Victor Valley Wastewater Reclamation Authority
A Joint Powers Authority and Public Agency of the State of California

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February 28, 2017

Lahonton Regional Water Quality Control Board
14440 Civic Drive, Suite 200
Victorville, CA 92392

Attention: Patricia Z. Kouyoumdjian, Executive Officer

Subject: **Annual Facility Monitoring Report for 2016**
Board Order No. R6V-2013-0038, NPDES Permit No. CA0102822

This report is submitted in accordance with Monitoring and Reporting Program Section X.D.4 as required by Order No. R6V-2013-0038, adopted July 17, 2013 for the Victor Valley Wastewater Reclamation Authority's (VVWRA) Regional Wastewater Treatment Plant's (WWTP) discharge to the Mojave River.

This annual report includes the following information, as required by the MRP:

Other data collected during 2016 are presented in the following reports.

The results of 2016 groundwater monitoring can be found in the *2016 Annual Groundwater Monitoring Results, VVWRA Percolation Pond and Biosolids Waste Units* (submitted January 30, 2017).

The results of percolation pond monitoring can be found in the *Percolation Pond Annual Report for 2016 – Effluent, Pond and Biosolids* (submitted January 30, 2017).

The results of 2016 biosolids monitoring can be found in the *2016 Biosolids Annual Report* (submitted to the EPA February 21, 2017 and with this report).

The recycled water and reuse information for 2016 will be reported in the *2016 Annual Recycled Water Report* (due April 1).

VVWRA Monitoring Data Summary

This section includes a summary and presentation of all the influent, effluent and receiving water data collected at VVWRA's WWTP in 2016.

Summary of Monitoring Data

Constituent	Location	Units	Count	% Detect	Mean[a]	Range
Flow	INF-001	MGD	366	100%	10	9.1-12.3
	EFF-001		348	100%	5.2	0.12-11.3
Biochemical Oxygen Demand (BOD)	INF-001	mg/L	268	100%	447	170-1190
	EFF-001		255	96%	4.2	1-9
	EFF-001	lb/day	254	96%	181	4.8-450
	EFF-001	% removal	253	100%	99	97.1-99.8
Total Suspended Solids (TSS)	INF-001	mg/L	303	100%	467	100-1472[b]
	EFF-001		289	56%	2.1	<0.2-5.7
	EFF-001	lb/day	289	56%	90	<2.6-263
	EFF-001	% removal	287	100%	99	98.0-100
pH	INF-001	SU, daily min	366	100%	7.0	4.01-7.28
	INF-001	SU, daily max	366	100%	7.6	6.98-10.4
	EFF-001	SU, daily min	348	100%	6.9	6.58-7.22
	EFF-001	SU, daily max	348	100%	7.1	6.76-7.91
Temperature	EFF-001	Degrees C	347	100%	25	18.8-30
Electrical Conductivity	INF-001	µmhos/cm, daily min	366	100%	696	188-1018
	INF-001	µmhos/cm, daily max	366	100%	945	7.7-1289
	EFF-001	µmhos/cm	341	100%	545	457-728
Fecal Coliform	EFF-001	MPN/100 mL	347	4%	ID	<2-7
Total Coliform	EFF-001	MPN/100 mL	347	9%	ID	<2-900
Turbidity	EFF-001	NTU	348	100%	0.59	0.31-1.54
Ammonia, Total (as N)	INF-001	mg/L	49	100%	31.9	26-47
	EFF-001		53	62%	0.22	<0.05-3.0
	EFF-001	lb/day	53	62%	9.7	<1.9-123
Nitrate, Total (as N)	INF-001	mg/L	49	12%	ID	<0.1-0.3
	EFF-001		49	100%	4.7	1.0-9.4
	EFF-001	lb/day	49	100%	202	36.0-415
Nitrite, Total (as N)	EFF-001	mg/L	49	76%	0.20	0.06-1.4
	EFF-001	lb/day	49	76%	8.5	2.5-59.3
Total Kjeldahl Nitrogen (TKN) (as N)	INF-001	mg/L	49	100%	57.1	30-110
	EFF-001		49	100%	1.6	0.74-8.5
	EFF-001	lb/day	49	100%	70.0	25.0-364
Nitrogen, Total (as N)	EFF-001	mg/L	49	76%	6.3	<2.4-11.8
	EFF-001	lb/day	46	83%	270	<85-546
Dissolved Oxygen	EFF-001	mg/L	50	100%	6.8	6.13-7.61

Constituent	Location	Units	Count	% Detect	Mean[a]	Range
Total Dissolved Solids (TDS)	EFF-001	mg/L	50	100%	362	290-531
	EFF-001	lb/day	50	100%	15451	3249-28,833
Bis (2-Ethylhexyl) Phthalate	EFF-001	µg/L	12	0%	<3	<3
	EFF-001	lb/day	12	0%	<0.09	<0.09
Copper, Total Recoverable	EFF-001	µg/L	12	8%	ID	2.9-<10
	EFF-001	lb/day	12	8%	ID	0.13-<0.55
Cyanide, Total (as CN)	EFF-001	µg/L	12	8%	<5	<5-5.0
	EFF-001	lb/day	12	8%	ID	0.15-<0.28
Sodium, Total	EFF-001	mg/L	12	100%	76.8	61-87
	EFF-001	lb/day	12	100%	3291	2353-4833
Boron, Total Recoverable	EFF-001	mg/L	4	100%	110	0.2-240
	EFF-001	lb/day	4	100%	4030	9.8-9042
Chloride, Total	EFF-001	mg/L	4	100%	57.0	56-59
	EFF-001	lb/day	4	100%	2426	1647-2749
Fluoride, Total	EFF-001	mg/L	4	100%	0.4	0.4
	EFF-001	lb/day	4	100%	17.0	11.8-19.6
Methylene Blue Active Substances (MBAS)	EFF-001	mg/L	4	50%	ID	<0.8-0.1
	EFF-001	lb/day	4	50%	ID	<2.4-4.6
Oil and Grease	EFF-001	mg/L	4	25%	ID	<2.5-4.6
	EFF-001	lb/day	4	25%	ID	<74-208
Phenols, Total	EFF-001	mg/L	4	0%	<0.02	<0.02
	EFF-001	lb/day	4	0%	ND	<0.59-<0.98
Sulfate, Total (as SO4)	EFF-001	mg/L	4	100%	32.5	32-34
	EFF-001	lb/day	4	100%	1384	941-1576
Hardness, Total (as CaCO3)	EFF-001	mg/L	4	100%	69.8	59-75
Acute Toxicity	EFF-001	% survival	4	100%	100	100
Chlorine, Total Residual	RSW-001	mg/L	3	100%	0.033	0.01-0.06
	RSW-002		3	100%	0.017	0.01-0.02
Dissolved Oxygen	RSW-001	mg/L	4	100%	7.0	4.67-9.76
	RSW-002		4	100%	5.8	5.11-6.59
Hardness, Total (as CaCO3)	RSW-001	mg/L	4	100%	193	190-200
	RSW-002		4	100%	121	97-190
Ammonia, Total (as N)	RSW-001	mg/L	4	0%	<0.1	<0.1
	RSW-002		6	17%	ID	<0.1-0.2
Nitrate, Total (as N)	RSW-001	mg/L	4	0%	<0.2	<0.2
	RSW-002		4	75%	1.54	<0.2-2.6
Nitrite, Total (as N)	RSW-001	mg/L	4	0%	<0.1	<0.1
	RSW-002		4	0%	<0.1	<0.1
Total Kjeldahl Nitrogen (TKN) (as N)	RSW-001	mg/L	4	75%	0.19	<0.1-0.34
	RSW-002		4	75%	0.53	<0.1-0.8

Constituent	Location	Units	Count	% Detect	Mean[a]	Range
pH	RSW-001	SU	4	100%	7.63	7.41-7.96
	RSW-002		4	100%	7.47	7.39-7.60
Temperature	RSW-001	Degrees C	4	100%	16.2	6.5-26.5
	RSW-002		4	100%	15.9	10.3-21.4
Total Coliform	RSW-001	MPN/100 mL	5	100%	142	20-300
	RSW-002		5	100%	1170	250-2400
Total Dissolved Solids (TDS)	RSW-001	mg/L	4	100%	0.203	0.1-0.34
	RSW-002		4	100%	414	390-451
Turbidity	RSW-001	NTU	4	100%	2.82	0.73-6.29
	RSW-002		4	100%	0.85	0.6-1.0

[a] ID: Insufficient detected data were available to calculate the average using the Regression on Order Statistics method.
[b] This was the only value 1000 mg/L higher than the average concentration. The lab report noted: “A thick sample.”

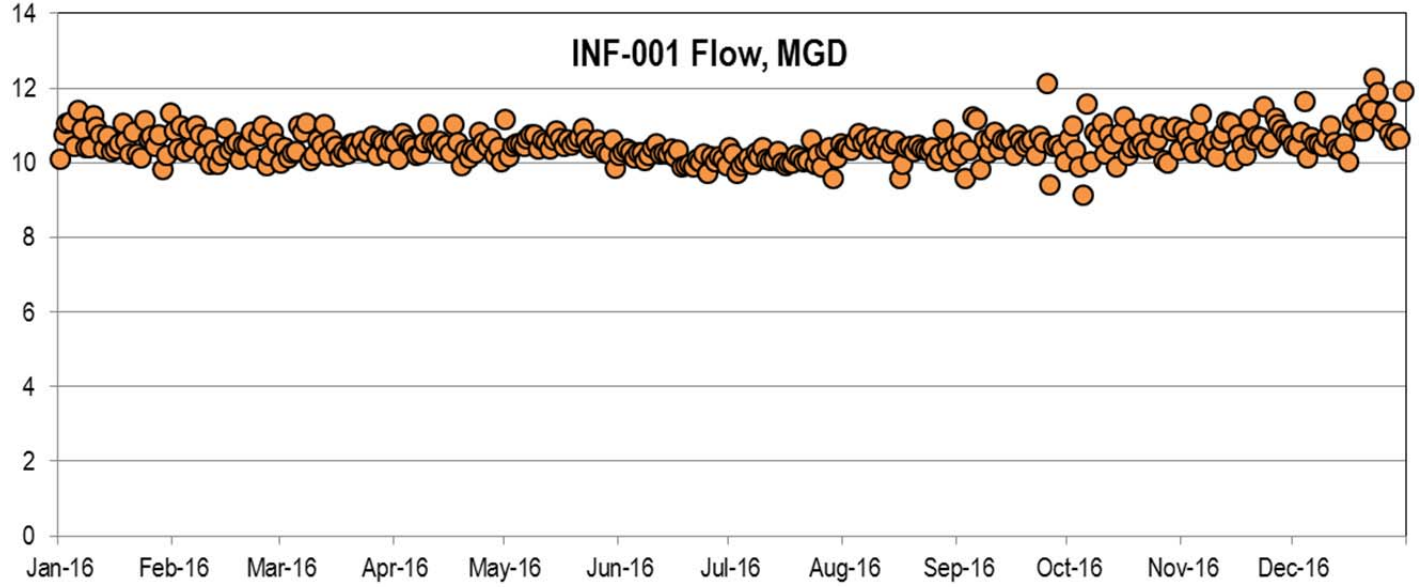
WWTP FLOW DATA

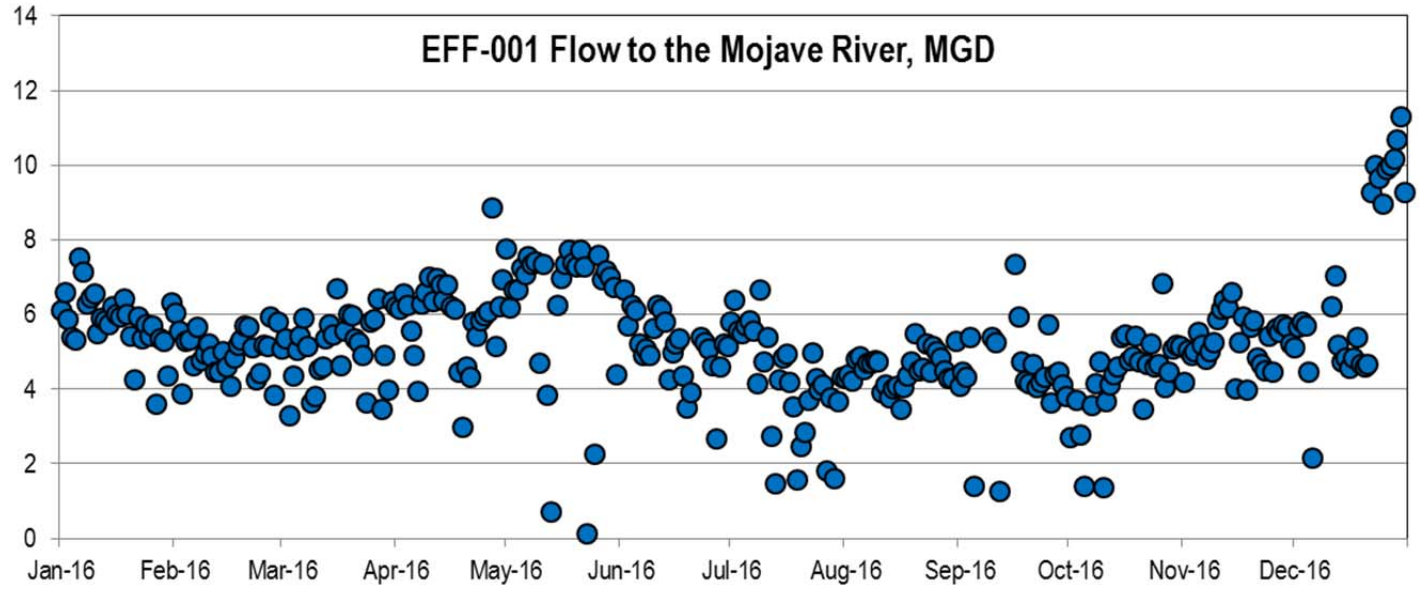
INF-001 Flow, MGD

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	10.083	10.859	10	10.552	11.151	10.181	10.393	10.417	10.2	10.653	10.889	10.475
2	10.752	10.364	10.391	10.099	10.147	10.298	10.224	10.397	10.553	10.973	10.691	10.425
3	11.071	10.992	10.115	10.778	10.452	10.386	9.725	10.339	9.59	10.323	10.453	10.818
4	11.093	10.315	10.268	10.596	10.523	10.316	9.925	10.576	10.337	9.884	10.251	11.629
5	10.427	10.871	10.307	10.487	10.493	10.112	10.013	10.788	11.241	9.142	10.841	10.117
6	11.406	10.395	10.983	10.387	10.428	10.277	10.114	10.54	11.173	11.558	11.296	10.682
7	10.875	10.982	10.824	10.186	10.66	10.261	9.97	10.635	9.81	10.031	10.4	10.522
8	10.402	10.76	11.066	10.246	10.758	10.072	10.277	10.362	10.593	10.802	10.337	10.494
9	10.403	10.202	10.074	10.538	10.735	10.208	10.158	10.663	10.276	10.678	10.578	10.422
10	11.262	10.691	10.194	11.033	10.355	10.392	10.409	10.472	10.649	11.052	10.15	10.672
11	10.942	9.953	10.609	10.536	10.602	10.496	10.102	10.353	10.831	10.216	10.607	10.989
12	10.738	10.319	10.483	10.519	10.554	10.235	10.072	10.623	10.383	10.732	10.782	10.553
13	10.372	9.961	11.034	10.591	10.38	10.283	10.111	10.254	10.619	10.513	11.077	10.36
14	10.706	10.191	10.191	10.32	10.604	10.247	10.304	10.493	10.571	9.881	11.047	10.321
15	10.285	10.919	10.602	10.464	10.846	10.36	9.998	10.581	10.595	10.785	10.075	10.504
16	10.362	10.32	10.44	10.251	10.642	10.156	9.927	9.567	10.186	11.217	10.761	10.023
17	10.514	10.489	10.172	11.036	10.428	10.326	9.986	9.967	10.748	10.183	10.483	11.119
18	11.045	10.551	10.317	10.544	10.595	9.875	10.004	10.389	10.571	10.392	10.185	11.301
19	10.561	10.083	10.237	9.936	10.469	9.938	10.182	10.438	10.432	10.919	11.15	10.845
20	10.234	10.484	10.517	10.335	10.585	9.953	10.136	10.297	10.554	10.423	10.593	10.851
21	10.807	10.479	10.495	10.127	10.666	9.902	10.011	10.474	10.62	10.554	10.724	11.581
22	10.222	10.833	10.322	10.337	10.934	10.08	10.06	10.359	10.2	10.356	10.674	11.417
23	10.136	10.134	10.59	10.25	10.614	10.037	10.597	10.351	10.72	11.02	11.516	12.263
24	11.135	10.703	10.299	10.808	10.415	10.231	9.962	10.299	10.557	10.406	10.397	11.899
25	10.633	10.987	10.482	10.555	10.498	9.732	10.229	10.395	12.132	10.604	10.583	11.102
26	10.71	9.921	10.706	10.438	10.625	10.152	9.893	10.076	9.393	10.957	11.197	11.362
27	10.455	10.197	10.182	10.661	10.401	10.02	10.328	10.225	10.442	10.044	11.024	10.779
28	10.74	10.82	10.601	10.212	10.265	10.165	10.419	10.881	10.478	10.005	10.892	10.623
29	9.822	10.493	10.542	10.4	10.236	10.105	9.579	10.326	10.375	10.846	10.753	10.797
30	10.203		10.264	10.042	10.625	9.928	10.13	10.025	10.03	10.943	10.71	10.644
31	11.344		10.581		9.837		10.512	10.488		10.352		11.928

EFF-001 Flow, MGD

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.116	6.051	5.063	6.196	7.739		5.78	4.267	4.078	2.695	4.163	5.119
2	6.57	5.539	5.361	6.148	6.16	6.641	6.383	4.384	4.449		5.042	5.671
3	5.854	3.882	3.292	6.569	6.661	5.689	5.546	4.201	4.302	3.692	4.888	5.795
4	5.395	5.269	4.354	6.245	6.67	6.249	5.49	4.798	5.38	2.77	5.015	5.69
5	5.329	5.319	5.024	5.557	7.232	6.112	5.687	4.86	1.401	1.395	5.506	4.471
6	7.517	4.614	5.423	4.91	7.058	5.212	5.821	4.524			5.194	2.158
7	7.12	5.661	5.899	3.945	7.547	4.908	5.554	4.696		3.548	4.784	
8	6.278	4.779	5.128	6.277	7.336	5.083	4.149	4.704		4.142	5.016	
9	6.459	4.942	3.646	6.596	7.403	4.891	6.642	4.759		4.722	5.231	
10	6.541	5.213	3.795	7.006	4.698	5.618	4.721	4.715	5.395	1.365	5.876	
11	5.491	4.866	4.52	6.336	7.343	6.24	5.379	3.898	5.259	3.667	6.123	6.198
12	5.885	4.442	4.587	6.978	3.836	6.153	2.724	4.124	1.257	4.115	6.386	7.022
13	5.834	4.438	5.358	6.794	0.709	5.799	1.451	3.759		4.393	6.178	5.187
14	5.738	5.00	5.718	6.389		4.237	4.241	4.012		4.59	6.594	4.729
15	6.198	4.578	5.447	6.781	6.25	4.979	4.835	4.07		5.39	4.02	4.84
16	6.011	4.08	6.701	6.194	6.978	5.213	4.944	3.466	7.334	5.455	5.255	4.55
17	5.929	4.827	4.637	6.153	7.344	5.355	4.197	4.031	5.928	4.781	5.924	4.837
18	6.407	5.175	5.569	4.445	7.724	4.355	3.526	4.341	4.721	4.853	3.957	5.394
19	6.014	5.309	6.01	2.987	7.362	3.502	1.55	4.717	4.209	5.421	5.666	4.649
20	5.423	5.695	5.97	4.597	7.289	3.902	2.45	5.499	4.135	4.733	5.83	4.608
21	4.24	5.643	5.343	4.311	7.719		2.855	4.497	4.67	3.461	4.832	4.675
22	5.933	5.111	5.239	5.781	7.273		3.706	4.552	4.047	4.666	4.67	9.281
23	5.34	4.258	4.907	5.424	0.115	5.393	4.965	5.212	4.164	5.20	4.475	9.995
24	5.73	4.425	3.626	5.832		5.23	4.274	4.443	4.322	4.609	5.435	9.645
25	5.404	5.189	5.803	5.952	2.271	5.087	3.966	5.136	5.72	4.651	4.468	8.956
26	5.7	5.154	5.875	6.062	7.59	4.642	4.113	4.994	3.644	6.844	5.612	9.878
27	3.58	5.941	6.414	8.843	6.947	2.68	1.809	4.847	4.395	4.039	5.514	9.983
28	5.349	3.84	3.451	5.151	7.162	4.602	3.784	4.506	4.455	4.449	5.742	10.165
29	5.264	5.81	4.918	6.218	6.995	5.224	1.585	4.283	4.124	5.085	5.668	10.678
30	4.34		3.963	6.918	6.739	5.155	3.677	4.283	3.793	5.183	5.202	11.296
31	6.296		6.35		4.392		4.329	5.265		5.155		9.273


INF-001 Flow, MGD
14
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16


EFF-001 Flow to the Mojave River, MGD
14
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

WWTP WATER QUALITY MONITORING DATA

INF-001 Biological Oxygen Demand (BOD) Concentration, mg/L

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	444	474	513		446	458		330			410	
2		461	456	365	696	375	484	350		330	470	
3	464	340	431	306	636		308	280		470		
4	421	350		523	566	366	399	330		520		480
5	540		384	496	549	427	413		370	370		600
6	602	432	560	576		566	386		370		430	590
7	459	350	428	646	362	375	430	270	310		430	410
8		370	407		464	484		290			440	
9	428	432	454	374	490	474	283	300		330	480	
10	401	558	487	376	528		326	330		420		
11	393	379		591		336	408		280	400		460
12	470		364	601		457	408		170	350		390
13	498	352	464	439		646	370		320		320	460
14	429	538	603	582	372	462	360	290	340		540	400
15		420	516		398	434		440	440		920	
16	356	641	522	351	622	588	276	430	250	380	390	
17	336	498	511	393	470		274	390	320	350		
18	398	673		476	612	398	282	380	320	490		430
19	434		310	517	603	510	405		420	460		
20	516	633	348	651		775	494		430		450	460
21	400	420	481	670	392	542	557	290	440		550	380
22		599	1190		514	425		340			460	420
23	383	413	534	426	568	388		350		360		
24	412	564	610	462	486			260		420		
25	383	496		590	518	274			320	380	550	
26	318		460	533	438	372			380	390		610
27	389	757	550			491	190		400		520	420
28	484	618	632	502	539	461	340	260	410		440	410
29		733	680	585	386	392	380	410			480	410
30	384		416	578	471	338	340	360		320	430	
31	712		486		488		340	390		330		

EFF-001 Biological Oxygen Demand (BOD) Concentration, mg/L

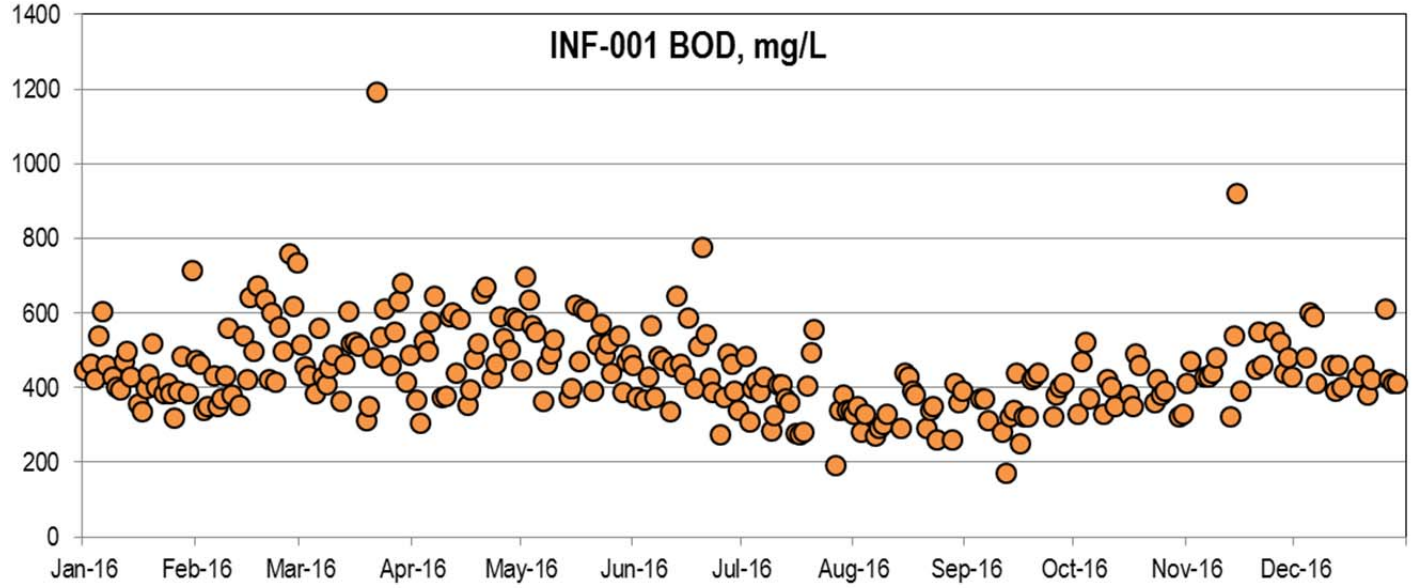
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		4	4		4			4			3	
2	5	4	4	4	4	5	6	3			4	
3	6	<5	4	4	4		6	2		9		
4	6	<5		4	3	5	5	<5		6		2
5	6		7	4	<3	5	5		5			3
6	5	4	7	4		5	7				3	
7	5	4	5	5	4	5	5	4		7	4	
8		4	4		4	4		3			3	
9	5	4	4	4	4	4	4	2		5	3	
10	5	5	4	4	5		6	2		4		
11	3	5		4		5	7		3	6		2
12	3		4	4		6	8		<5	4		3
13	<3	5	5	4		6	8				3	5
14	<3	5	4	3		7	6	4			4	3
15		6	4		6	6		6			6	
16	3	6	4	<3	4	5	4	4	3	3	5	
17	3	4	4	3	4		4	4	5	4		
18	3	4		<3	5	4	4	6	5	5		1
19	3		4	3	5	4	4		7	4		
20	3	4	4	3		4	4		6		2	4
21	4	4	4	<3	4		4	4	2		2	3
22		4	4		5			5			3	3
23	4	4	3	3	5	4		4		4		
24	5	4	4	3				6		4		
25	5	4		3	7	4			6	4	2	
26	5		4	3	7	4			7	4		3
27	4	5	4			4	3		7		1	3
28	4	6	4	3	4	4	3	3	6		3	3
29		5	4	3	5	5	2	4			4	3
30	5		4	4	8	5	5	2		6	2	
31	4		4		6		3	3		4		

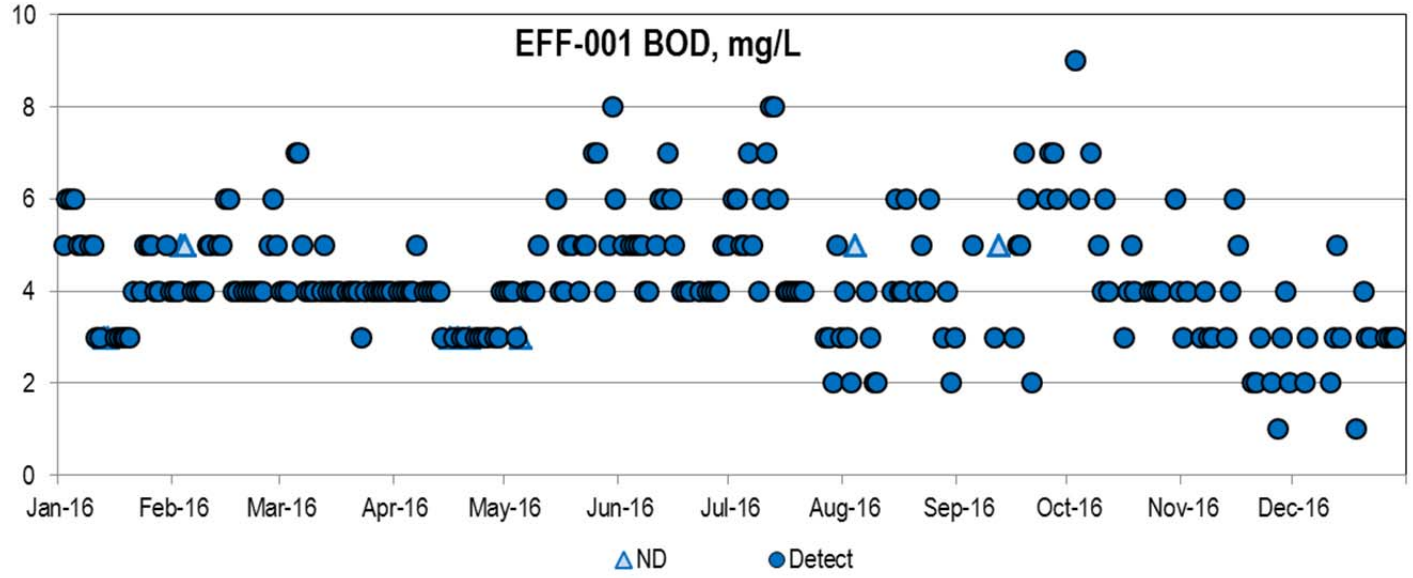
EFF-001 Biological Oxygen Demand (BOD) Load, lbs/day

