	WW14A	CI-DN	MW14A-GW-316-326-01-012321	1/23/21	Well	282	NA	240	NA	1920	NA	9.36	NA	17.9	NA	42	NA	1.864	1160.199	>1	1162.859	1160.199	1160.199	3029.359	2.511
850557	WW14A	CI-DN	MW14A-GW-316-326-01-012723	1/27/23	Well	408	NA	250	NA	1960	NA	12.5	NA	20	NA	43.5	NA	2.110	1227.609	>1	1229.671	1227.609	1227.609	31952.418	2.623
850557	WW14A	CI-DN	MW14A-GW-316-326-01-013122	1/31/22	Well	382	NA	188	NA	1760	NA	9.61	NA	22.1	NA	37.1	NA	1.639	951.882	>1	953.882	949.420	949.420	2847.732	2.776
850557	WW14A	CI-DN	MW14A-GW-316-326-01-041621	4/16/21	Well	380	NA	243	NA	1760	NA	9.63	NA	20.5	NA	36.8	NA	1.411	1177.901	>1	1179.936	1177.901	1177.901	30899.494	2.499
850557	WW14A	CI-DN	MW14A-GW-316-326-01-041822	4/18/22	Well	393	NA	228	NA	1930	NA	9.68	NA	18.9	NA	42.4	NA	1.985	1093.690	>1	1095.644	1093.690	1093.690	28994.181	2.475
850557	WW14A	CI-DN	MW14A-GW-316-326-01-041923	4/19/23	Well	392	NA	239	NA	1920	NA	9.78	NA	19.1	NA	41.7	NA	2.009	1128.926	>1	1131.496	1128.926	1128.926	3029.359	2.511
850557	WW14A	CI-DN	MW14A-GW-316-326-01-050924	5/9/24	Well	261	NA	248	NA	1940	NA	9.73	NA	19	NA	42.2	NA	1.985	1147.						

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

		Chemical Name	PFOS	PFDA	PFBA	PFBS	PFHxS	PFNA	PFDO-DA	PFNA																
		CAS Number	45286-9-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-6	375-95-1																
		MDH HBV (ng/L)	2.3	0.24	25	NS	NS	NS	NS	NS																
		EPA MCL (ng/L)	300	35	7000	NS	100	47	200	NS																
LUI	Location	Qualifier	Sample ID	Sample Date	Other Type	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier			
855330	MW14D	QUAT	MW14D-GW-6-21-02-05924	6/21/20	Well	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
855330	MW14D	QUAT	MW14D-GW-6-21-02-07124	7/17/24	Well	4410	NA	938	NA	515	NA	25.5	NA	82.8	NA	92.8	NA	10.5	J	9.343	5826.189	5834.078	5825.275	11933.440	9.073	
855330	MW14D	QUAT	MW14D-GW-6-1-02-07183	7/18/23	Well	1820	NA	795	NA	206	NA	17.5	NA	59.2	NA	61.4	NA	65.0	J	6.434	4104.111	4109.574	4103.804	10087.285	6.421	
850551	MW15A	CWOC	MW15A-GW-296-300-01-102620	10/26/20	VAP	9.1	UJ	1.9	NA	73	NA	1.7	J	4.2	UJ	4.2	UJ	5.05	JK	0.001	7.917	7.927	7.927	240.506	0.000	
850551	MW15A	CWOC	MW15A-GW-330-340-01-011821	1/18/21	Well	6.0	U	41.3	U	41.3	U	41.3	U	41.3	U	41.3	U	41.3	U	0.000	0.000	0.000	0.000	0.000	0.000	0.000
850551	MW15A	CWOC	MW15A-GW-330-340-01-049521	4/19/21	Well	1.53	K	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.665	0.665	0.665	0.301	0.000	
850551	MW15A	CWOC	MW15A-GW-330-340-01-042522	4/25/22	Well	2.37	K	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	1.030	1.030	1.030	0.202	0.000	
850551	MW15A	CWOC	MW15A-GW-330-340-01-071521	7/15/21	Well	0.758	JK	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	0.000	0.330	0.330	0.330	0.100	0.000	
850551	MW15A	CWOC	MW15A-GW-330-340-01-102521	10/25/21	Well	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	0.000	0.000	0.000	0.000	0.000	0.000	
850551	MW15A	CWOC	MW15A-GW-330-340-01-102722	10/27/22	Well	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	<0.305	U	0.000	0.000	0.000	0.000	0.000	0.000	
850551	MW15B	CTCG	MW15B-GW-215-225-01-041521	4/15/21	Well	0.47	J	1.7	NA	81	NA	2.1	J	<0.13	U	<0.13	U	<0.13	U	0.001	7.288	7.299	7.288	215.252	0.033	
850552	MW15B	CTCG	MW15B-GW-116-120-01-110220	11/2/20	VAP	0.72	J	3.3	NA	80	NA	1.6	J	<0.13	U	<0.13	U	<0.13	U	0.001	14.063	14.074	14.063	417.816	0.027	
850552	MW15B	CTCG	MW15B-GW-116-120-02-110220 (DUP)	11/2/20	VAP	0.55	J	3.1	NA	79	NA	1.9	J	<0.13	U	<0.13	U	<0.13	U	0.001	15.239	15.250	15.239	455.769	0.030	
850552	MW15B	CTCG	MW15B-GW-156-160-01-110320	11/3/20	VAP	1.2	J	3.1	NA	70	NA	1.7	J	<0.13	U	<0.13	U	<0.13	U	0.001	13.438	13.448	13.438	392.563	0.027	
850552	MW15B	CTCG	MW15B-GW-215-225-01-011821	1/18/21	Well	<0.13	U	5.9	NA	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.001	0.001	0.001	0.001	0.001	
850552	MW15B	CTCG	MW15B-GW-215-225-01-102722	10/27/22	Well	1.73	K	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.001	0.001	0.001	0.001	0.001	
850552	MW15B	CTCG	MW15B-GW-215-225-01-042522	4/25/22	Well	<0.13	U	13.1	NA	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.000	0.000	0.000	0.000	0.000	
850552	MW15B	CTCG	MW15B-GW-215-225-01-051324	5/13/24	Well	<0.13	U	9.28	NA	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.000	0.000	0.000	0.000	0.001	
850552	MW15B	CTCG	MW15B-GW-215-225-01-071521	7/15/21	Well	1.06	JK	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.461	0.461	0.461	0.139	0.000	
850552	MW15B	CTCG	MW15B-GW-215-225-01-102521	10/25/21	Well	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.000	0.000	0.000	0.000	0.000	
850552	MW15B	CTCG	MW15B-GW-215-225-01-102621	10/26/21	Well	<0.13	U	9.91	NA	<0.13	U	<0.13	U	<0.13	U	<0.13	U	<0.13	U	0.000	0.000	0.000	0.000	0.000	0.001	
850552	MW15B	CIDN	MW15B-GW-66-70-01-103020	10/30/20	VAP	2.3	J	1.4	J	5.7	NA	0.45	J	<0.13	U	<0.13	U	<0.13	U	0.000	6.833	6.833	6.833	177.518	0.006	
850552	MW15B	CSTL	MW15B-GW-80-90-01-110220	11/2/20	VAP	<0.13	U	1.7	J	110	NA	2.2	J	<0.13	U	<0.13	U	<0.13	U	0.001	7.083	7.099	7.083	215.190	0.038	
850556	MW17A	OPDC	MW17A-GW-146-150-01-020421	2/4/21	VAP	13.5	NA	471	NA	8670	NA	9.7	NA	14	NA	141	NA	<1.4	JK	1.405	1969.075	1971.008	1968.370	59622.029	3.441	
850556	MW17A	OPDC	MW17A-GW-206-210-01-021521	2/15/21	VAP	13.1	NA	252	NA	3970	NA	4.68	NA	7.88	NA	69.1	NA	<1.4	JK	0.793	931.041	932.051	930.896	28102.990	1.747	
850556	MW17A	OPDC	MW17A-GW-206-210-01-031521	3/15/21	Well	7.42	JK	423	NA	8729	NA	5.61	NA	10.4	NA	125	NA	<1.4	JK	0.916	1765.980	1768.000	1766.900	53563.330	2.676	
850556	MW17A	CIDN	MW17A-GW-230-240-01-013122	1/31/22	Well	8.28	NA	356	NA	7950	D1	6.97	NA	10.6	NA	138	NA	<1.4	JK	1.060	1487.423	1489.129	1486.933	49064.381	2.955	
850556	MW17A	CIDN	MW17A-GW-230-240-01-041921	4/19/21	Well	15.2	K	345	NA	7350	NA	7.08	NA	9.38	NA	114	NA	<1.4	JK	0.942	1444.679	1446.097	1444.100	49672.886	2.629	
850556	MW17A	CIDN	MW17A-GW-230-240-01-042522	4/25/22	Well	9.47	NA	404	NA	9160	D1	7.94	NA	9.67	NA	135	NA	<1.4	JK	0.971	1688.126	1689.726	1687.451	51140.487	3.030	
850556	MW17A	CIDN	MW17A-GW-230-240-01-051324	5/13/2024	Well	112	K	415	NA	8410	D1	7.12	NA	9.27	NA	123	NA	<1.4	JK	0.931	1778.477	1779.991	1777.862	52546.382	2.815	
850556	MW17A	CIDN	MW17A-GW-230-240-01-071921	7/19/21	Well	16.7	K	415	NA	8410	D1	7.12	NA	9.27	NA	123	NA	<1.4	JK	0.931	1778.477	1779.991	1777.862	52546.382	2.815	
850556	MW17A	CIDN	MW17A-GW-230-240-01-071921	7/19/21	Well	8.77	NA	379	NA	7640	NA	7.1	NA	9.77	NA	109	NA	<1.4	JK	0.981	1583.525	1585.048	1582.980	47975.837	2.684	
850556	MW17A	CIDN	MW17A-GW-230-240-01-071923	7/19/23	Well	10.9	JK	446	NA	9440	NA	9.43	J	8.34	J	132	NA	<1.4	JK	0.839	1863.732	1865.255	1863.072	56455.320	2.937	
850556	MW17A	CIDN	MW17A-GW-230-240-01-102523	10/25/23	Well	17.8	K	467	NA	9010	NA	7.64	J	9.9	J	144	NA	<1.4	JK	0.994	1954.292	1955.850	1953.572	59116.266	3.074	
850556	MW17A	CIDN	MW17A-GW-230-240-01-102621	10/26/21	Well	8.06	NA	361	NA	8930	NA	7.89	NA	10.5	NA	144	NA	<1.4	JK	0.854	1508.391	1509.888	1507.671	46597.283	2.996	
850556	MW17A	CIDN	MW17A-GW-230-240-01-103122	10/31/22	Well	11.3	NA	435	NA	9278	NA	10.1	NA	12.8	NA	137	NA	<1.4	JK	0.865	1818.098	1819.817	1817.413	55667.788	3.100	
854409	MW17B	QUAT	MW17B-GW-10-100-01-021821	2/18/21	VAP	11.3	NA	173	NA	3078	NA	2.36	NA	2	NA	2.9	NA	<1.4	JK	0.491	J	0.250	77.009	76.996	2191.360	0.245
854409	MW17B	QUAT	MW17B-GW-10-100-01-021821	2/18/21	VAP	8.08	NA	18	NA	82.5	NA	2.93	NA	4.85	NA	5.98	NA	<1.4	JK	0.548	78.543	79.010	78.513	2279.544	0.556	
854409	MW17B	OSTP	MW17B-GW-90-100-01-013122	1/31/22	Well	8.28	NA	179	NA	3210	D1	4.43	NA	9.62	NA	58.5	NA	<1.4	JK	0.964	749.726	750.854	749.433	22659.317	1.757	
854409	MW17B	OSTP	MW17B-GW-90-100-01-041921	4/19/21	Well	12.7	K	214	NA	2950	NA	4.81	NA	8.41	NA	97.3	NA	<1.4	JK	0.843	897.475	898.451	897.188	27092.479	1.937	
854409	MW17B	OSTP	MW17B-GW-90-100-01-041923	4/19/23	Well	2.43	NA	230	NA	3490	D1	5.61	NA	8.22	NA	60.3	NA	<1.4	JK	0.815	990.778	990.877	989.477	29164.270		

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFDA	PFBA	PFBS	PFHxS	PFNA	PFDOA	PFNA	Additive Health Impact Calculations															
CAS Number		45286-93-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-6	375-95-1																
MDH HBV (ng/L)		2.3	0.24	NS	NS	NS	NS	NS	NS	Additive Health Impact Calculations															
EPA MCL (ng/L)		300	35	7000	100	47	200	NS	NS																
LU	Location	Assef	Sample ID	Sample Date	Other Type	Result	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Hazard Index	Developmental HRI	Liver System HRI	Immune System HRI	Cancer HRI	Thyroid HRI
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	>1	>1	>1	>1	>1	>1
870299	MW23A	OPDC	MW23A-GW-42-412-103234	10/28/23	Well	84.5	NA	459	NS	8.6	NA	18.6	NA	33.2	NA	1.864	NS	1.864	NS	0.000	0.000	0.000	0.000	0.000	0.000
870299	MW23A	CIDN	MW23A-GW-42-412-103263	10/26/23	Well	125	NA	423	NA	8.36	J	17.1	NA	33.5	NA	1.714	NS	1.714	NS	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-051234	1/25/2024	Well	19	Well	169	Well	587	Well	8.65	17	32.5	NA	0.871	J	1.791	1.712	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-051234	1/25/2024	Well	228	Well	587	Well	8.65	17	32.5	NA	33.5	NA	0.871	J	1.792	1.712	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-051234	5/13/2024	Well	28.6	Well	947	Well	11.2	25.1	51.3	NA	51.3	NA	0.924	J	2.409	1.079	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-051234	5/13/2024	Well	275	Well	947	Well	14.9	25.1	51.3	NA	51.3	NA	0.924	J	2.410	1.082	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-051234	6/5/23	Well	636	NA	349	NA	1260	NA	15.5	NA	71.3	NA	1.178	NS	1.178	NS	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-071824	7/18/24	Well	277	NA	270	NA	998	NA	15.5	NA	52.6	NA	1.19	J	3.087	1.245	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-071923	7/19/23	Well	354	NA	226	NA	832	NA	11.6	J	22.3	NA	1.236	NS	1.236	NS	0.000	0.000	0.000	0.000	0.000	0.000
870300	MW23B	OPDC	MW23B-GW-299-309-01-101724	10/17/24	Well	411	NA	381	NA	1420	NA	22.9	NA	46.7	NA	1.36	J	4.817	1.766	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-103023	10/26/23	Well	378	NA	373	NA	726	NA	13.2	NA	24	NA	1.1	J	2.517	1.021	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-106-110-01-052523	5/25/23	VAP	NS		0.855	J	160	NA	0.631	J	2.34	NA	0.533	NS	0.533	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-051234	1/25/2024	Well	2.97	J	1.69	J	107	NS	1.23	J	4.59	NS	0.17	NS	0.17	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-051234	1/25/2024	Well	1.61	K	1.69	J	107	NS	1.23	J	4.59	NS	0.17	NS	0.17	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-051234	5/17/24	Well	0.55	J	0.558	J	42.9	NA	0.49	J	0.58	NS	0.002	NS	0.002	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-103023	6/21/23	Well	3	J	1.2	J	120	NS	1.23	J	4.59	NS	0.17	NS	0.17	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-071824	7/18/2024	Well	1.56	J	1.5	J	63	NA	1.02	J	0.496	J	1.89	NS	0.259	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-071824	7/18/2024	Well	2.6	K	1.5	J	63	NA	1.02	J	0.496	J	1.89	NS	0.259	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-071923	7/19/23	Well	4.91	JK	11.8	JK	113	NA	11.8	JK	11.8	JK	1.19	NS	0.050	0.050	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-101724	10/17/24	Well	2.42	K	1.41	BSJ	71.3	NA	0.731	J	0.78	NS	1.85	NS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-151-161-01-103023	10/26/23	Well	32	K	0.672	JK	34.7	NA	0.688	J	0.688	NS	0.000	NS	0.000	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-56-60-01-052523	5/25/23	VAP	<1.07	J	5.26	J	5.26	NS	<1.07	J	5.26	NS	0.000	NS	0.000	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-56-60-02-052523 (DUP)	5/25/23	VAP	<1.07	J	5.06	J	5.06	NS	<1.07	J	5.06	NS	0.000	NS	0.000	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW23C	OPDC	MW23C-GW-56-60-03-052523 (DUP)	5/25/23	VAP	<1.07	J	4.78	J	4.78	NS	<1.07	J	4.78	NS	0.000	NS	0.000	NS	0.000	0.000	0.000	0.000	0.000	0.000
870303	MW25A	CIDN	MW25A-GW-260-270-01-102623	10/26/23	Well	35.2	NA	47.3	NA	386	NA	3.43	NA	5.23	NA	0.27	NS	0.27	NS	0.525	0.525	0.000	0.000	0.000	0.000
870303	MW25A	CIDN	MW25A-GW-260-270-01-102623	1/25/2024	Well	32	NA	47.3	NA	386	NA	3.43	NA	5.23	NA	0.27	NS	0.27	NS	0.525	0.525	0.000	0.000	0.000	0.000
870303	MW25A	CIDN	MW25A-GW-390-400-01-051234	1/25/2024	Well	37.7	NA	47.3	NA	386	NA	3.7	NA	5.3	NA	0.18	NS	0.18	NS	0.532	0.532	0.000	0.000	0.000	0.000
870303	MW25A	CIDN	MW25A-GW-390-400-01-051234	5/15/24	Well	27.7	NA	47.2	NA	429	NA	3.56	NA	5.05	NA	0.14	NS	0.14	NS	0.507	0.507	0.000	0.000	0.000	0.000
870303	MW25A	CIDN	MW25A-GW-390-400-01-071824	7/18/2024	Well	12.2	NA	46.4	NA	416	NA	4.21	NA	6.36	NA	0.18	NS	0.18	NS	0.638	0.638	0.000	0.000	0.000	0.000
870303	MW25A	CIDN	MW25A-GW-390-400-01-071824	7/18/2024	Well	24.2	NA	46.4	NA	416	NA	4.21	NA	6.36	NA	0.18	NS	0.18	NS	0.638	0.638	0.000	0.000	0.000	0.000
870303	MW25A	CIDN	MW25A-GW-390-400-01-101724	10/17/24	Well	29.8	NA	46.4	NA	416	NA	4.33	NA	6.92	NA	0.14	NS	0.14	NS	0.694	0.694	0.000	0.000	0.000	0.000
870303	MW25B	OPDC	MW25B-GW-260-270-01-051234	1/25/24	Well	5.55	K	0.915	J	21.4	NA	0.57	J	0.57	NS	0.739	NS	0.629	0.629	0.000	0.000	0.000	0.000	0.000	0.000
870303	MW25B	OPDC	MW25B-GW-260-270-01-051234	5/13/24	Well	<1.07	J	1.41	J	43.7	NA	0.575	J	0.575	NS	1.11	J	0.629	0.629	0.000	0.000	0.000	0.000	0.000	0.000
870303	MW25B	OPDC	MW25B-GW-260-270-01-071824	7/18/2024	Well	3.93	J	2.26	JK	61.3	NA	1.2	J	0.453	J	1.19	J	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000
870303	MW25B	OPDC	MW25B-GW-260-270-01-101724	10/17/24	Well	1.43	JK	2.26	JK	61.3	NA	1.2	J	0.453	J	1.19	J	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000
870303	MW25B	OPDC	MW25B-GW-260-270-01-071923	7/19/23	Well	1.92	K	3.47	BS	98.7	NA	1.29	J	0.958	J	1.88	NA	0.096	0.096	0.000	0.000	0.000	0.000	0.000	0.000
870303	MW25B	OPDC	MW25B-GW-260-270-01-101724	10/17/24	Well	1.92	K	3.47	BS	98.7	NA	1.29	J	0.958	J	1.88	NA	0.096	0.096	0.000	0.000	0.000	0.000	0.000	0.000
870302	MW25B	QUAT	MW25B-GW-26-30-01-062623	10/26/23	VAP	0.406	J	16.4	NA	236	NA	7.6	NA	3.9	NA	8.02	NA	0.394	0.394	0.000	0.000	0.000	0.000	0.000	0.000
870302	MW25B	OPDC	MW25B-GW-390-400-01-102623	10/26/23	Well	0.839	JK	1.92	NA	66.1	NA	0.693	J	0.542	J	1.58	K	0.055	0.055	0.000	0.000	0.000	0.000	0.000	0.000
870302	MW25B	OPDC	MW25B-GW-76-80-01-062323	6/27/23	VAP	3.34	K	3.34	NA	250	NA	0.997	J	2.27	NA	0.000	NS	0.000	NS	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW26A	CIDN	MW26A-GW-380-390-01-051234	1/25/24	Well	19.9	K	27.4	NA	221	NA	2.21	NA	3.66	NA	8.49	NA	0.367	0.367	0.000	0.000	0.000	0.000	0.000	0.000
870301	MW26A	CIDN	MW26A-GW-380-390-01-051234	1/26/23	Well	20.3	K	27.1	NA	165	NA	2.54	NA	3.83	NA	8.82	NA	0.384	0.384	0					