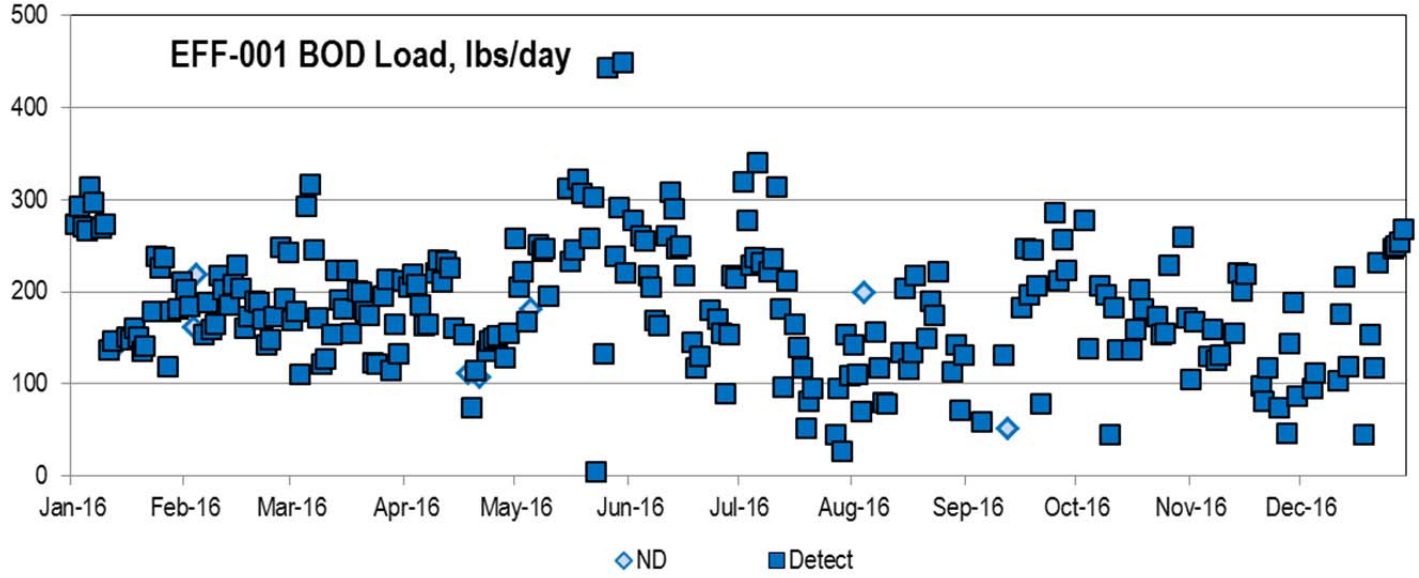
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		202	169		258			142			104	
2	274	185	179	205	205	277	319	110			168	
3	293	ND	110	219	222		278	70		277		
4	270	ND		208	167	261	229	ND		139		95
5	267		293	185	ND	255	237		58			112
6	313	154	317	164		217	340				130	
7	297	189	246	165	252	205	232	157		207	160	
8		159	171		245	170		118			126	
9	269	165	122	220	247	163	222	79		197	131	
10	273	217	127	234	196		236	79		46		
11	137	203		211		260	314		132	183		103
12	147		153	233		308	182		ND	137		176
13	ND	185	223	227		290	97				155	216
14	ND	209	191	160		247	212	134			220	118
15		229	182		313	249		204			201	
16	150	204	224	ND	233	217	165	116	183	136	219	
17	148	161	155	154	245		140	134	247	159		
18	160	173		ND	322	145	118	217	197	202		45
19	150		200	75	307	117	52		246	181		
20	136	190	199	115		130	82		207		97	154
21	141	188	178	ND	258		95	150	78		81	117
22		171	175		303			190			117	232
23	178	142	123	136	5	180		174		173		
24	239	148	121	146				222		154		
25	225	173		149	133	170			286	155	75	
26	238		196	152	443	155			213	228		247
27	119	248	214			89	45		257		46	250
28	178	192	115	129	239	154	95	113	223		144	254
29		242	164	156	292	218	26	143			189	267
30	181		132		450	215	153	71		259	87	
31	210		212		220		108	132		172		

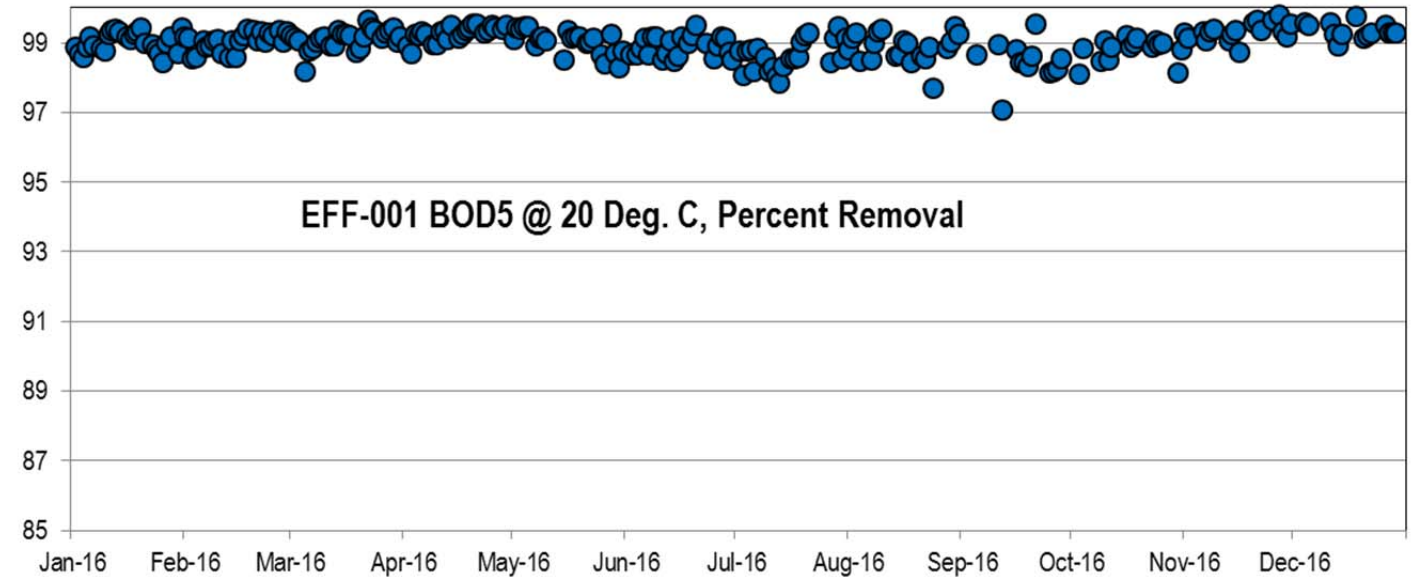
EFF-001 Biological Oxygen Demand (BOD) Percent Removal, %

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		99.2	99.2		99.1			98.8			99.3	
2	98.9	99.1	99.1	98.9	99.4	98.7	98.8	99.1			99.1	
3	98.7	98.5	99.1	98.7	99.4		98.1	99.3		98.1		
4	98.6	98.6		99.2	99.5	98.6	98.7	98.5		98.8		99.6
5	98.9		98.2	99.2	99.5	98.8	98.8		98.6			99.5
6	99.2	99.1	98.8	99.3		99.1	98.2				99.3	
7	98.9	98.9	98.8	99.2	98.9	98.7	98.8	98.5			99.1	
8		98.9	99.0		99.1	99.2		99.0			99.3	
9	98.8	99.1	99.1	98.9	99.2	99.2	98.6	99.3		98.5	99.4	
10	98.8	99.1	99.2	98.9	99.1		98.2	99.4		99.0		
11	99.2	98.7		99.3		98.5	98.3		98.9	98.5		99.6
12	99.4		98.9	99.3		98.7	98.0		97.1	98.9		99.2
13	99.4	98.6	98.9	99.1		99.1	97.8				99.1	98.9
14	99.3	99.1	99.3	99.5		98.5	98.3	98.6			99.3	99.3
15		98.6	99.2		98.5	98.6		98.6			99.3	
16	99.2	99.1	99.2	99.1	99.4	99.1	98.6	99.1	98.8	99.2	98.7	
17	99.1	99.2	99.2	99.2	99.1		98.5	99.0	98.4	98.9		
18	99.2	99.4		99.4	99.2	99.0	98.6	98.4	98.4	99.0		99.8
19	99.3		98.7	99.4	99.2	99.2	99.0		98.3	99.1		
20	99.4	99.4	98.9	99.5		99.5	99.2		98.6		99.6	99.1
21	99.0	99.0	99.2	99.6	99.0		99.3	98.6	99.5		99.6	99.2
22		99.3	99.7		99.0			98.5			99.3	99.3
23	99.0	99.0	99.4	99.3	99.1	99.0		98.9		98.9		
24	98.8	99.3	99.3	99.4				97.7		99.0		
25	98.7	99.2		99.5	98.6	98.5			98.1	98.9	99.6	
26	98.4		99.1	99.4	98.4	98.9			98.2	99.0		99.5
27	99.0	99.3	99.3			99.2	98.4		98.3		99.8	99.3
28	99.2	99.0	99.4	99.4	99.3	99.1	99.1	98.8	98.5		99.3	99.3
29		99.3	99.4	99.5	98.7	98.7	99.5	99.0			99.2	99.3
30	98.7		99.0		98.3	98.5	98.5	99.4		98.1	99.5	
31	99.4		99.2		98.8		99.1	99.2		98.8		


INF-001 BOD, mg/L
1400
1200
1000
800
600
400
200
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16


EFF-001 BOD, mg/L
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


EFF-001 BOD Load, lbs/day
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


99
97
95
93
91
89
87
85
EFF-001 BOD5 @ 20 Deg. C, Percent Removal
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

INF-001 Total Suspended Solids, mg/L

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	672	542	518	682	398	438	524	430			660	
2	434	494	520	388	486	384	414	400		350	490	
3	338	490	366	498	472	413	306	320		520		
4	485	496	468	560	538	418	339	380		430		500
5	516	503	368	578	804	338	430		340	490		670
6	474	340	402	474	584	440	402		330		400	730
7	514	356	657	702	386	374	514	320	360		430	470
8	460	520	467	550	480	490	419	400			630	
9	338	498	500	390	488	482	330	410		320	530	
10	428	532	561	330	474	486	334	390		520		
11	567	476	640	720	516	578	424		230	490		380
12	458	518	404	570		460	424		100	420		470
13	430	322	378	568	374	660	464		370		420	460
14	360	338	564	604	364	560	400	280	400		680	700
15	566	426	402	522	428	507	404	530	450		600	
16	342	414	750	340	711	546	300	420	170	310	570	
17	392	602	552	354	570	454	308	440	250	370		
18	439	532	558	521	508	420	410	320	340	490		480
19	692	324	362	564	578	350	336		440	510		
20	1472	386	360	497	454	462	544		440		440	400
21	472	574	731	558	592	470	562	270	550		670	450
22	690	496	514	663	432	466	442	350			600	480
23	382	374	546	340	452	528	298	370		420		
24	416	606	516	318	506	576	335	400		470		
25	512	502	620	523	478	404	434		520	440	500	
26	282	474	374	488	476	316	400		480	450		650
27	502	444	368	646	454	467	100		510		590	450
28	624	460	544	510	518	504	420	230	520		610	480
29	556	270	592	468	406	612	360	460			520	490
30	352		468	450	445	403	320	340		350	610	
31	342		568		492		330	480		440		

EFF-001 Total Suspended Solids (TSS) Concentration, mg/L

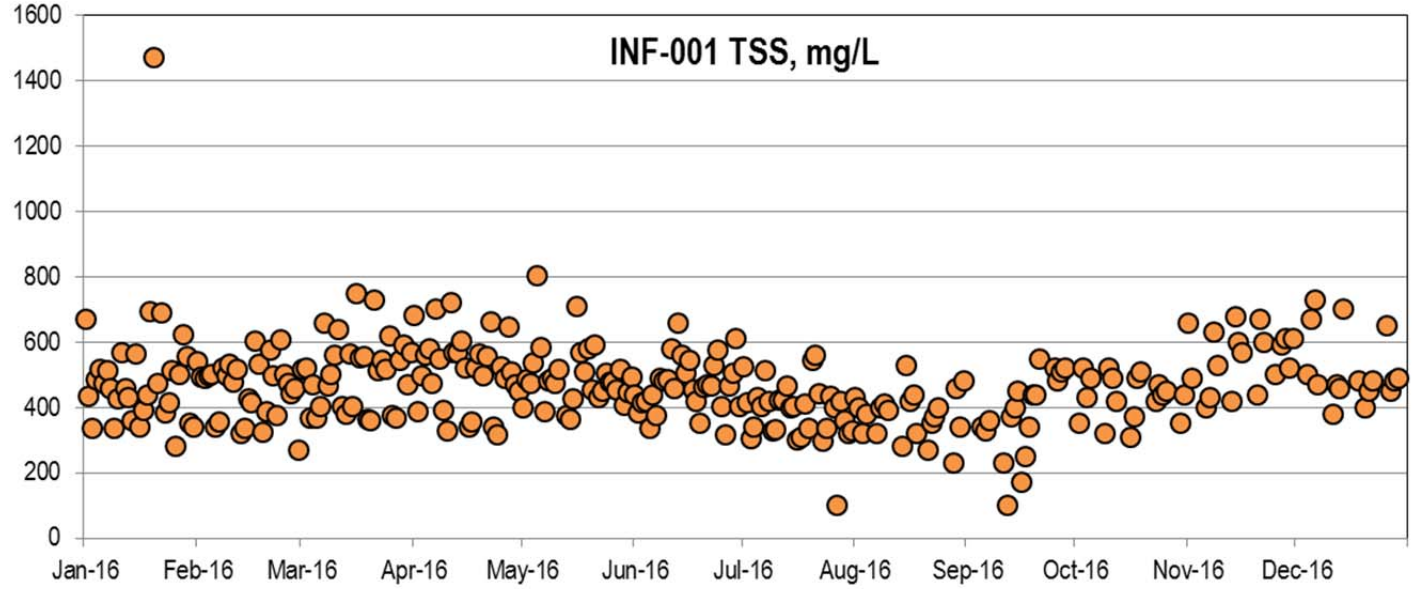
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.2	2.5	3.3	<2	2.4		3.1	<2			2	
2	2.1	2	2	<2	<2	<2	3.2	2			2	
3	2.5	2.1	<2	<2	2	<2	3	<2		3		
4	2.7	2.6	2.6	<2	2	<2	2.3	3		2		<2
5	2	2	2.2	<2	<2	2	2.1		2			<2
6	2.9	<2	2.9	<2	2.9	<2	2.6				<2	
7	3.2	2	2.5	2	3.2	<2	2.6	3		2	<2	
8	3.6	2.1	2	<2	4.3	<2	3.8	2			<2	
9	3.8	2.2	<2	<2	3.1	<2	2.2	<2		2	<2	
10	3.2	2.9	3.5	<2	3.3	<2	2.5	<2		2		
11	<2	<2	3.3	2.2	3.1	<2	5.2		<2	2		2
12	<2	2.7	2.7	2.6		<2	4.6		<2	2		<2
13	<2	2.5	3	2	3.2	<2	2.3				2	<2
14	<2	3.2	3.3	<2		2.6	<2	4			2	<2
15	<2	3.5	3.3	<2	3.9	2.6	<2	4			<2	
16	<2	3.5	3.5	<2	2.1	2.5	2	2	2	2	2	
17	2.1	2.9	2	<2	<2	3.2	2	4	2	<2		
18	<2	<2	2.8	<2	3.3	2.1	<2	<2	<2	2		<2
19	<2	2.3	<2	<2	3	2	<2		<2	4		
20	2.5	<2	<2	<2	2.8	2.2	<2		4		<2	3
21	2.1	<2	<2	<2	2.8		<2	<2	3		<2	<2
22	2.1	<2	<2	2.1	<2		3	2			<2	2
23	2.5	<2	<2	<2		<2	2.7	<2		<2		
24	2.4	<2	<2	<2		2.6	4.5	2		<2		
25	3.4	<2	<2	2	2.8	<2	5.7		4	<2	<2	
26	3.5	2	<2	<2	<2	2.3	<2		4	<2		<2
27	3.1	2.8	<2	2	<2	<2	2		2		<2	2
28	3.5	<2	<2	2.2	<2	2.1	<0.2	<2	<2		<2	2
29	3.9	3.5	<2	<2	<2	2.3	<0.2	<2			2	2
30	3.4		2.5	<2	2.1	2.8	<0.2	<2		2	<2	
31	2.8		<2		2.4		2	2		4		

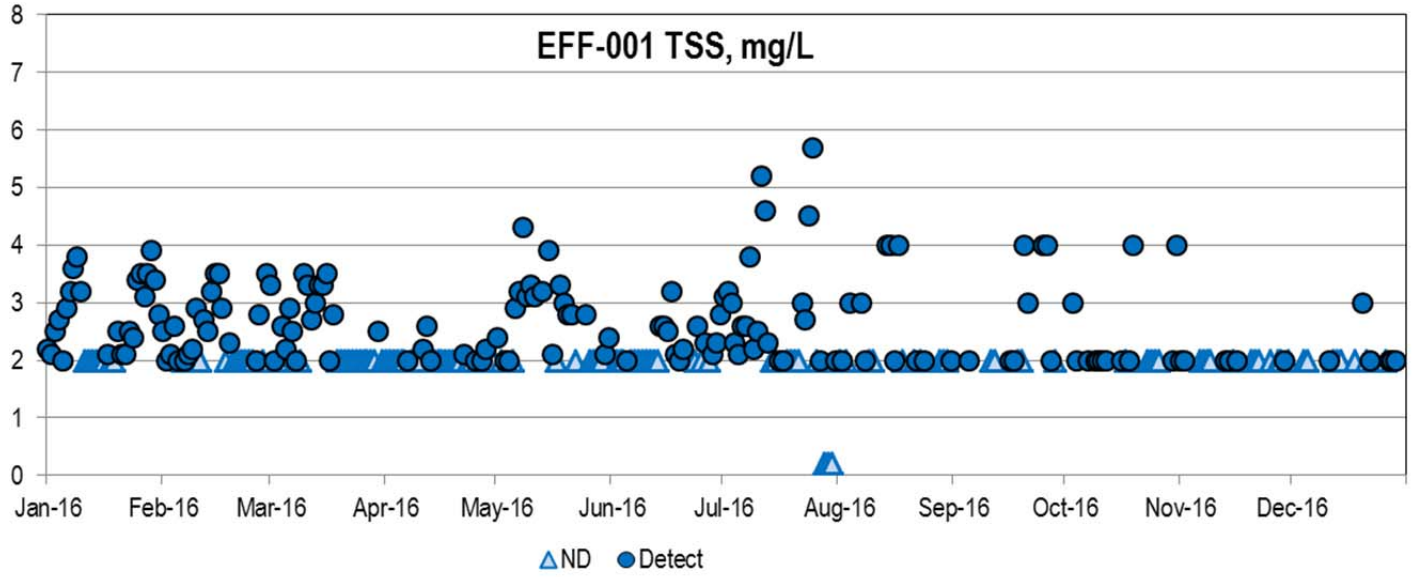
EFF-001 Total Suspended Solids (TSS) Load, lbs/day

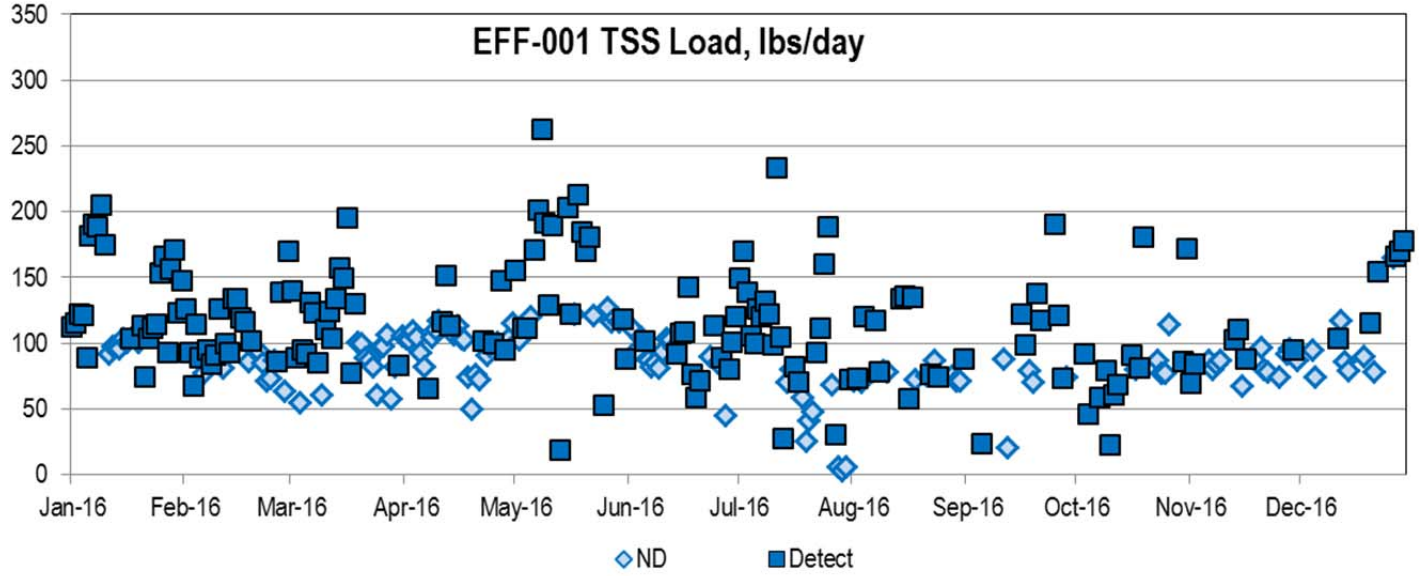
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	112	126	139	ND	155		149	ND			69	
2	115	92	89	ND	ND	ND	170	73			84	
3	122	68	ND	ND	111	ND	139	ND		92		
4	121	114	94	ND	111	ND	105	120		46		ND
5	89	89	92	ND	ND	102	100		23			ND
6	182	ND	131	ND	171	ND	126				ND	
7	190	94	123	66	201	ND	120	117		59	ND	
8	188	84	86	ND	263	ND	131	78			ND	
9	205	91	ND	ND	191	ND	122	ND		79	ND	
10	175	126	111	ND	129	ND	98	ND		23		
11	ND	ND	124	116	190	ND	233		ND	61		103
12	ND	100	103	151		ND	105		ND	69		ND
13	ND	93	134	113	19	ND	28				103	ND
14	ND	133	157	ND		92	ND	134			110	ND
15	ND	134	150	ND	203	108	ND	136			ND	
16	ND	119	196	ND	122	109	82	58	122	91	88	
17	104	117	77	ND	ND	143	70	134	99	ND		
18	ND	ND	130	ND	213	76	ND	ND	ND	81		ND
19	ND	102	ND	ND	184	58	ND		ND	181		
20	113	ND	ND	ND	170	72	ND		138		ND	115
21	74	ND	ND	ND	180		ND	ND	117		ND	ND
22	104	ND	ND	101	ND		93	76			ND	155
23	111	ND	ND	ND		ND	112	ND		ND		
24	115	ND	ND	ND		113	160	74		ND		
25	153	ND	ND	99	53	ND	189		191	ND	ND	
26	166	86	ND	ND	ND	89	ND		122	ND		ND
27	93	139	ND	148	ND	ND	30		73		ND	167
28	156	ND	ND	95	ND	81	ND	ND	ND		ND	170
29	171	170	ND	ND	ND	100	ND	ND			95	178
30	123		83	ND	118	120	ND	ND		86	ND	
31	147		ND		88		72	88		172		

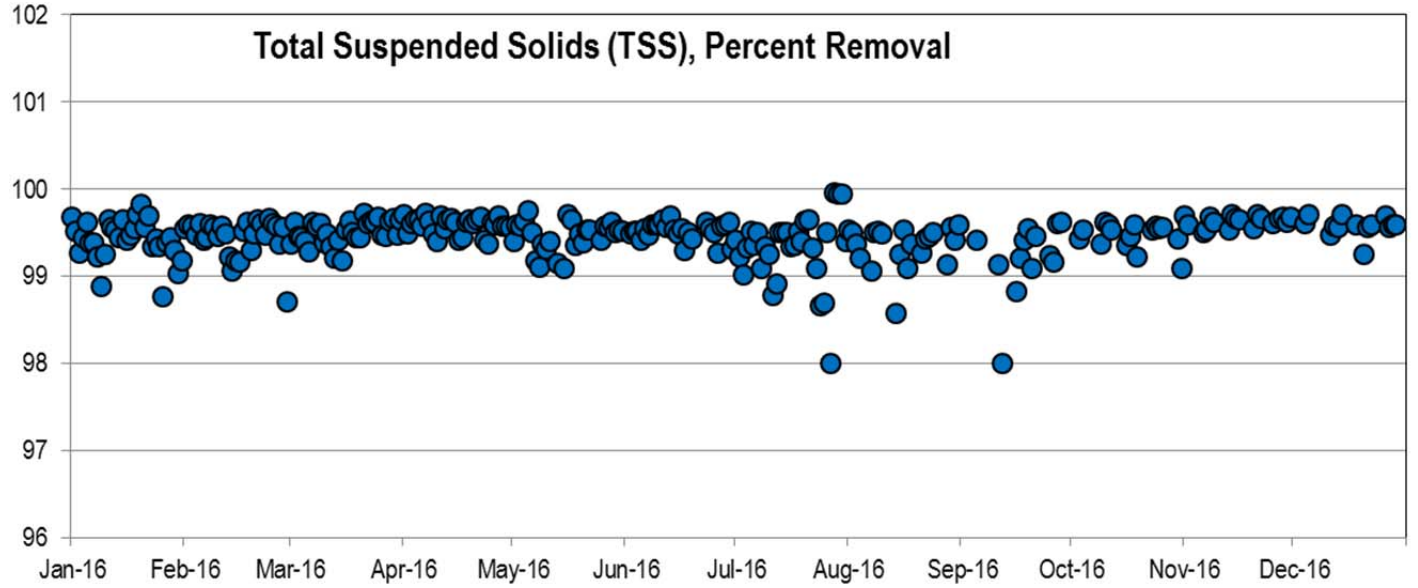
EFF-001 Total Suspended Solids (TSS) Percent Removal, %

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	99.7	99.5	99.4	99.7	99.4		99.4	99.5			99.7	
2	99.5	99.6	99.6	99.5	99.6	99.5	99.2	99.5			99.6	
3	99.3	99.6	99.5	99.6	99.6	99.5	99.0	99.4		99.4		
4	99.4	99.5	99.4	99.6	99.6	99.5	99.3	99.2		99.5		99.6
5	99.6	99.6	99.4	99.7	99.8	99.4	99.5		99.4			99.7
6	99.4	99.4	99.3	99.6	99.5	99.5	99.4				99.5	
7	99.4	99.4	99.6	99.7	99.2	99.5	99.5	99.1			99.5	
8	99.2	99.6	99.6	99.6	99.1	99.6	99.1	99.5			99.7	
9	98.9	99.6	99.6	99.5	99.4	99.6	99.3	99.5		99.4	99.6	
10	99.3	99.5	99.4	99.4	99.3	99.6	99.3	99.5		99.6		
11	99.6	99.6	99.5	99.7	99.4	99.7	98.8		99.1	99.6		99.5
12	99.6	99.5	99.3	99.5		99.6	98.9		98.0	99.5		99.6
13	99.5	99.2	99.2	99.6	99.1	99.7	99.5				99.5	99.6
14	99.4	99.1	99.4	99.7		99.5	99.5	98.6			99.7	99.7
15	99.6	99.2	99.2	99.6	99.1	99.5	99.5	99.2			99.7	
16	99.4	99.2	99.5	99.4	99.7	99.5	99.3	99.5	98.8	99.4	99.6	
17	99.5	99.5	99.6	99.4	99.6	99.3	99.4	99.1	99.2	99.5		
18	99.5	99.6	99.5	99.6	99.4	99.5	99.5	99.4	99.4	99.6		99.6
19	99.7	99.3	99.4	99.6	99.5	99.4	99.4		99.5	99.2		
20	99.8	99.5	99.4	99.6	99.4		99.6		99.1		99.5	99.3
21	99.6	99.7	99.7	99.6	99.5		99.6	99.3	99.5		99.7	99.6
22	99.7	99.6	99.6	99.7	99.5		99.3	99.4			99.7	99.6
23	99.3	99.5	99.6	99.4		99.6	99.1	99.5		99.5		
24	99.4	99.7	99.6	99.4		99.5	98.7	99.5		99.6		
25	99.3	99.6	99.7	99.6	99.4	99.5	98.7		99.2	99.5	99.6	
26	98.8	99.6	99.5	99.6	99.6	99.3	99.5		99.2	99.6		99.7
27	99.4	99.4	99.5	99.7	99.6	99.6	98.0		99.6		99.7	99.6
28	99.4	99.6	99.6	99.6	99.6	99.6	100.0	99.1	99.6		99.7	99.6
29	99.3	98.7	99.7	99.6	99.5	99.6	99.9	99.6			99.6	99.6
30	99.0		99.5	99.6	99.5	99.3	99.9	99.4		99.4	99.7	
31	99.2		99.6		99.5		99.4	99.6		99.1		


INF-001 TSS, mg/L
1600
1400
1200
1000
800
600
400
200
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16


EFF-001 TSS, mg/L
8
7
6
5
4
3
2
1
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


EFF-001 TSS Load, lbs/day
350
300
250
200
150
100
50
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


Total Suspended Solids (TSS), Percent Removal
102
101
100
99
98
97
96
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

INF-001 pH Daily Maximum, SU

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.5	7.68	7.88	7.72	7.68	7.57	7.54	7.63	7.72	7.29	7.54	7.74
2	7.62	7.7	7.86	7.74	7.76	7.63	7.44	7.6	7.65	7.31	7.34	7.71
3	8.24	7.66	7.86	7.71	7.7	7.61	7.57	7.6	7.75	7.3	7.73	7.71
4	7.54	7.78	7.82	7.72	7.66	7.61	7.54	7.55	7.77	7.19	7.72	7.7
5	7.61	7.7	7.8	7.74	7.72	7.59	7.55	7.58	7.77	7.37	7.74	7.68
6	7.59	7.78	7.76	7.72	7.43	7.54	7.54	7.71	7.76	7.32	7.74	7.7
7	7.56	7.58	7.78	7.41	7.75	7.6	7.52	7.54	7.56	7.43	7.69	7.68
8	7.63	7.71	7.82	7.76	7.69	7.57	7.55	7.38	7.73	7.39	7.66	7.66
9	7.61	7.77	7.78	7.74	7.72	7.54	7.57	7.61	7.69	7.36	7.65	7.58
10	7.56	7.74	7.84	7.69	7.78	7.52	7.5	7.5	7.76	7.19	7.73	7.56
11	7.51	7.79	7.58	7.71	7.82	7.56	7.53	7.51	7.63	7.32	7.64	7.54
12	7.67	7.72	7.82	7.77	7.7	7.65	7.63	7.42	7.68	7.39	7.42	7.52
13	8.06	7.72	7.78	7.74	7.37	7.63	7.85	7.42	7.75	7.17	7.64	7.45
14	7.77	7.77	7.57	7.75	7.68	7.59	7.77	7.85	7.62	6.98	7.65	7.57
15	7.78	7.67	7.78	7.82	7.69	7.6	8.05	7.4	7.69	7.31	7.63	7.44
16	7.79	7.77	7.78	7.72	7.72	7.62	7.62	7.38	7.76	7.36	7.55	7.44
17	7.76	7.75	7.77	7.69	7.74	7.6	7.6	7.57	7.69	7.32	7.68	7.44
18	7.58	7.81	7.74	7.57	7.77	7.66	7.59	7.44	7.66	7.3	7.6	7.44
19	7.72	7.77	7.55	7.78	7.74	7.57	8.38	7.48	7.67	7.93	7.6	7.48
20	7.73	7.85	7.76	7.74	7.86	7.58	7.78	7.59	7.65	7.32	7.6	7.47
21	7.69	7.81	7.54	7.74	7.81	7.59	8.08	7.54	7.63	7.31	7.52	7.34
22	7.83	7.85	7.75	7.73	7.73	7.64	7.64	7.49	7.37	7.26	7.54	7.33
23	7.84	7.79	7.71	7.77	7.76	7.58	7.45	7.58	7.42	7.28	7.41	7.35
24	7.79	7.88	7.71	7.74	7.8	7.65	7.7	7.52	7.34	7.29	7.41	7.23
25	7.76	7.84	7.3	7.75	7.66	7.62	8	7.45	7.32	7.27	7.62	7.44
26	7.82	7.91	7.69	7.76	7.62	7.58	7.83	7.25	7.28	7.29	7.74	7.36
27	7.97	7.88	7.68	7.41	7.62	7.41	7.64	10.37	7.16	7.26	7.77	7.35
28	7.87	7.81	7.64	7.82	7.5	7.59	7.62	7.67	7.41	7.28	7.77	7.31
29	7.71	7.84	7.72	7.78	7.62	7.55	7.64	7.7	7.41	7.51	7.74	7.36
30	7.61		7.73	7.76	7.67	7.55	7.58	7.77	7.53	7.57	7.84	7.31
31	7.74		7.69		7.64		7.58	7.44		7.45		7.32

INF-001 pH Daily Minimum, SU

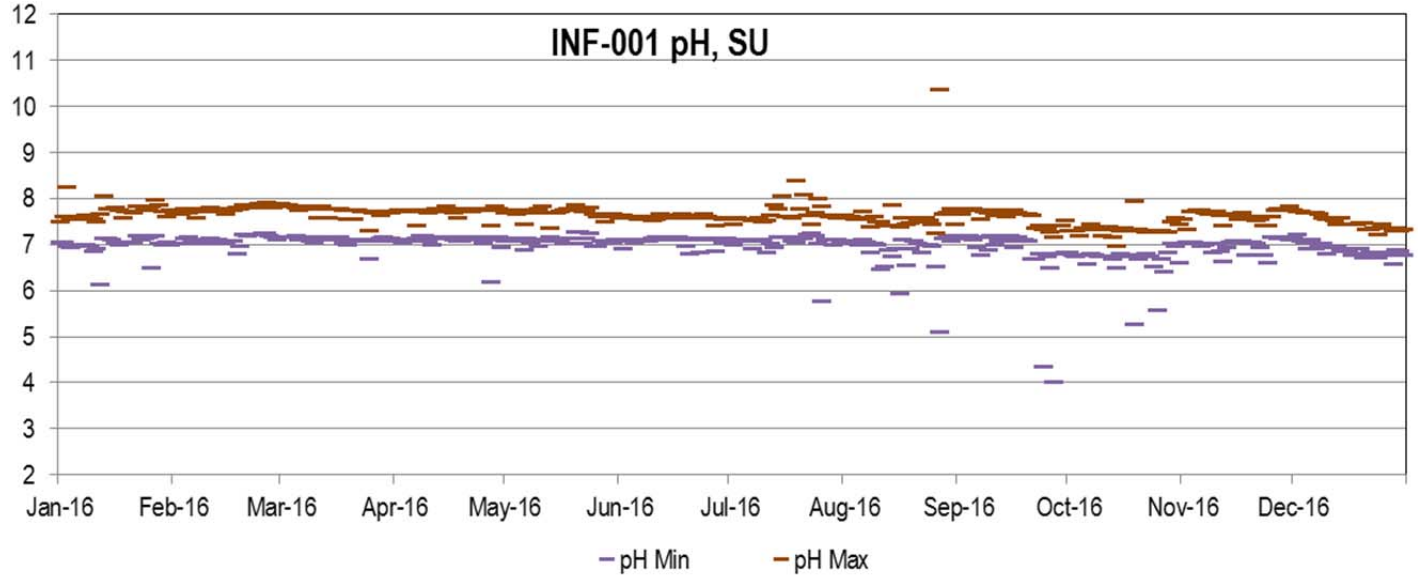
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.06	7.01	7.15	7.08	7.07	7.09	7.1	7.06	7.16	6.82	7.01	7.16
2	7.05	7.01	7.17	7.12	7.09	6.92	7	7.06	7.13	6.76	7.06	7.21
3	6.97	7.02	7.16	7.06	7.08	7.08	7.09	7.08	7.2	6.73	7.05	7.07
4	6.94	7.13	7.15	7.11	7.13	7.1	7.1	7.01	7.19	6.77	7.06	7.05
5	6.99	7.16	7.19	7.09	7.1	7.06	7.09	6.99	7.12	6.76	7.02	6.92
6	6.96	7.07	7.12	7.12	6.87	7.07	7.07	7.11	6.93	6.58	6.98	7.12
7	6.99	7.03	7.12	7.13	7.13	7.1	6.92	7.06	6.77	6.8	6.99	6.92
8	6.99	7.02	7.15	7.18	7.05	7.1	7.1	6.84	7.17	6.78	7.02	6.99
9	6.97	7.1	7.08	7.18	7.11	7.08	7.1	7.01	6.89	6.75	6.84	7.02
10	6.86	7.02	7.05	7.09	6.97	7.14	7.08	6.99	7.19	6.75	7.03	6.79
11	6.91	7.13	7.17	7	7.09	7.16	6.82	6.46	6.99	6.74	6.86	6.93
12	6.13	7.12	7.15	7.14	7.08	7.13	7.03	6.52	7.09	6.75	6.62	6.93
13	7.14	7.11	7.14	7.16	7.17	7.1	6.95	6.87	7.1	6.69	6.93	6.96
14	7.13	7.07	7.17	7.15	7.14	7.15	7.17	6.75	7.08	6.48	7.06	6.85
15	7.11	7.03	7.12	7.15	7.11	7.15	7.15	6.9	7.18	6.79	7.07	6.92
16	7.05	7.08	7.14	7.16	7.1	7.11	7.15	5.94	6.95	6.75	7.07	6.89
17	7	7.09	7.16	7.1	7.03	7.15	7.15	7.1	7.17	6.75	7.08	6.76
18	7.04	6.81	7.03	7.08	7.14	7.14	7.09	6.55	7.09	6.76	6.77	6.81
19	7.04	6.97	6.99	7.09	7.03	6.97	7.05	6.91	7.1	5.26	7.01	6.92
20	7.06	7.22	7.11	7.15	7.28	6.79	7.14	7.08	7.07	6.69	7.04	6.72
21	7.06	7.19	7.09	7.16	7.26	7.12	7.14	7.01	6.7	6.77	7.01	6.8
22	7.18	7.23	7.12	7.16	7.03	7.14	7.22	6.83	6.68	6.79	6.94	6.83
23	7.1	7.22	7.12	7.15	7.14	6.84	7.25	6.99	6.79	6.74	6.77	6.78
24	7.14	7.23	7.07	7.12	7.24	7.13	7.2	7	4.36	6.53	6.6	6.72
25	7.17	7.24	6.69	7.03	6.97	7.13	7.03	6.96	6.74	5.56	7.17	6.76
26	6.48	7.24	7.08	7.11	6.98	7.11	5.76	6.51	6.5	6.69	7.17	6.77
27	7.19	7.19	7.07	6.19	7.08	6.86	7.12	5.1	4.01	6.41	7.13	6.83
28	7.01	7.17	7.14	7.17	7.04	7.11	7.11	7.14	6.81	6.83	7.17	6.59
29	7	7.1	7.15	7.15	7.05	7.06	6.99	7.17	6.8	7.02	7.17	6.88
30	7.04		7.1	6.95	7.04	7.13	7.12	7.07	6.83	6.98	7.12	6.85
31	7		7.14		7.11		7.07	7.19		6.6		6.78

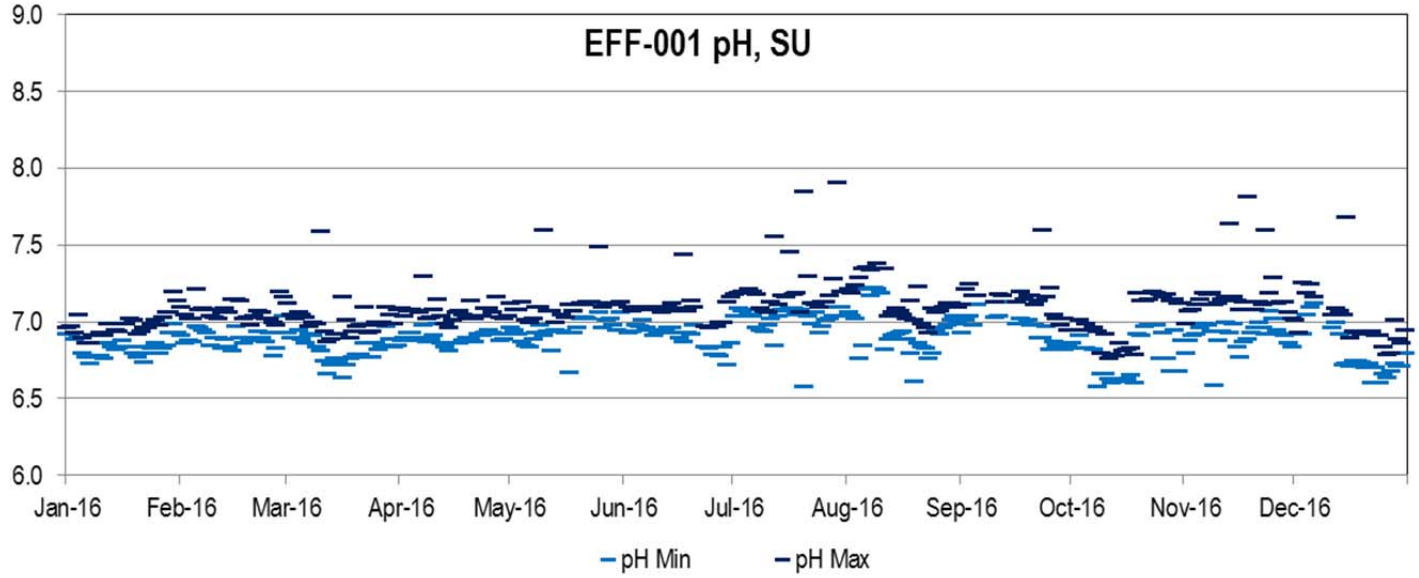
EFF-001 pH Daily Maximum, SU

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.96	7.1	7.12	7.09	7.12		7.18	7.21	7.11	6.95	6.99	7.01
2	6.97	7.05	7.05	7.04	7.08	7.1	7.19	7.19	7.21		7.07	6.93
3	6.93	7.02	7.02	7.07	7.08	7.07	7.2	7.24	7.25	7.01	7.08	7.26
4	7.05	7.02	7.06	7.08	7.13	7.08	7.2	7.29	7.17	6.95	7.11	7.19
5	6.9	7.21	7.05	7.07	7.01	7.09	7.21	7.35	7.17	6.99	7.15	7.25
6	6.86	7.08	7.03	7.06	7	7.1	7.2	7.36			7.19	7.16
7	6.86	7.09	6.97	7.3	7.02	7.1	7.18	7.34		6.96	7.18	
8	6.91	7.08	7	7.02	7.1	7.08	7.09	7.35		6.94	7.19	
9	6.91	7.04	6.99	7.03	7.1	7.1	7.07	7.38		6.8	7.11	
10	6.93	7.03	7.59	7.08	7.6	7.08	7.06	7.35	7.13	6.92	7.12	
11	6.91	7.02	6.94	7.15	7.07	7.06	7.13	7.35	7.18	6.76	7.15	7.05
12	6.99	7.06	6.87	7.04	7.07	7.08	7.56	7.04	7.17	6.79	7.16	7.09
13	6.99	7.09	6.89	6.99	7	7.1	7.11	7.06		6.78	7.64	7.07
14	6.95	7.06	6.92	6.96		7.12	7.17	7.09		6.86	7.16	7.05
15	6.94	7.15	6.92	7.01	7.05	7.09	7.16	7.07		6.81	7.14	7.68
16	6.99	7.15	7.16	7.06	7.03	7.07	7.46	7.05	7.13	6.82	7.08	6.9
17	6.99	7.14	7.01	7.07	7.11	7.44	7.18	7.02	7.2	6.83	7.13	6.94
18	7.02	7.02	6.9	7.05	7.07	7.07	7.19	7.14	7.15	6.79	7.82	6.93
19	7.01	7.03	6.94	7.02	7.11	7.14	7.06	7.01	7.17	7.19	7.08	6.92
20	6.92	6.98	6.97	7.14	7.12	7.1	7.85	7.23	7.17	7.14	7.08	6.92
21	6.94	7.04	6.98	7.02	7.11		7.3	6.99	7.11	7.14	7.13	6.92
22	6.96	7.07	7.1	7.04	7.13		7.12	6.96	7.14	7.15	7.11	6.94
23	6.96	7.06	6.93	7.04	7.13	6.97	7.11	6.93	7.6	7.2	7.6	6.91
24	6.99	7.02	6.94	7.09		6.96	7.1	7.09	7.16	7.19	7.19	6.91
25	7.01	7.02	7	7.09	7.49	6.97	7.13	7.06	7.22	7.18	7.29	6.84
26	6.98	7	6.98	7.06	7.1	6.97	7.13	7.07	7.05	7.16	7.12	6.79
27	7.03	6.98	7	7.16	7.11	7	7.17	7.1	7.02	7.18	7.13	6.8
28	7.06	7.2	7.1	7.03	7.12	7	7.28	7.12	6.98	7.14	7.13	7.01
29	7.06	7.16	7.05	7.02	7.11	7.13	7.91	7.12	7.02	7.15	7.06	6.89
30	7.2		6.99	7.04	7.12	7.16	7.2	7.11	6.95	7.12	7.02	6.86
31	7.14		7.08		7.13		7.2	7.1		7.12		6.95

EFF-001 pH Daily Minimum, SU

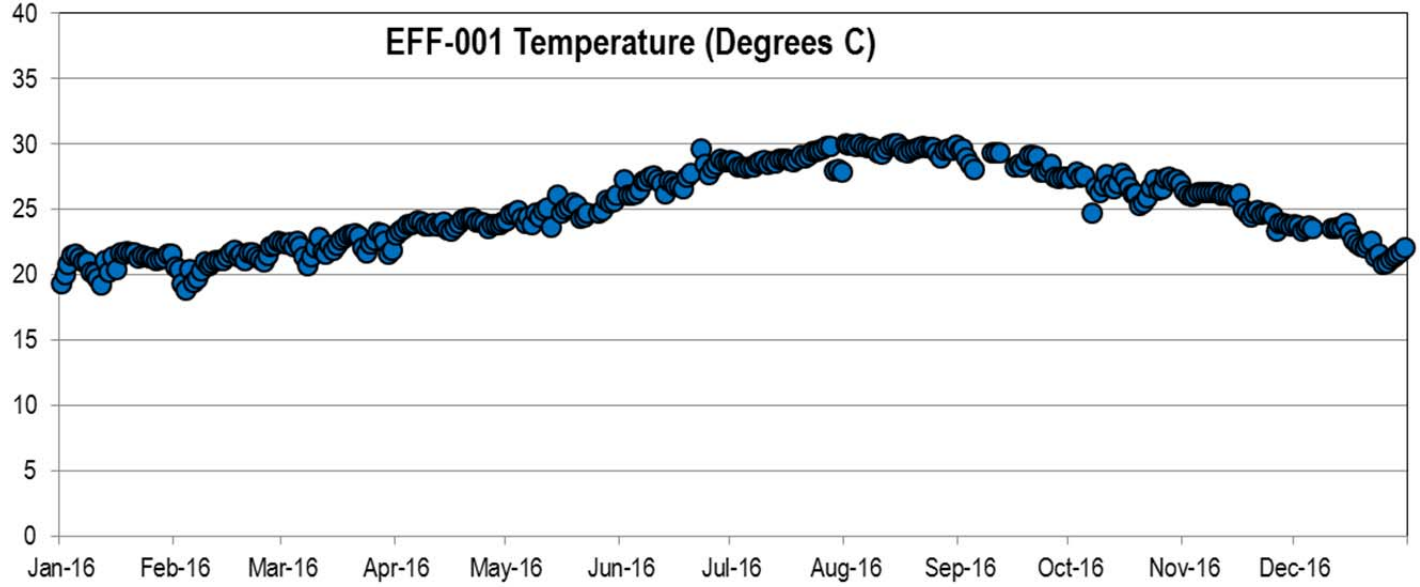
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.92	6.91	6.93	6.88	6.96		7.04	7.06	6.93	6.86	6.8	6.92
2	6.92	6.86	6.9	6.9	6.95	6.93	7.09	7.04	7.01		6.88	6.92
3	6.89	6.88	6.9	6.93	6.92	6.94	7.07	7.02	7.04	6.91	6.91	6.92
4	6.9	6.87	6.95	6.93	6.87	6.98	7.08	6.76	6.98	6.83	6.92	7.05
5	6.8	6.97	6.89	6.9	6.85	6.97	7.05	6.85	7.11	6.83	6.96	7.1
6	6.77	6.96	6.86	6.88	6.84	7.01	7.04	7.21			6.99	7.12
7	6.73	6.95	6.92	6.98	6.89	6.96	6.96	7.17		6.82	6.98	
8	6.78	6.93	6.91	6.87	6.93	6.95	6.95	7.22		6.58	6.94	
9	6.78	6.85	6.84	6.89	6.98	6.91	6.94	7.21		6.66	6.59	
10	6.78	6.9	6.81	6.91	6.91	6.93	6.98	7.19	7.03	6.66	6.88	
11	6.76	6.9	6.75	6.99	6.94	6.95	7.02	6.82	7.04	6.63	6.94	6.96
12	6.86	6.83	6.66	6.86	6.81	6.94	6.85	6.89	7.13	6.6	7	7
13	6.84	6.89	6.72	6.84	6.95	6.96	7.04	6.91		6.62	6.93	6.92
14	6.82	6.84	6.76	6.81		6.96	7.08	6.92		6.61	6.99	6.72
15	6.83	6.81	6.74	6.86	6.94	6.93	7.07	6.93		6.63	6.84	6.73
16	6.88	6.97	6.64	6.86	6.93	6.9	7.09	6.94	6.99	6.63	6.77	6.71
17	6.84	6.9	6.72	6.86	6.67	6.87	7.09	6.89	7.02	6.65	6.87	6.75
18	6.84	6.86	6.76	6.88	6.93	6.93	7.05	6.8	6.99	6.6	6.89	6.75
19	6.8	6.9	6.77	6.9	6.96	6.92	7.08	6.61	7.01	6.92	6.93	6.74
20	6.77	6.88	6.79	6.89	7.02	6.98	6.58	6.86	6.98	6.91	6.96	6.7
21	6.8	6.9	6.79	6.87	7.03		7.04	6.84	6.98	6.97	7	6.73
22	6.74	6.94	6.86	6.92	7.02		6.99	6.83	6.9	6.98	6.96	6.6
23	6.84	6.9	6.77	6.91	7.12	6.84	7.06	6.76	6.9	6.98	6.92	6.7
24	6.83	6.87	6.77	6.93		6.83	6.93	6.8	6.97	6.98	7.07	6.6
25	6.86	6.93	6.86	6.95	7.06	6.79	6.97	6.94	6.82	6.76	7.02	6.66
26	6.8	6.78	6.82	6.93	6.96	6.79	7.01	6.92	6.87	6.93	6.95	6.64
27	6.83	6.83	6.85	6.92	7.01	6.78	7.02	6.96	6.85	6.76	6.92	6.68
28	6.85	6.93	6.97	6.88	7.02	6.84	7.04	6.98	6.82	6.68	6.91	6.73
29	6.93	7.04	6.89	6.89	6.98	6.72	7.1	7.01	6.82	6.95	6.86	6.71
30	6.99		6.84	6.92	6.95	6.86	7.1	7.04	6.85	6.68	6.84	6.71
31	6.93		6.85		7.06		7.04	6.99		6.88		6.8

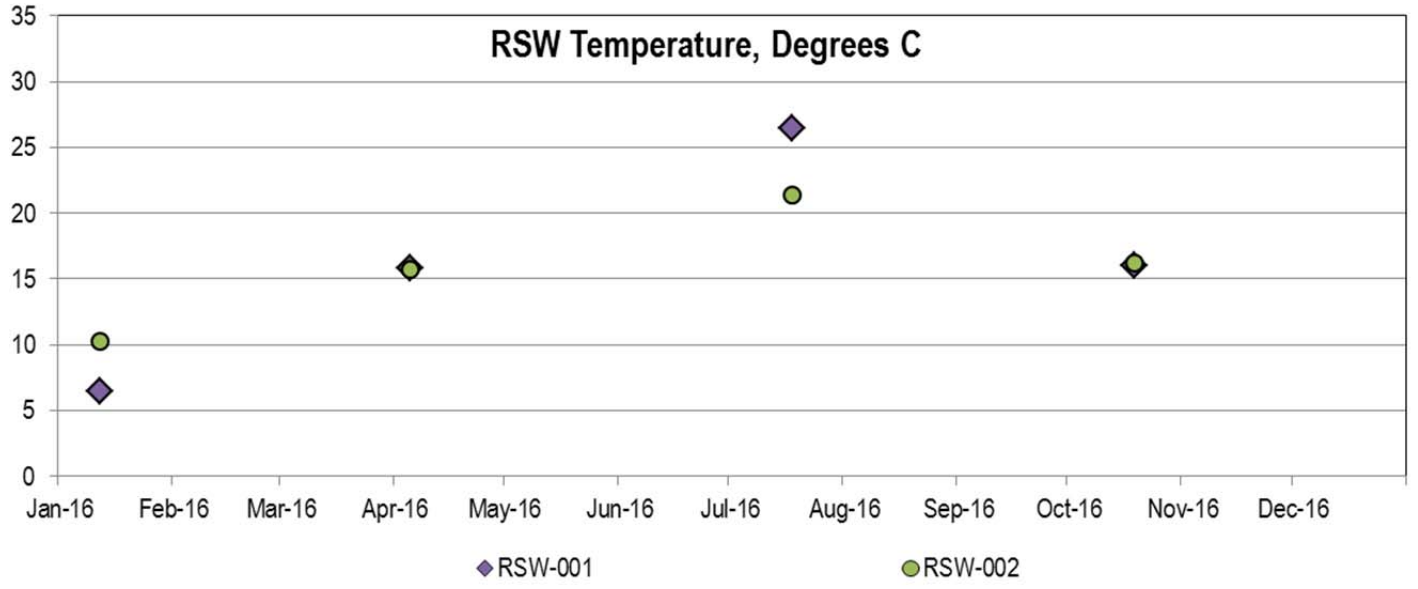

INF-001 pH, SU
12
11
10
9
8
7
6
5
4
3
2
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
pH Min
pH Max


EFF-001 pH, SU
9.0
8.5
8.0
7.5
7.0
6.5
6.0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
pH Min
pH Max

EFF-001 Temperature, Degrees C

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	19.3	20.6	22.5	23.0	24.1		28.7	30.0	29.5	27.4	26.4	23.8
2	20.0	20.4	22.4	23.3	24.6	27.3	28.6	29.9	29.6		26.1	23.7
3	20.8	19.3	22.5	23.5	24.7	26.1	28.3	29.9	28.9	27.9	26.0	23.3
4	21.5	18.8	22.2	23.8	24.9	26.1	28.3	29.8	28.4	27.5	26.1	23.5
5	21.6	20.4	22.6	23.8	24.3	26.2	28.2	30.0	28.1	27.6	26.3	23.7
6	21.3	19.4	22.2	23.9	23.9	26.5	28.3	29.8			26.3	23.5
7	21.0	19.7	21.4	24.1	24.4	27.2	28.3	29.7		24.7	26.3	
8	21.0	20.3	20.7	24.0	23.8	27.2	28.5	29.7		26.7	26.3	
9	20.2	21.0	21.4	23.7	24.7	27.5	28.6	29.6		26.3	26.3	
10	20.1	20.7	22.1	23.7	24.4	27.6	28.7	29.3	29.3	26.8	26.3	
11	19.7	20.9	22.8	23.9	24.9	27.3	28.4	29.2	29.3	27.7	26.1	23.5
12	19.2	21.1	21.8	23.7	25.1	27.0	28.6	29.6	29.3	26.9	26.1	23.5
13	21.1	21.1	21.6	23.9	23.6	26.2	28.5	29.9		26.6	26.1	23.6
14	20.2	21.1	22.3	24.0		27.2	28.8	30.0		27.0	26.0	23.6
15	21.4	21.4	21.9	23.4	26.1	27.1	28.8	30.0		27.8	25.9	23.9
16	20.4	21.7	22.3	23.3	24.7	26.8	28.8	29.7	28.3	27.4	26.2	23.2
17	21.7	21.9	22.7	23.6	25.0	26.8	28.7	29.4	28.4	26.7	25.0	22.7
18	21.6	21.4	22.8	23.9	25.2	26.6	28.6	29.3	28.3	26.2	24.7	22.4
19	21.8	21.6	23.0	24.2	25.5	27.5	28.8	29.5	28.6	26.2	24.4	22.2
20	21.7	21.1	23.0	24.3	25.3	27.8	29.1	29.6	29.1	25.3	24.7	22.1
21	21.7	21.7	23.1	24.3	24.3		28.9	29.7	29.1	25.5	24.9	22.4
22	21.3	21.7	22.9	24.3	24.4		29.1	29.8	29.0	25.9	24.6	22.6
23	21.5	21.4	22.1	24.0	24.7	29.6	29.4	29.7	27.9	26.7	24.7	21.4
24	21.4	21.2	21.7	24.0		28.4	29.4	29.7	27.9	27.3	24.7	21.6
25	21.3	21.0	22.4	23.9		27.7	29.5	29.7	28.2	26.5	24.5	20.8
26	21.3	21.5	22.7	23.5	24.7	28.2	29.6	29.3	28.4	26.6	23.3	20.9
27	21.1	22.2	23.2	23.8	24.9	28.4	29.8	28.9	27.5	27.4	23.9	21.2
28	21.2	22.3	23.1	23.8	25.7	28.8	29.8	29.5	27.4	27.5	23.9	21.4
29	21.3	22.6	22.6	23.8	25.5	28.6	28.0	29.6	27.5	27.2	23.8	21.6
30	21.6		21.6	24.0	25.6	28.6	28.1	29.5	27.5	27.3	23.7	21.8
31	21.6		21.9		26.1		27.9	29.9		27.0		22.1


EFF-001 Temperature (Degrees C)
40
35
30
25
20
15
10
5
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