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

		Chemical Name		PFOS	PFDA	PFBA	PFBS	PFHxS	PFNA	PFHpA	PFMO-DA	PFNA	Additive Health Impact Calculations								
		CAS Number	45286-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13523-13-6	375-95-1											
		MDH HBV (ng/L)	2.3	0.24	NS	NS	NS	NS	NS	NS	Hazard Index										
		EPA MCL (ng/L)	300	35	7000	100	47	200	NS	NS	Developmental HRI										
LUI	Location	Qualifier	Sample ID	Sample Date	Other Type	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result	Result	Result	Result	Result	
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	≥1	≥1	≥1	≥1	≥1	
848623	MW2A	CDN	MW2A-GW-240-263-01-041921	4/19/21		6.01	W	5.72	W	1.62	NA	10	NA	0.161		153.839	153.839	153.839	153.839	0.299	
848623	MW2A	CDN	MW2A-GW-240-263-01-072121	7/21/21		2.58	NA	37.6	NA	573	NA	0.754	J	1.52	J	9.28	NA	-1.49	U	-0.992	U
848623	MW2A	CDN	MW2A-GW-240-263-01-072420	7/24/20		4.66	NA	31.1	NA	517	NA	0.692	J	1.21	J	9.07	NA	-0.88	U	-0.47	U
848623	MW2A	CDN	MW2A-GW-240-263-01-091922	9/19/22	Well	17.4	NA	34.8	NA	558	NA	0.72	J	1.25	J	6.91	NA	-0.87	U	-0.17	U
848623	MW2A	CDN	MW2A-GW-240-263-01-102120	10/21/20	Well	7.5	NA	39	NA	590	NA	0.678	J	3	J	14	NA	-0.74	U	-0.32	U
848623	MW2A	CDN	MW2A-GW-240-263-01-102621	10/26/21	Well	6.06	K	37.5	NA	610	NA	0.683	J	1.32	J	9.71	NA	-0.86	U	-0.18	U
848623	MW2A	CDN	MW2A-GW-240-263-01-102622	10/26/22	Well	12.5	K	41.6	NA	730	NA	0.657	J	1.43	J	9.96	NA	-0.85	U	-0.48	U
848623	MW2A	CDN	MW2A-GW-240-263-02-072420 (DUP)	7/24/20	Well	4.47	NA	33	NA	524	NA	0.729	J	1.3	J	9.35	NA	-0.77	U	-0.76	U
848623	MW2A	QUAT	MW2A-GW-36-40-01-062220	6/22/20	VAP	718	NA	102	NA	50	NA	4.45	NA	12.4	NA	13.5	NA	-0.91	U	-2.66	U
848623	MW2A	QUAT	MW2A-GW-36-40-02-062220 (DUP)	6/22/20	VAP	702	NA	111	NA	85.7	NA	6.94	NA	13	NA	17.4	NA	-0.88	U	-2.8	U
848623	MW2A	QUAT	MW2A-GW-66-70-01-062220	6/22/20	VAP	719	NA	79	NA	282	NA	3.58	NA	42.1	NA	2.89	NA	3.817	1425.324	1428.659	3889.074
848623	MW2A	OSTP	MW2A-GW-86-90-01-062220	6/22/20	VAP	509	NA	120	NA	169	NA	7.81	NA	16	NA	18.6	NA	-0.87	U	-2.8	U
833405	MW2B	QUAT	MW2B-GW-57-62-01-011521 (FILTERED)	1/15/21	Well	930	NA	180	NA	170	NA	19	NA	49	NA	14	NA	-1.7	U	-3.6	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-011521 (UNFILTERED)	1/15/21	Well	1100	NA	160	NA	190	NA	23	NA	54	NA	14	NA	-1.7	U	-3.3	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-032922	3/29/22	Well	1380	D	374	NA	211	NA	12.8	NA	30	NA	38.7	NA	-0.89	U	-2.96	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-082021	8/20/21	Well	875	NA	298	NA	122	NA	19.1	NA	12.5	NA	2.06	NA	4.246	1227.164	1231.265	1227.164
833405	MW2B	QUAT	MW2B-GW-57-62-01-041822	4/18/22	Well	897	D	279	NA	225	NA	13	NA	29.6	NA	25.3	NA	-0.83	U	-3.29	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-042123	4/21/23	Well	592	D	317	NA	197	NA	7.51	NA	17.6	NA	52.4	NA	-0.88	U	-2.18	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-050724	5/7/24	Well	560	NA	91	NA	289	NA	10.3	NA	9.5	NA	9.23	NA	-0.88	U	-1.47	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-072121	7/21/21	Well	655	NA	206	NA	114	NA	6.62	NA	18	NA	21.4	NA	-1.42	U	-1.74	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-082021	8/20/21	Well	871	NA	298	NA	122	NA	27.2	NA	12.2	NA	11.8	NA	-1.95	J	2.919	1012.182
833405	MW2B	QUAT	MW2B-GW-57-62-01-102521	10/25/21	Well	634	NA	106	NA	83.5	NA	14.6	NA	25.7	NA	9.88	NA	-0.84	U	-0.893	J
833405	MW2B	QUAT	MW2B-GW-57-62-01-102622	10/26/22	Well	707	D	420	NA	282	NA	24.4	NA	41.8	NA	43.2	NA	-0.68	U	-2.4	NA
833405	MW2B	QUAT	MW2B-GW-57-62-01-102720	10/27/20	Well	980	NA	200	NA	130	NA	11	NA	24	NA	39	NA	-1.4	U	-3.9	NA
833405	MW2B	QUAT	MW2B-GW-57-62-02-032922 (DUP)	3/29/22	Well	1380	D	344	NA	209	NA	11.9	NA	31.1	NA	39.7	NA	-0.89	U	-3.07	NA
833405	MW2B	QUAT	MW2B-GW-57-62-02-042123 (DUP)	4/21/23	Well	840	NA	312	NA	208	NA	37.1	NA	17.7	NA	17.1	NA	-0.81	U	-3.23	NA
833405	MW2B	QUAT	MW2B-GW-57-62-02-072121 (DUP)	7/21/21	Well	623	NA	185	NA	109	NA	6.98	NA	17.3	NA	23.1	NA	-0.41	U	1.43	J
833405	MW2B	QUAT	MW2B-GW-57-62-02-102521 (DUP)	10/25/21	Well	637	NA	116	NA	82.5	NA	15.4	NA	24.7	NA	11.1	NA	-0.43	U	-1.05	NA
833405	MW2B	QUAT	MW2B-GW-57-62-02-102622 (DUP)	10/26/22	Well	727	D	433	NA	302	NA	24.8	NA	42.6	NA	44.5	NA	-0.88	U	-3.32	NA
833405	MW2B	QUAT	MW2B-GW-57-62-03-032922 (DUP)	3/29/22	Well	1350	D	344	NA	210	NA	12.1	NA	30.2	NA	38.2	NA	-0.82	U	-3.01	NA
833405	MW2B	QUAT	MW2B-GW-57-62-03-042123 (DUP)	4/21/23	Well	840	D	312	NA	208	NA	37.6	NA	17.4	NA	16.8	NA	-0.88	U	-3.81	NA
833405	MW2B	QUAT	MW2B-GW-57-62-03-102622 (DUP)	10/26/22	Well	713	D	412	NA	297	NA	25	NA	41.5	NA	45	NA	-0.89	U	-3.09	NA
833406	MW2C	QUAT	MW2C-GW-35-40-01-011421	1/14/21	Well	1100	NA	300	NA	250	NA	24	NA	54	NA	23	NA	-1.7	U	-3.9	NA
833406	MW2C	QUAT	MW2C-GW-35-40-01-012622	1/26/22	Well	799	D	222	NA	192	NA	13.1	NA	30.5	NA	20.5	NA	-1.58	U	-1.91	NA
833406	MW2C	QUAT	MW2C-GW-35-40-01-041121	4/11/21	Well	644	NA	200	NA	189	NA	16.3	NA	30.4	NA	20.1	NA	-1.42	U	-2.29	NA
833406	MW2C	QUAT	MW2C-GW-35-40-01-102120	10/21/20	Well	840	NA	219	NA	200	NA	13.1	NA	27.7	NA	21.8	NA	-0.87	U	-3.23	NA
833406	MW2C	QUAT	MW2C-GW-35-40-01-042123	4/21/23	Well	783	D	137	NA	127	NA	8.07	NA	12.2	NA	18.2	NA	-0.82	U	-2.42	NA
833406	MW2C	QUAT	MW2C-GW-35-40-01-050924	5/9/24	Well	544	NA	104	NA	368	NA	13	NA	10.1	NA	8.84	NA	-0.88	U	-1.55	J
833406	MW2C	QUAT	MW2C-GW-35-40-01-071421	7/14/21	Well	606	NA	84.7	NA	91	NA	10.4	NA	17.3	NA	6.92	NA	-1.41	U	-1.29	J
833406	MW2C	QUAT	MW2C-GW-35-40-01-082021	8/20/21	Well	849	NA	240	NA	105	NA	10.8	NA	24.4	NA	20.9	NA	-0.82	U	-1.96	J
833406	MW2C	QUAT	MW2C-GW-35-40-01-102120	10/21/20	Well	840	NA	119	NA	82	NA	13	NA	27.7	NA	13	NA	-0.81	U	-3.2	NA
833406	MW2C	QUAT	MW2C-GW-35-40-01-102521	10/25/21	Well	630	NA	106	NA	82.8	NA	8.09	NA	18.9	NA	9.65	NA	-1.05	J	1.999	715.628
833406	MW2C	QUAT	MW2C-GW-35-40-01-102822	10/28/22	Well	595	NA	308	NA	277	NA	17.8	NA	30.4	NA	36.5	NA	-0.88	U	-2.37	NA
833406	MW2C	QUAT	MW2C-GW-35-40-02-011421 (DUP)	1/14/21	Well	1200	NA	300	NA	260	NA	21	NA	52	NA	24	NA	-1.0	U	-4.2	NA
833406	MW2C	QUAT	MW2C-GW-35-40-02-041822 (DUP)	4/18/22	Well	720	D	216	NA	199	NA	10.4	NA	23	NA	19.3	NA	-0.82	U	-3.71	NA
833406	MW2C	QUAT	MW2C-GW-35-40-02-102120 (DUP)	10/21/20	Well	810	NA	130	NA	200	NA	13.7	NA	26.8	NA	25.6	NA	-0.87	U	-3.29	NA
833406	MW2C	QUAT	MW2C-GW-35-40-02-102822 (DUP)	10/28/22	Well	614	D	320	NA	240	NA	18.2	NA	30.4	NA	29.8	NA	-0.83	U	-2.79	NA
833407	MW2D	QUAT	MW2D-GW-7-17-01-011421 (FILTERED)	1/14/21	Well	380	NA	8.3	NA	4.5	NA	2.5	NA	3.3	NA	0.2	NA	-1.8	U	-1.8	NA
833407	MW2D	QUAT	MW2D-GW-7-17-01-011421 (UNFILTERED)	1/14/21	Well	510	NA	12	NA	6.3	NA	2.8	NA	4.1	NA	0.2	NA	-1.8	U	-1.8	NA
833407	MW2D	QUAT	MW2D-GW-7-17-01-012224	1/22/24	Well	206	NA	196	NA	308	NA	14.1	NA	16.2	NA	63.8	NA	-0.13	U	0.849	J
833407	MW2D	QUAT	MW2D-GW-7-17-01-012323	1/23/23	Well	379	NA	219	NA	208	NA	12.8	NA	19.6	NA	18.6	NA	-0.87	U	-3.15	NA
833407	MW2D	QUAT	MW2D-GW-7-17-01-012622	1/26/22	Well	102	NA	135	J	0.58	J	2.92	NA	2.64	NA	0.829	NA	-0.25	U	-0.848	U
833407	MW2D	QUAT	MW2D-GW-7-17-01-012825	1/28/2025	Well	3.06	J	59.9	J	270	J	13.2	NA	12.3	NA	0.692	J				

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Well ID	Location	Qualifier	Sample ID	Sample Date	Other Type	Chemical Name																		Additive Health Impact Calculations				
						PFOS		PFDA		PFBA		PFBS		PFHxS		PFNA		HFPO-DA		PFNA		Hazard Index	Developmental HRI	Liver System HRI	Immune System HRI	Cancer HRI	Thyroid HRI	
						CAS Number	MDH HBV (ng/L)	EPMA MCL (ng/L)	3	35	7000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS							NS
						45286-9-6	2.3	300	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
86766	MW2F	OPDC	MW2F-GW-130-150-01-050774	5/7/24		304	346	407	427	14.4	NA	32	NA	2.1	NA	2.438	1883.474	1885.463	1882.174	4418.322	3.674							
86766	MW2F	OPDC	MW2F-GW-130-150-01-093022	9/30/22	Well	1030	D1	330	NA	517	NA	15.1	NA	36.3	NA	57	NA	-65.0	2.8	NA	3.918	1823.111	1826.530	1822.826	4109.678	4.144		
86766	MW2F	OPDC	MW2F-GW-130-150-01-101824	10/18/24	Well	1040	D1	336	NA	445	NA	15.4	NA	38.2	NA	44.8	NA	-67.0	2.72	NA	4.100	1852.398	1856.057	1852.174	4268.488	4.262		
86766	MW2F	OPDC	MW2F-GW-130-150-01-102523	10/25/23	Well	953	D1	330	NA	485	NA	15.4	NA	32.6	NA	44.6	NA	-55.0	2.59	NA	3.527	1789.571	1797.677	1789.348	4197.547	3.706		
86766	MW2F	OPDC	MW2F-GW-130-150-02-012324	1/23/24	Well	973	D1	345	NA	464	NA	14.6	NA	32.7	NA	49	NA	-55.0	2.47	NA	3.524	1860.788	1863.890	1860.543	4378.932	3.727		
86766	MW2F	OPDC	MW2F-GW-130-150-02-015921	5/9/24	Well	1076	D1	343	NA	489	NA	15	NA	32.4	NA	55.5	NA	-62.0	2.68	NA	3.916	1994.390	2007.684	1994.64	4350.911	3.685		
86766	MW2F	OPDC	MW2F-GW-130-150-01-012224	1/23/24	Well	995	D1	360	NA	467	NA	15.1	NA	32.3	NA	48.6	NA	-55.0	2.42	NA	3.524	1932.852	1935.905	1932.609	4570.541	3.691		
86766	MW2F	OPDC	MW2F-GW-130-150-01-050724	5/7/24	Well	1080	D1	343	NA	490	NA	14.4	NA	32.2	NA	44.8	NA	-61.0	2.81	NA	3.508	1898.956	1902.022	1898.732	4359.827	3.658		
847052	MW3A	CIDN	MW3A-GW-230-250-01-012021	1/20/21	Well	400	NA	250	NA	730	NA	19	NA	39	NA	62	NA	-1.0	1.6	UI	4.070	1215.890	1219.584	1215.580	3169.201	4.504		
847052	MW3A	CIDN	MW3A-GW-230-250-01-012623	1/26/23	Well	295	K	211	NA	716	NA	16	NA	23.4	NA	39.2	NA	-60.0	1.5	UI	3.448	1007.624	1009.878	1007.428	2674.877	2.798		
847052	MW3A	CIDN	MW3A-GW-230-250-01-012722	1/27/22	Well	171	NA	117	NA	156	NA	8.7	NA	18.5	NA	21.6	NA	-57.0	0.573	UI	1.912	562.011	563.778	561.660	1483.637	2.181		
847052	MW3A	CIDN	MW3A-GW-230-250-01-041921	4/19/21	Well	90.6	NA	83.3	NA	516	NA	5.95	NA	10.2	NA	24.3	NA	-14.0	1.023	UI	1.023	386.596	387.568	386.475	1055.225	1.275		
847052	MW3A	CIDN	MW3A-GW-230-250-01-041922	4/19/22	Well	205	NA	143	NA	653	NA	10	NA	18.1	NA	33.3	NA	-67.0	0.756	UI	1.891	685.130	686.867	684.964	1812.240	2.170		
847052	MW3A	CIDN	MW3A-GW-230-250-01-042123	4/21/23	Well	149	NA	149	NA	733	NA	8.33	NA	29.8	NA	29.8	NA	-45.0	1.1	UI	1.564	685.765	687.281	685.616	1889.365	1.927		
847052	MW3A	CIDN	MW3A-GW-230-250-01-050824	5/8/24	Well	124	NA	111	NA	716	NA	16	NA	23.4	NA	39.2	NA	-62.0	1.173	UI	1.173	516.948	517.686	516.413	1408.949	1.488		
847052	MW3A	CIDN	MW3A-GW-230-250-01-071522	7/15/22	Well	227	NA	180	NA	690	NA	11.6	NA	21.1	NA	36.7	NA	-66.0	0.858	UI	2.202	848.879	850.904	848.696	2284.979	2.508		
847052	MW3A	CIDN	MW3A-GW-230-250-01-071621	7/16/21	Well	277	NA	206	NA	622	NA	17.1	NA	28.4	NA	46	NA	-14.0	1.07	UI	2.956	978.998	981.697	978.768	2611.397	3.330		
847052	MW3A	CIDN	MW3A-GW-230-250-01-102120	10/21/20	Well	300	NA	226	NA	620	NA	13	NA	27	NA	48	NA	-14.0	1.5	UI	2.857	1047.341	1049.890	1047.101	2787.575	3.159		
847052	MW3A	CIDN	MW3A-GW-230-250-01-110121	11/1/21	Well	271	NA	201	NA	614	NA	15.3	NA	27.4	NA	36.3	NA	-12.0	0.841	UI	2.892	955.908	958.154	955.266	2478.966	3.162		
847052	MW3A	CIDN	MW3A-GW-230-250-01-110422	11/4/22	Well	476	NA	262	NA	652	NA	5.7	NA	13.5	NA	45.4	NA	-12.0	1.23	UI	3.452	1310.619	1313.638	1310.619	3418.001	3.832		
847053	MW3B	OPDC	MW3B-GW-110-130-01-012021 (FILTERED)	1/20/21	Well	700	NA	801	NA	1900	NA	47	NA	98	NA	180	NA	-1.0	2.9	UI	10.114	3763.581	3772.753	3762.681	10515.996	11.441		
847053	MW3B	OPDC	MW3B-GW-110-130-01-012021 (UNFILTERED)	1/20/21	Well	760	NA	960	NA	2200	NA	55	NA	110	NA	200	NA	-1.0	4	UI	11.428	4331.435	4341.749	4330.435	12161.897	12.864		
847053	MW3B	OPDC	MW3B-GW-110-130-01-012623	1/26/23	Well	569	NA	622	NA	1790	NA	51.2	NA	67.4	NA	117	NA	-14.0	1.7	UI	6.766	2839.643	2846.054	2839.058	7889.046	8.093		
847053	MW3B	OPDC	MW3B-GW-110-130-01-012722	1/27/22	Well	400	D1	478	D1	1680	NA	38.4	NA	79.7	NA	115	NA	-15.0	2.18	UI	8.207	2166.155	2173.790	2165.580	6058.961	9.169		
847053	MW3B	OPDC	MW3B-GW-110-130-01-041921	4/19/21	Well	687	NA	687	NA	1790	NA	53.7	NA	73.5	NA	133	NA	-14.0	2.24	UI	8.291	2648.423	2653.862	2648.423	7191.06	9.231		
847053	MW3B	OPDC	MW3B-GW-110-130-01-041922	4/19/22	Well	709	D1	674	NA	1790	NA	45.2	NA	75.3	NA	133	NA	-15.0	2.24	UI	7.707	2950.593	2957.730	2949.928	8034.454	8.920		
847053	MW3B	OPDC	MW3B-GW-110-130-01-042123	4/21/23	Well	499	NA	584	NA	1890	NA	40.7	NA	67.6	NA	111	NA	-63.0	2.14	UI	6.994	2650.845	2659.320	2650.290	7399.709	7.992		
847053	MW3B	OPDC	MW3B-GW-110-130-01-050824	5/8/24	Well	415	NA	567	NA	1740	NA	38.3	NA	66.4	NA	112	NA	-62.0	1.84	UI	6.843	2543.495	2549.623	2542.935	71826.757	7.832		
847053	MW3B	OPDC	MW3B-GW-110-130-01-060320	6/3/20	Well	661	NA	598	NA	1620	NA	42	NA	85.6	NA	124	NA	-24.0	2.06	UI	8.867	2779.728	2787.849	2779.058	75781.176	9.081		
847053	MW3B	OPDC	MW3B-GW-110-130-01-071522	7/15/22	Well	476	NA	476	NA	1990	NA	48.3	NA	79.3	NA	133	NA	-12.0	2.53	UI	8.213	2939.898	2943.917	2939.898	7940.337	9.285		
847053	MW3B	OPDC	MW3B-GW-110-130-01-071621	7/16/21	Well	519	NA	522	NA	1900	NA	44.7	NA	80.7	NA	99	NA	-14.0	2.06	UI	8.295	2401.147	2408.968	2400.652	6614.239	9.258		
847053	MW3B	OPDC	MW3B-GW-110-130-01-102120	10/21/20	Well	700	NA	720	NA	1900	NA	44	NA	88	NA	180	NA	0.3	1.4	UI	9.262	3340.030	3348.202	3339.130	91241.872	10.411		
847053	MW3B	OPDC	MW3B-GW-110-130-01-102821	10/28/21	Well	636	NA	541	NA	1600	NA	39.5	NA	72.9	NA	117	NA	-14.0	1.87	UI	7.497	2531.273	2538.207	2530.688	6854.697	8.499		
847053	MW3B	OPDC	MW3B-GW-110-130-01-110422	11/4/22	Well	493	D1	599	D1	1730	NA	52.6	NA	74	NA	115	NA	-60.0	1.72	UI	7.998	2689.756	2692.828	2685.181	7126.160	8.749		
847053	MW3B	OPDC	MW3B-GW-110-130-01-041921 (DUP)	4/19/21	Well	705	NA	670	NA	1900	NA	48.3	NA	79.3	NA	133	NA	-12.0	2.04	UI	8.213	2939.898	2943.917	2939.898	7940.337	9.285		
847053	MW3B	QUAT	MW3B-GW-16.5-19-01-011320	1/13/20	VAP	1.95	NA	1.76	NA	7.3	NA	2.48	NA	4.5	NA	1.46	UI	-29.0	0.001	UI	0.001	8.132	8.136	8.125	246.835	0.043		
847053	MW3B	QUAT	MW3B-GW-31.35-01-011320	1/13/20	VAP	279	NA	216	NA	436	NA	11.7	NA	23.6	NA	33.3	NA	-0.64	1.26	UI	2.092	1021.474	1023.327	1021.304	2737.843	2.309		
847053	MW3B	QUAT	MW3B-GW-31.35-02-011320 (DUP)	1/13/20	VAP	288	NA	219	NA	438	NA	11.3	NA	19	NA	35.1	NA	-0.64	1.02	UI	2.008	1037.893	1039.677	1037.717	2739.414	2.248		
847053	MW3B	QUAT	MW3B-GW-41.45-01-011320	1/13/20	VAP	483	NA	152	NA	194	NA	5.69	NA	14.1	NA	18.5	NA	-2.08	0.96	UI	1.569	844.767	845.933	843.933	1938.059	1.583		
847053	MW3B	QUAT	MW3B-GW-51.55-01-011320	1/13/20	VAP	561	NA	186	NA	113	NA	4.94	NA	11.8	NA	15.1	NA	-2.08	0.87	UI	1.569	844.767	845.933	843.933	1938.059	1.583		
847053	MW3B	QUAT	MW3B-GW-75.79-01-011420	1/14/20	VAP	589	NA	362	NA	798	NA	23.9	NA	39.2	NA	77.9	NA	-29.0	2.11	UI	4.143	1789.810						

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Chemical Name										PFOS				PFDA				PFBA				PFBS				PFHxS				PFNA				PFPO-DA				PFNA				Hazard Index		Developmental HRI		Liver System HRI		Immune System HRI		Cancer HRI		Thyroid HRI	
CAS Number										45286-90-6				335-67-1				375-22-4				45187-15-3				108427-53-8				307-24-4				13525-13-6				375-95-1															
MDH HBV (ng/L)										2.3				0.24				NS				NS				NS				NS				NS				NS															
EPA MCL (ng/L)										300				35				7000				100				47				200				NS				NS															
LUI										4		4		4		4		4		4		10		10		10		10		10		10		10		10		10		10		10		10									
Location	Assef	Sample ID	Sample Date	Other Type	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier															
847059	MW6B	OPDC	MW6B-GW-140-150-01-042122	4/21/22	Well	1.42	K	2.2	NA	37.3	NA	0.446	JK	0.659	J	2.82	NA	1.7	NA	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ														
847059	MW6B	OPDC	MW6B-GW-140-150-01-050824	5/8/24	Well	3.45	K	2.2	NA	37.3	NA	0.446	JK	0.659	J	2.82	NA	1.7	NA	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ	<0.57	UJ												
847059	MW6B	OPDC	MW6B-GW-140-150-01-060220	6/2/20	Well	<0.18	UJ	4.64	NA	75.4	NA	<0.18	UJ	<0.18	UJ	3.48	NA	<0.11	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ	<0.18	UJ												

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

LUI	Location	Aquifer	Sample ID	Sample Date	Other Type	Chemical Name																Additive Health Impact Calculations				
						CAS Number	PFOS	PFDA	PFBA		PFBS		PFHxS		PFNA		PFDOA		PFNA		Hazard Index	Developmental HRI	Liver System HRI	Immune System HRI	Cancer HRI	Thyroid HRI
							45298-90-6	335-67-1	375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6		375-95-1							
						MDH HBV (ng/L)	2.3	0.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
EPA MCL (ng/L)	300	35	7000	100	47	200	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
Result	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result	Result	Result	Result	Result	Result	Result				
867655	MW8B	OPDC	MW8B-GW-50-60-01-102423	10/27/23	Well	117	NA	524	NA	5.2	NA	1.9	NA	1.1	NA	1.8	0.828	J	0.528	J	1.781	15589.898	1.297			
867655	MW8B	OPDC	MW8B-GW-50-60-01-102722	10/27/22	Well	137	NA	77.5	NA	523	NA	4.96	NA	8.88	NA	14.3	NA	-6.10	0.749	J	0.965	382.553	383.445	382.482	1.084	
867655	MW8B	OPDC	MW8B-GW-50-60-02-012523 (DUP)	1/25/23	Well	116	NA	76.7	NA	640	NA	4.76	NA	8.32	NA	14	NA	-6.88	0.775	J	0.912	370.088	370.942	370.018	1.041	
867655	MW8B	OPDC	MW8B-GW-50-60-02-012825	1/28/2025	Well	16.3	NA	89.7	NA	542	NA	4.16	NA	8.73	NA	16.8	NA	-6.20	0.865	J	0.962	380.821	381.787	380.837	1.076	
867655	MW8B	OPDC	MW8B-GW-50-60-02-012825	1/28/2025	Well	16.2	NA	89.7	NA	542	NA	4.16	NA	8.73	NA	16.8	NA	-6.20	0.865	J	0.961	444.209	445.135	444.185	1.064	
867655	MW8B	OPDC	MW8B-GW-50-60-02-012924	1/29/24	Well	95.1	NA	103	NA	718	NA	6.21	NA	9.26	NA	15.3	NA	-6.26	0.841	J	0.848	374.758	375.375	374.875	1.074	
867655	MW8B	OPDC	MW8B-GW-50-60-02-017124	7/17/2024	Well	6.27	NA	49.2	NA	292	NA	3.84	NA	7.32	NA	5.47	NA	-6.25	0.644	J	0.714	195.670	196.422	195.643	0.845	
867655	MW8B	OPDC	MW8B-GW-50-60-02-017124	7/17/2024	Well	73.6	NA	61.3	NA	472	NA	2.06	NA	6.22	NA	5.47	NA	-6.84	-0.016	0.000	0.713	224.944	225.696	224.917	0.827	
867655	MW8B	OPDC	MW8B-GW-50-60-02-017823	7/18/23	Well	68.7	NA	46.8	NA	448	NA	4.93	NA	7.32	NA	9.42	NA	-6.61	-0.116	0.000	0.624	287.417	288.056	287.370	0.783	
867655	MW8B	OPDC	MW8B-GW-50-60-02-101624	10/16/24	Well	110	NA	79.3	NA	517	NA	5.34	NA	10.4	NA	11.9	NA	-6.20	0.812	J	0.994	379.607	380.661	379.547	1.027	
867655	MW8B	OPDC	MW8B-GW-50-60-02-102722 (DUP)	10/27/22	Well	143	NA	79.1	NA	511	NA	4.61	NA	9.26	NA	9.84	NA	-6.20	0.841	J	1.043	391.821	392.792	391.831	1.159	
867655	MW8B	OPDC	MW8B-GW-50-60-03-012523 (DUP)	1/25/23	Well	110	NA	71.7	NA	632	NA	4.52	NA	8.19	NA	13.7	NA	-6.95	0.899	J	0.911	346.645	347.485	346.576	1.023	
867655	MW8B	OPDC	MW8B-GW-50-60-03-012825	1/28/2025	Well	16.3	NA	88.3	NA	542	NA	4.17	NA	9.32	NA	16.8	NA	-6.20	0.787	J	1.013	375.088	376.013	375.004	1.136	
867655	MW8B	OPDC	MW8B-GW-50-60-03-012825	1/28/2025	Well	173	NA	88.3	NA	542	NA	3.01	NA	9.32	NA	16.8	NA	-6.98	0.787	J	1.012	443.218	444.143	443.134	1.124	
867655	MW8B	OPDC	MW8B-GW-50-60-03-052624	5/26/24	Well	93.3	NA	79.1	NA	479	NA	3.4	NA	7.35	NA	15.8	NA	-6.20	0.837	J	0.800	370.315	371.084	370.236	1.004	
867655	MW8B	OPDC	MW8B-GW-50-60-03-071724	7/17/2024	Well	6.36	NA	46.3	NA	475	NA	3.86	NA	7.39	NA	5.39	NA	-6.95	-0.164	0.000	0.740	225.465	226.245	225.448	0.854	
867655	MW8B	OPDC	MW8B-GW-50-60-03-071724	7/17/2024	Well	74.8	NA	79.3	NA	479	NA	3.4	NA	7.35	NA	15.8	NA	-6.20	0.837	J	0.740	225.465	226.245	225.448	0.854	
867655	MW8B	OPDC	MW8B-GW-50-60-03-071823	7/18/23	Well	70.8	NA	60.1	NA	445	NA	5.1	NA	6.53	NA	8.94	NA	-6.20	0.711	J	1.056	281.249	281.999	281.199	0.817	
848624	MW9A	OPDC	MW9A-GW-140-150-01-011821	1/18/21	Well	67	NA	45	NA	190	NA	3.9	NA	12	NA	11	NA	-1.9	-0.111	0.000	1.202	216.685	217.858	216.630	0.788	
848624	MW9A	OPDC	MW9A-GW-140-150-01-013122	1/31/22	Well	60.4	NA	42.8	NA	181	NA	3.61	NA	9.34	NA	9.74	NA	-1.40	0.265	J	1.012	204.643	205.574	204.594	0.760	
848624	MW9A	OPDC	MW9A-GW-140-150-01-013822	4/18/22	Well	59.1	NA	59.1	NA	242	NA	4.21	NA	10.7	NA	8.64	NA	-1.40	0.613	J	1.133	246.647	247.578	246.672	0.797	
848624	MW9A	OPDC	MW9A-GW-140-150-01-042921	4/29/21	Well	101	NA	59.5	NA	213	NA	4.68	NA	12.3	NA	8.33	NA	-1.40	0.5	J	1.282	291.871	293.900	291.830	0.849	
848624	MW9A	OPDC	MW9A-GW-140-150-01-071521	7/15/21	Well	63.4	NA	66.4	NA	168	NA	4.74	NA	9.23	NA	7.89	NA	-1.30	0.492	J	1.975	220.938	221.846	220.899	0.740	
848624	MW9A	OPDC	MW9A-GW-140-150-01-072420	7/24/20	Well	105	NA	42.8	NA	247	NA	4.84	NA	13.3	NA	11.3	NA	-2.87	-0.116	0.000	1.332	307.375	308.684	307.319	0.793	
848624	MW9A	OPDC	MW9A-GW-140-150-01-102320	10/23/20	Well	110	NA	65	NA	210	NA	5.3	NA	12	NA	11	NA	-14.0	0.0	0.000	1.203	318.714	319.889	318.659	0.798	
848624	MW9A	OPDC	MW9A-GW-140-150-01-112021	11/20/21	Well	62.1	NA	64.3	NA	193	NA	4.43	NA	9.72	NA	8.73	NA	-14.0	0.0	0.000	1.021	233.711	234.985	233.711	0.717	
848624	MW9A	OPDC	MW9A-GW-140-150-01-102722	10/27/22	Well	79.6	NA	51.1	NA	188	NA	3.59	NA	9.3	NA	11.8	K	-6.97	0.629	J	0.958	247.584	248.445	247.525	0.828	
848624	MW9A	OPDC	MW9A-GW-140-150-02-042921 (DUP)	4/29/21	Well	63.6	NA	54.5	NA	195	NA	4.63	NA	10.5	NA	8.16	NA	-1.50	0.155	J	1.107	254.776	255.813	254.776	0.767	
848624	MW9A	QUAT	MW9A-GW-16-20-01-062020	6/2/20	VAP	105	J	2.8	NA	177	NA	4.51	NA	3.65	NA	7.37	NA	-2.98	-0.116	0.000	1.367	117.160	117.513	117.123	0.472	
848624	MW9A	QUAT	MW9A-GW-16-20-01-062020	6/2/20	VAP	105	J	2.76	NA	173	NA	1.97	NA	3.65	NA	7.37	NA	-2.98	-0.116	0.000	1.367	117.160	117.513	117.123	0.472	
848624	MW9A	QUAT	MW9A-GW-16-20-01-062020	6/2/20	VAP	105	J	2.76	NA	173	NA	1.97	NA	3.65	NA	7.37	NA	-2.98	-0.116	0.000	1.367	117.160	117.513	117.123	0.472	
854441	MW9B	QUAT	MW9B-GW-90-100-01-013122	1/31/22	Well	129	NA	88	NA	412	NA	4.94	NA	19.2	NA	5.77	NA	-1.9	0.621	J	1.663	422.782	424.732	422.754	0.869	
854441	MW9B	QUAT	MW9B-GW-90-100-01-032923	3/29/23	Well	145	NA	123	NA	504	NA	7.3	NA	17.4	NA	7.42	NA	-6.84	0.718	J	1.845	575.581	577.382	575.543	0.948	
854441	MW9B	QUAT	MW9B-GW-90-100-01-041822	4/18/22	Well	157	NA	121	NA	504	NA	6.9	J	19.4	NA	7.98	J	-47.8	0.18	0.000	1.943	572.467	574.400	572.428	0.942	
854441	MW9B	QUAT	MW9B-GW-90-100-01-041822	4/18/22	Well	121	NA	101	NA	389	NA	6.62	NA	16	NA	6.67	NA	-6.00	0.599	J	1.663	473.475	475.098	473.442	0.942	
854441	MW9B	QUAT	MW9B-GW-90-100-01-082021	8/20/21	Well	111	NA	69.9	NA	317	NA	17.4	NA	4.53	NA	12.3	NA	-1.76	0.266	J	1.796	339.534	341.266	339.577	0.869	
854441	MW9B	QUAT	MW9B-GW-90-100-01-072021	7/20/21	Well	103	NA	59.8	NA	305	NA	6.12	NA	16	NA	5.2	NA	-14.0	0.635	J	1.667	293.975	295.599	293.940	0.811	
854441	MW9B	QUAT	MW9B-GW-90-100-01-082021	8/20/21	Well	117	NA	75.7	NA	420	NA	4.76	NA	17.2	NA	15.5	NA	-1.30	0.542	J	1.782	353.812	355.543	353.812	0.912	
854441	MW9B	QUAT	MW9B-GW-90-100-01-102722	10/27/22	Well	131	NA	92.9	NA	426	NA	7.11	NA	17.3	NA	6.52	NA	-6.4	0.642	J	1.798	452.821	454.581	452.790	0.988	
854441	MW9B	QUAT	MW9B-GW-90-100-01-102821	10/28/21	Well	125	NA	87.2	NA	358	NA	5.45	NA	17.8	NA	-14.0	0.626	J	1.845	417.714	419.512	417.681	0.942			
854441	MW9B	QUAT	MW9B-GW-90-100-01-082021 (DUP)	8/20/21	Well	114	NA	64.4	NA	325	NA	2.24	NA	15.4	NA	5.57	NA	-14.0	0.593	J	1.597	317.811	319.456	317.899	0.803	
773355	OP-2	OPDC	OP-2-GW-145-185-01-102821	11/27/21	Well	37.1	NA	1500	NA	25600	NA															