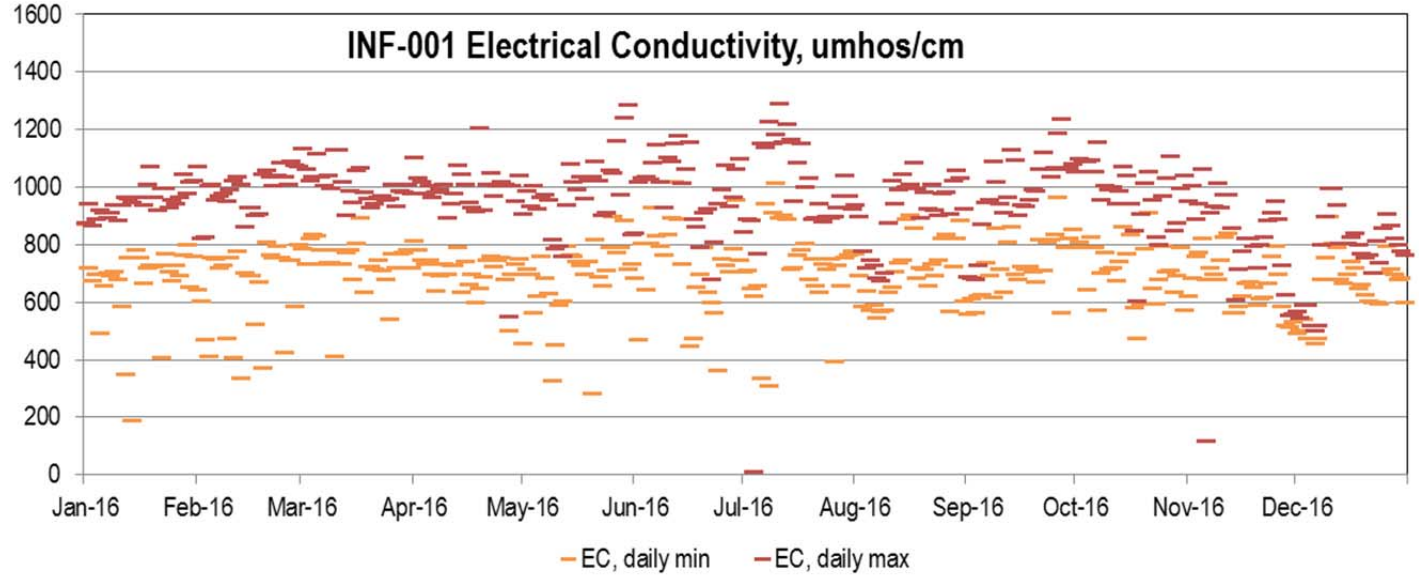

RSW Temperature, Degrees C
35
30
25
20
15
10
5
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001
RSW-002

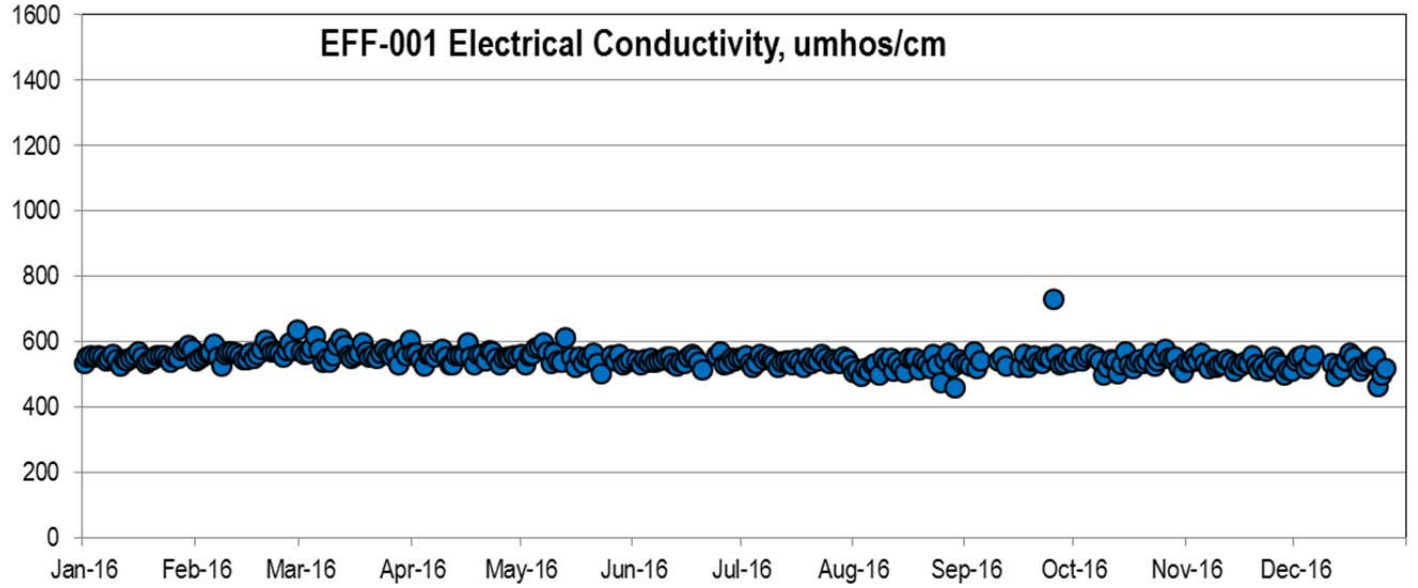
INF-001 Electrical Conductivity, µmhos/cm

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	873	1072	1134	1102	904	841	844	937	688	1052	949	568
2	940	821	1061	1031	986	1018	890	898	682	1097	1005	543
3	864	827	1020	1019	935	1032	885	778	679	1088	889	589
4	887	1006	1034	978	1005	1034	620	720	727	1090	941	591
5	920	1007	1116	1004	923	1025	769	747	869	1095	1064	518
6	910	955	1036	965	964	1086	1150	730	944	1052	681	500
7	892	967	1006	981	972	1145	1137	685	953	1156	911	518
8	912	976	1040	993	954	1019	1225	673	1087	957	934	799
9	937	952	997	1007	819	929	1151	703	1017	1006	1012	896
10	886	992	1128	893	786	1103	1182	876	941	992	929	997
11	937	1021	1129	943	795	1087	1289	1024	909	998	972	997
12	962	1034	1019	977	757	1153	1155	943	963	943	973	937
13	960	1008	901	1078	937	1179	1219	993	1129	987	858	803
14	948	863	989	1044	1079	1014	1166	1045	1094	1071	608	802
15	963	927	947	1011	1016	1063	953	998	902	1039	714	804
16	966	929	1057	947	992	1154	1086	1009	939	940	776	828
17	936	902	1065	930	1034	890	1152	1083	933	848	821	839
18	1009	904	981	917	960	863	999	995	956	603	823	799
19	1070	1046	959	1204	1022	790	1033	891	993	908	793	769
20	962	1057	928	918	1036	912	889	980	985	1014	718	755
21	921	1036	941	1010	1091	922	891	926	1061	1053	799	764
22	995	1006	963	1047	1024	677	943	1007	1119	957	824	702
23	996	1038	969	971	900	808	879	919	1064	826	885	813
24	929	1084	957	1006	911	940	899	903	1036	799	913	739
25	955	1035	959	1017	1059	989	891	978	1066	969	951	858
26	942	1008	1008	1010	1049	1076	897	982	1188	1032	891	904
27	963	1088	934	549	1160	934	929	904	1237	1105	729	866
28	1045	1078	985	1005	973	965	969	1023	1060	848	626	820
29	978	1070	980	951	1242	1063	1040	1059	1068	874	554	801
30	1019		1010	1042	1286	1098	969	1030	1081	997	559	777
31	1021		977		833		926	925		1038		762

EFF-001 Electrical Conductivity, µmhos/cm

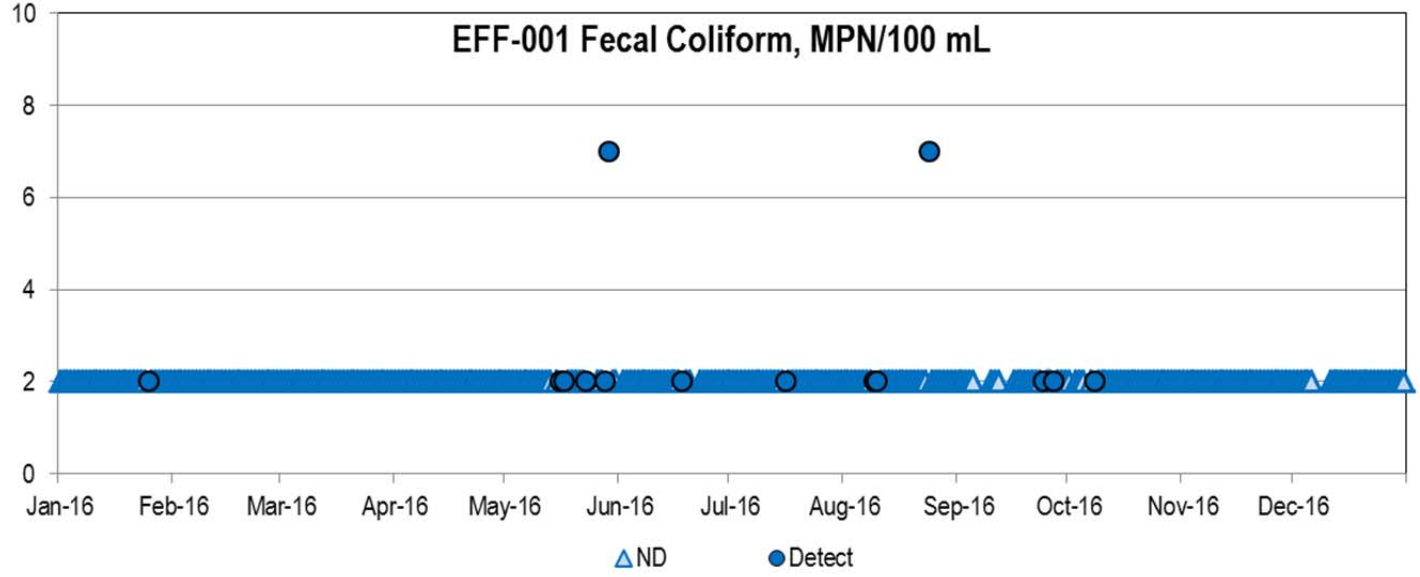
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	533	542	567	565	560		547	504	532	554	537	542
2	554	548	562	565	528	540	557	514	524		536	553
3	555	557	565	546	557	527	534	492	567	539	552	556
4	553	566	580	526	559	545	521	517	517	552	542	518
5	558	569	614	560	579	536	532	508	540	560	563	530
6	551	593	574	561	583	549	562	527			532	558
7	539	553	536	553	596	536	546	531		554	518	
8	548	526	549	568	567	541	551	499		541	544	
9	561	561	537	576	531	544	543	550		496	521	
10	544	567	558	554	563	553	535	538	541	520	528	
11	524	567	586	528	539	554	520	549	553	545	530	532
12	544	566	608	528	537	532	536	508	523	542	546	494
13	539	555	589	557	610	524	541	537		501	535	524
14	550	544	558	557		537	539	519		530	509	513
15	558	546	548	556	553	532	527	505		568	527	541
16	570	565	556	595	522	553	543	550	522	530	525	564
17	553	549	563	553	553	560	536	543	562	517	535	553
18	532	559	597	529	531	551	519	549	522	538	531	521
19	542	575	567	562	554	538	549	512	541	546	555	511
20	543	603	551	562	548	512	531	541	557	532	527	525
21	555	583	555	542	564		544	531	538	540	514	537
22	555	569	549	571	532		540	516	532	564	523	541
23	558	570	566	569	503		560	561	554	526	511	554
24	549	563	574	549		558	548	530	550	540	522	463
25	538	551	566	528		568	532	473	728	558	551	496
26	553	572	557	548	555	528	544	543	561	576	538	518
27	547	594	563	554	541	533	538	566	527	549	529	
28	573	572	527	550	559	548	531	520	533	545	497	
29	574	634	576	558	530	542	554	457	545	552	513	
30	587		555	551	538	548	543	544	537	516	508	
31	576		602		546		524	531		504		


INF-001 Electrical Conductivity, umhos/cm
1600
1400
1200
1000
800
600
400
200
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
EC, daily min
EC, daily max


EFF-001 Electrical Conductivity, umhos/cm
1600
1400
1200
1000
800
600
400
200
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

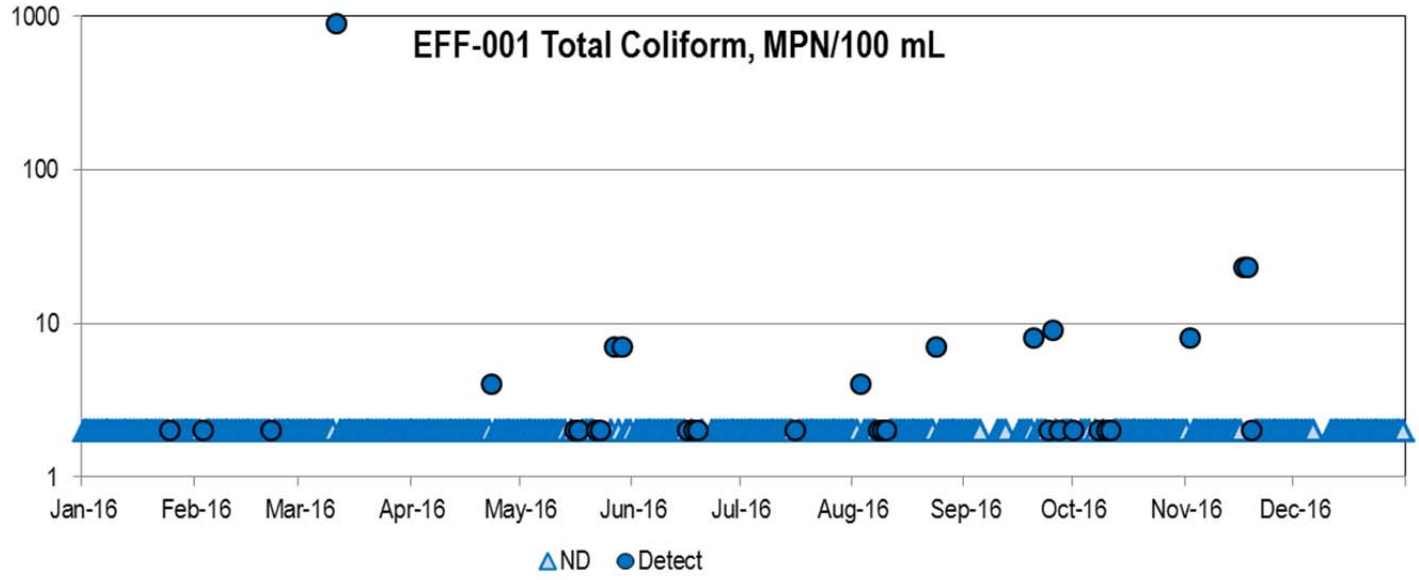
EFF-001 Fecal Coliform, MPN/100mL

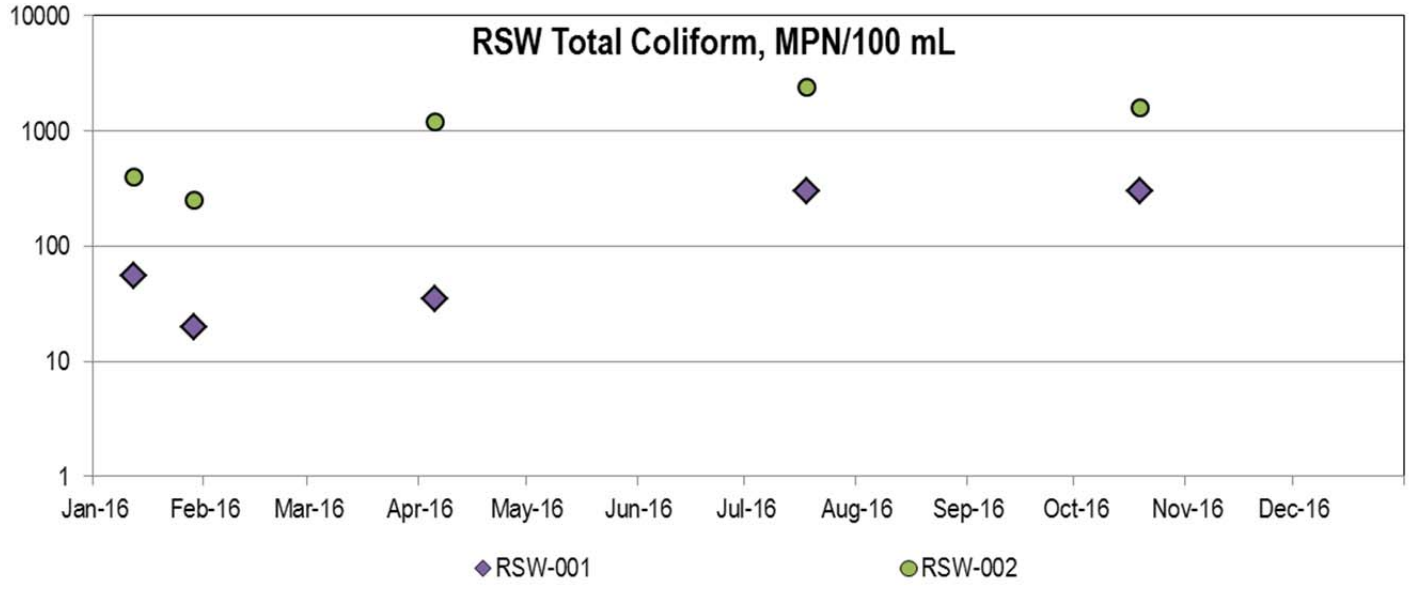
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2
2	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2
3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
6	<2	<2	<2	<2	<2	<2	<2	<2			<2	<2
7	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	
8	<2	<2	<2	<2	<2	<2	<2	<2		2	<2	
9	<2	<2	<2	<2	<2	<2	<2	2		<2	<2	
10	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	<2	
11	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
12	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
13	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2
14	<2	<2	<2	<2		<2	<2	<2		<2	<2	<2
15	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2
16	<2	<2	<2	<2	2	<2	2	<2	<2	<2	<2	<2
17	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2	<2
18	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2
19	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
21	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2
22	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2
23	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2	<2
24	<2	<2	<2	<2		<2	<2	7	2	<2	<2	<2
25	2	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2
26	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
27	<2	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	<2
28	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2	<2
29	<2	<2	<2	<2	7	<2	<2	<2	<2	<2	<2	<2
30	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
31	<2		<2		<2		<2	<2		<2		<2


EFF-001 Fecal Coliform, MPN/100 mL
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

EFF-001 Total Coliform, MPN/100mL

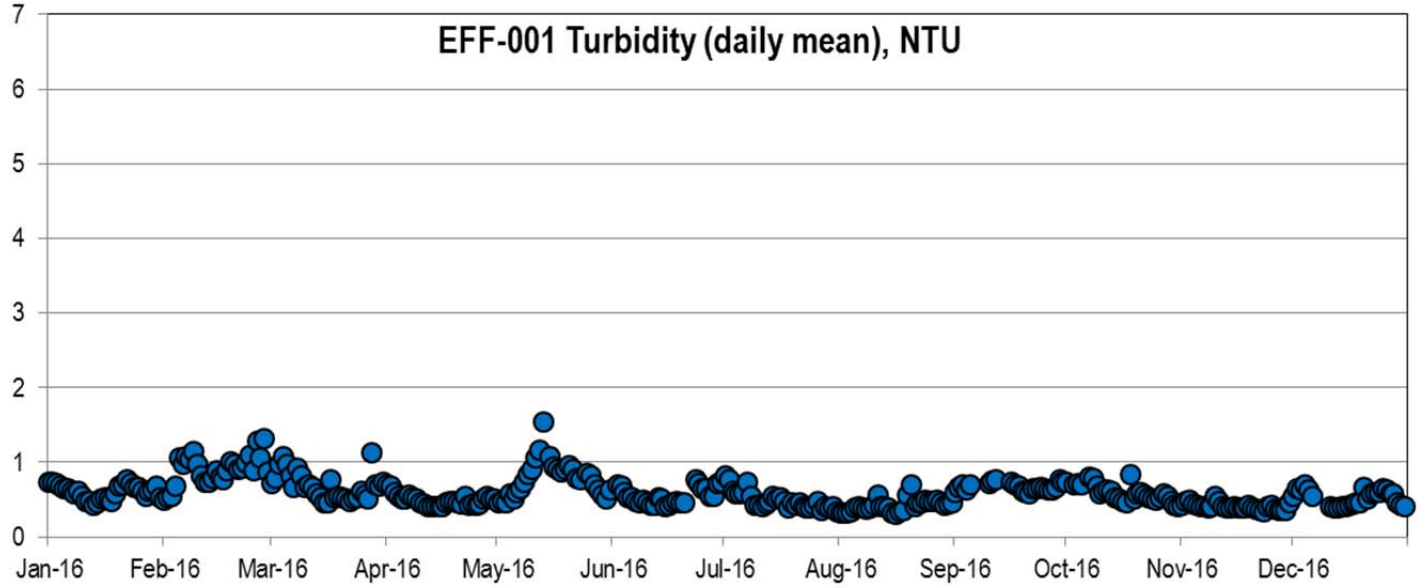
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	<2	<2	<2	<2	<2		<2	<2	<2	2	<2	<2
2	<2	<2	<2	<2	<2	<2	<2	<2	<2		8	<2
3	<2	2	<2	<2	<2	<2	<2	4	<2	<2	<2	<2
4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
6	<2	<2	<2	<2	<2	<2	<2	<2			<2	<2
7	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	
8	<2	<2	<2	<2	<2	<2	<2	2		2	<2	
9	<2	<2	<2	<2	<2	<2	<2	2		<2	<2	
10	<2	<2	<2	<2	<2	<2	<2	2	<2	2	<2	
11	<2	<2	900	<2	<2	<2	<2	<2	<2	2	<2	<2
12	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
13	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2
14	<2	<2	<2	<2		<2	<2	<2		<2	<2	<2
15	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2
16	<2	<2	<2	<2	2	2	2	<2	<2	<2	<2	<2
17	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	23	<2
18	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	23	<2
19	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	2	<2
20	<2	<2	<2	<2	<2	<2	<2	<2	8	<2	<2	<2
21	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2
22	<2	2	<2	<2	2		<2	<2	<2	<2	<2	<2
23	<2	<2	<2	4	2	<2	<2	<2	<2	<2	<2	<2
24	<2	<2	<2	<2		<2	<2	7	2	<2	<2	<2
25	2	<2	<2	<2		<2	<2	<2	9	<2	<2	<2
26	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
27	<2	<2	<2	<2	7	<2	<2	<2	2	<2	<2	<2
28	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
29	<2	<2	<2	<2	7	<2	<2	<2	<2	<2	<2	<2
30	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
31	<2		<2		<2		<2	<2		<2		<2

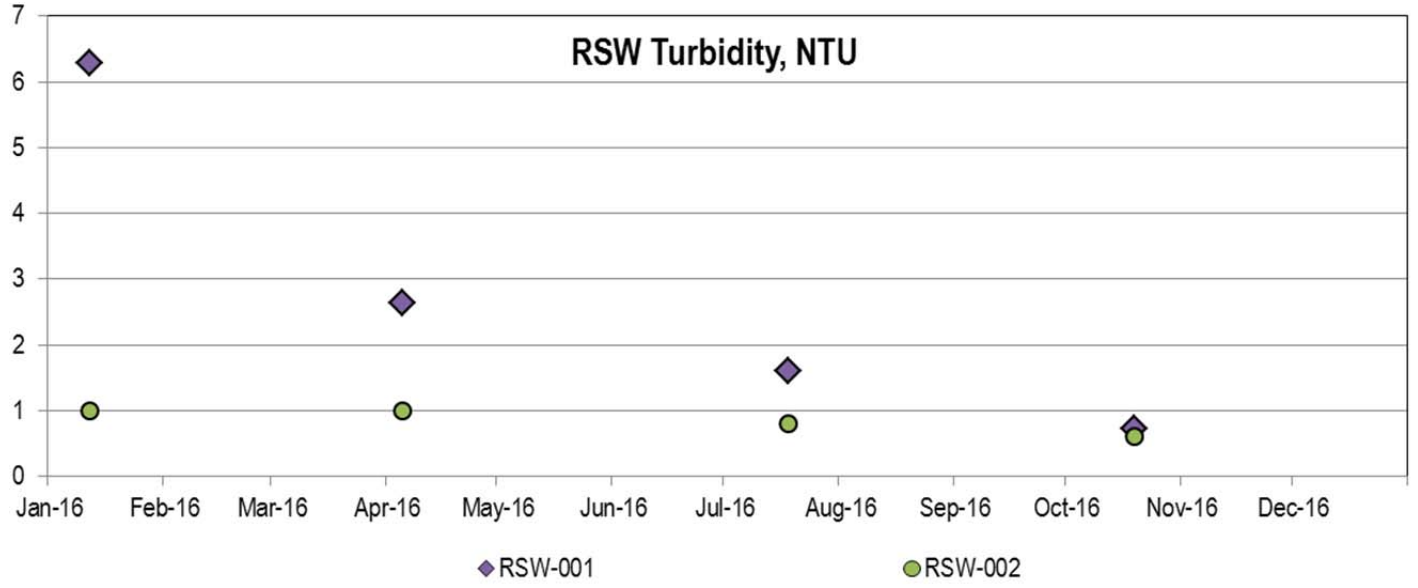

EFF-001 Total Coliform, MPN/100 mL
1000
100
10
1
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


RSW Total Coliform, MPN/100 mL
10000
1000
100
10
1
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001
RSW-002

EFF-001 Turbidity, NTU

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.73	0.49	0.72	0.7	0.46		0.81	0.32	0.59	0.725	0.42	0.54
2	0.73	0.53	0.79	0.68	0.47	0.69	0.76	0.32	0.67		0.48	0.65
3	0.71	0.55	0.97	0.6	0.45	0.675	0.61	0.32	0.7	0.69	0.496	0.63
4	0.68	0.68	1.075	0.55	0.57	0.59	0.57	0.33	0.623	0.72	0.44	0.7
5	0.65	1.06	0.98	0.5	0.5	0.52	0.58	0.39	0.7	0.7	0.43	0.62
6	0.64	0.97	0.82	0.51	0.59	0.52	0.59	0.41			0.41	0.54
7	0.61	1.08	0.66	0.56	0.65	0.47	0.74	0.38		0.8	0.4	
8	0.57	1.04	0.925	0.53	0.73	0.45	0.54	0.37		0.78	0.38	
9	0.61	1.14	0.81	0.5	0.83	0.49	0.43	0.39		0.68	0.399	
10	0.55	0.97	0.67	0.45	0.91	0.46	0.43	0.43	0.71	0.57	0.54	
11	0.47	0.81	0.7	0.44	1.05	0.42	0.41	0.56	0.75	0.61	0.48	0.4
12	0.47	0.73	0.66	0.4	1.17	0.43	0.44	0.4	0.76	0.62	0.41	0.38
13	0.42	0.74	0.57	0.41	1.54	0.53	0.47	0.4		0.61	0.395	0.38
14	0.46	0.78	0.52	0.41		0.5	0.539	0.38		0.52	0.39	0.4
15	0.5	0.88	0.46	0.41	1.08	0.4	0.51	0.32		0.51	0.41	0.41
16	0.53	0.8	0.46	0.41	0.94	0.42	0.53	0.31	0.73	0.47	0.386	0.42
17	0.5	0.76	0.77	0.46	0.91	0.45	0.48	0.33	0.702	0.46	0.38	0.44
18	0.47	0.895	0.53	0.47	0.87	0.48	0.38	0.36	0.68	0.84	0.39	0.46
19	0.58	1	0.54	0.48	0.91	0.46	0.46	0.56	0.61	0.51	0.43	0.46
20	0.68	0.98	0.52	0.46	0.95	0.46	0.42	0.7	0.6	0.57	0.387	0.67
21	0.69	0.9	0.5	0.44	0.9		0.45	0.41	0.58	0.59	0.374	0.51
22	0.77	0.92	0.48	0.54	0.79		0.4	0.45	0.65	0.56	0.36	0.58
23	0.71	0.99	0.51	0.43	0.77	0.76	0.38	0.46	0.65	0.53	0.344	0.6
24	0.66	1.1	0.52	0.44		0.71	0.39	0.49	0.67	0.5	0.4	0.59
25	0.66	0.88	0.61	0.42	0.86	0.65	0.42	0.48	0.65	0.488	0.43	0.64
26	0.61	1.29	0.56	0.44	0.82	0.65	0.48	0.47	0.63	0.53	0.37	0.63
27	0.55	1.06	0.5	0.51	0.696	0.55	0.36	0.49	0.63	0.58	0.349	0.57
28	0.605	1.31	1.12	0.54	0.63	0.54	0.4	0.46	0.67	0.54	0.35	0.57
29	0.62	0.87	0.7	0.51	0.56	0.72	0.38	0.43	0.77	0.47	0.36	0.45
30	0.68		0.68	0.51	0.51	0.74	0.41	0.44	0.73	0.42	0.45	0.42
31	0.52		0.73		0.62		0.34	0.46		0.398		0.4