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFOA	PFBA	PFBS	PFHxS	PFNA	PFDA	PFNA	Additive Health Impact Calculations																			
CAS Number		45286-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13522-13-6	375-95-1	Developmental HRI				Immune System HRI				Cancer HRI				Thyroid HRI							
MDH HBV (ng/L)		2.3	0.24	NS	NS	NS	NS	NS	NS	>1				>1				>1				>1							
EPA MCL (ng/L)		300	35	7000	100	47	200	NS	NS	≥1				≥1				≥1				≥1							
LUL	Location	Analyzer	Sample ID	Sample Date	Other Type	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier		
867659	OW20-3	OPDC	OW20-3-GW-165-175-01102723	10/27/23	Well	1.03	K	2.01	NA	1.12	NA	0.918	J	0.169	NA	0.918	J	0.918	J	0.918	J	0.918	J	0.918	J	0.918	J	0.918	J
867659	OW20-3	OPDC	OW20-3-GW-165-175-01102723	11/17/22	Well	1.03	K	1.57	J	1.33	NA	0.918	J	0.169	NA	0.918	J	0.918	J	0.918	J	0.918	J	0.918	J	0.918	J	0.918	J
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-012424	1/24/2024	Well	4.16	K	0.818	J	1.85	NA	1.73	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-012424	1/24/2024	Well	2.49	K	0.818	J	1.85	NA	1.73	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA	2.15	NA
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-012523	1/25/23	Well	3.16	K	0.65	J	1.94	NA	2.45	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-043123	4/31/23	Well	2.15	K	0.96	J	1.59	NA	2.45	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA	2.09	NA
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-071724	7/17/24	Well	2.15	K	0.65	J	1.69	NA	2.45	NA	2.42	NA	2.42	NA	2.42	NA	2.42	NA	2.42	NA	2.42	NA	2.42	NA	2.42	NA
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-072023	7/20/23	Well	0.591	J	0.819	J	1.79	NA	1.73	NA	1.69	NA	1.69	NA	1.69	NA	1.69	NA	1.69	NA	1.69	NA	1.69	NA	1.69	NA
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-101824	10/18/24	Well	1.12	JK	0.468	J	1.88	NA	1.77	NA	1.43	J	1.43	J	1.43	J	1.43	J	1.43	J	1.43	J	1.43	J	1.43	J
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-102723	10/27/23	Well	4.87	K	0.588	J	1.63	NA	1.87	NA	2.65	NA	2.65	NA	2.65	NA	2.65	NA	2.65	NA	2.65	NA	2.65	NA	2.65	NA
867660	OW20-1	OSTP	OW20-1-GW-98-108-01-112122	11/21/22	Well	0.385	J	0.583	J	1.76	NA	1.87	NA	2.35	NA	2.35	NA	2.35	NA	2.35	NA	2.35	NA	2.35	NA	2.35	NA	2.35	NA
854556	OW5-1	CIDN	OW5-1-GW-230-240-01-043122	4/31/22	Well	9.59	NA	1.4	NA	14.9	NA	1.12	J	1.41	J	6.65	NA	6.65	NA	6.65	NA	6.65	NA	6.65	NA	6.65	NA	6.65	NA
854556	OW5-1	CIDN	OW5-1-GW-230-240-01-071522	7/15/22	Well	3.63	K	3.81	NA	34.9	NA	0.743	J	1.46	J	3.62	NA	3.62	NA	3.62	NA	3.62	NA	3.62	NA	3.62	NA	3.62	NA
854556	OW5-1	CIDN	OW5-1-GW-230-240-01-102621	10/26/21	Well	10.4	K	1.15	NA	13.9	NA	1.03	J	4.42	J	6.43	NA	6.43	NA	6.43	NA	6.43	NA	6.43	NA	6.43	NA	6.43	NA
854556	OW5-1	CIDN	OW5-1-GW-230-240-01-103122	10/31/22	Well	4.51	NA	3.24	NA	19	NA	0.627	J	0.379	J	2.87	NA	2.87	NA	2.87	NA	2.87	NA	2.87	NA	2.87	NA	2.87	NA
854556	OW5-1	CIDN	OW5-1-GW-215-225-01-043122	4/31/22	Well	5.88	K	5.24	NA	56.4	NA	1	J	1.02	J	3.93	NA	3.93	NA	3.93	NA	3.93	NA	3.93	NA	3.93	NA	3.93	NA
854556	OW5-1	CIDN	OW5-1-GW-215-225-01-102621	10/26/21	Well	5.43	K	7.52	NA	46.8	NA	0.749	J	1.01	J	3.96	NA	3.96	NA	3.96	NA	3.96	NA	3.96	NA	3.96	NA	3.96	NA
854559	OW5-3	CIDN	OW5-3-GW-215-225-01-043122	4/31/22	Well	3.43	NA	3.47	NA	29.7	NA	0.813	J	0.578	J	1.05	J	1.05	J	1.05	J	1.05	J	1.05	J	1.05	J	1.05	J
854559	OW5-3	CIDN	OW5-3-GW-215-225-01-102621	10/26/21	Well	7.68	NA	6.04	NA	46.1	NA	0.708	J	0.922	J	1.46	J	1.46	J	1.46	J	1.46	J	1.46	J	1.46	J	1.46	J
854557	OW5-1	OPDC	OW5-1-GW-200-210-01-020122	2/1/22	Well	22.1	NA	53.3	NA	944	NA	3.26	NA	4.66	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA
854557	OW5-1	OPDC	OW5-1-GW-200-210-01-043123	4/31/23	Well	20.1	NA	71	NA	1000	NA	4.26	NA	4.26	NA	22.2	NA	22.2	NA	22.2	NA	22.2	NA	22.2	NA	22.2	NA	22.2	NA
854557	OW5-1	OPDC	OW5-1-GW-200-210-01-043122	4/31/22	Well	43.7	NA	67.4	NA	1070	NA	3.48	NA	4.69	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA	21.3	NA
854557	OW5-1	OPDC	OW5-1-GW-200-210-01-072023	7/20/23	Well	27.7	K	72.1	NA	886	NA	3.76	NA	3.78	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA
854557	OW5-1	OPDC	OW5-1-GW-200-210-01-102621	10/26/21	Well	24.4	NA	53.7	NA	959	NA	3.66	NA	4.44	NA	19.7	NA	19.7	NA	19.7	NA	19.7	NA	19.7	NA	19.7	NA	19.7	NA
854557	OW5-1	OPDC	OW5-1-GW-200-210-01-103122	10/31/22	Well	29.9	NA	67.6	NA	1000	NA	3.85	NA	4.25	NA	25.3	NA	25.3	NA	25.3	NA	25.3	NA	25.3	NA	25.3	NA	25.3	NA
877390	OW7Q-1	QUAT	OW7Q-1-GW-64-74-01-020223	2/2/23	Well	47.9	NA	69.5	NA	363	NA	6.1	NA	6.1	NA	0.529	J	0.529	J	0.529	J	0.529	J	0.529	J	0.529	J	0.529	J
877390	OW7Q-1	QUAT	OW7Q-1-GW-64-74-01-043123	4/31/23	Well	38.5	NA	67.4	NA	364	NA	4.15	NA	5.3	NA	17.2	NA	17.2	NA	17.2	NA	17.2	NA	17.2	NA	17.2	NA	17.2	NA
877390	OW7Q-1	QUAT	OW7Q-1-GW-64-74-01-102722	10/27/22	Well	45.3	NA	61.7	NA	322	NA	3.63	NA	7.67	NA	10.9	NA	10.9	NA	10.9	NA	10.9	NA	10.9	NA	10.9	NA	10.9	NA
877390	OW7Q-1	QUAT	OW7Q-1-GW-64-74-02-012623 (DUP)	1/26/23	Well	39.6	NA	65.9	NA	360	NA	4.04	NA	7.43	NA	15.4	NA	15.4	NA	15.4	NA	15.4	NA	15.4	NA	15.4	NA	15.4	NA
877390	OW7Q-1	QUAT	OW7Q-1-GW-64-74-02-102722 (DUP)	10/27/22	Well	50.6	NA	73.8	NA	404	NA	3.98	NA	9.56	NA	23.3	NA	23.3	NA	23.3	NA	23.3	NA	23.3	NA	23.3	NA	23.3	NA
877390	OW7Q-1	QUAT	OW7Q-1-GW-64-74-02-012623 (DUP)	1/26/23	Well	41.4	NA	67.2	NA	360	NA	3.46	NA	7.02	NA	11.6	NA	11.6	NA	11.6	NA	11.6	NA	11.6	NA	11.6	NA	11.6	NA
877390	OW7Q-1	QUAT	OW7Q-1-GW-64-74-03-102722 (DUP)	10/27/22	Well	43.3	NA	67.1	NA	375	NA	3.6	NA	8.63	NA	13.6	NA	13.6	NA	13.6	NA	13.6	NA	13.6	NA	13.6	NA	13.6	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-012524	1/25/24	Well	10.4	K	54.4	NA	402	NA	3.19	NA	3.42	NA	23	NA	23	NA	23	NA	23	NA	23	NA	23	NA	23	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-012723	1/27/23	Well	11.9	JK	52.2	NA	428	NA	3.92	J	3.86	J	23.3	NA	23.3	NA	23.3	NA	23.3	NA	23.3	NA	23.3	NA	23.3	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-043123	4/31/23	Well	9.9	K	57	NA	497	NA	3.99	NA	3.71	NA	23.7	NA	23.7	NA	23.7	NA	23.7	NA	23.7	NA	23.7	NA	23.7	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-072024	7/18/2024	Well	17.4	J	57.1	NA	422	NA	3.42	J	4.42	J	20.8	NA	20.8	NA	20.8	NA	20.8	NA	20.8	NA	20.8	NA	20.8	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-071824	7/18/24	Well	11.5	J	57.2	NA	422	NA	3.42	J	4.42	J	20.8	NA	20.8	NA	20.8	NA	20.8	NA	20.8	NA	20.8	NA	20.8	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-072023	7/20/23	Well	11.7	K	54.3	NA	428	NA	3.65	NA	3.14	NA	24.6	NA	24.6	NA	24.6	NA	24.6	NA	24.6	NA	24.6	NA	24.6	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-101724	10/17/24	Well	12.7	NA	59.2	NA	477	NA	4.18	NA	5.66	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA	21.6	NA
877387	OW7-1	OPDC	OW7-1-GW-90-100-01-102623	10/26/23	Well	12.3	K	55.9	NA	480	NA	3.5	NA	3.68	NA	21.5	NA	21.5	NA	21.5									

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFDA	PFBA	PFBS	PFHxS	PFNA	PFPO-DA	PFNA	Additive Health Impact Calculations		Hazard Index		Developmental HRI		Liver System HRI		Immune System HRI		Cancer HRI		Thyroid HRI				
CAS Number		45286-90-6	335-67-1	375-22-4	45187-15-3	108427-53-8	307-24-4	13252-13-2	375-95-1			≥1		≥1		≥1		≥1		≥1		≥1				
MDH HBV (ng/L)		2.3	0.24	NTS	NTS	NTS	NTS	NTS	NTS			0.01		0.01		0.01		0.01		0.01		0.01				
EPA MCL (ng/L)		300	35	7000	100	47	200	NS	NS			0.01		0.01		0.01		0.01		0.01		0.01				
LUI	Location	Qualifier	Sample ID	Sample Date	Other Type	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	
854536	PZAS	QUIAT	PZAS-GW-6-16-01-071421	7/24/21	Well	1.82	NA	160	NA	1.97	NA	0.74	J	4.27	NA	-0.63	U	-0.61	U	0.076	7.60	7.83	230.380	0.156		
854536	PZAS	QUIAT	PZAS-GW-6-16-01-102622	10/26/22	Well	0.9	U	1.14	JK	44.6	NA	1.6	NA	-0.45	U	-0.56	U	-1.38	U	0.001	4.750	4.750	144.304	0.022		
854539	PZBD	QUIAT	PZBD-GW-16-21-01-011231	1/13/21	Well	680	NA	230	NA	210	NA	7.4	NA	29	NA	33	NA	-1.7	U	1.4	3.044	1254.151	1256.916	1253.986	2920.338	3.169
854539	PZBD	QUIAT	PZBD-GW-16-21-01-012123	1/23/23	Well	176	NA	41.3	NA	79.4	NA	2.91	NA	4.29	NA	-0.27	U	0.391	J	0.477	248.627	249.652	248.605	245.006	0.498	
854539	PZBD	QUIAT	PZBD-GW-16-21-01-020022	3/2/22	Well	371	DI	751	NA	162	NA	5.67	NA	18.1	NA	15.6	NA	-1.15	J	0.269	766.373	767.336	766.373	766.373	1.363	
854539	PZBD	QUIAT	PZBD-GW-16-21-01-041521	4/15/21	Well	271	NA	66.3	NA	85.7	NA	3.63	NA	6.86	NA	7.3	NA	-1.47	U	0.522	395.779	396.623	395.743	8476.656	1.953	
854539	PZBD	QUIAT	PZBD-GW-16-21-01-041823	4/18/23	Well	95.8	NA	19.9	NA	64.9	NA	2.31	NA	2.35	NA	2.74	NA	-0.57	U	0.236	124.583	124.813	124.569	2531.953	0.281	
854539	PZBD	QUIAT	PZBD-GW-16-21-01-042222	4/22/22	Well	111	NA	24.2	NA	73.9	NA	2.02	NA	3.23	NA	3.68	NA	-0.06	U	-0.17	0.324	149.113	149.428	149.094	3077.896	0.372
854539	PZBD	QUIAT	PZBD-GW-16-21-01-051324	5/13/2024	Well	3.76	J	15.9	U	65.4	U	1.71	J	1.75	J	2.47	U	-0.48	U	-0.12	0.176	67.897	68.009	67.885	2013.153	0.214
854539	PZBD	QUIAT	PZBD-GW-16-21-01-051324	5/13/2024	Well	74.7	NA	15.9	NA	65.4	U	1.71	U	1.75	U	2.47	U	-0.48	U	-0.12	0.175	98.743	98.813	2021.487	0.204	
854539	PZBD	QUIAT	PZBD-GW-16-21-01-071222	7/12/22	Well	529	BS	153	NA	199	NA	6.34	J	15.1	NA	15.6	NA	-0.53	U	-0.18	1.513	867.578	869.038	867.500	19456.604	1.680
854539	PZBD	QUIAT	PZBD-GW-16-21-01-071421	7/14/21	Well	521	NA	172	NA	159	NA	7.22	NA	18.1	NA	16.7	NA	-0.40	U	0.861	1.900	943.272	945.021	943.188	21840.705	1.988
854539	PZBD	QUIAT	PZBD-GW-16-21-01-102622	10/26/22	Well	428	NA	103	NA	147	NA	4.01	NA	11.5	NA	9.42	NA	-0.8	U	0.683	1.220	615.301	616.254	615.254	13094.290	1.258
854539	PZBD	QUIAT	PZBD-GW-16-21-01-102921	10/29/21	Well	625	NA	167	NA	193	NA	6.76	NA	21.5	NA	16	NA	-1.49	U	1.01	2.254	967.632	969.750	967.572	21241.477	2.825
854539	PZBD	QUIAT	PZBD-GW-16-21-01-111720	11/17/20	Well	510	NA	200	NA	160	NA	7.1	NA	22	NA	28	NA	-0.57	U	2.1	2.414	1055.212	1057.255	1055.972	25383.561	2.454
854539	PZBD	QUIAT	PZBD-GW-16-21-02-102921 (DUP)	10/29/21	Well	624	NA	170	NA	180	NA	8.26	NA	21.5	NA	15.3	NA	-1.49	U	1.12	2.266	979.714	981.813	979.638	21601.093	2.335
854538	PZBS	QUIAT	PZBS-GW-6-11-01-011321	1/13/21	Well	23	NA	7.2	NA	36	NA	1.3	J	6.9	U	0.9	U	-1.7	U	0.001	40.000	40.000	40.000	914.419	0.018	
854538	PZBS	QUIAT	PZBS-GW-6-11-01-020222	2/2/22	Well	20.8	NA	6.67	J	32.9	J	1.77	J	10.17	U	0.17	U	-1.17	U	0.000	36.835	36.840	36.835	847.041	0.005	
854538	PZBS	QUIAT	PZBS-GW-6-11-01-041521	4/15/21	Well	23.3	NA	11.5	NA	40.1	NA	1.77	NA	3.10	J	3.77	NA	-0.47	U	0.120	58.066	58.172	58.047	1458.762	0.161	
854538	PZBS	QUIAT	PZBS-GW-6-11-01-041823	4/18/23	Well	20	NA	8.91	NA	50.7	NA	2.09	NA	0.563	J	2.83	NA	-0.57	U	0.057	45.835	45.835	45.835	1130.480	0.099	
854538	PZBS	QUIAT	PZBS-GW-6-11-01-041922	4/19/22	Well	15.8	NA	7.64	NA	60.5	NA	1.21	J	0.688	J	2.51	NA	-0.64	U	-0.01	0.069	38.715	38.710	38.710	965.168	0.102
854538	PZBS	QUIAT	PZBS-GW-6-11-01-051324	5/13/24	Well	17.3	NA	11.8	NA	83.8	NA	1.98	J	0.24	J	5.85	NA	-10.8	U	-0.94	0.001	56.718	56.700	56.688	1495.947	0.061
854538	PZBS	QUIAT	PZBS-GW-6-11-01-071421	7/14/21	Well	20.7	NA	5.26	NA	21.3	NA	0.839	J	0.829	J	0.953	J	-1.40	U	-0.14	0.043	30.921	30.963	30.917	668.546	0.059
854538	PZBS	QUIAT	PZBS-GW-6-11-01-102622	10/26/22	Well	20.7	NA	5.14	NA	48.3	NA	2.3	NA	0.613	J	1.17	J	-0.43	U	-0.01	0.062	30.423	30.485	30.417	653.357	0.097
854538	PZBS	QUIAT	PZBS-GW-6-11-01-102921	10/29/21	Well	35.7	NA	8.15	NA	41.7	NA	1.6	NA	0.415	J	1.17	J	-0.43	U	-0.01	0.062	30.423	30.485	30.417	653.357	0.097
854538	PZBS	QUIAT	PZBS-GW-6-11-01-111720	11/17/20	Well	34	NA	14	NA	57	NA	1.4	J	0.453	U	0.92	J	-0.45	U	-0.05	0.001	1776.616	1776.626	1776.626	1776.626	0.023
854538	PZBS	QUIAT	PZBS-GW-6-11-02-111720 (DUP)	11/17/20	Well	34	NA	14	NA	58	NA	1.5	J	0.453	U	0.92	J	-0.45	U	-0.05	0.001	1731.16	1731.24	1731.16	1776.626	0.023
854541	PZCD	QUIAT	PZCD-GW-16-21-01-011821	1/18/21	Well	2.2	NA	2.5	NA	41	NA	1.4	J	0.9	U	0.99	U	-1.0	U	-0.16	0.001	11.373	11.373	11.373	316.745	0.020
854541	PZCD	QUIAT	PZCD-GW-16-21-01-020222	2/2/22	Well	2.12	NA	1.26	J	36.8	NA	1.12	J	0.547	J	0.639	J	-1.03	U	-0.02	0.055	6.175	6.232	6.175	159.779	0.074
854541	PZCD	QUIAT	PZCD-GW-16-21-01-041123	4/11/23	Well	2.71	NA	3.91	NA	29.1	NA	1.02	NA	0.553	J	1.23	NA	-1.2	U	0.056	12.859	12.958	12.859	337.893	0.029	
854541	PZCD	QUIAT	PZCD-GW-16-21-01-041823	4/18/23	Well	2.74	NA	3.23	NA	48.3	NA	1.62	NA	0.833	J	0.833	J	-0.93	U	-0.02	0.001	14.654	14.654	14.654	409.221	0.077
854541	PZCD	QUIAT	PZCD-GW-16-21-01-041922	4/19/22	Well	2.14	NA	2.11	NA	43.9	NA	1.32	J	0.504	J	0.543	J	-0.87	U	-0.17	0.051	9.725	9.779	9.722	267.70	0.073
854541	PZCD	QUIAT	PZCD-GW-16-21-01-071421	7/14/21	Well	1.9	NA	1.6	NA	26	NA	1.27	J	0.441	J	0.427	J	-1.44	U	-0.43	0.045	7.495	7.541	7.493	202.782	0.063
854541	PZCD	QUIAT	PZCD-GW-16-21-01-102622	10/26/22	Well	4.17	NA	3.3	NA	53.4	NA	1.12	J	0.527	J	1.06	J	-0.58	U	-0.16	0.053	15.868	15.748	15.488	422.068	0.077
854541	PZCD	QUIAT	PZCD-GW-16-21-01-102921	10/29/21	Well	2.13	NA	1.96	NA	34.1	NA	1.23	NA	0.485	J	0.428	J	0.049	U	0.000	0.021	7.429	7.429	7.429	203.688	0.071
854540	PZCS	QUIAT	PZCS-GW-6-11-01-011821	1/18/21	Well	5.5	NA	8.8	NA	40	NA	1.9	NA	0.908	U	0.908	U	-1.0	U	-0.16	0.001	114.648	99.068	99.068	114.648	0.077
854540	PZCS	QUIAT	PZCS-GW-6-11-01-020222	2/2/22	Well	3.65	J	8.16	J	40.5	J	1.09	J	0.80	U	0.80	U	-1.0	U	-0.00	0.000	35.587	35.593	35.587	1033.392	0.006
854540	PZCS	QUIAT	PZCS-GW-6-11-01-041521	4/15/21	Well	2.24	NA	3.26	NA	11.6	NA	1.19	J	0.385	U	0.548	J	-1.18	U	-0.18	0.001	14.560	14.559	14.559	412.953	0.016
854540	PZCS	QUIAT	PZCS-GW-6-11-01-041823	4/18/23	Well	3.84	J	6.05	J	34.6	J	1.29	J	0.41	U	0.41	U	-1.18	U	-0.18	0.001	14.560	14.559	14.559	412.953	0.016
854540	PZCS	QUIAT	PZCS-GW-6-11-01-041922	4/19/22	Well	3.36	K	30.9	NA	32.4	NA	2.47	NA	0.607	J	2.83	NA	-0.6	U	-0.15	0.062	46.947	46.947	46.947	766.302	0.005
854540	PZCS	QUIAT	PZCS-GW-6-11-01-071421	7/14/21	Well	2.88	NA	3.85	NA	28.8	NA	1.84	NA	0.459	J	1.51	J	-1.40	U	-0.17	0.047	17.301	17.344	17.344	487.721	0.076
854540																										

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

LUI	Location	Aquifer	Sample ID	Sample Date	Chemical Name											Additive Health Impact Calculations										
					PFOS		PFDA		PFBA		PFBS		PFHxS		PFNA		HFPO-DA		PFNA		Hazard Index	Developmental HRI	Liver System HRI	Immune System HRI	Cancer HRI	Thyroid HRI
					Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier						

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Table with columns: Chemical Name, CAS Number, MDH HBV (ng/L), EPA MCL (ng/L), PFOS, PFOA, PFBA, PFBS, PFHxS, PFNA, HFPO-DA, PFNA, Additive Health Impact Calculations (Hazard Index, Developmental HRI, Liver System HRI, Immune System HRI, Cancer HRI, Thyroid HRI), and results for various wells and sample types.

Attachment F-7: Groundwater Analytical Data for Key PFAS Compounds

Chemical Name		PFOS	PFOA	PFBA	PFBS	PFHxS	PFNA	PFPO-DA	PFNA															
CAS Number	45286-90-6	335-67-1	375-22-4	45187-15-3	108427-13-8	307-24-4	13252-13-6	375-95-1																
MDH HBV (ng/L)	2.3	0.24	NS	NS	NS	NS	NS	NS																
MDH HRL (ng/L)	300	35	7000	100	47	200	NS	NS																
EPA MCL (ng/L)	4	4	1000	NS	40	NS	10	10																
Location	Qualifier	Sample ID	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Result (ng/L)	Qualifier	Hazard Index	Developmental HRI	Liver System HRI	Immune System HRI	Cancer HRI	Thyroid HRI
LU1	PCZD	VAPC-GW-05-01-100220	58	NA	22	NA	81	NA	3.4	J	9.4	J	3.4	J	3.4	J	4.0	J	0.342	0.342	0.342	0.342	0.342	0.342
854541	PCZD	VAPC-GW-12-16-01-100220	1.8	J	1.7	NA	34	NA	1.7	J	1.7	J	1.7	J	1.7	J	1.7	J	0.001	7.866	7.866	7.866	279.442	0.022
854541	PCZD	VAPC-GW-12-26-01-100220	47	NA	410	NA	1400	NA	29	NA	31	NA	150	NA	4.3	J	1.2	J	3.235	1729.518	1732.068	1728.768	51904.918	4.340
854541	PCZD	VAPC-GW-03-47-01-100220	600	NA	270	NA	350	NA	11	NA	33	NA	41	NA	4.3	J	3.1	J	3.616	1386.075	1389.220	1385.870	34256.163	3.665
854527	PZED	VAFG-GW-1-5-01-100520	790	NA	72	NA	120	NA	8.4	NA	11	NA	12	NA	4.3	R	2.5	J	1.353	426.147	427.204	426.087	9152.082	1.241
854527	PZED	VAFG-GW-1-20-01-100520	740	NA	150	NA	170	NA	8.8	NA	16	NA	21	NA	4.3	J	3	J	1.904	946.844	946.739	946.739	10984.710	1.817
854527	PZED	VAFG-GW-25-29-01-100520	290	NA	600	NA	20	NA	60	NA	94	NA	94	NA	4.3	J	2.5	NA	6.530	2453.369	2458.993	2452.899	63402.981	6.764
854527	PZED	VAFG-GW-25-29-02-100520 (DUP)	900	NA	530	NA	670	NA	21	NA	60	NA	91	NA	0.31	J	5	NA	6.542	2600.993	2605.733	2599.638	67207.029	6.761
854527	PZED	OSTP VAFG-GW-36-40-01-100620	690	NA	480	NA	650	NA	21	NA	69	NA	81	NA	4.3	UJ	4.3	NA	7.341	2300.405	2306.993	2300.000	60850.283	6.768
854529	PZFD	VAPF-GW-26-30-01-100620	600	NA	110	NA	170	NA	4.3	NA	9.6	NA	9.6	NA	4.3	J	2.7	J	1.232	719.251	720.187	719.203	14002.998	1.075
854529	PZFD	VAPF-GW-36-20-02-100620 (DUP)	590	NA	110	NA	170	NA	4.3	NA	10	NA	12	NA	4.3	J	2	J	1.302	714.955	714.955	714.955	14001.682	1.129
854529	PZFD	OSTP VAPF-GW-36-39-01-100620	620	NA	99	NA	130	NA	5.9	NA	11	NA	16	NA	4.3	J	2.8	J	1.383	682.145	683.184	682.065	12613.225	1.258
854529	PZFD	OSTP VAPF-GW-66-70-01-100620	970	NA	490	NA	980	NA	23	NA	70	NA	95	NA	0.32	J	4.7	NA	7.514	2463.881	2470.546	2463.406	62112.948	7.845
854533	PZHD	QUAT VAPH-GW-20-24-01-092920	340	NA	790	NA	1400	NA	26	NA	89	NA	110	NA	0.82	J	3	J	9.295	3440.043	3448.593	3439.493	100044.737	9.910
854533	PZHD	QUAT VAPH-GW-27-30-01-092920	900	NA	480	NA	970	NA	23	NA	64	NA	75	NA	0.35	J	2.8	J	6.727	2130.810	2136.973	2130.435	60796.967	7.044
854533	PZHD	QUAT VAPH-GW-12-01-092920	300	NA	410	NA	71	NA	26	NA	43	NA	43	NA	4.3	J	6.9	NA	3.294	1771.954	1774.398	1771.739	38121.578	2.945
854535	PZID	QUAT VAPF-GW-12-16-01-093020	0.95	J	3.7	NA	27	NA	0.97	J	0.97	J	0.97	J	0.97	J	0.97	U	0.000	15.830	15.830	15.830	468.479	0.014
854535	PZID	QUAT VAPF-GW-24-28-01-093020	260	X	120	NA	850	NA	8.9	NA	11	NA	31	NA	4.3	J	5.2	X	1.624	613.198	614.265	613.043	15224.084	1.465
854535	PZID	QUAT VAPF-GW-36-39-01-093020	16	NA	16	NA	100	NA	2.5	J	1.4	J	1.4	J	4.3	J	5.2	J	0.141	73.623	73.777	73.623	2027.422	0.179
854543	PZID	QUAT VAPF-GW-21-25-01-100720	1.1	J	2	NA	83	NA	2.1	J	1.4	J	1.4	J	4.3	J	4.3	J	0.141	8.812	8.963	8.812	253.309	0.173
854543	PZID	QUAT VAPF-GW-28-32-01-100720	0.5	J	2.1	NA	150	NA	2.4	J	2.2	J	2.2	J	4.3	J	4.3	J	0.221	8.967	9.209	8.967	265.889	0.205
854543	PZID	QUAT VAPF-GW-60-62-01-100720	1.5	J	4.2	NA	180	NA	2.5	J	2.5	J	2.5	J	4.3	J	4.3	J	0.001	18.152	18.178	18.152	531.843	0.051
854543	PZID	OSTP VAPF-GW-70-74-01-100720	190	NA	250	NA	760	NA	15	NA	36	NA	42	NA	4.3	J	1.1	J	3.718	1124.485	1127.984	1124.275	31670.570	4.069
152101	V	QUAT V-GW-63-71-01-042324	123	J	6990	NA	108000	NA	65.3	J	1110	NA	129	NA	4.3	J	4.3	J	6.530	29184.028	29200.437	29178.478	884826.311	27.509
506275	V	QUAT V-GW-63-71-01-042324	78.4	J	6180	NA	40600	D1	22.6	NA	65.3	NA	65.3	NA	4.3	J	4.3	J	6.541	25785.198	25794.243	25781.913	782288.139	15.841
506275	V	QUAT V-GW-71-02-010124 (DUP)	69.1	J	5930	NA	41200	D1	22.4	NA	69.5	NA	68	NA	4.3	J	4.3	J	6.961	24741.617	24751.213	24738.777	705642.603	16.300
506275	V	QUAT V-GW-63-71-03-101824 (DUP)	79.6	J	6450	NA	42000	D1	21.8	NA	68	NA	678	NA	4.3	J	4.3	J	6.811	26912.999	26922.409	26909.609	816466.170	16.408
W33	W33	GWTA W33-GW-12-15-5-01-030203	390000	NA	1350000	NA	179000	NA	11000	J	24100	J	112000	NA	4.3	U	4.3	J	3835.500	7316684.348	7319739.919	7316360.348	171937819.055	3105.571
190335	W6102	OPVL W6102-GW-93-105-01-012424	65.2	NA	101	NA	1620	NA	13.1	NA	6.84	NA	129	NA	4.3	J	4.3	J	0.691	449.826	450.097	449.826	12793.389	1.691
190335	W6102	OPVL W6102-GW-93-105-01-012523	165	NA	194	NA	1630	NA	16.9	NA	15.8	NA	139	NA	4.3	J	0.383	J	1.627	899.101	899.219	898.406	2373.850	2.677
190335	W6102	OPVL W6102-GW-93-105-01-012923	137	NA	172	NA	1630	NA	15.9	NA	13.2	NA	142	NA	4.3	J	0.429	JK	1.371	776.947	777.783	776.232	2170.178	2.425
190335	W6102	OPVL W6102-GW-93-105-01-021122	2.24	NA	90.6	NA	1570	NA	14.7	NA	6.41	NA	132	NA	4.3	J	4.3	J	0.648	379.134	379.339	379.474	11468.649	1.672
190335	W6102	OPVL W6102-GW-93-105-01-071122	16.1	NA	103	NA	1710	NA	15.4	NA	7.02	NA	142	NA	4.3	J	4.3	J	0.710	436.877	437.113	436.167	13040.093	1.810
190335	W6102	OPVL W6102-GW-93-105-01-071724	27.6	NA	88.7	NA	1730	NA	15	NA	7.74	NA	141	NA	4.3	J	4.3	J	0.782	382.288	382.504	381.583	11231.480	1.876
190335	W6102	OPVL W6102-GW-93-105-01-072023	81.3	NA	121	NA	1610	NA	12.9	NA	8.62	NA	129	NA	4.3	J	4.3	J	0.868	540.246	540.699	539.401	15327.179	1.866
190335	W6102	OPVL W6102-GW-93-105-01-011624	22.6	NA	90.8	NA	1630	NA	14.6	NA	7.69	NA	130	NA	4.3	J	4.3	J	0.776	389.809	389.161	388.159	11496.645	1.798
190335	W6102	OPVL W6102-GW-93-105-01-102822	13	NA	98.2	NA	1640	NA	17.4	NA	7	NA	144	NA	4.3	J	4.3	J	0.709	415.539	415.793	414.819	12432.090	1.828
190335	W6102	OPVL W6102-GW-93-105-01-111623	89	K	112	NA	1520	NA	11.8	J	8.69	J	133	NA	4.3	J	4.3	J	0.875	506.027	506.448	505.362	14188.926	1.869
235617	W6201	OSTP W6201-GW-109-124-01-011244	33.9	K	308	NA	4680	NA	124	NA	22.8	NA	1210	NA	4.3	J	4.3	J	2.342	1304.122	1301.021	1298.072	38991.802	10.239
235617	W6201	OSTP W6201-GW-109-124-01-012523	62	NA	219	NA	3790	NA	119	NA	16.7	NA	939	NA	1.85	J	4.3	J	1.914	944.152	941.668	939.457	27229.677	8.086
235617	W6201	OSTP W6201-GW-109-124-01-041922	6.73	J	51.8	NA	4670	NA	155	NA	17.4	NA	1300	NA	4.3	J	4.3	J	1.818	226.129	222.036	219.229	6552.111	10.457
235617	W6201	OSTP W6201-GW-109-124-01-071322	20.4	NA	349	NA	6260	NA	191	NA	29.1	NA	1890	NA	4.3	J	4.3	J	3.006	1472.486	1466.841	1463.036	44179.899	15.164
235617	W6201	OSTP W6201-GW-109-124-01-071724	30.3	NA	266	NA	4250	D1	119	NA	23.1	NA	980	D1	4.3	J	4.3	J	2.370	1126.407	1124.424	1121.507	33674.893	9.007
235617	W6201	OSTP W6201-GW-109-124-01-072023	21.4	NA	313	NA	4700	NA	132	NA	19.1	NA	1310	NA	4.3	J	4.3	J	1.976	1319.323	1316.052	1313.471	39623.069	9.751
235617	W6201	OSTP W6201-GW-109-124-01-011624	7.97	K	273	NA	4480																	