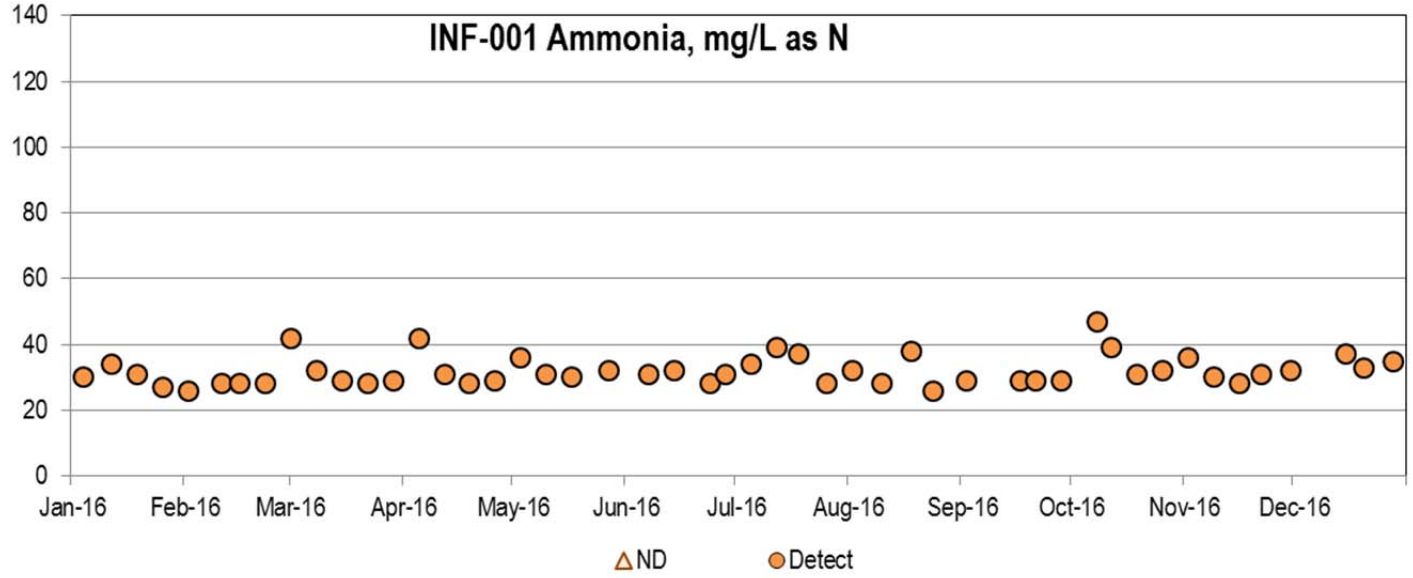

EFF-001 Turbidity (daily mean), NTU
7
6
5
4
3
2
1
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

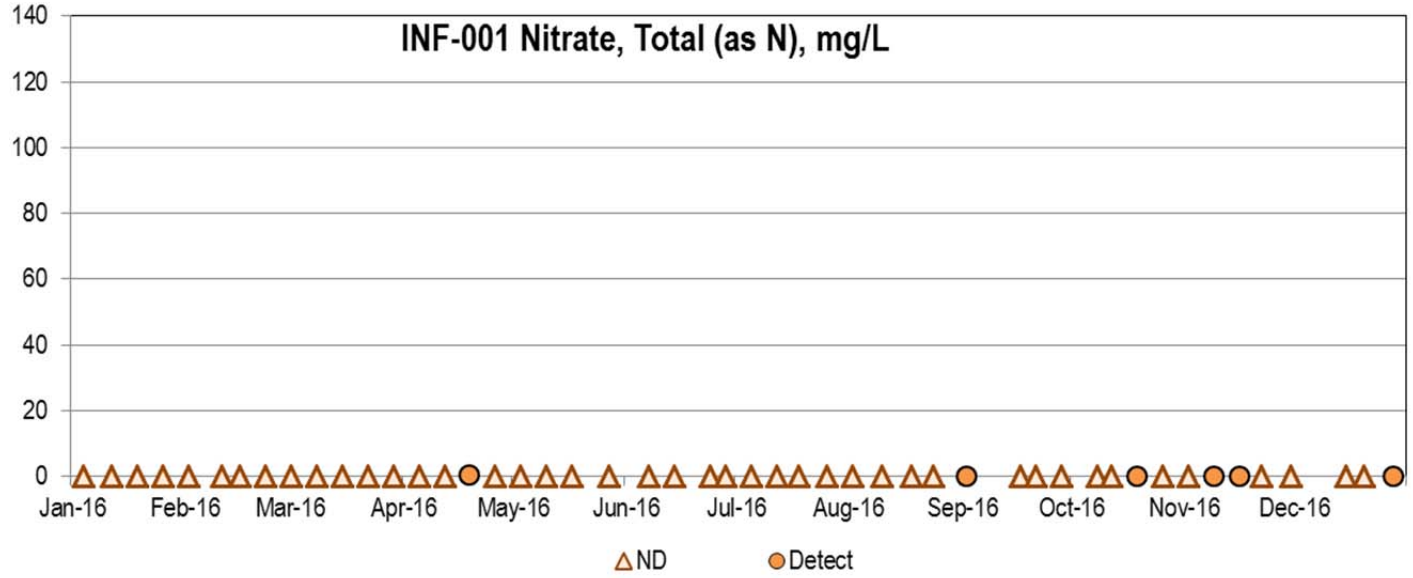

RSW Turbidity, NTU
7
6
5
4
3
2
1
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001
RSW-002

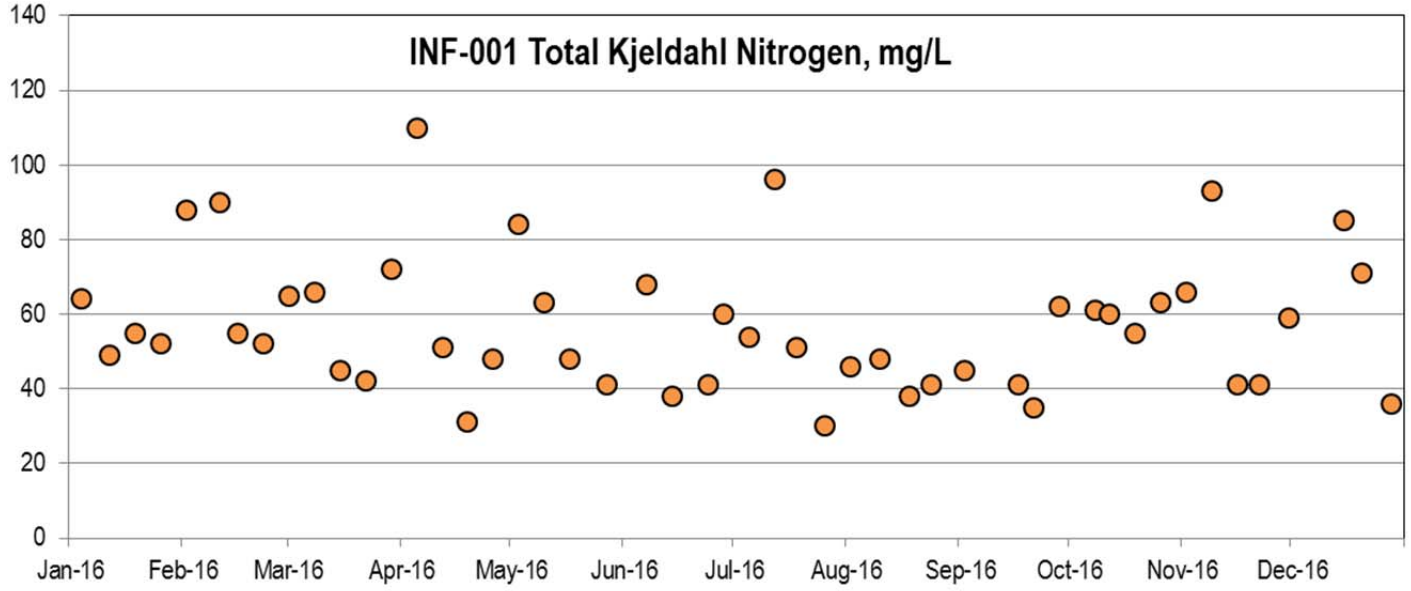
Weekly Monitoring Influent and Effluent Concentrations, mg/L

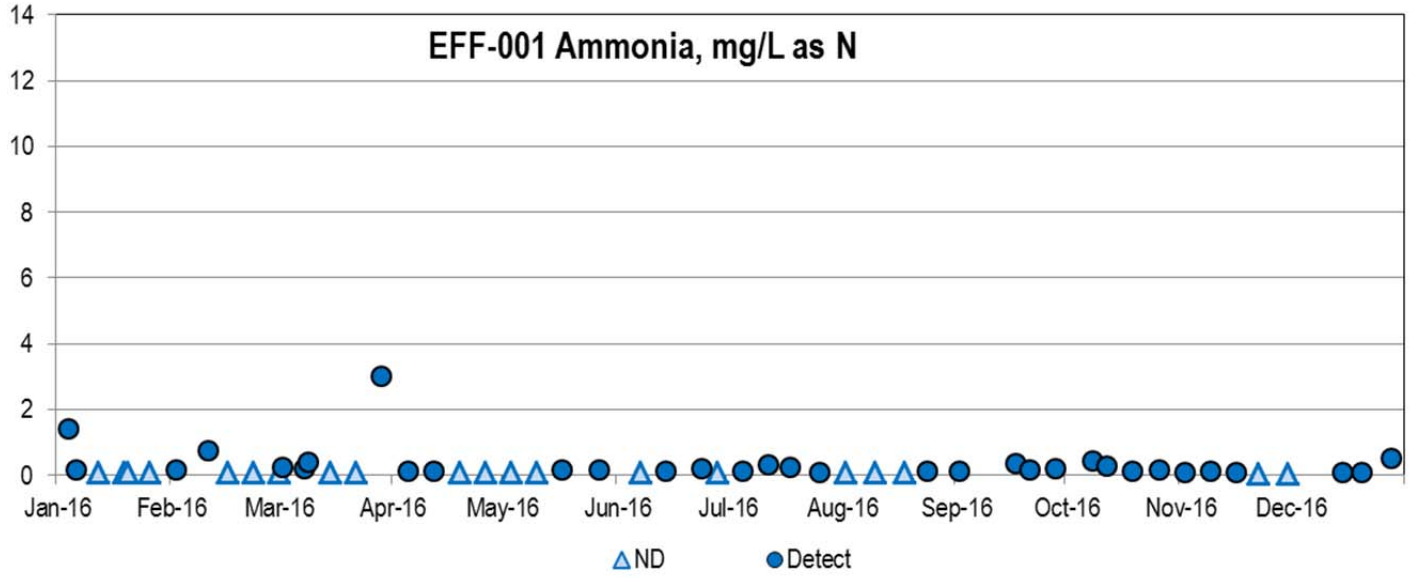
	INF-001			EFF-001							
Date	NH3-N	NO3-N	TKN	NH3-N	NO3-N	NO2-N	TKN	TN	DO	Date	TDS
1/4/16	30	<0.2	64	1.4	2.6	0.19	2.8	5.59	6.58	1/4/16	382
1/6/16				0.17							
1/12/16	34	<0.2	49	<0.1	3.6	<0.1	1.2	4.8-<4.9	7.1	1/11/16	424
1/19/16	31	<0.2	55	<0.1	3.5	<0.1	1.5	5.0-<5.1	6.92	1/18/16	333
1/20/16				<0.1							
1/26/16	27	<0.2	52	<0.1	5.3	0.11	1.2	6.61	7.01	1/29/16	357
2/2/16	26	<0.2	88	0.18	5.3	0.11	1.3	6.71	7.06	2/1/16	443
2/11/16	28	<0.2	90	0.75	3.9	0.1	1.8	5.8	6.62	2/8/16	372
2/16/16	28	<0.2	55	<0.1	2.0	<0.1	1.6	3.6-<3.7	7.16	2/15/16	364
2/23/16	28	<0.2	52	<0.1	1.0	<0.1	1.3	2.3-<2.4	7.14	2/22/16	323
3/1/16	42	<0.2	65	<0.1	2.6	<0.1	1.4	4.0-<4.1		2/29/16	353
3/2/16				0.25							
3/3/16									6.51		
3/8/16	32	<0.2	66	0.22	3.1	0.21	8.5	11.81		3/7/16	456
3/9/16				0.38					6.6		
3/15/16	29	<0.2	45	<0.1	7.0	0.21	1.3	8.51	6.87	3/14/16	441
3/22/16	28	<0.2	42	<0.1	6.4	0.16	1.2	7.76	7.06	3/21/16	324
3/29/16	29	<0.2	72	3.0	2.3	0.44	4.7	7.44	7.06	3/28/16	396
4/5/16	42	<0.2	110	0.11	4.5	0.11	1.3	5.91	6.94	4/4/16	334
4/12/16	31	<0.2	51	0.12	3.4	0.13	1.7	5.23	6.9	4/11/16	329
4/19/16	28	0.3	31	<0.1	6.4	0.1	1.0	7.5		4/18/16	313
4/23/16									6.79		
4/26/16	29	<0.2	48	<0.1	6.1	<0.1	1.4	7.5-<7.6	6.58	4/25/16	394
5/3/16	36	<0.2	84	<0.1	4.5	<0.1	1.4	5.9-<6	6.71	5/2/16	422
5/10/16	31	<0.2	63	<0.1	4.9	<0.1	1.4	6.3-<6.4	6.6	5/9/16	404
5/17/16	30	<0.2	48	0.15	4.5	0.22	1.7	6.42	6.49	5/16/16	427
5/27/16	32	<0.2	41	0.18	3.7	0.32	1.4	5.42	6.7		
5/31/16									6.67	6/3/16	317
6/7/16	31	<0.2	68	<0.1	5.8	0.11	1.7	7.61	6.46	6/6/16	435

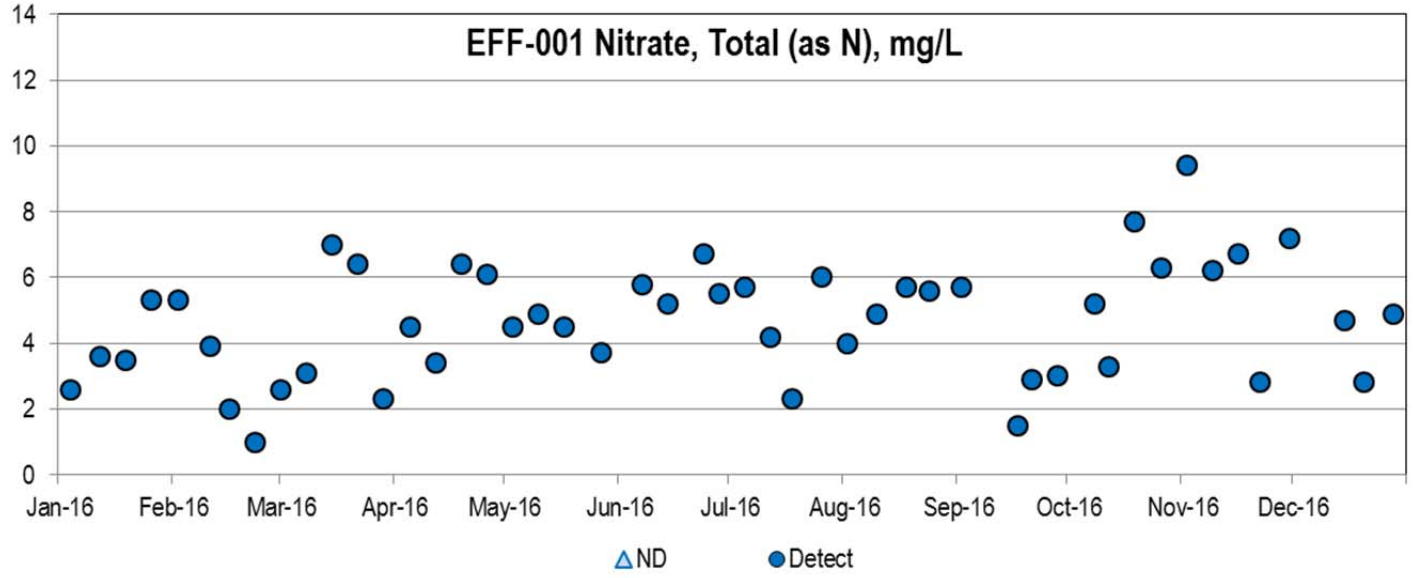
	INF-001			EFF-001							
Date	NH3-N	NO3-N	TKN	NH3-N	NO3-N	NO2-N	TKN	TN	DO	Date	TDS
6/14/16	32	<0.2	38	0.14	5.2	0.1	1.2	6.5	6.44	6/13/16	339
6/24/16	28	<0.2	41	0.19	6.7	0.22	1.5	8.42	6.16	6/20/16	410
6/28/16	31	<0.2	60	<0.1	5.5	0.17	1.5	7.17	6.13	6/27/16	416
7/5/16	34	<0.2	54	0.12	5.7	<0.1	1.4	7.1-<7.2	6.23	7/4/16	531
7/12/16	39	<0.2	96	0.32	4.2	0.56	1.3	6.06	6.49	7/11/16	422
7/18/16	37	<0.2	51	0.25	2.3	0.14	1.4	3.84	6.89	7/17/16	418
7/26/16	28	<0.2	30	0.1	6.0	0.22	1.2	7.42	6.55	7/25/16	342
8/2/16	32	<0.2	46	<0.1	4.0	0.11	1.1	5.21	6.53	8/2/16	320
8/10/16	28	<0.2	48	<0.1	4.9	<0.1	1.2	6.1-<6.2	6.7	8/8/16	320
8/18/16	38	<0.2	38	<0.1	5.7	0.13	1.3	7.13	6.7	8/15/16	330
8/24/16	26	<0.2	41	0.13	5.6	0.28	1.2	7.08	6.38	8/22/16	330
9/2/16	29	0.1	45	0.11	5.7	0.29	1.5	7.49	6.97	8/29/16	330
9/17/16	29	<0.1	41	0.35	1.5	1.2	1.8	4.5	6.67	9/12/16	310
9/21/16	29	<0.1	35	0.17	2.9	1.4	1.5	5.8	6.52	9/19/16	330
9/28/16	29	<0.1	62	0.21	3.0	0.46	1.9	5.36	6.67	9/26/16	320
10/8/16	47	<0.2	61	0.44	5.2	0.18	1.5	6.88	6.34	10/3/16	340
10/12/16	39	<0.2	60	0.3	3.3	0.26	1.4	4.96	6.39	10/10/16	330
10/19/16	31	0.1	55	0.13	7.7	0.06	1.6	9.36	6.76	10/17/16	380
10/26/16	32	<0.2	63	0.17	6.3	0.1	1.2	7.6	6.85	10/24/16	300
11/2/16	36	<0.2	66	0.1	9.4	0.12	1.4	10.92	6.88	10/31/16	310
11/9/16	30	0.1	93	0.12	6.2	0.21	1.3	7.71	6.69	11/7/16	340
11/16/16	28	0.2	41	0.08	6.7	0.13	0.74	7.57	6.86	11/14/16	320
11/22/16	31	<0.2	41	<0.05	2.8	0.07	1.3	4.17	7.36	11/21/16	350
11/30/16	32	<0.2	59	<0.05	7.2	0.07	1.2	8.47	7.5	11/28/16	290
12/5/16										12/5/16	330
12/15/16	37	<0.2	85	0.1	4.7	<0.1	1.7	6.4-<6.5	7.33	12/12/16	350
12/20/16	33	<0.2	71	0.08	2.8	<0.1	0.97	3.77-<3.87	7.61	12/20/16	320
12/28/16	35	0.1	36	0.5	4.9	0.14	1.4	6.44	7.33	12/26/16	350

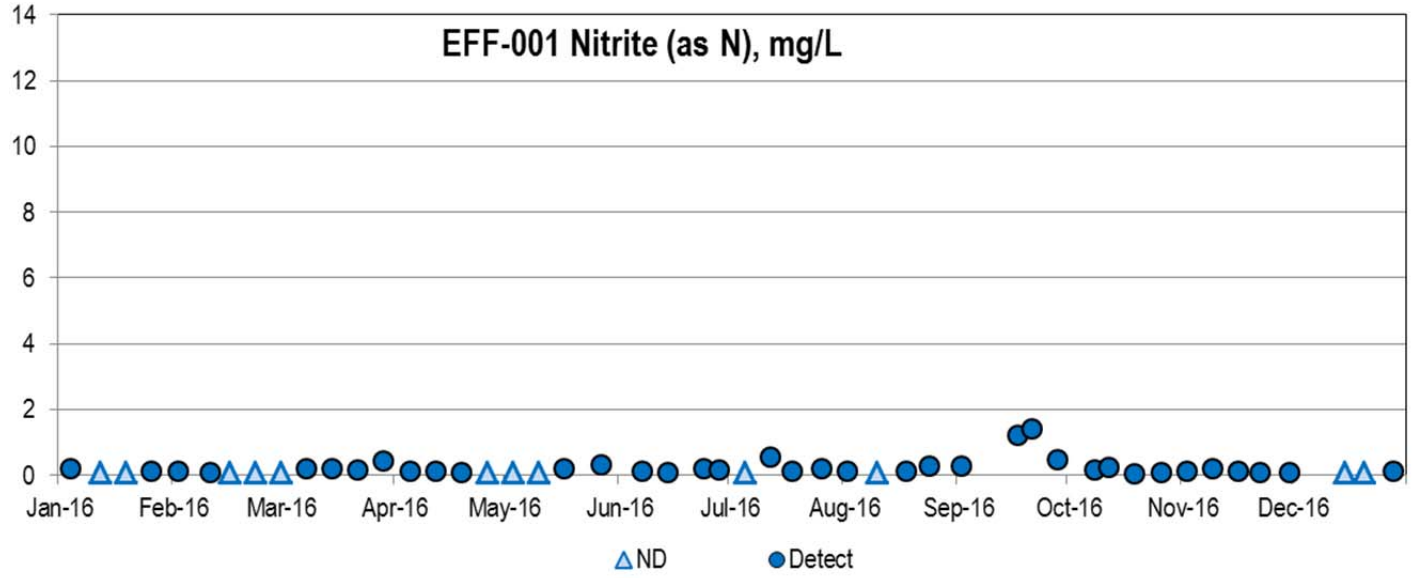

INF-001 Ammonia, mg/L as N
140
120
100
80
60
40
20
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

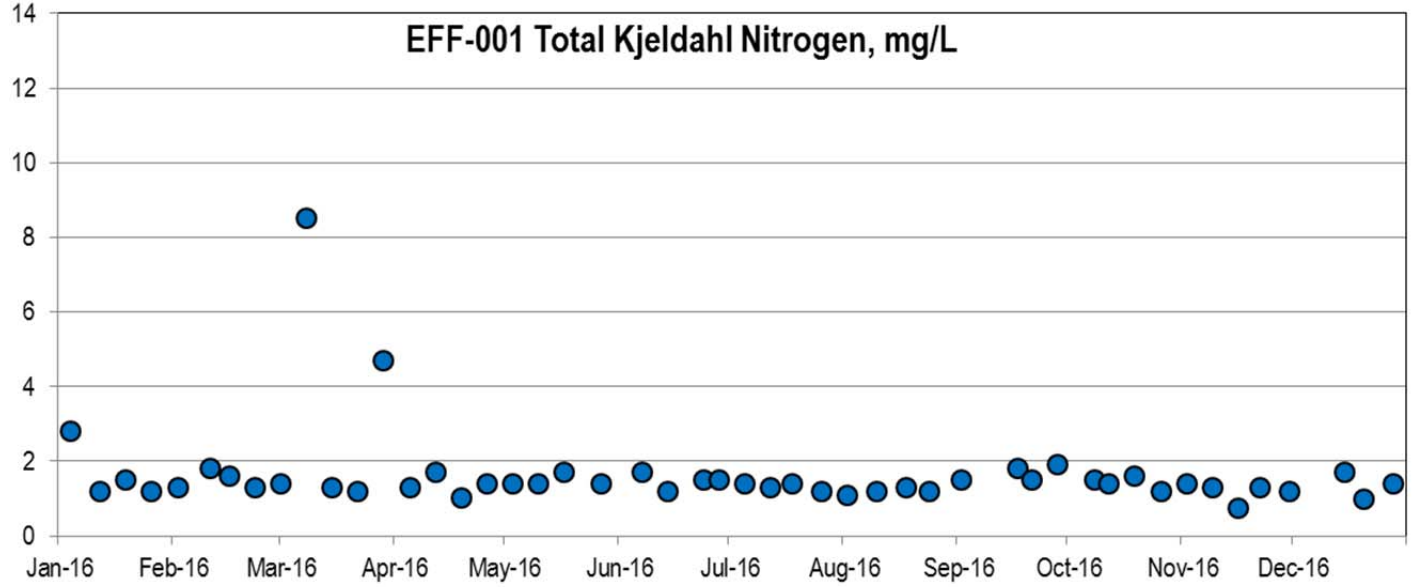

INF-001 Nitrate, Total (as N), mg/L
140
120
100
80
60
40
20
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

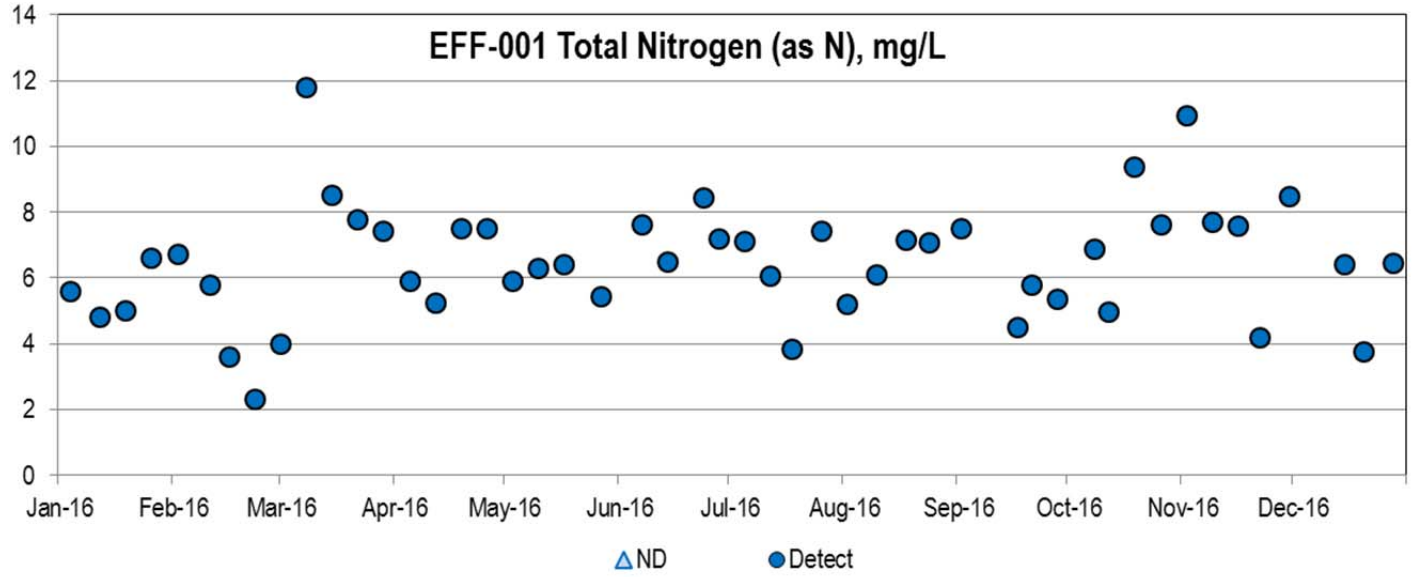

INF-001 Total Kjeldahl Nitrogen, mg/L
140
120
100
80
60
40
20
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

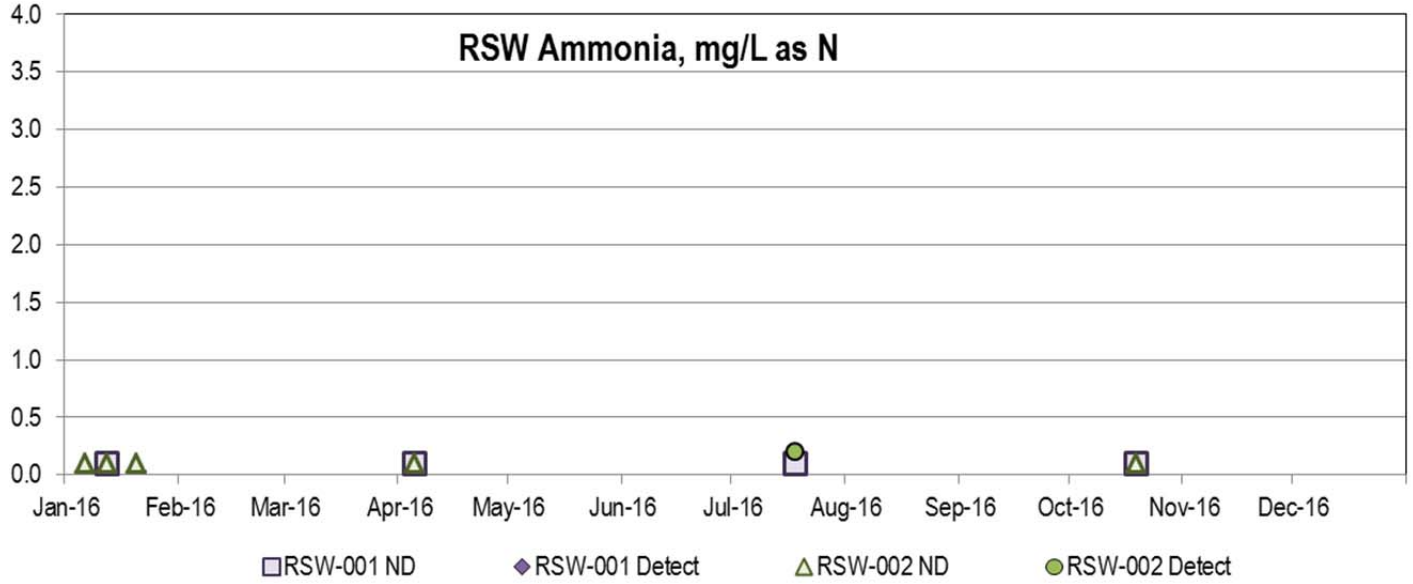

EFF-001 Ammonia, mg/L as N
14
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