Attachment F-8

Groundwater Analytical Data for All Other Detected PFAS Compounds

Attachment F-8: Groundwater Analytical Data for All Other Detected PFAS Compounds

Large data table with columns for Compound Name, ID, and various numerical values representing analytical data.

Attachment F-8: Groundwater Analytical Data for All Other Detected PFAS Compounds

Well ID	Depth (ft)	Flow Rate (gpm)	PFAS Compound	Concentration (ng/L)	Reporting Limit (ng/L)	Method	Notes
W10001	10	1.0	PFOS	100	10	1000	
W10001	10	1.0	PFOA	100	10	1000	
W10001	10	1.0	PFNA	100	10	1000	
W10001	10	1.0	PFDA	100	10	1000	
W10001	10	1.0	PFUn	100	10	1000	
W10001	10	1.0	PFHxS	100	10	1000	
W10001	10	1.0	PFTrA	100	10	1000	
W10001	10	1.0	PFNS	100	10	1000	
W10001	10	1.0	PFOS	100	10	1000	
W10001	10	1.0	PFOA	100	10	1000	
W10001	10	1.0	PFNA	100	10	1000	
W10001	10	1.0	PFDA	100	10	1000	
W10001	10	1.0	PFUn	100	10	1000	
W10001	10	1.0	PFHxS	100	10	1000	
W10001	10	1.0	PFTrA	100	10	1000	
W10001	10	1.0	PFNS	100	10	1000	
W10001	10	1.0	PFOS	100	10	1000	
W10001	10	1.0	PFOA	100	10	1000	
W10001	10	1.0	PFNA	100	10	1000	
W10001	10	1.0	PFDA	100	10	1000	
W10001	10	1.0	PFUn	100	10	1000	
W10001	10	1.0	PFHxS	100	10	1000	
W10001	10	1.0	PFTrA	100	10	1000	
W10001	10	1.0	PFNS	100	10	1000	

Attachment F-8: Groundwater Analytical Data for All Other Detected PFAS Compounds

Well ID	Depth (ft)	Date	Parameter	Unit	PFAS Compounds																													
					PFAS 1	PFAS 2	PFAS 3	PFAS 4	PFAS 5	PFAS 6	PFAS 7	PFAS 8	PFAS 9	PFAS 10	PFAS 11	PFAS 12	PFAS 13	PFAS 14	PFAS 15	PFAS 16	PFAS 17	PFAS 18	PFAS 19	PFAS 20	PFAS 21	PFAS 22	PFAS 23	PFAS 24	PFAS 25	PFAS 26	PFAS 27			
1001	10	10/10/2021	PFAS 1	µg/L	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0

Attachment F-8: Groundwater Analytical Data for All Other Detected PFAS Compounds

Site ID	Sample ID	Date	Depth	EPA Method	PFAS Name	Concentration (µg/L)												Detection Limit (µg/L)	MCL (µg/L)	CCL (µg/L)	Notes
						PFOA	PFNA	PFDA	PFHxS	PFOS	PFGE	PFOA	PFNA	PFDA	PFHxS	PFOS	PFGE				
...			

Attachment F-9
Groundwater Branched-Linear Analytical Results: PFOS in Groundwater and Surface Water

Attachment F-9: Groundwater Branched-Linear Analytical Results

Sample ID	PFOS-I	PFOS-II	PFOS-III	PFOS-IV	PFOS-SUM	PFOA-I	PFOA-II	PFOA-III	PFOA-IV	PFOA-SUM
3M-CLUB-GW-0-305-01-061722	1.2683	0.4711	1.3335	0.15866	3.2316	1.2879	0	0	0	1.2879
3M-TARTAN-GW-0-255-01-061722	0.19984	0.063891	0.17054	0	0.43427	1.2229	0	0	0	1.2229
EP26A-WAT-BULK-01-052522	306.54	66.272	118.16	13.311	504.29	171.52	16.531	7.1596	0	195.21
EP26A-WAT-BULK-01-061022	356.74	66.186	124.89	13.154	560.97	149.4	14.185	5.427	0	169.02
MW10A-GW-236-240-01-111721	6.198	1.9701	6.5801	1.0521	15.8	494.62	65.99	31.042	1.5834	593.23
MW10A-GW-273-283-01-120821	0.71071	0	0	0.89037	1.6011	3.6641	0.58448	0.17662	0	4.4251
MW10A-GW-273-283-01-120821	0.71071	0	0	0.89037	1.6011	3.6641	0.58448	0.17662	0	4.4251
MW10A-GW-273-283-01-120821	0.71071	0	0	0.89037	1.6011	3.6641	0.58448	0.17662	0	4.4251
MW10B-GW-116-120-01-112221	0.068156	0	0	0	0.068156	1.0747	0.29371	0	0	1.3684
MW10B-GW-116-120-02-112221	0.047884	0.037746	0.036065	0.012569	0.13426	1.2154	0.31657	0.1112	0	1.6432
MW10B-GW-130-140-01-120221	0.26115	0.067298	0.093633	0.078611	0.50069	1.8856	0.22576	0	0	2.1114
MW10B-GW-130-140-01-120221	0.26115	0.067298	0.093633	0.078611	0.50069	1.8856	0.22576	0	0	2.1114
MW10B-GW-130-140-01-120221	0.26115	0.067298	0.093633	0.078611	0.50069	1.8856	0.22576	0	0	2.1114
MW10B-GW-86-90-01-112221	0.036386	0	0	0	0.036386	0.42506	0	0	0	0.42506
MW10C-GW-10-20-01-042122	0.25109	0.16395	0.49073	0	0.90576	40.674	6.6557	4.2853	0.27781	51.892
MW13A-GW-286-290-01-060820	55.216	17.842	43.528	5.329	121.91	120.99	11.595	3.7898	0	136.37
MW13B-GW-121-125-01-061520	4.7868	3.1494	7.6735	1.3717	16.981	36.912	5.4176	1.4534	0	43.783
MW13B-GW-181-185-01-061620	0.13901	0.86556	2.5699	0.78243	4.3569	16.196	5.0165	0.77	0	21.983
MW13B-GW-221-225-01-061620	0.68796	0.8844	2.2574	0.30733	4.1371	4.8866	0.85693	0	0	5.7435
MW13B-GW-221-225-02-061620	6.9451	1.9328	4.0754	0.50903	13.462	10.268	1.2445	0.39044	0	11.903
MW13B-GW-22-24-01-061520	0.15512	0.11358	0.24897	0.71053	1.2282	90.469	9.999	5.8819	0	106.35
MW13B-GW-46-50-01-061520	1.8952	2.8389	7.1716	1.1431	13.049	52.306	5.7256	3.4918	0	61.523
MW13B-GW-91-95-01-061520	0.98166	1.532	4.7829	1.8083	9.1049	49.005	8.1427	5.4522	0	62.6
MW13B-GW-91-95-02-061520	0.92433	1.5555	5.1574	1.9836	9.6208	47.83	7.3744	4.3198	0	59.525
MW14A-GW-316-326-01-041822	197.47	41.311	80.761	10.889	330.43	198.17	20.223	9.4526	0.4257	228.27
MW14B-GW-60-70-01-041822	2723.1	430.16	781.95	52.288	3987.5	356.95	34.361	14.003	0.41366	405.73
MW14C-GW-16-36-01-041822	1492.9	221.83	376.96	38.159	2129.8	416.26	52.166	21.555	0.73055	490.72
MW14D-GW-6-21-01-041822	529.29	112.72	203.82	24.122	869.95	354.62	47.148	20.394	0.69236	422.85
MW17A-GW-230-240-01-042522	3.0699	1.733	4.6637	0	9.4666	332.19	44.54	26.218	1.082	404.03
MW17B-GW-90-100-01-042522	6.3297	1.8609	6.5456	0	14.736	185.29	22.468	13.401	0.44272	221.6
MW18B-GW-116-120-01-112222	1.1125	0.35485	0.94798	0.13754	2.5529	11.607	1.5255	0.65641	0	13.789
MW18B-GW-176-180-01-011322	10.73	2.3243	4.9606	0.6966	18.712	14.768	1.8543	0.84766	0.11823	17.588
MW18B-GW-225-235-01-013122	4.3154	1.2414	4.2153	0.75142	10.523	14.077	1.7775	0.89411	0	16.748
MW1B-GW-100-120-01-041822	25.108	12.532	27.64	6.5812	71.861	352.44	53.337	26.513	2.493	434.78
MW1C-GW-40-45-01-041822	121.45	46.59	91.989	11.767	271.79	254.59	27.504	13.264	0.53086	295.89
MW21A-GW-156-160-01-061522	0.080287	0	0.044226	0	0.12451	0	0	0	0	0
MW21A-GW-20-26-01-061422	10.583	1.411	3.0324	0.16062	15.187	13.203	3.5646	0	0	16.767
MW21A-GW-286-290-01-061622	380.2072	83.8635	155.3788	18.6506	638.1001	382.0384	37.0257	16.9938	0	436.0579
MW21A-GW-410-420-01-071422	135.63	27.284	51.05	5.0834	219.05	122.62	12.493	6.0945	0	141.2
MW21A-GW-76-80-01-061422	0.49767	0.27874	0.46887	0.091964	1.3372	9.5277	0.89618	0.61611	0	11.04
MW21A-GW-96-100-01-061422	0.072689	0	0.027901	0	0.10059	0.64764	0	0	0	0.64764
MW22A-GW-326-330-01-053122	290.41	66.558	125.86	11.917	494.75	309.08	33.018	13.616	0	355.72
MW22A-GW-386-390-01-060122	372.34	69.098	129.76	12.305	583.5	268.32	26.482	11.921	0.4493	307.17
MW22A-GW-429-439-01-071422	438.46	82.82	165.11	16.29	702.68	340.67	32.585	15.192	0	388.45
MW22B-GW-216-220-01-060722	318.73	95.934	188.45	20.256	623.37	473.55	50.936	23.437	0	547.93
MW22B-GW-290-390-01-071422	142.59	31.714	67.795	22.602	264.7	224.36	23.948	10.812	0	259.12
MW22B-GW-68-70-01-060622	0.13178	0.040183	0.14859	0.023506	0.34406	3.8163	0.67743	0.27548	0	4.7692
MW22B-GW-96-100-01-060622	0.11601	0.025005	0.094644	0.025731	0.26139	9.0175	1.8084	0.77582	0	11.602
MW22B-GW-96-100-02-060622	0.054196	0	0	0.023602	0.077798	9.1899	1.6858	0.76594	0	11.642
MW22B-GW-96-100-03-060622	0.12554	0.057097	0	0.050637	0.23327	8.9872	1.7421	0.65053	0	11.38
MW22C-GW-160-170-01-072522	84.516	18.265	37.813	5.745	146.34	99.702	10.392	5.5954	0	115.69
MW26A-GW-380-390-01-081022	16.221	1.5917	12.17	13.42	43.403	22.143	2.2567	0	0	24.4
MW26B-GW-249-259-01-080822	17.544	4.2244	6.5235	1.5192	29.811	17.935	2.073	0.75839	0	20.766
MW26B-GW-31-35-01-072122	0.094752	0	0.1069	0	0.20165	4.7107	0.9966	0.54809	0	6.2554
MW26B-GW-31-35-02-072122	0.14012	0	0.055183	0	0.1953	4.912	1.3633	1.0018	0	7.2771
MW26C-GW-130-140-01-080822	0.26346	0.71921	0.93374	0.25043	2.1668	21.399	5.6405	2.894	0	29.933
MW27A-GW-221-222-01-071122	263.89	52.089	92.802	9.614	418.39	138.16	13.023	6.4108	0.36051	157.96
MW27A-GW-221-222-01-071822	337.26	57.785	104.79	8.6607	508.5	137.03	13.485	6.0525	0	156.57
MW27B-GW-120-130-01-071422	0.47383	0	0	0.06464	0.53847	0	0	0	0	0
MW2A-GW-11-12-01-062220	317.92	77.963	172.08	36.277	604.23	612.62	76.623	37.176	1.3239	727.74
MW2A-GW-116-120-01-062320	121.73	19.247	33.864	3.0151	177.86	62.805	5.8775	3.6009	0.17034	72.454
MW2A-GW-136-140-01-062320	281.7	50.926	96.308	9.34	438.27	113.11	9.7381	5.4441	0.24212	128.53
MW2A-GW-206-210-01-062320	0.38552	0	0.2155	0.024913	0.62593	6.8081	0.80138	0.49887	0.076952	8.1853
MW2A-GW-240-263-02-072420	2.8615	0.5643	0.90385	0.13752	4.4672	27.051	3.5613	2.3977	0	33.01
MW2A-GW-36-40-01-062220	445.55	97.75	162.24	12.361	717.9	93.658	5.4514	3.0071	0.1194	102.24
MW2A-GW-36-40-02-062220	442.62	92.98	152.54	13.544	701.69	101.5	5.6676	3.2566	0.11955	110.55
MW2A-GW-66-70-01-062220	416.6	66.788	127.39	14.765	625.54	192.07	24.751	12.602	0.50485	229.93
MW2A-GW-86-90-01-062220	344.59	54.948	99.116	10.082	508.74	103.76	10.521	5.6347	0.23941	120.16
MW2D-GW-7-17-01-041822	418.32	50.473	85.872	7.9756	562.64	244.28	28.091	13.943	0.49379	286.81

Attachment F-9: Groundwater Branched-Linear Analytical Results

Sample ID	PFOS-I	PFOS-II	PFOS-III	PFOS-IV	PFOS-SUM	PFOA-I	PFOA-II	PFOA-III	PFOA-IV	PFOA-SUM
MW2E-GW-90-100-01-041822	400.58	79.223	146.65	0	626.45	213.79	18.01	7.9941	0.24933	240.04
MW3A-GW-230-250-01-060320	29.381	7.6662	14.156	1.5792	52.782	51.265	5.1723	2.5411	0	58.978
MW3B-GW-110-130-01-060320	360.42	86.923	189.68	24.083	661.1	520.28	54.323	23.574	0	598.18
MW3B-GW-16.5-19-01-011320	0	0	0.23788	0.22136	0.45925	0.56838	0.74475	0.64011	0	1.9532
MW3B-GW-31-35-01-011320	155.41	35.155	79.8	8.1693	278.54	189.57	16.901	9.7224	0	216.2
MW3B-GW-31-35-02-011320	166.35	33.306	78.683	9.7534	288.1	192.56	17.643	9.1673	0	219.37
MW3B-GW-41-45-01-011320	312.01	60.535	101.66	8.6433	482.85	134.1	11.113	7.104	0	152.32
MW3B-GW-51-55-01-011320	365.56	65.008	119.85	10.399	560.82	121.1	10.238	5.0565	0	136.4
MW3B-GW-75-79-01-011420	355.46	69.575	150.46	13.783	589.28	317.99	31.782	18.133	0	367.9
MW3B-GW-HYDRA-110-130-01-060320	382.53	86.938	202.98	19.966	692.42	550.93	56.51	25.801	0	633.24
MW3B-GW-HYDRA-110-130-01-061020	383.98	93.507	192.99	19.283	689.76	549.51	59.897	24.997	0	634.4
MW4A-GW-140-160-01-060220	72.836	16.776	35.878	3.9021	129.39	79.127	7.0897	1.7951	0	88.012
MW5A-GW-210-220-01-060320	2.0077	0.63843	1.4379	1.1137	5.1977	8.0322	0.95433	0.44166	0	9.4282
MW5A-GW-HYDRA-210-220-01-060320	1.8108	0.65979	1.4021	1.0064	4.8791	7.2624	7.2624	7.2624	0	8.5929
MW5B-GW-110-120-01-060320	144.91	32.913	71.987	5.4983	255.31	101.21	8.6133	1.9062	0	111.73
MW5B-GW-31-35-01-120919	0.33582	0.65836	0.93961	0	1.9338	3.7492	0	0	0	3.7492
MW5B-GW-51-55-01-120919	0.57601	0.8391	0.8391	2.1779	0	3.593	5.7854	0.39422	0	6.1796
MW5B-GW-51-55-02-120919	0.69607	1.0457	2.0954	0.24922	4.0864	5.6225	0.34545	0	0	5.968
MW5B-GW-55-58-01-121019	1.2854	1.0738	2.2966	0.35776	5.0135	5.2113	0	0	0	5.2113
MW5B-GW-HYDRA-110-120-01-060320	60.977	19.767	42.186	4.4354	127.37	81.671	7.1889	1.2477	0	90.107
MW6A-GW-185-192-01-060220	0.51636	0.3008	1.0575	0.4303	2.305	13.496	2.0827	1.0569	0	16.636
MW6B-GW-106-110-01-112019	16.379	5.7368	12.689	1.0294	35.834	23.305	0	0	0	23.305
MW6B-GW-11-13-01-111919	0	0	0	0	0	0	0	0	0	0
MW6B-GW-129-133-01-112019	6.2508	1.5762	4.0616	0.53559	12.424	7.2521	0.78395	0.48406	0	8.5201
MW6B-GW-136-140-01-112119	4.998	1.4819	3.8753	0.21318	10.568	5.8557	0.65433	0.31971	0	6.8298
MW6B-GW-140-150-01-060220	0.13476	0.15414	0.47771	0	0.76661	3.8295	0.59727	0.21513	0	4.6419
MW6B-GW-140-150-02-060220	0.13877	0.18192	0.55506	0.067742	0.94349	3.7156	0.51153	0	0	4.2272
MW6B-GW-36-40-01-111919	79.802	16.645	35.294	5.1106	136.85	62.359	6.0783	3.9082	0	72.345
MW6B-GW-36-40-02-111919	85.132	18.037	37.125	5.7054	146	62.708	6.0404	3.9301	0	72.679
MW6B-GW-81-85-01-111919	80.929	17.446	32.354	4.7114	135.44	56.507	5.1193	3.3775	0	65.003
MW7A-GW-12-16-01-052620	59.372	11.607	21.056	2.4504	94.486	40.683	3.6978	2.1667	0	46.547
MW7A-GW-156-160-01-052820	2.5139	0.81922	4.233	1.0839	8.65	28.983	3.5903	2.6811	0	35.254
MW7A-GW-200-210-01-041922	1.5263	0.89564	4.5238	2.639	9.5847	11.377	1.3497	0.75149	0	13.478
MW7A-GW-200-210-01-060420	0.88209	1.0868	2.5445	0.36815	4.8816	8.7511	0.88448	0.48794	0	10.124
MW7A-GW-26-30-01-052620	39.653	11.98	24.177	2.7199	78.53	40.193	4.1439	1.8958	0	46.233
MW7A-GW-46-50-01-052620	28.862	6.1314	21.406	2.7128	59.112	55.383	5.1181	3.2483	0	63.75
MW7A-GW-46-50-02-052620	27.43	6.207	20.66	2.9534	57.251	52.999	5.0697	2.7868	0	60.855
MW7A-GW-73-77-01-052620	0.89276	0.29755	3.0669	0.67258	4.9298	25.512	2.7688	2.5768	0	30.858
MW7A-GW-86-90-01-052720	2.602	1.1842	5.8357	1.7898	11.412	46.786	5.2396	4.1707	0	56.196
MW8A-GW-166-170-01-081622	91.806	14.291	27.686	2.901	136.68	51.874	4.8559	2.2057	0	58.935
MW8A-GW-202-212-01-090722	80.483	19.083	38.775	4.1726	142.51	52.705	5.0556	0.61015	0	58.371
MW8B-GW-50-60-01-090722	62.211	14.931	31.589	3.1112	111.84	67.7	6.5912	3.551	0	77.842
MW9A-GW-140-150-01-041822	47.743	11.621	27.733	5.7322	92.83	53.064	4.5392	1.4997	0.14122	59.245
MW9A-GW-16-20-01-060220	0.075446	0.13068	0.51884	0.26109	0.98606	23.184	2.988	1.8173	0	27.989
MW9A-GW-6-10-01-060220	0.14588	0.05136	0.19784	0.065	0.46008	2.4839	0.27124	0	0	2.7552
MW9A-GW-96-100-01-060220	59.663	14.701	27.448	3.3489	105.16	52.762	4.1571	0.59036	0	57.51
MW9B-GW-90-100-01-041822	79.91	21.261	47.171	8.8026	157.14	111.63	9.0228	1.6924	0.34979	122.7
OC1-GW-229-325-01-052522	56.957	11.323	23.098	2.8477	94.227	73.272	7.2529	2.9251	0	83.45
OP-Z-GW-145-185-01-110221	10.545	5.5779	16.326	4.6265	37.075	1237.6	177.26	80.265	3.8876	1499.1
OW20J1-GW-146-150-01-100521	0.4016	0	0	0	0.4016	1.1693	0	0	0	1.1693
OW20J1-GW-146-150-02-100521	0	0	0	0	0	1.6669	0	0	0	1.6669
OW20J1-GW-310-320-01-013122	31.653	10.278	21.263	2.6174	65.811	62.761	6.2402	2.839	0	71.84
OW20J1-GW-310-320-01-042522	28.635	9.3335	19.229	3.2772	60.475	77.526	8.5667	4.5076	0	90.6
OW20J1-GW-310-320-01-120221	24.782	8.2524	16.788	2.6836	52.507	64.41	7.8328	2.5376	0.12016	74.901
OW20J1-GW-310-320-01-120221	24.782	8.2524	16.788	2.6836	52.507	64.41	7.8328	2.5376	0.12016	74.901
OW20J1-GW-310-320-01-120221	24.782	8.2524	16.788	2.6836	52.507	64.41	7.8328	2.5376	0.12016	74.901
OW20J1-GW-86-90-01-100421	0	0	0	0	0	0	0	0	0	0
OW20J2-GW-310-320-01-013122	23.715	7.2323	18.292	2.0615	51.3	71.498	7.9805	4.2646	0.16127	83.905
OW20J3-GW-280-290-01-013122	2.5288	0.77761	3.5978	1.5555	8.4596	19.918	2.3109	1.0916	0	23.32
OW20J3-GW-280-290-01-120221	2.4709	1.0084	2.4563	1.2238	7.1593	20.032	2.7485	0.70091	0	23.481
OW20S1-GW-190-200-01-013122	0.6306	0.23757	0.54337	0.38469	1.7962	1.3568	0.13753	0	0	1.4943
OW20S1-GW-190-200-01-042522	2.1016	0	0	0	2.1016	2.279	0	0	0	2.279
OW20S1-GW-190-200-01-120221	0.41849	0.076764	0	0.036801	0.53206	1.1107	0	0	0	1.1107
OW20S1-GW-190-200-01-120221	0.41849	0.076764	0	0.036801	0.53206	1.1107	0	0	0	1.1107
OW20S1-GW-190-200-01-120221	0.41849	0.076764	0	0.036801	0.53206	1.1107	0	0	0	1.1107
OW7Q1-GW-64-74-01-102722	17.819	5.8475	18.843	2.7631	45.272	57.752	5.4801	3.9011	0	67.133
OW7Q1-GW-64-74-02-102722	20.665	5.9379	20.584	3.3646	50.551	63.221	6.209	4.1613	0.21941	73.811
OW7Q1-GW-64-74-03-102722	17.323	5.3086	17.812	2.8519	43.295	57.023	5.5246	4.3868	0.16254	67.097
OW7S1-GW-90-100-01-102722	2.289	1.0371	5.0614	0	8.3875	43.954	5.1353	4.6756	0.25118	54.016

Attachment F-9: Groundwater Branched-Linear Analytical Results

Sample ID	PFOS-I	PFOS-II	PFOS-III	PFOS-IV	PFOS-SUM	PFOA-I	PFOA-II	PFOA-III	PFOA-IV	PFOA-SUM
PL41-GW-72-82-01-041922	10.106	2.9578	5.1781	1.2942	19.536	77.519	11.178	6.126	0.25343	95.077
PW20J-1-GW-308-358-01-120221	21.432	6.4277	14.677	2.4174	44.954	54.154	6.5231	1.7594	0.12043	62.557
PW20J-1-GW-308-358-01-120221	21.432	6.4277	14.677	2.4174	44.954	54.154	6.5231	1.7594	0.12043	62.557
PW20J-1-GW-308-358-01-120221	21.432	6.4277	14.677	2.4174	44.954	54.154	6.5231	1.7594	0.12043	62.557
PW75-1-GW-100-150-01-102722	5.9923	2.2596	8.7612	0	17.013	55.327	6.7351	4.932	0.20044	67.195
PZAD-GW-21-26-01-041922	0.59454	1.4924	3.4355	0.30551	5.8279	5.0169	0	0	0	5.0169
PZAS-GW-6-16-01-041922	0.10531	0.014243	0.049585	0	0.16914	0.52516	1.7212	0.94327	0	3.1896
PZGD-GW-35-40-01-041922	1.5218	1.2519	4.5846	1.5939	8.9522	7.2062	1.9025	1.2491	0	10.358
PZGS-GW-20-30-01041922	0.49252	0.06342	0.18652	0	0.74246	10.831	2.5432	1.9087	0	15.283
PZHD-GW-21-26-01-041922	216.79	92.082	195.3	21.53	525.7	442.24	56.642	32.046	0.84723	531.77
PZHS-GW-6-16-01-041922	63.406	30.694	72.64	10.152	176.89	124.64	14.525	7.4961	0	146.66
PZID-GW-22-27-01-041922	1.7138	0.27809	0.86769	0.1722	3.0318	2.0787	0	0	0	2.0787
PZIS-GW-7-17-01-041922	0.058647	0.201	0.85936	0.24634	1.3654	6.5287	0.62326	0.2133	0	7.3652
R1-GW-75-90-01-033023	91.423	33.497	74.514	0	199.43	5854.6	672.75	625.07	0	7152.4
SP42-GW-116-126-01-041922	85.694	20.597	48.245	4.7718	159.31	14.057	0	0	0	14.057
W33-GW-12-15.5-01-033023	2501400	486800	808410	89278	3885900	1181700	108580	54933	0	1345200
W6102-GW-93-105-01-041922	0.83696	0.33483	0.75745	0.31035	2.2396	75.423	9.5006	5.3841	0.26931	90.577
W6201-GW-109-124-01-041922	6.1862	0.94401	1.3036	0.29331	8.7272	33.749	12.349	5.6911	0	51.788
WCLE-GW-0-93-01-110121	19.426	10.01	27.138	6.0336	62.607	3054	380.89	197.62	7.9172	3640.5