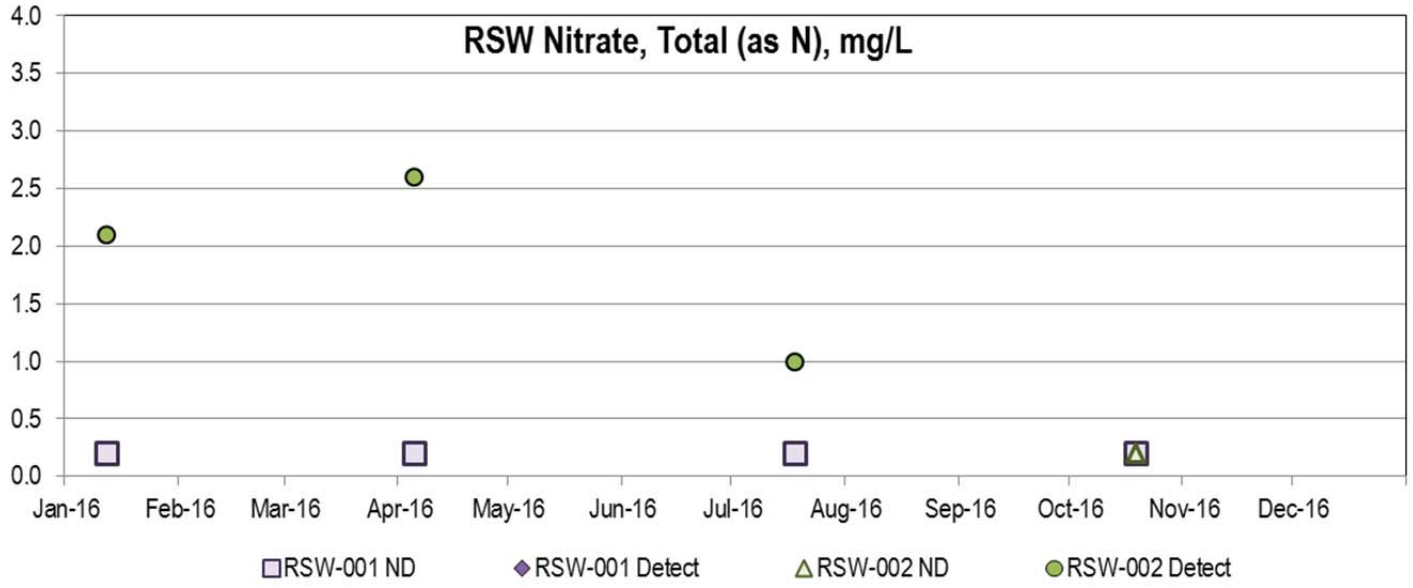

EFF-001 Nitrate, Total (as N), mg/L
14
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

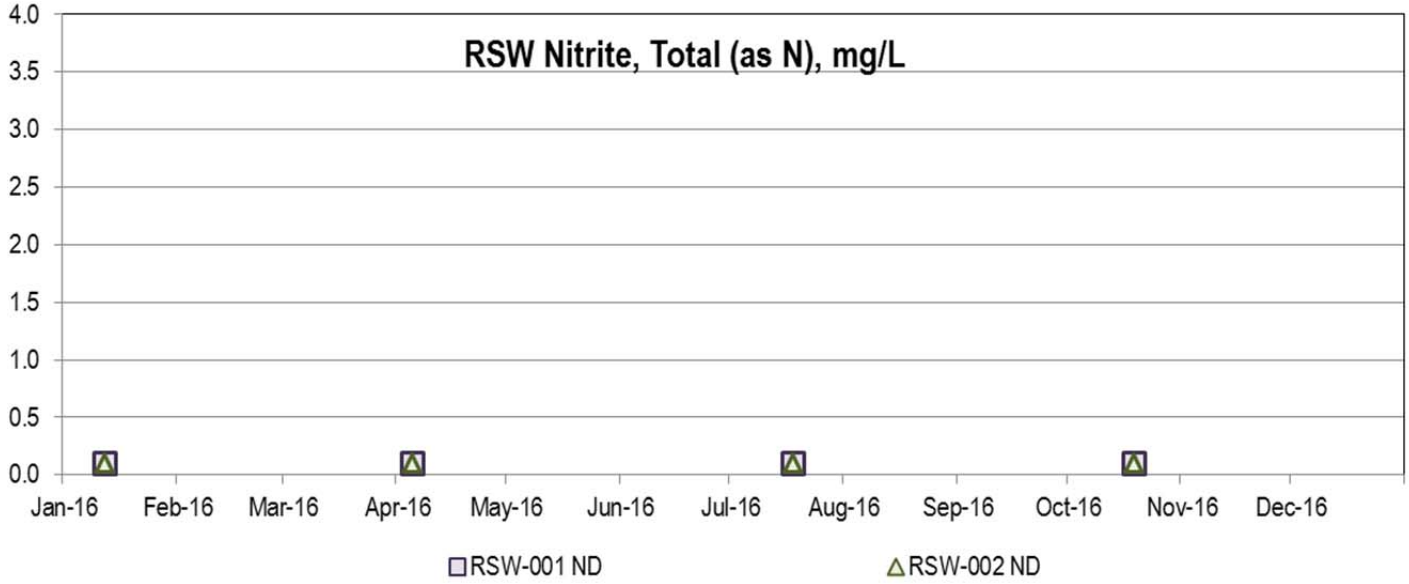

EFF-001 Nitrite (as N), mg/L
14
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

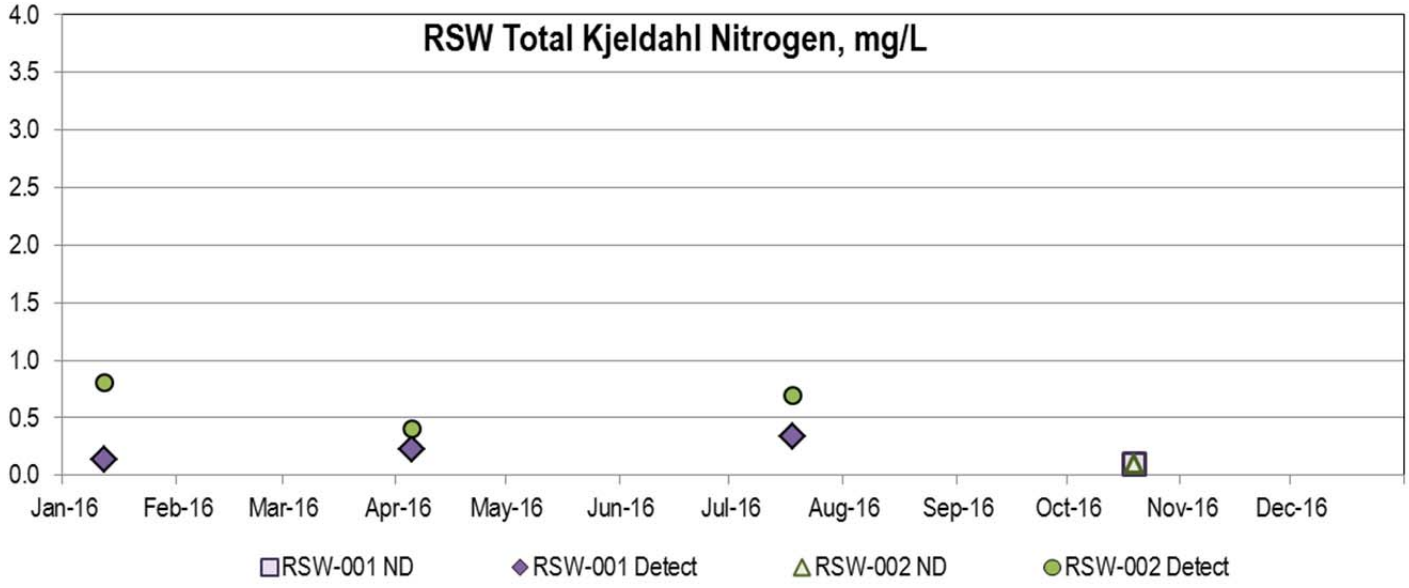

EFF-001 Total Kjeldahl Nitrogen, mg/L
14
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

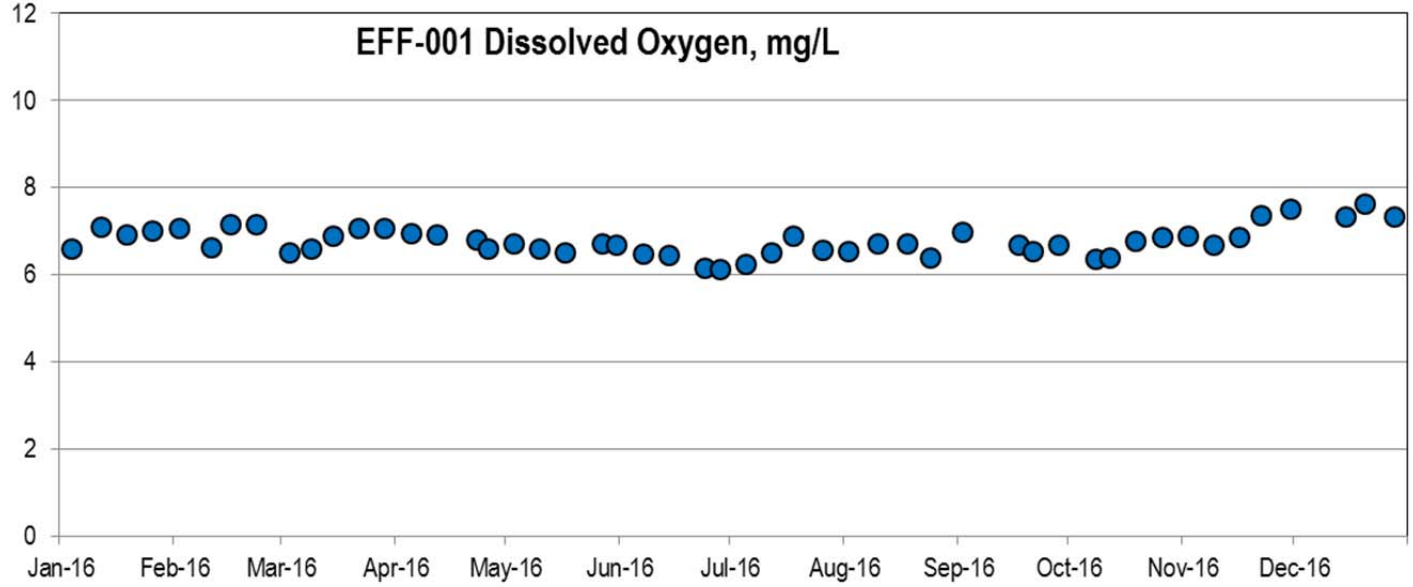

EFF-001 Total Nitrogen (as N), mg/L
14
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

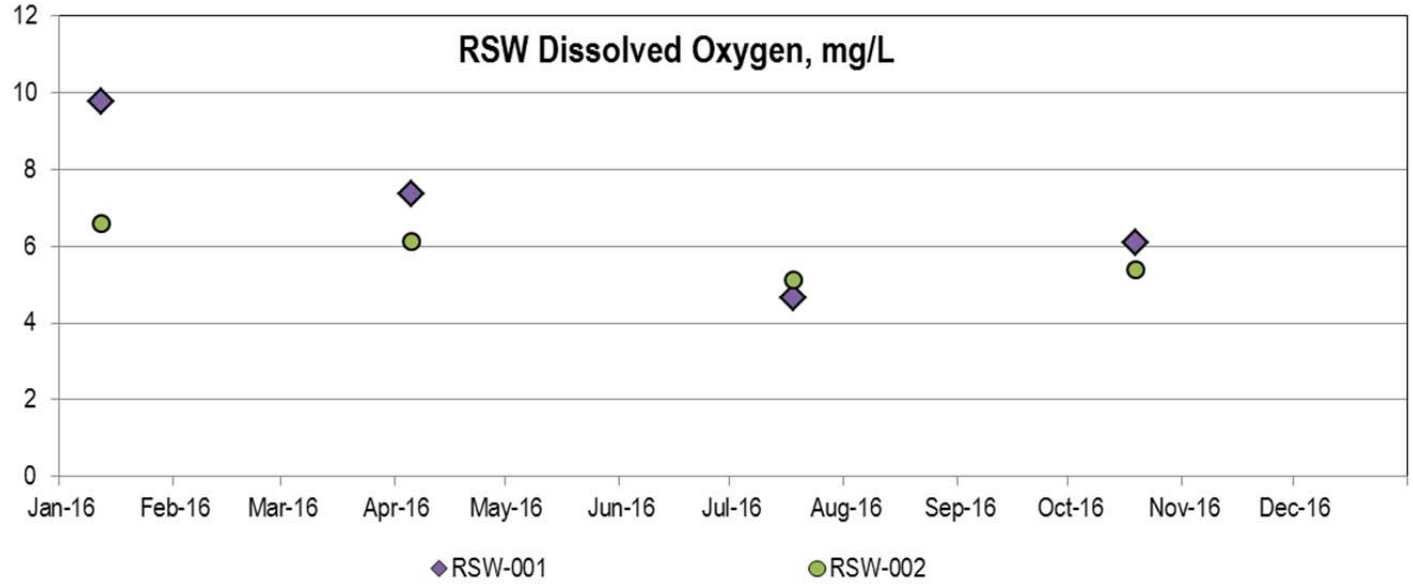

RSW Ammonia, mg/L as N
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001 ND
RSW-001 Detect
RSW-002 ND
RSW-002 Detect

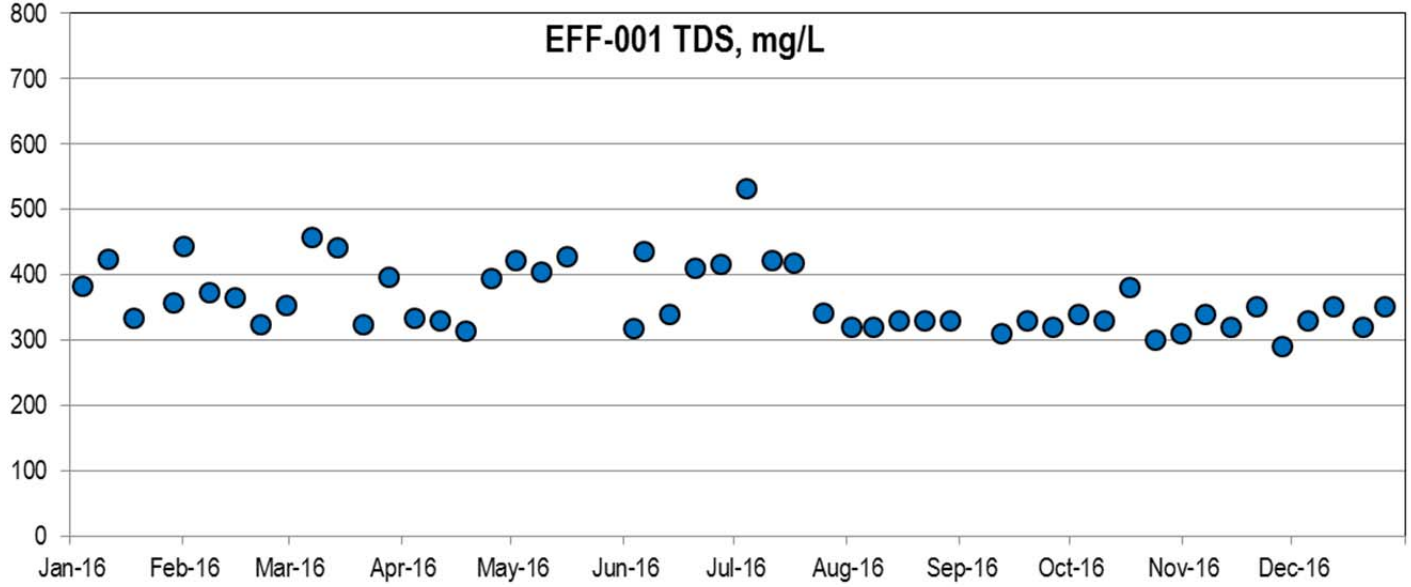

RSW Nitrate, Total (as N), mg/L
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001 ND
RSW-001 Detect
RSW-002 ND
RSW-002 Detect

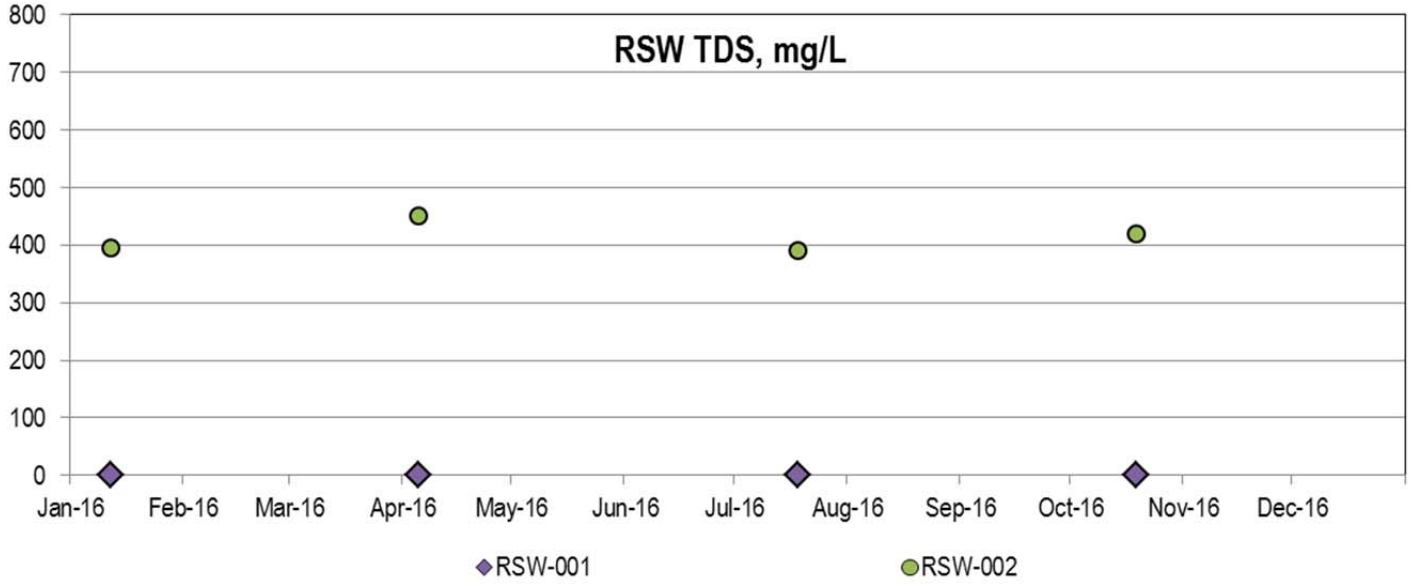

RSW Nitrite, Total (as N), mg/L
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001 ND
RSW-002 ND


RSW Total Kjeldahl Nitrogen, mg/L
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001 ND
RSW-001 Detect
RSW-002 ND
RSW-002 Detect


EFF-001 Dissolved Oxygen, mg/L
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16


RSW Dissolved Oxygen, mg/L
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001
RSW-002

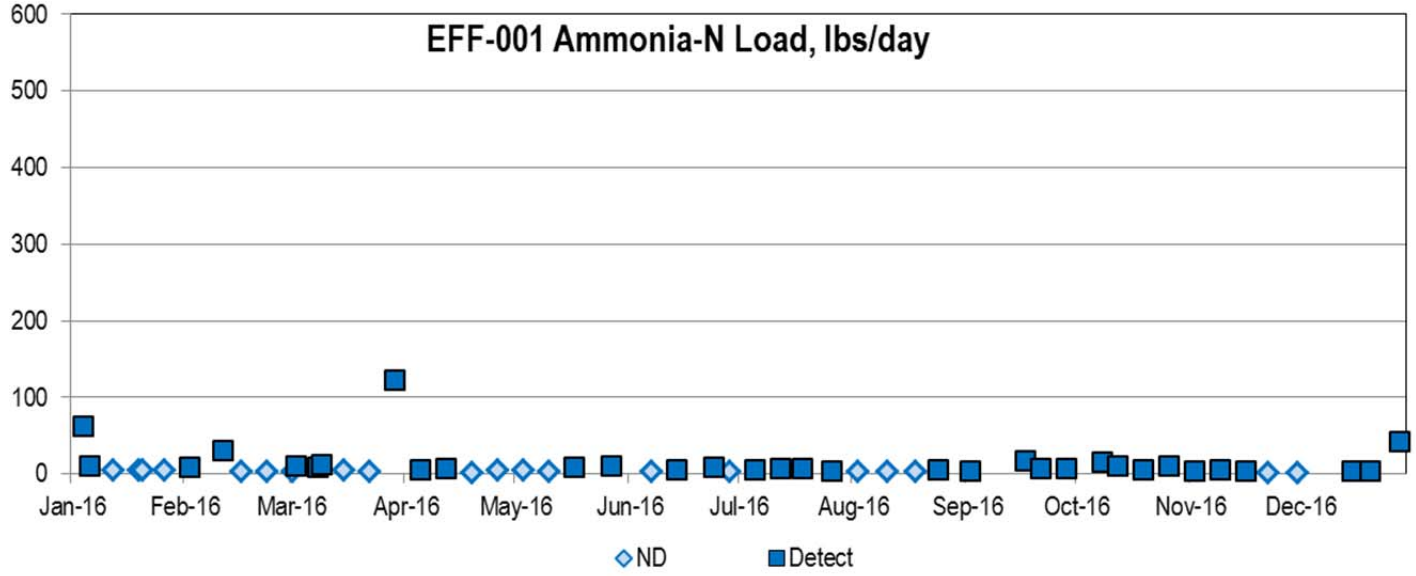

EFF-001 TDS, mg/L
800
700
600
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

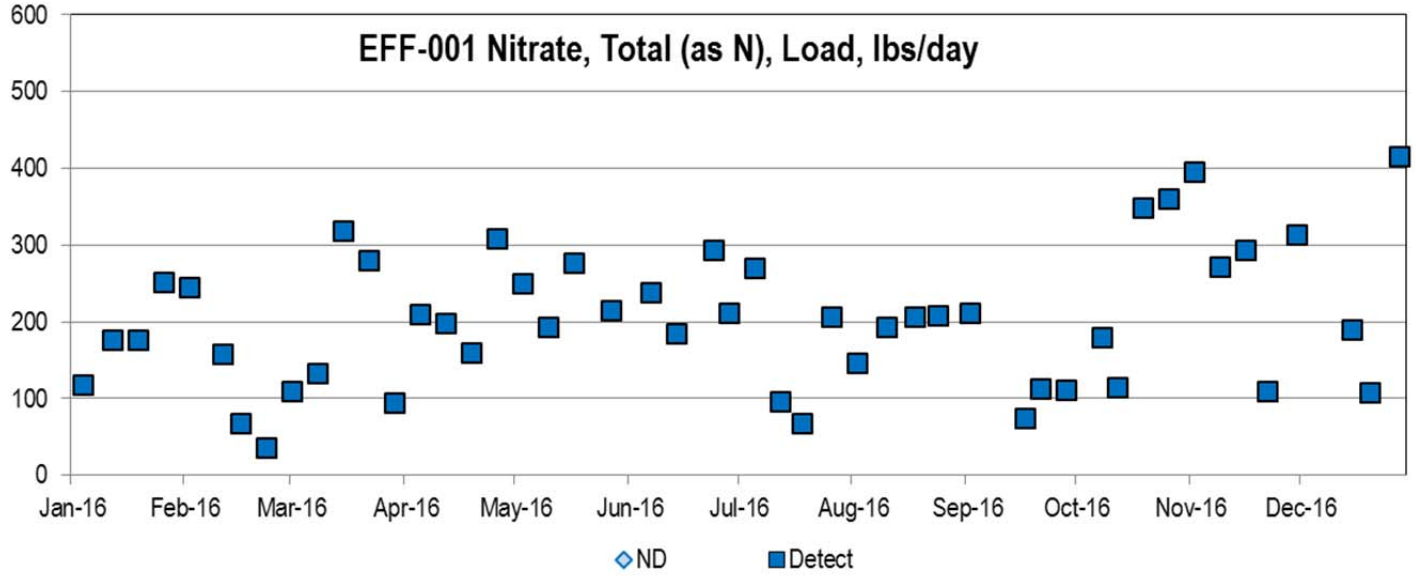

RSW TDS, mg/L
800
700
600
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
RSW-001
RSW-002

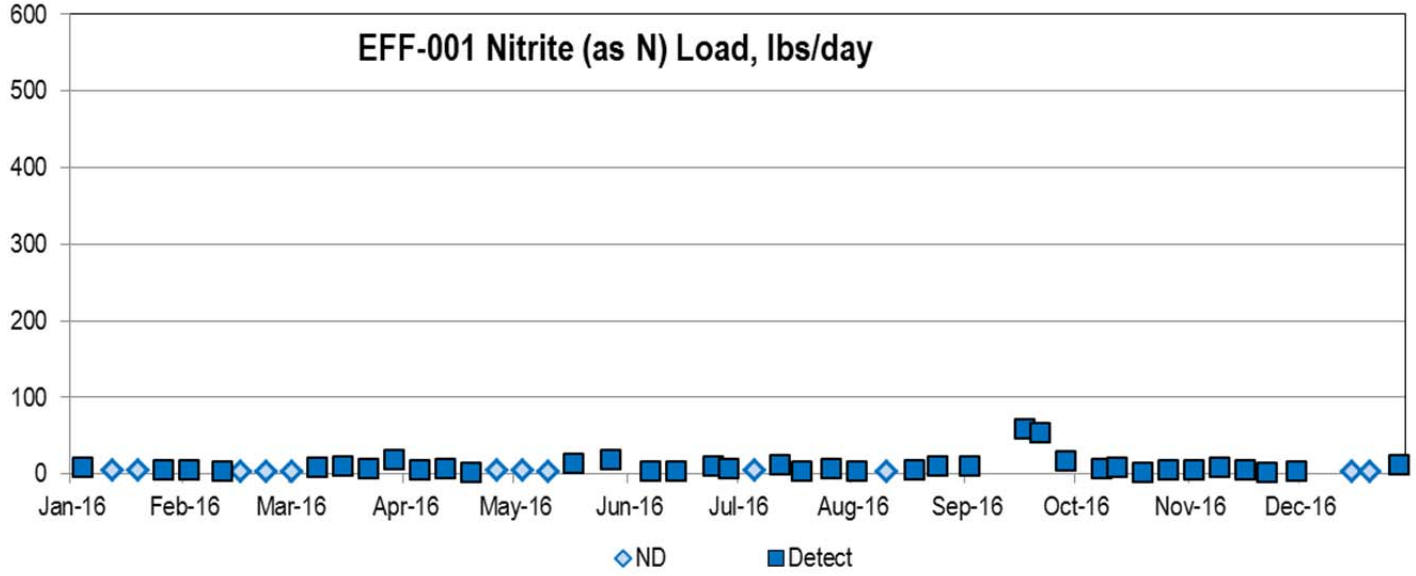
Weekly Monitoring Effluent Loads, lbs/day