Attachment F-10

Soil Analytical Data for Key PFAS Compounds

Attachment F-10: Soil Analytical Data for Key PFAS Compounds

Chemical Name		PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA		
CAS Number		45298-90-6		335-67-1		375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6		
Location ID	Sample ID	Sample Date	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier
MW12A	MW12A-SOIL-38-39.75-01-101220	10/12/2020	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	0.061	J
MW12A	MW12A-SOIL-48.5-49.5-01-101220	10/12/2020	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
MW13B	MW13B-SOIL-11-14-01-061520	6/15/2020	< 0.0784	UJ	0.096	J-	< 0.314	UJ	< 0.0784	UJ	< 0.0784	UJ	< 0.0784	UJ	< 0.298	UJ
MW13B	MW13B-SOIL-20-22-01-061520	6/15/2020	< 0.0783	UJ	< 0.0783	UJ	< 0.313	UJ	< 0.0783	UJ	< 0.0783	UJ	< 0.0783	UJ	< 0.298	UJ
MW13B	MW13B-SOIL-22-24-01-061520	6/15/2020	< 0.0772	UJ	< 0.0772	UJ	< 0.309	UJ	< 0.0772	UJ	< 0.0772	UJ	< 0.0772	UJ	< 0.293	UJ
MW13B	MW13B-SOIL-COMP-46-50-01-061520	6/15/2020	< 0.0761	UJ	< 0.0761	UJ	< 0.304	UJ	< 0.0761	UJ	< 0.0761	UJ	< 0.0761	UJ	< 0.289	UJ
MW13B	MW13B-SOIL-COMP-91-95-01-061520	6/15/2020	< 0.0775	UJ	< 0.0775	UJ	< 0.31	UJ	< 0.0775	UJ	< 0.0775	UJ	< 0.0775	UJ	< 0.294	UJ
MW13B	MW13B-SOIL-COMP-91-95-02-061520	6/15/2020	< 0.0789	UJ	< 0.0789	UJ	< 0.316	UJ	< 0.0789	UJ	< 0.0789	UJ	< 0.0789	UJ	< 0.3	UJ
MW13B	MW13B-SOIL-COMP-121-125-01-061520	6/15/2020	< 0.0749	UJ	< 0.0749	UJ	< 0.3	UJ	< 0.0749	UJ	< 0.0749	UJ	< 0.0749	UJ	< 0.285	UJ
MW13B	MW13B-SOIL-COMP-181-185-01-061620	6/16/2020	< 0.0752	UJ	< 0.0752	UJ	< 0.301	UJ	< 0.0752	UJ	< 0.0752	UJ	< 0.0752	UJ	< 0.286	UJ
MW13B	MW13B-SOIL-COMP-221-225-01-061620	6/16/2020	< 0.075	UJ	< 0.075	UJ	< 0.3	UJ	< 0.075	UJ	< 0.075	UJ	< 0.075	UJ	< 0.285	UJ
MW13B	MW13B-SOIL-COMP-221-225-02-061620	6/16/2020	< 0.0762	UJ	< 0.0762	UJ	< 0.305	UJ	< 0.0762	UJ	< 0.0762	UJ	< 0.0762	UJ	< 0.289	UJ
MW13B	MW13B-SOIL-COMP-266-270-01-061620	6/16/2020	< 0.0792	UJ	< 0.0792	UJ	< 0.317	UJ	< 0.0792	UJ	< 0.0792	UJ	< 0.0792	UJ	< 0.301	UJ
MW14B	MW14B-SOIL-COMP-10-30-01-121520	12/15/2020	3.9	NA	0.27	NA	< 1.2	U	< 1.2	U	< 1.2	U	< 1.2	U	< 1.2	U
MW14B	MW14B-SOIL-COMP-30-37-01-121520	12/15/2020	6.2	NA	0.17	NA	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
MW14B	MW14B-SOIL-COMP-30-37-02-121520	12/15/2020	3.1	NA	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U
MW14C	MW14C-SOIL-COMP-9-15-01-041921	4/19/2021	4.59	NA	0.37	NA	0.173	J	< 0.038	U	< 0.038	U	0.053	J	< 0.144	U
MW14C	MW14C-SOIL-COMP-15-20-01-041921	4/19/2021	2.68	NA	0.067	J	< 0.152	U	< 0.0379	U	< 0.0379	U	< 0.0379	U	< 0.144	U
MW17B	MW17B-SOIL-COMP-10-17-01-021821	2/18/2021	< 0.0367	UJ	< 0.0367	UJ	< 0.147	UJ	< 0.0367	UJ	< 0.0367	UJ	< 0.0367	UJ	< 0.14	UJ
MW17B	MW17B-SOIL-COMP-6-10-01-021821	2/18/2021	< 0.0403	UJ	< 0.0403	UJ	< 0.161	UJ	< 0.0403	UJ	< 0.0403	UJ	< 0.0403	UJ	< 0.153	UJ
MW1B	MW1B-SOIL-COMP-12-15-01-113020	11/30/2020	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
MW1B	MW1B-SOIL-25-27-01-113020	11/30/2020	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
MW21A	MW21A-SED-COMP-76-80-01-061422	6/14/2022	< 0.157	UJ	< 0.157	UJ	< 0.627	UJ	< 0.157	UJ	< 0.157	UJ	< 0.157	UJ	< 0.627	UJ
MW22B	MW22B-SED-68-70-01-060622	6/6/2022	< 0.16	UJ	< 0.16	UJ	< 0.638	UJ	< 0.16	UJ	< 0.16	UJ	< 0.16	UJ	< 0.638	UJ
MW2A	MW2A-SOIL-8-10-01-062220	6/22/2020	1.44	J-	0.25	J-	< 0.299	UJ	< 0.0748	UJ	< 0.0748	UJ	< 0.0748	UJ	< 0.284	UJ
MW2A	MW2A-SOIL-11-12-01-062220	6/22/2020	0.754	J-	0.087	J-	< 0.319	UJ	< 0.0797	UJ	< 0.0797	UJ	< 0.0797	UJ	< 0.303	UJ
MW2A	MW2A-SOIL-COMP-36-40-01-062220	6/22/2020	0.244	J-	< 0.0773	UJ	< 0.309	UJ	< 0.0773	UJ	< 0.0773	UJ	< 0.0773	UJ	< 0.294	UJ
MW3B	MW3B-SOIL-15-16.5-01-011320	1/13/2020	< 0.0737	U	< 0.0737	U	< 0.295	U	< 0.0737	U	< 0.0737	U	< 0.0737	U	< 0.295	U
MW3B	MW3B-SOIL-16.5-19-01-011320	1/13/2020	< 0.0728	U	< 0.0728	U	< 0.291	U	< 0.0728	U	< 0.0728	U	< 0.0728	U	< 0.291	U
MW3B	MW3B-SOIL-31-35-01-011320	1/13/2020	< 0.0781	U	< 0.0781	U	< 0.313	U	< 0.0781	U	< 0.0781	U	< 0.0781	U	< 0.313	U
MW3B	MW3B-SOIL-31-35-02-011320	1/13/2020	< 0.0773	U	< 0.0773	U	< 0.309	U	< 0.0773	U	< 0.0773	U	< 0.0773	U	< 0.309	U
MW3B	MW3B-SOIL-41-42-01-011320	1/13/2020	0.092	J	< 0.0753	U	< 0.301	U	< 0.0753	U	< 0.0753	U	< 0.0753	U	< 0.301	U
MW3B	MW3B-SOIL-44-45-01-011320	1/13/2020	0.099	J	< 0.0798	U	< 0.319	U	< 0.0798	U	< 0.0798	U	< 0.0798	U	< 0.319	U
MW3B	MW3B-SOIL-51-53-01-011320	1/13/2020	0.099	J	< 0.0761	U	< 0.304	U	< 0.0761	U	< 0.0761	U	< 0.0761	U	< 0.304	U
MW3B	MW3B-SOIL-53-55-01-011320	1/13/2020	0.086	J	< 0.0796	U	< 0.318	U	< 0.0796	U	< 0.0796	U	< 0.0796	U	< 0.318	U
MW3B	MW3B-SOIL-74-75-01-011420	1/14/2020	0.184	NA	0.114	J	< 0.318	U	< 0.0794	U	< 0.0794	U	< 0.0794	U	< 0.318	U
MW3B	MW3B-SOIL-75-79-01-011420	1/14/2020	< 0.0782	U	< 0.0782	U	< 0.313	U	< 0.0782	U	< 0.0782	U	< 0.0782	U	< 0.313	U
MW4A	MW4A-SOIL-8-8.5-01-121319	12/13/2019	< 0.0741	U	< 0.0741	U	< 0.296	U	< 0.0741	U	< 0.0741	U	< 0.0741	U	< 0.296	U
MW4A	MW4A-SOIL-20-21-01-121319	12/13/2019	< 0.0742	U	< 0.0742	U	< 0.297	U	< 0.0742	U	< 0.0742	U	< 0.0742	U	< 0.297	U
MW4A	MW4A-SOIL-21-23-01-121319	12/13/2019	< 0.0765	U	< 0.0765	U	< 0.306	U	< 0.0765	U	< 0.0765	U	< 0.0765	U	< 0.306	U
MW4A	MW4A-SOIL-31-32-01-121319	12/13/2019	< 0.0726	U	< 0.0726	U	< 0.29	U	< 0.0726	U	< 0.0726	U	< 0.0726	U	< 0.29	U
MW4A	MW4A-SOIL-37-38-01-121319	12/13/2019	0.201	NA	< 0.0732	U	< 0.293	U	< 0.0732	U	< 0.0732	U	< 0.0732	U	< 0.293	U
MW4A	MW4A-SOIL-38-40-01-121319	12/13/2019	< 0.0702	U	< 0.0702	U	< 0.281	U	< 0.0702	U	< 0.0702	U	< 0.0702	U	< 0.281	U
MW4A	MW4A-SOIL-50-52-01-121319	12/13/2019	< 0.0787	U	< 0.0787	U	< 0.315	U	< 0.0787	U	< 0.0787	U	< 0.0787	U	< 0.315	U
MW4A	MW4A-SOIL-60-62-01-121319	12/13/2019	< 0.0738	U	< 0.0738	U	< 0.295	U	< 0.0738	U	< 0.0738	U	< 0.0738	U	< 0.295	U
MW4A	MW4A-SOIL-68-70-01-121319	12/13/2019	0.076	J	< 0.0737	U	< 0.295	U	< 0.0737	U	< 0.0737	U	< 0.0737	U	< 0.295	U
MW4A	MW4A-SOIL-74-75-01-121319	12/13/2019	0.089	J	< 0.0734	U	< 0.294	U	< 0.0734	U	< 0.0734	U	< 0.0734	U	< 0.294	U
MW4A	MW4A-SOIL-74-75-02-121319	12/13/2019	0.093	J	< 0.0739	U	< 0.296	U	< 0.0739	U	< 0.0739	U	< 0.0739	U	< 0.296	U
MW4A	MW4A-SOIL-80-81-01-121319	12/13/2019	0.134	J	< 0.0724	U	< 0.29	U	< 0.0724	U	< 0.0724	U	< 0.0724	U	< 0.29	U
MW4A	MW4A-SOIL-85-86-01-121319	12/13/2019	0.117	J	< 0.0755	U	< 0.302	U	< 0.0755	U	< 0.0755	U	< 0.0755	U	< 0.302	U
MW4A	MW4A-SOIL-88-89-01-121319	12/13/2019	0.12	J	< 0.0723	U	< 0.289	U	< 0.0723	U	< 0.0723	U	< 0.0723	U	< 0.289	U

Attachment F-10: Soil Analytical Data for Key PFAS Compounds

Chemical Name		PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA		
CAS Number		45298-90-6		335-67-1		375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6		
Location ID	Sample ID	Sample Date	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier
MW5B	MW5B-SOIL-18-20-01-120919	12/9/2019	< 0.0733	U	< 0.0733	U	< 0.293	U	< 0.0733	U	< 0.0733	U	< 0.0733	U	< 0.293	U
MW5B	MW5B-SOIL-28-30-01-120919	12/9/2019	< 0.0725	U	< 0.0725	U	< 0.29	U	< 0.0725	U	< 0.0725	U	< 0.0725	U	< 0.29	U
MW5B	MW5B-SOIL-28-30-02-120919	12/9/2019	< 0.0724	U	< 0.0724	U	< 0.29	U	< 0.0724	U	< 0.0724	U	< 0.0724	U	< 0.29	U
MW5B	MW5B-SOIL-31-32-01-120919	12/9/2019	< 0.0739	U	< 0.0739	U	< 0.296	U	< 0.0739	U	< 0.0739	U	< 0.0739	U	< 0.296	U
MW5B	MW5B-SOIL-34-35-01-120919	12/9/2019	< 0.0797	U	< 0.0797	U	< 0.319	U	< 0.0797	U	< 0.0797	U	< 0.0797	U	< 0.319	U
MW5B	MW5B-SOIL-48-49-01-120919	12/9/2019	< 0.077	U	< 0.077	U	< 0.308	U	< 0.077	U	< 0.077	U	< 0.077	U	< 0.308	U
MW5B	MW5B-SOIL-50-54-01-120919	12/9/2019	< 0.0794	U	< 0.0794	U	< 0.318	U	< 0.0794	U	< 0.0794	U	< 0.0794	U	< 0.318	U
MW5B	MW5B-SOIL-55-58-01-121019	12/10/2019	< 0.0762	U	< 0.0762	U	< 0.305	U	< 0.0762	U	< 0.0762	U	< 0.0762	U	< 0.305	U
MW6B	MW6B-SOIL-6-7-01-111919	11/19/2019	< 0.0748	U	0.132	J	< 0.299	U	< 0.0748	U	< 0.0748	U	< 0.0748	U	< 0.299	U
MW6B	MW6B-SOIL-8.5-10-01-111919	11/19/2019	< 0.0724	U	< 0.0724	U	< 0.29	U	< 0.0724	U	< 0.0724	U	< 0.0724	U	< 0.29	U
MW6B	MW6B-SOIL-10-13-01-111919	11/19/2019	< 0.0769	U	< 0.0769	U	< 0.307	U	< 0.0769	U	< 0.0769	U	< 0.0769	U	< 0.307	U
MW6B	MW6B-SOIL-37-38-01-111919	11/19/2019	0.079	J	< 0.0737	U	< 0.295	U	< 0.0737	U	< 0.0737	U	< 0.0737	U	< 0.295	U
MW6B	MW6B-SOIL-38-39-01-111919	11/19/2019	< 0.0789	U	< 0.0789	U	< 0.316	U	< 0.0789	U	< 0.0789	U	< 0.0789	U	< 0.316	U
MW6B	MW6B-SOIL-36-40-01-111919	11/19/2019	< 0.0735	U	< 0.0735	U	< 0.294	U	< 0.0735	U	< 0.0735	U	< 0.0735	U	< 0.294	U
MW6B	MW6B-SOIL-46-47-01-111919	11/19/2019	< 0.0794	U	< 0.0794	U	< 0.318	U	< 0.0794	U	< 0.0794	U	< 0.0794	U	< 0.318	U
MW6B	MW6B-SOIL-46-47-02-111919	11/19/2019	< 0.0735	U	< 0.0735	U	< 0.294	U	< 0.0735	U	< 0.0735	U	< 0.0735	U	< 0.294	U
MW6B	MW6B-SOIL-81-85-01-111919	11/19/2019	< 0.0763	U	< 0.0763	U	< 0.305	U	< 0.0763	U	< 0.0763	U	< 0.0763	U	< 0.305	U
MW6B	MW6B-SOIL-106-110-01-111919	11/19/2019	< 0.0744	U	< 0.0744	U	< 0.297	U	< 0.0744	U	< 0.0744	U	< 0.0744	U	< 0.297	U
MW6B	MW6B-SOIL-129-133-01-112019	11/20/2019	< 0.0754	U	< 0.0754	U	< 0.302	U	< 0.0754	U	< 0.0754	U	< 0.0754	U	< 0.302	U
MW7A	MW7A-SOIL-10-12-01-052620	5/26/2020	0.107	J	< 0.0759	U	< 0.304	U	< 0.0759	U	< 0.0759	U	< 0.0759	U	< 0.289	U
MW7A	MW7A-SOIL-12-14-01-052620	5/26/2020	0.3	NA	< 0.076	U	< 0.304	U	< 0.076	U	< 0.076	U	< 0.076	U	< 0.289	U
MW7A	MW7A-SOIL-COMP-26-30-01-052620	5/26/2020	< 0.0759	U	< 0.0759	U	< 0.304	U	< 0.0759	U	< 0.0759	U	< 0.0759	U	< 0.289	U
MW7A	MW7A-SOIL-COMP-46-50-01-052620	5/26/2020	< 0.0744	U	< 0.0744	U	< 0.298	U	< 0.0744	U	< 0.0744	U	< 0.0744	U	< 0.283	U
MW9A	MW9A-SOIL-3-5-01-060220	6/2/2020	< 0.0751	U	< 0.0751	U	0.597	J	< 0.0751	U	< 0.0751	U	< 0.0751	U	< 0.285	U
MW9A	MW9A-SOIL-5-7-01-060220	6/2/2020	< 0.076	U	< 0.076	U	< 0.304	U	< 0.076	U	< 0.076	U	< 0.076	U	< 0.289	U
MW9A	MW9A-SOIL-COMP-16-20-01-060220	6/2/2020	< 0.0773	U	< 0.0773	U	< 0.309	U	< 0.0773	U	< 0.0773	U	< 0.0773	U	< 0.294	U
MW9A	MW9A-SOIL-COMP-16-20-02-060220	6/2/2020	< 0.0726	U	< 0.0726	U	< 0.29	U	< 0.0726	U	< 0.0726	U	< 0.0726	U	< 0.276	U
MW9A	MW9A-SOIL-COMP-96-100-01-060220	6/2/2020	< 0.0739	U	< 0.0739	U	< 0.295	U	< 0.0739	U	< 0.0739	U	< 0.0739	U	< 0.281	U
MW9A	MW9A-SOIL-COMP-127-131-01-060320	6/3/2020	< 0.0759	U	< 0.0759	U	< 0.304	U	< 0.0759	U	< 0.0759	U	< 0.0759	U	< 0.289	U
PZAD	VAPA-SOIL-7-10-01-100120	10/1/2020	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U
PZAD	VAPA-SOIL-48-50-01-100120	10/1/2020	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U
PZCD	VAPC-SOIL-COMP-1-5-01-100220	10/2/2020	0.44	J	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
PZCD	VAPC-SOIL-COMP-12-16-01-100220	10/2/2020	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U	< 0.97	U
PZCD	VAPC-SOIL-43-45-01-100220	10/2/2020	0.24	J	< 0.9	U	< 0.9	U	< 0.9	U	< 0.9	U	< 0.9	U	< 0.9	U
PZED	VAPE-SOIL-COMP-1-5-01-100520	10/5/2020	14	NA	0.57	BJ	< 1.2	U	< 1.2	U	< 1.2	U	< 1.2	U	< 1.2	U
PZED	VAPE-SOIL-COMP-25-29-01-100520	10/5/2020	0.25	J	0.21	BJ	< 1	U	< 1	U	< 1	U	< 1	U	< 1	U
PZED	VAPE-SOIL-COMP-25-29-02-100520	10/5/2020	0.17	J	0.25	BJ	< 0.98	U	< 0.98	U	< 0.98	U	< 0.98	U	< 0.98	U
PZED	VAPE-SOIL-COMP-36-40-01-100820	10/8/2020	0.18	J	0.26	BJ	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
PZFD	VAPF-SOIL-COMP-26-30-01-100620	10/6/2020	2.4	NA	0.22	BJ	< 0.9	U	< 0.9	U	< 0.9	U	< 0.9	U	< 0.9	U
PZFD	VAPF-SOIL-COMP-26-30-02-100620	10/6/2020	3	NA	0.2	BJ	< 0.95	U	< 0.95	U	< 0.95	U	< 0.95	U	< 0.95	U
PZFD	VAPF-SOIL-COMP-40-45-01-100620	10/6/2020	< 1	U	0.23	BJ+	< 1	U	< 1	U	< 1	U	< 1	U	< 1	U
PZFD	VAPF-SOIL-60-62-01-100620	10/6/2020	0.29	J	0.4	BJ+	0.49	J	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
PZFD	VAPF-SOIL-COMP-66-70-01-100620	10/6/2020	0.44	J	0.29	BJ	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
PZHD	VAPH-SOIL-COMP-8-12-01-092920	9/29/2020	0.37	J	< 1	U	< 1	U	< 1	U	< 1	U	< 1	U	< 1	U
PZHD	VAPH-SOIL-24-27-01-092920	9/29/2020	0.32	J	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
PZHD	VAPH-SOIL-28-30-01-092920	9/29/2020	0.25	J	< 0.88	U	< 0.88	U	< 0.88	U	< 0.88	U	< 0.88	U	< 0.88	U
PZID	VAPI-SOIL-COMP-12-16-01-093020	9/30/2020	< 1	U	< 1	U	< 1	U	< 1	U	< 1	U	< 1	U	< 1	U
PZID	VAPI-SOIL-COMP-24-28-01-093020	9/30/2020	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U	< 1.1	U
PZID	VAPI-SOIL-COMP-36-39-01-093020	9/30/2020	< 0.98	U	< 0.98	U	< 0.98	U	< 0.98	U	< 0.98	U	< 0.98	U	< 0.98	U
PZJD	VAPJ-SOIL-COMP-21-25-01-100720	10/7/2020	< 0.99	U	0.15	BJ	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U
PZJD	VAPJ-SOIL-41-43-01-100720	10/7/2020	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U	< 0.99	U

Attachment F-10: Soil Analytical Data for Key PFAS Compounds

Chemical Name			PFOS		PFOA		PFBA		PFBS		PFHxS		PFHxA		HFPO-DA	
CAS Number			45298-90-6		335-67-1		375-22-4		45187-15-3		108427-53-8		307-24-4		13252-13-6	
Location ID	Sample ID	Sample Date	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier	Result (ug/kg)	Qualifier
PZJD	VAPJ-SOIL-60-62-01-100720	10/7/2020	<1	U	0.16	BJ	<1	U	<1	U	<1	U	<1	U	<1	U
PZJD	PZJD-SOIL-COMP-17-20-01-102820	10/28/2020	<1	U	<1	U	<1	U	<1	U	<1	U	<1	U	<1	U

Notes:

<0.0002 - Concentration is less than laboratory reportable limit

DUP - Duplicate Sample

Bold - Result is above the laboratory minimum reporting limit

Lab Qualifiers

J - Estimated concentration is less than the reporting limit

R - peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration

D - Dilution data

B - analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank

U - Identifies a compound that was not detected

Attachment F-11

Soil Analytical Data for All Other Detected PFAS Compounds