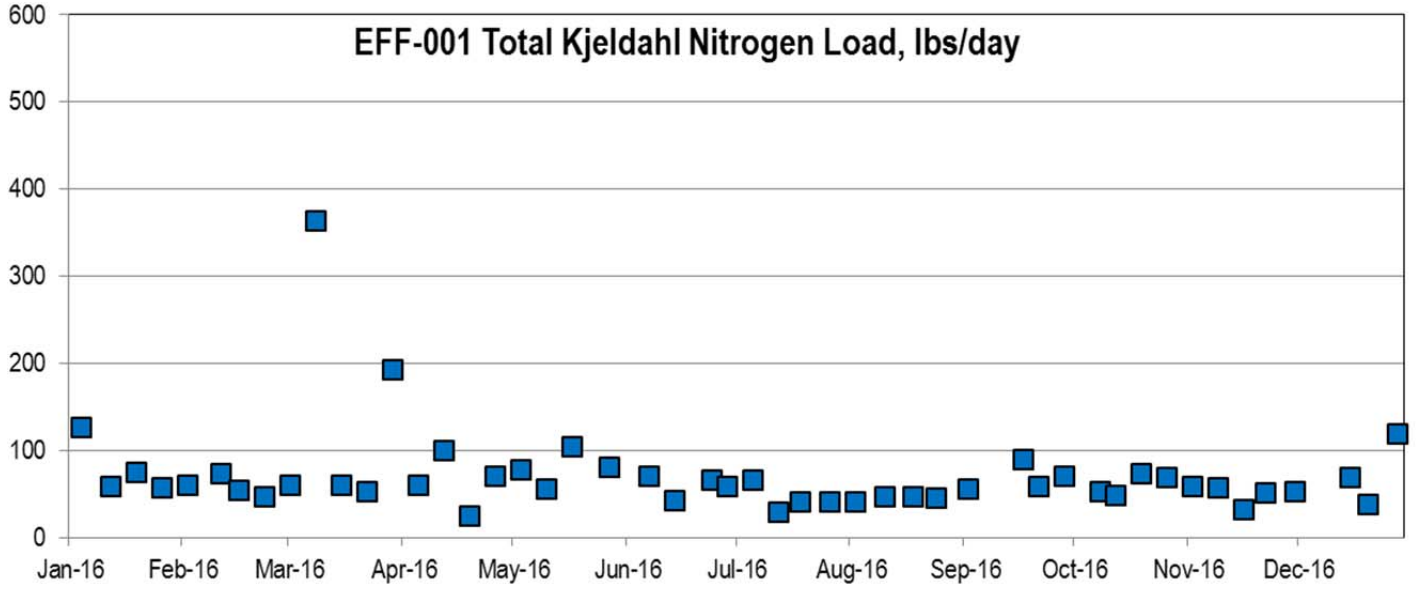
Date	NH3-N	NO3-N	NO2-N	TKN	TN	Date	TDS
1/4/16	63.0	117	8.5	126	252	1/4/16	17188
1/6/16	10.7						
1/12/16	ND	177	ND	59	236	1/11/16	19417
1/19/16	ND	176	ND	75	251	1/18/16	17794
1/20/16	ND						
1/26/16	ND	252	5.2	57	314	1/29/16	15673
2/2/16	8.3	245	5.1	60	310	2/1/16	22356
2/11/16	30.4	158	4.1	73	235	2/8/16	14827
2/16/16	ND	68	ND	54	122	2/15/16	13898
2/23/16	ND	36	ND	46	82	2/22/16	13768
3/1/16	ND	110	ND	59	169	2/29/16	17105
3/2/16	11.2						
3/3/16							
3/8/16	9.4	133	9.0	364	505	3/7/16	22434
3/9/16	11.6						
3/15/16	ND	318	9.5	59	387	3/14/16	21030
3/22/16	ND	280	7.0	52	339	3/21/16	14438
3/29/16	123.0	94	18.0	193	305	3/28/16	11397
4/5/16	5.1	209	5.1	60	274	4/4/16	17396
4/12/16	7.0	198	7.6	99	304	4/11/16	17385
4/19/16	ND	159	2.5	25	187	4/18/16	11603
4/23/16							
4/26/16	ND	308	ND	71	379	4/25/16	19558
5/3/16	ND	250	ND	78	328	5/2/16	21680
5/10/16	ND	192	ND	55	247	5/9/16	24943
5/17/16	9.2	276	13.5	104	393	5/16/16	24850
5/27/16	10.4	214	18.5	81	314		
5/31/16						6/3/16	15040
6/7/16	ND	237	4.5	70	311	6/6/16	18909
6/14/16	4.9	184	3.5	42	230	6/13/16	16395
6/24/16	8.3	292	9.6	65	367	6/20/16	13342

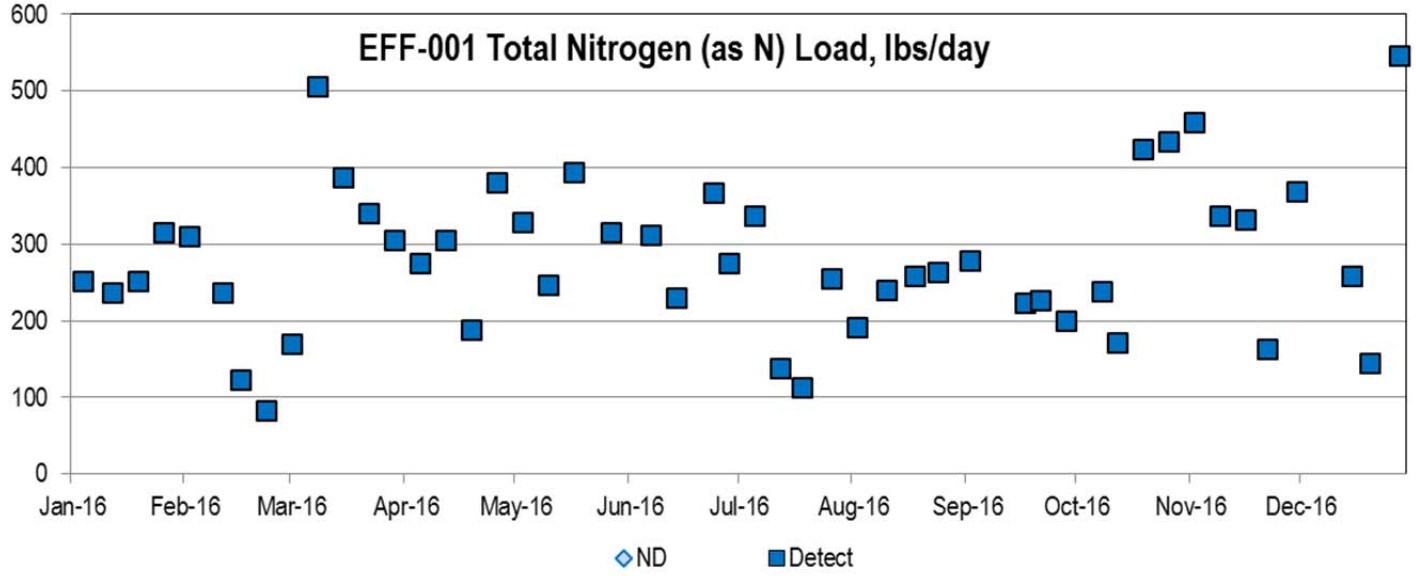
Date	NH3-N	NO3-N	NO2-N	TKN	TN	Date	TDS
6/28/16	ND	211	6.5	58	275	6/27/16	9298
7/5/16	5.7	270	ND	66	337	7/4/16	24313
7/12/16	7.3	95	12.7	30	138	7/11/16	18931
7/18/16	7.4	68	4.1	41	113	7/17/16	14631
7/26/16	3.4	206	7.5	41	255	7/25/16	11312
8/2/16	ND	146	4.0	40	190	8/2/16	11700
8/10/16	ND	193	ND	47	240	8/8/16	12554
8/18/16	ND	206	4.7	47	258	8/15/16	11201
8/24/16	4.8	208	10.4	44	262	8/22/16	12528
9/2/16	4.1	211	10.8	56	278	8/29/16	11788
9/17/16	17.3	74	59.3	89	222	9/12/16	3250
9/21/16	6.6	113	54.5	58	226	9/19/16	11584
9/28/16	7.8	111	17.1	71	199	9/26/16	9725
10/8/16	15.2	180	6.2	52	238	10/3/16	10469
10/12/16	10.3	113	8.9	48	170	10/10/16	3757
10/19/16	5.9	348	2.7	72	423	10/17/16	15152
10/26/16	9.7	360	5.7	68	434	10/24/16	11532
11/2/16	4.2	395	5.0	59	459	10/31/16	13328
11/9/16	5.2	270	9.2	57	336	11/7/16	13566
11/16/16	3.5	294	5.7	32	332	11/14/16	17598
11/22/16	ND	109	2.7	51	162	11/21/16	14105
11/30/16	ND	312	3.0	52	367	11/28/16	13888
12/5/16						12/5/16	12305
12/15/16	3.9	190	ND	69	258	12/12/16	20497
12/20/16	3.1	108	ND	37	145	12/20/16	12298
12/28/16	42.4	415	11.9	119	546	12/26/16	28834

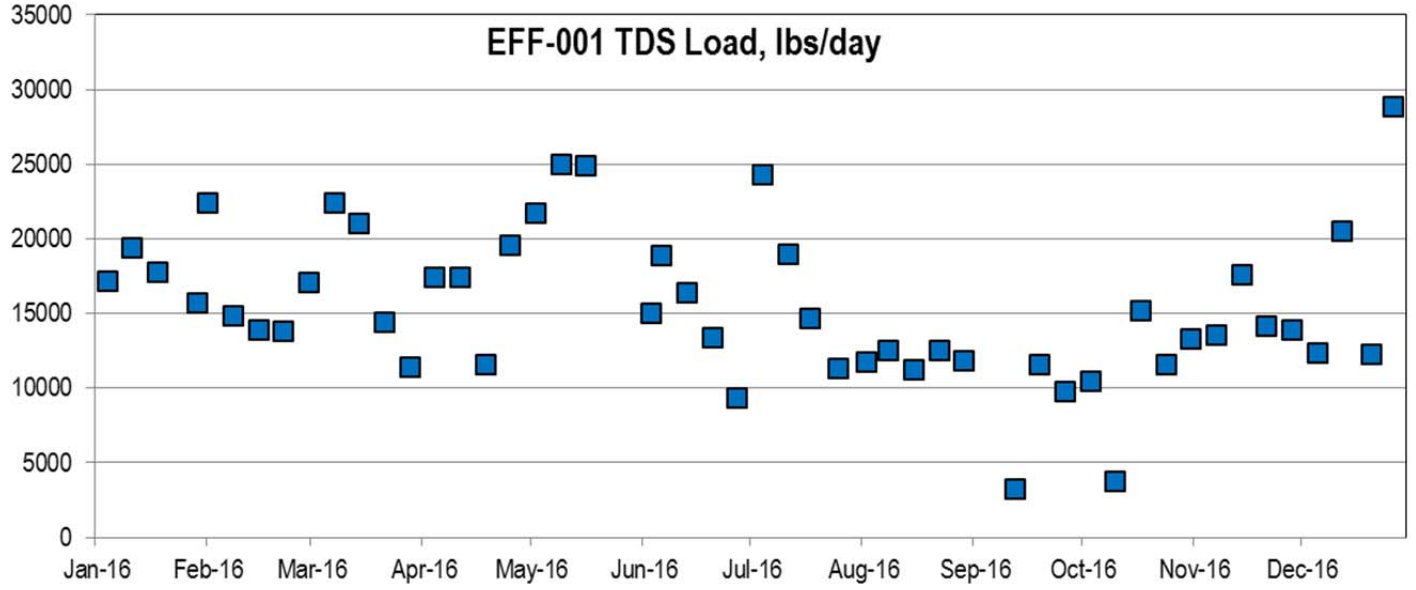

EFF-001 Ammonia-N Load, lbs/day
600
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


EFF-001 Nitrate, Total (as N), Load, lbs/day
600
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


EFF-001 Nitrite (as N) Load, lbs/day
600
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

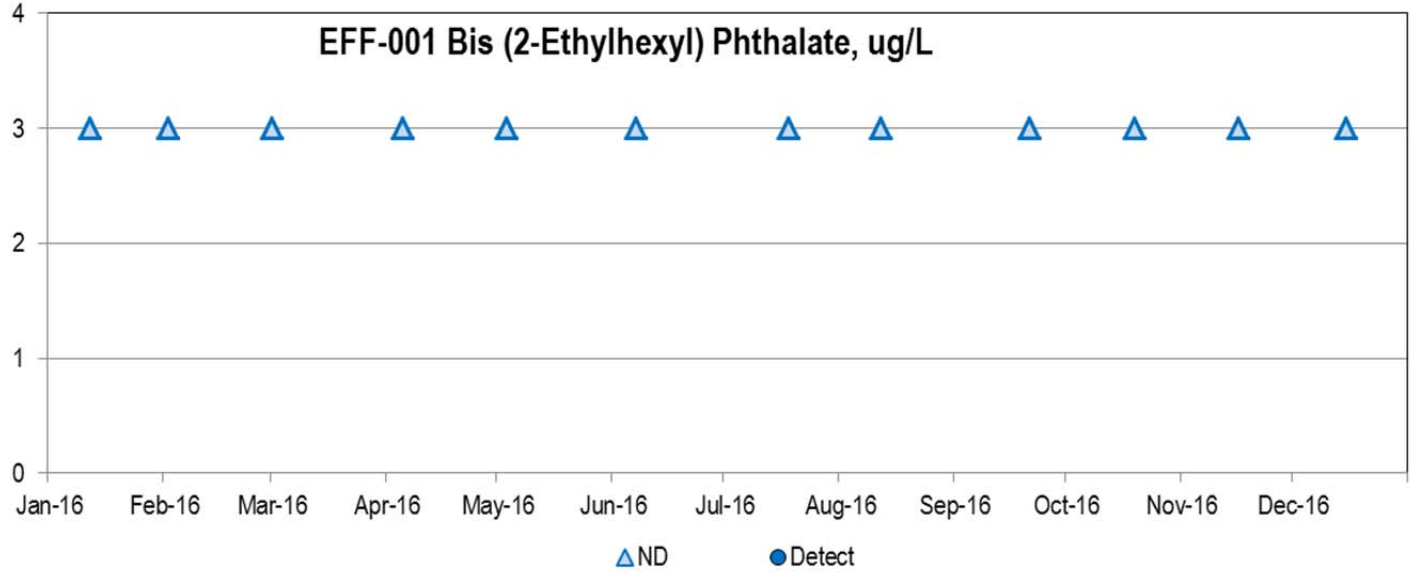

EFF-001 Total Kjeldahl Nitrogen Load, lbs/day
600
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

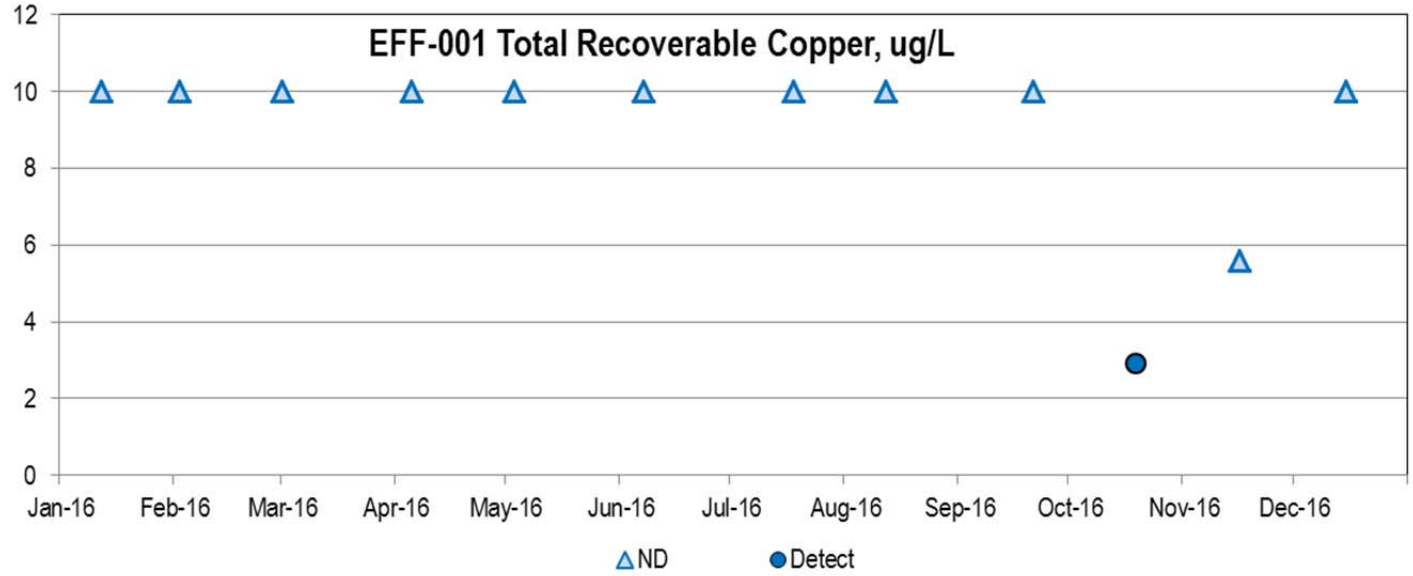

EFF-001 Total Nitrogen (as N) Load, lbs/day
600
500
400
300
200
100
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

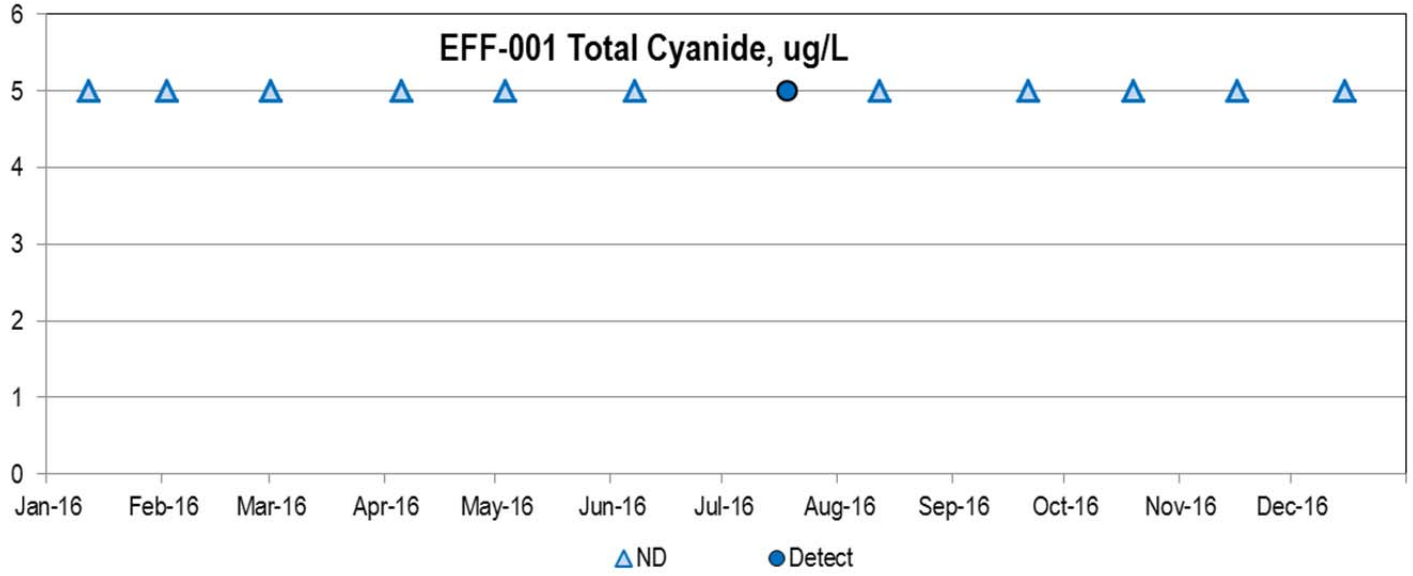

EFF-001 TDS Load, lbs/day
35000
30000
25000
20000
15000
10000
5000
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

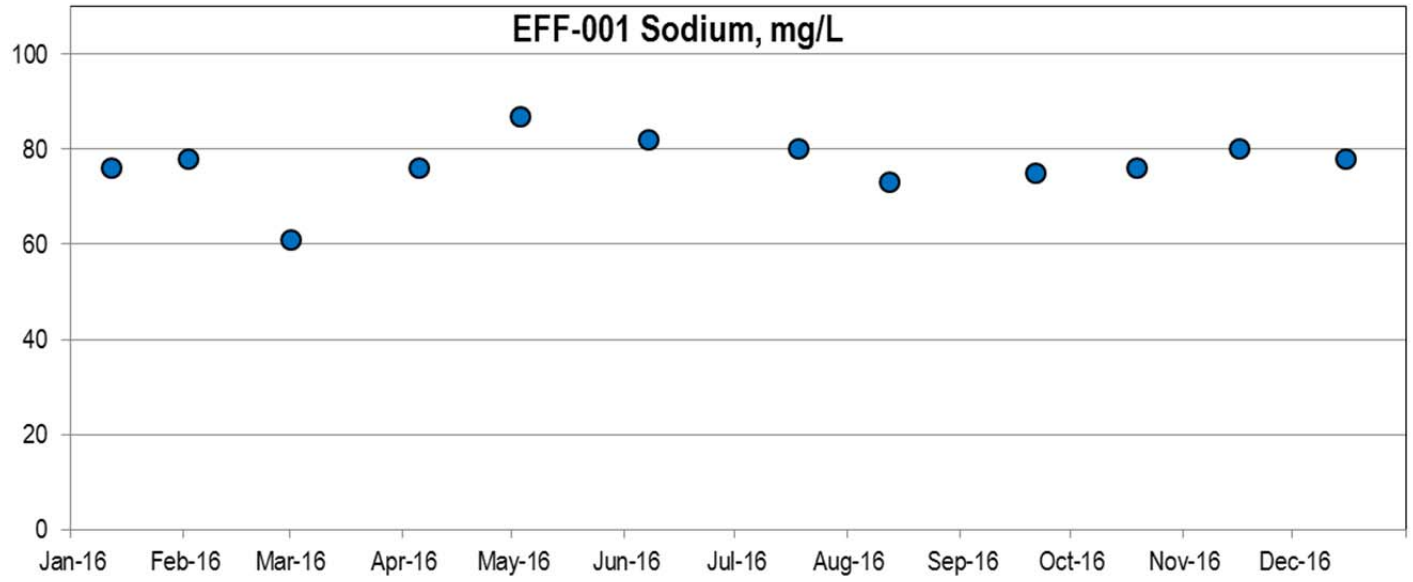
Monthly Monitoring Effluent Concentrations and Loads

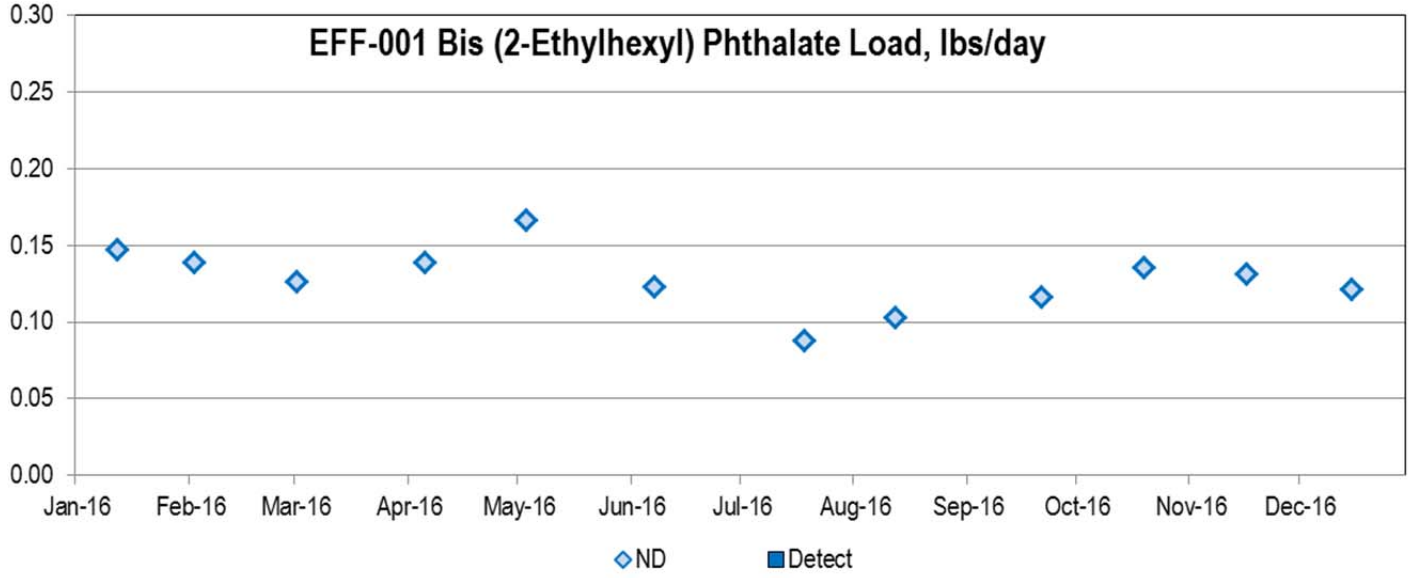
	Concentrations				Loads			
	Bis (2-Ethylhexyl) Phthalate	Copper, Total Recoverable	Cyanide, Total	Sodium, Total	Bis (2-Ethylhexyl) Phthalate	Copper, Total Recoverable	Cyanide, Total	Sodium, Total
Date	µg/L	µg/L	µg/L	mg/L	lbs/day	lbs/day	lbs/day	lbs/day
1/12/16	<3	<10	<5	76	ND	ND	ND	3,730
2/2/16	<3	<10	<5	78	ND	ND	ND	3,603
3/1/16	<3	<10	<5	61	ND	ND	ND	2,576
4/5/16	<3	<10	<5	76	ND	ND	ND	3,522
5/3/16	<3	<10	<5	87	ND	ND	ND	4,833
6/7/16	<3	<10	<5	82	ND	ND	ND	3,356
7/18/16	<3	<10	5	80	ND	ND	0.15	2,353
8/12/16	<3	<10	<5	73	ND	ND	ND	2,511
9/21/16	<3	<10	<5	75	ND	ND	ND	2,921
10/19/16	<3	2.9	<5	76	ND	0.13	ND	3,436
11/16/16	<3	<5.6	<5	80	ND	ND	ND	3,506
12/15/16	<3	<10	<5	78	ND	ND	ND	3,149

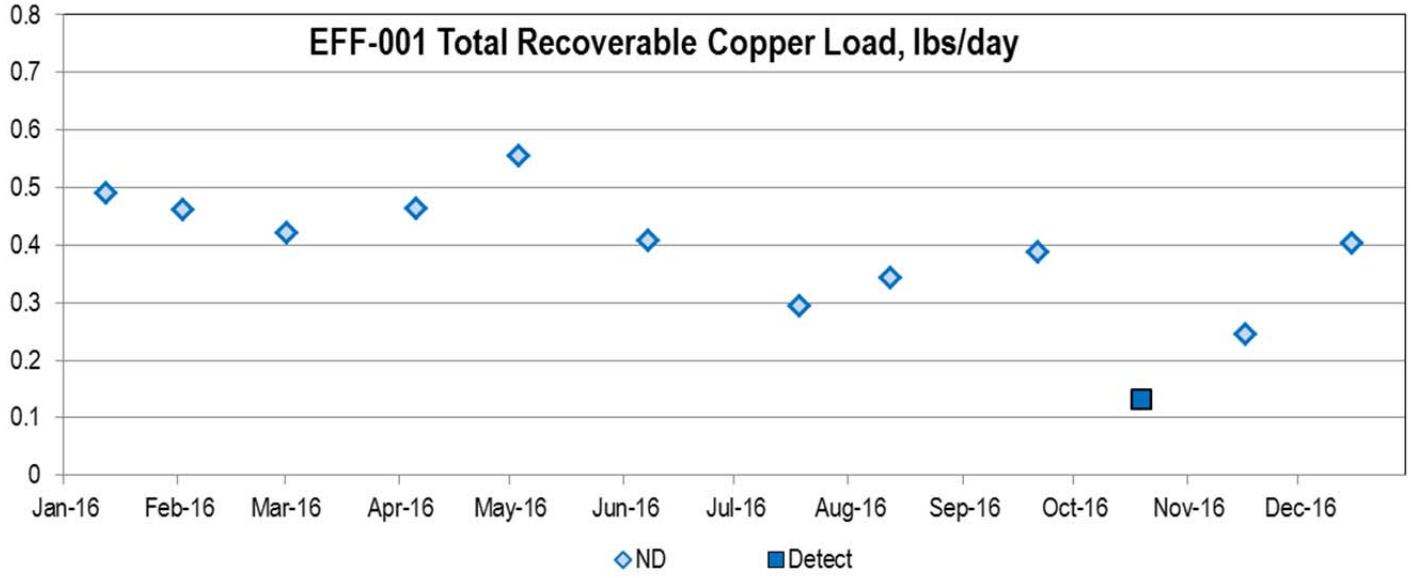

EFF-001 Bis (2-Ethylhexyl) Phthalate, ug/L
4
3
2
1
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

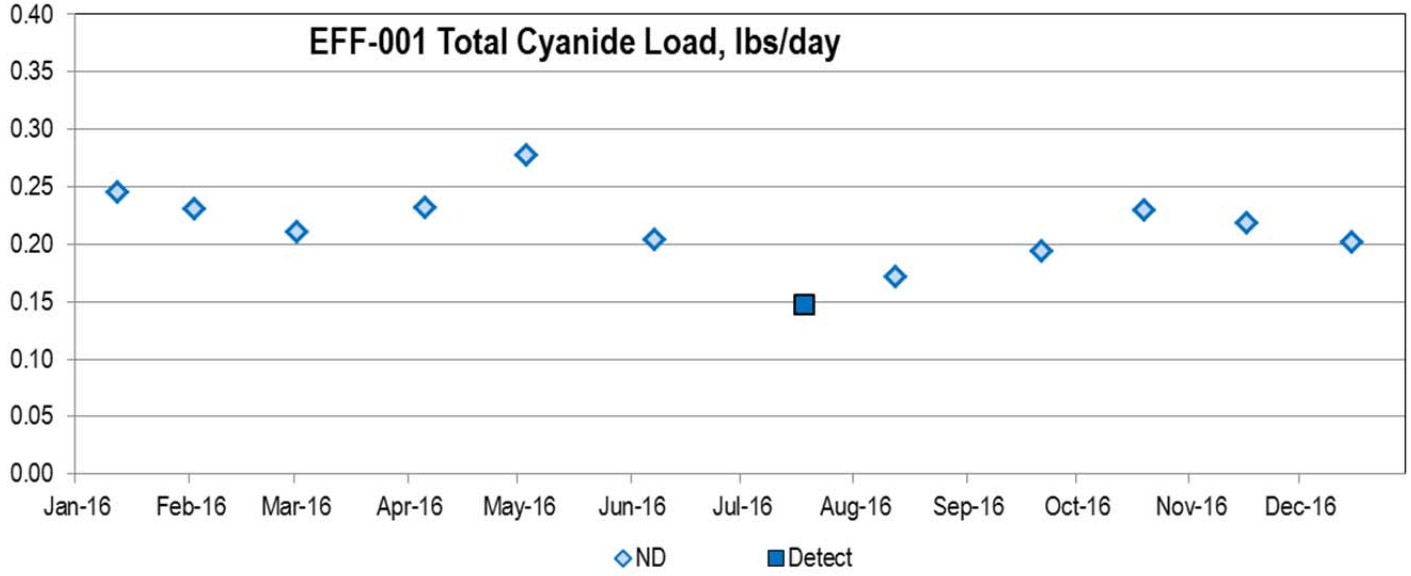

EFF-001 Total Recoverable Copper, ug/L
12
10
8
6
4
2
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

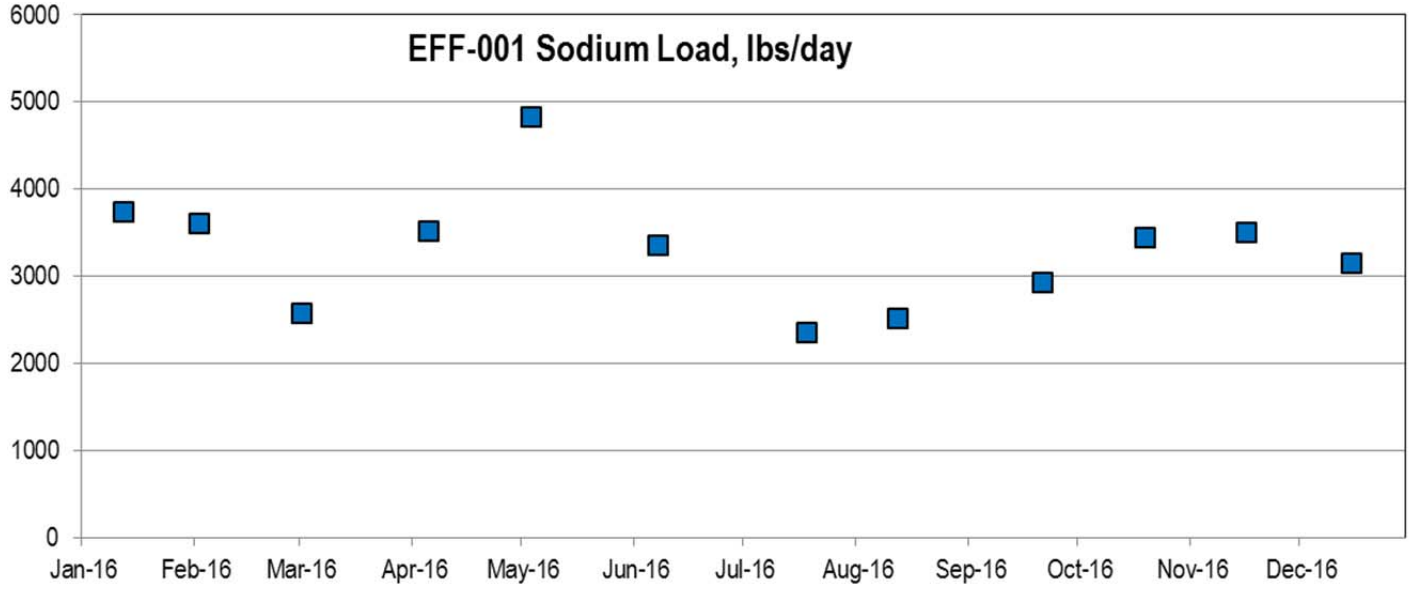

EFF-001 Total Cyanide, ug/L
6
5
4
3
2
1
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


EFF-001 Sodium, mg/L
100
80
60
40
20
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16


EFF-001 Bis (2-Ethylhexyl) Phthalate Load, lbs/day
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


EFF-001 Total Recoverable Copper Load, lbs/day
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect


EFF-001 Total Cyanide Load, lbs/day
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
ND
Detect

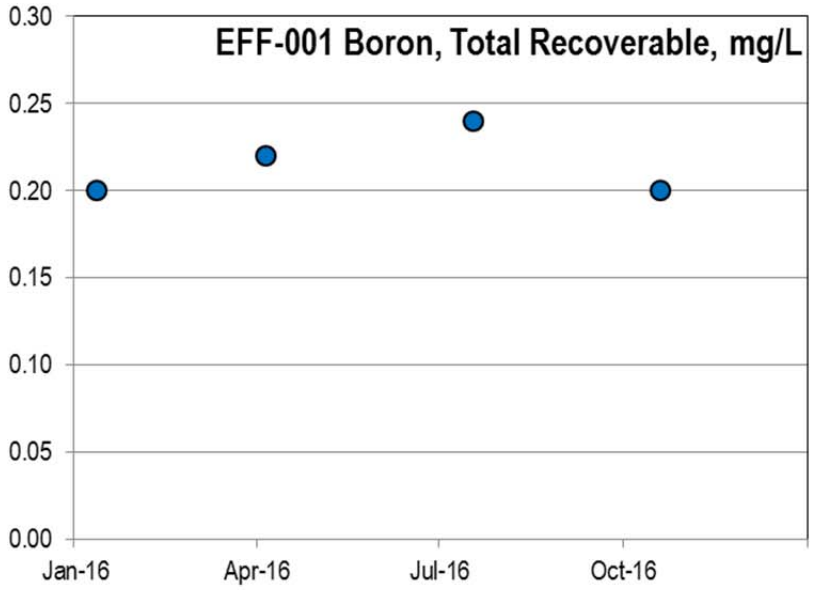

EFF-001 Sodium Load, lbs/day
6000
5000
4000
3000
2000
1000
0
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16

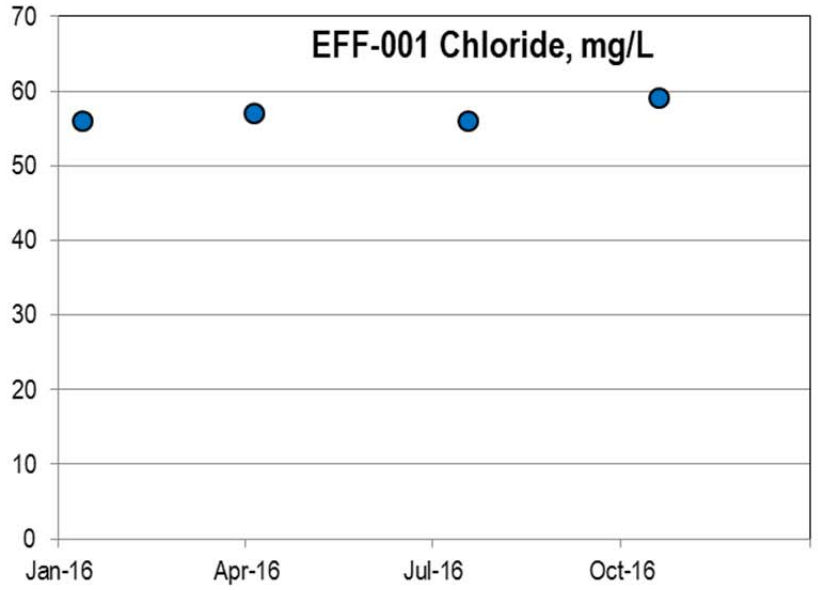
Quarterly Monitoring Effluent Concentrations

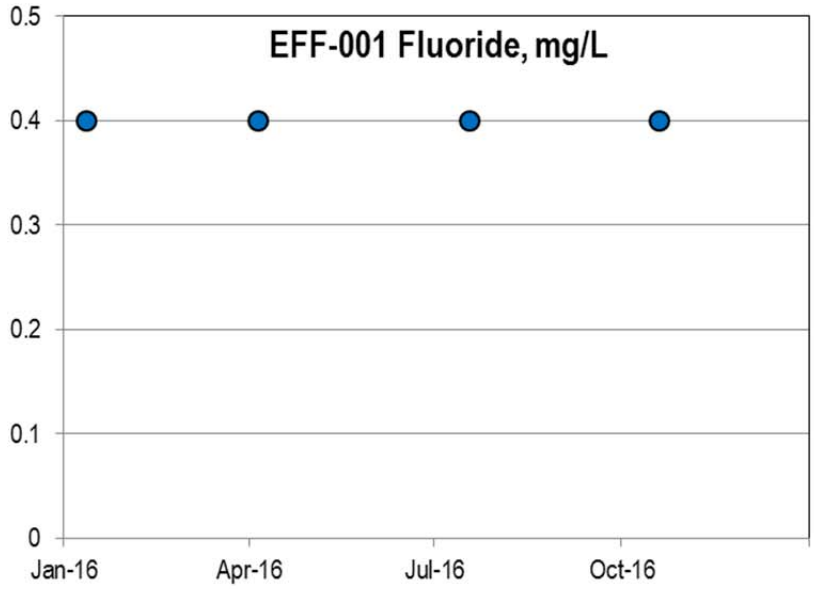
	Boron, Total Recoverable	Chloride, Total	Fluoride, Total	Methylene Blue Active Substances	Oil and Grease	Phenols, Total	Sulfate, Total (as SO4)	Hardness, Total (as CaCO3)	Acute Toxicity
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	% survival
1/12/16	0.20	56	0.4	<0.08	<2.6	<0.02	32	59	100%
4/5/16	0.22	57	0.4	0.10	<2.7	<0.02	34	70	100%
7/18/16	0.24	56	0.4	<0.08	<2.5	<0.02	32	75	100%
10/19/16	0.20	59	0.4	0.08	4.6	<0.02	32	75	100%

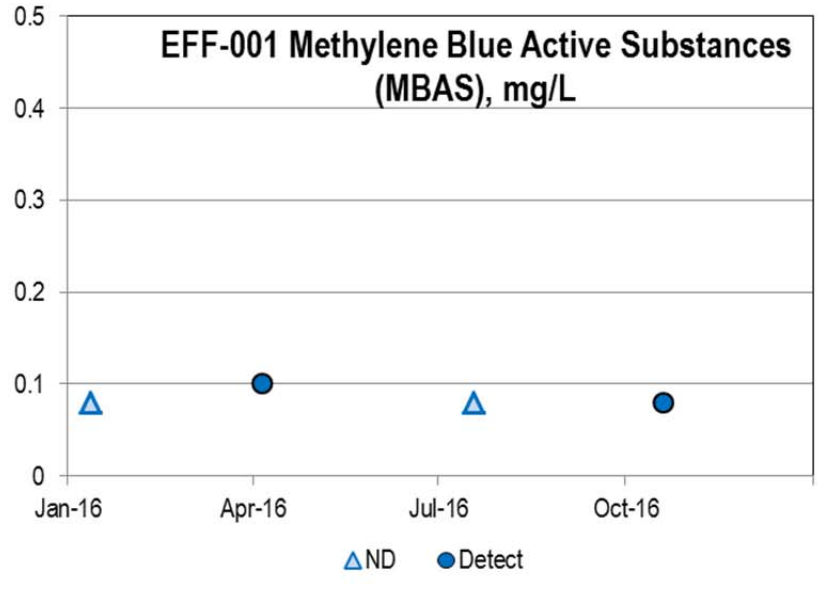
Quarterly Monitoring Effluent Loads, lbs/day

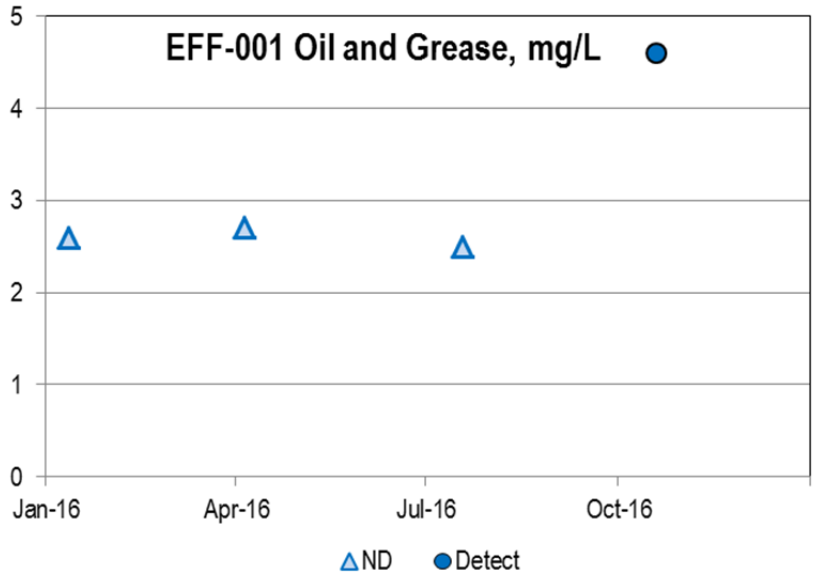
Date	Boron, Total Recoverable	Chloride, Total	Fluoride, Total	Methylene Blue Active Substances	Oil and Grease	Phenols, Total	Sulfate, Total (as SO4)
1/12/16	9.8	2749	19.6	ND	ND	ND	1571
4/5/16	10.2	2642	18.5	4.6	ND	ND	1576
7/18/16	7.1	1647	11.8	ND	ND	ND	941
10/19/16	9.0	2667	18.1	3.6	208	ND	1447

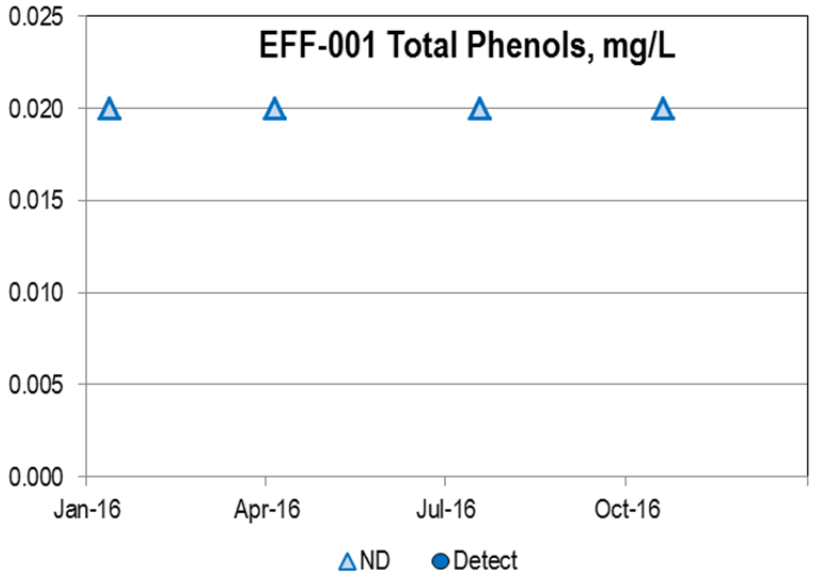

EFF-001 Boron, Total Recoverable, mg/L
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Jan-16
Apr-16
Jul-16
Oct-16

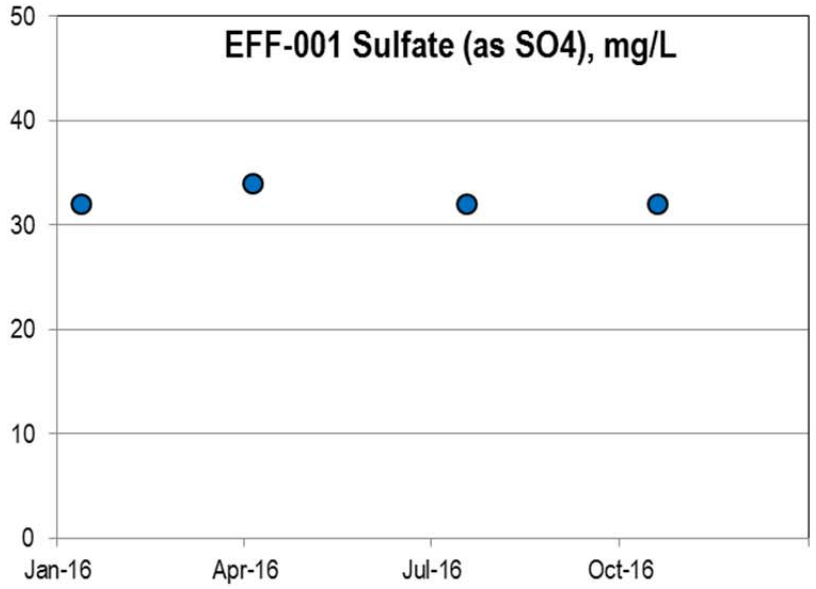

EFF-001 Chloride, mg/L
70
60
50
40
30
20
10
0
Jan-16
Apr-16
Jul-16
Oct-16

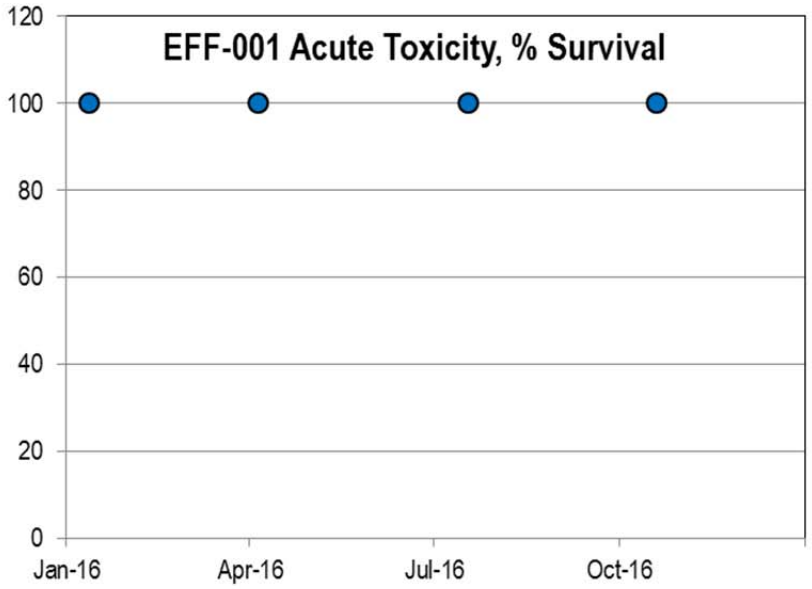

EFF-001 Fluoride, mg/L
0.5
0.4
0.3
0.2
0.1
0
Jan-16
Apr-16
Jul-16
Oct-16

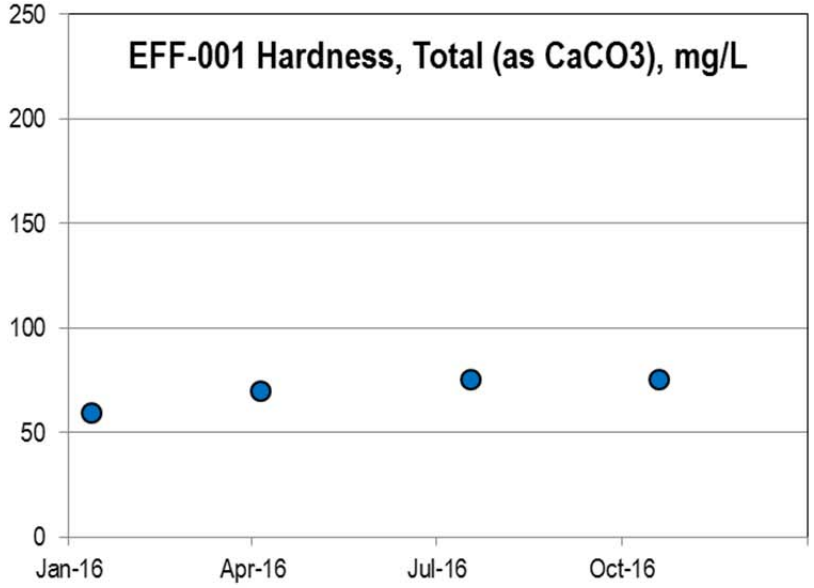

EFF-001 Methylene Blue Active Substances (MBAS), mg/L
0.5
0.4
0.3
0.2
0.1
0
Jan-16
Apr-16
Jul-16
Oct-16
ND
Detect

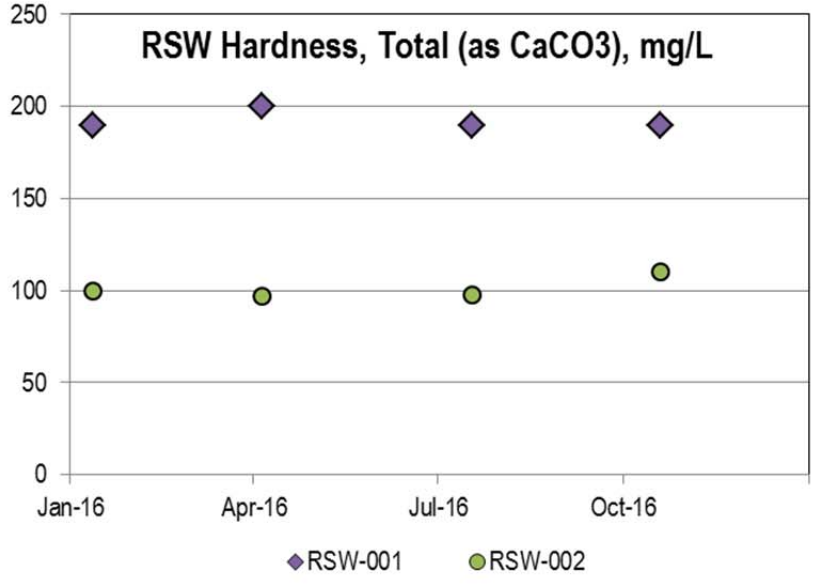

EFF-001 Oil and Grease, mg/L
5
4
3
2
1
0
Jan-16
Apr-16
Jul-16
Oct-16
ND
Detect

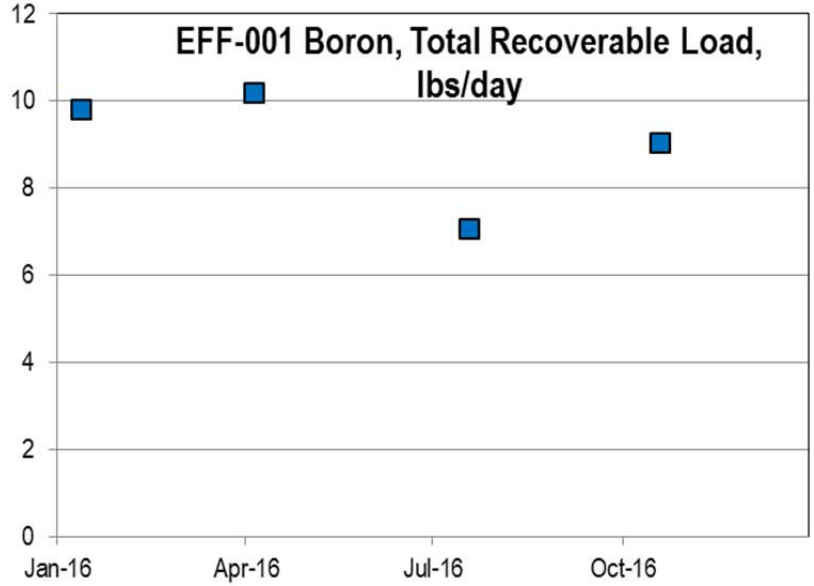

EFF-001 Total Phenols, mg/L
0.025
0.020
0.015
0.010
0.005
0.000
Jan-16
Apr-16
Jul-16
Oct-16
ND
Detect

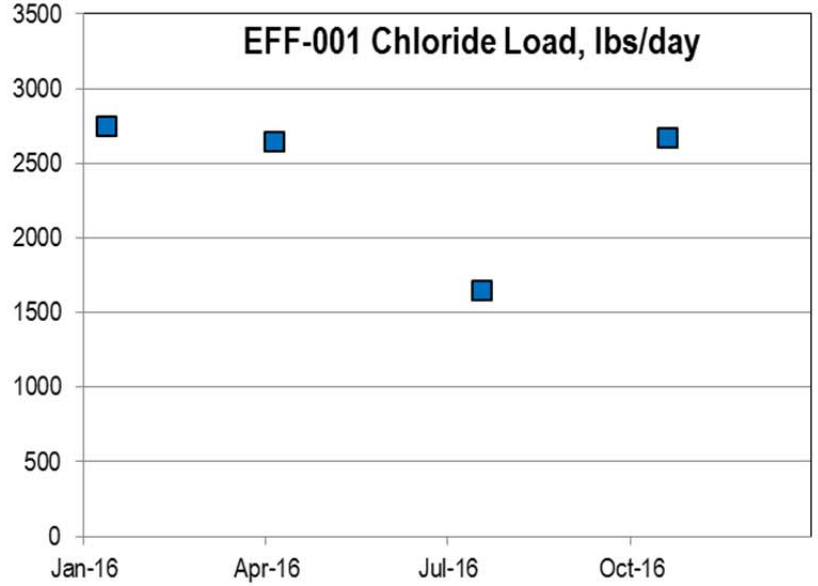

EFF-001 Sulfate (as SO4), mg/L
50
40
30
20
10
0
Jan-16
Apr-16
Jul-16
Oct-16

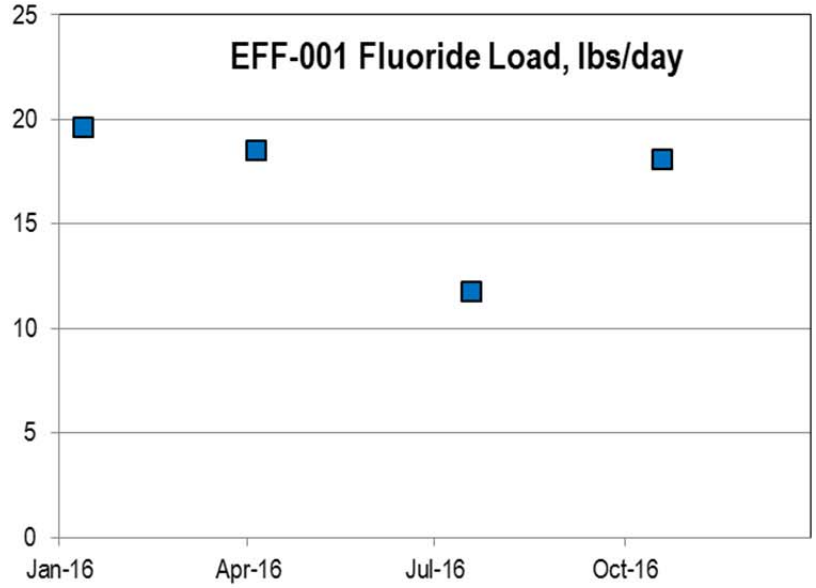

EFF-001 Acute Toxicity, % Survival
120
100
80
60
40
20
0
Jan-16
Apr-16
Jul-16
Oct-16

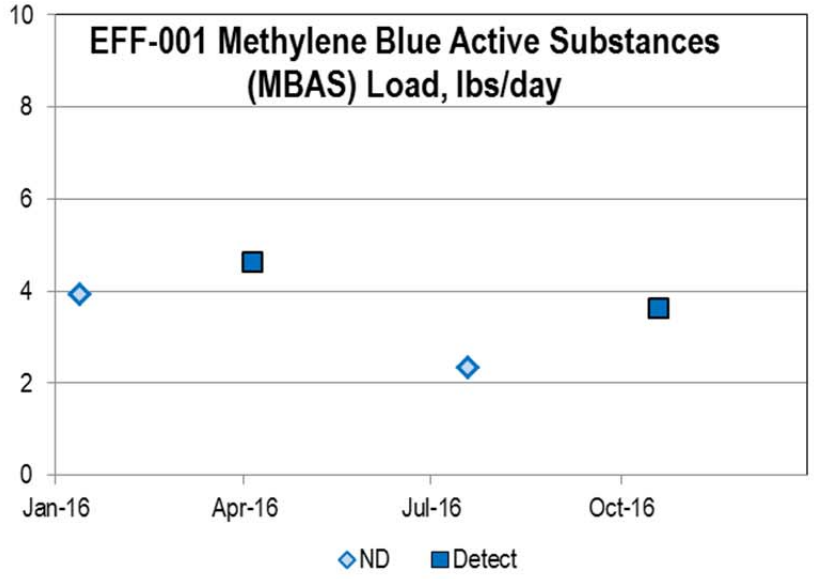

EFF-001 Hardness, Total (as CaCO3), mg/L
250
200
150
100
50
0
Jan-16
Apr-16
Jul-16
Oct-16

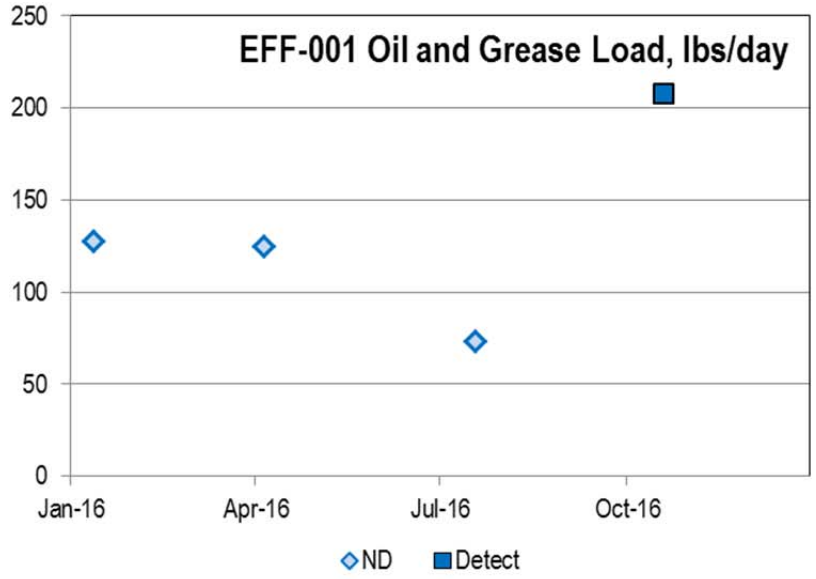

RSW Hardness, Total (as CaCO3), mg/L
250
200
150
100
50
0
Jan-16
Apr-16
Jul-16
Oct-16
RSW-001
RSW-002

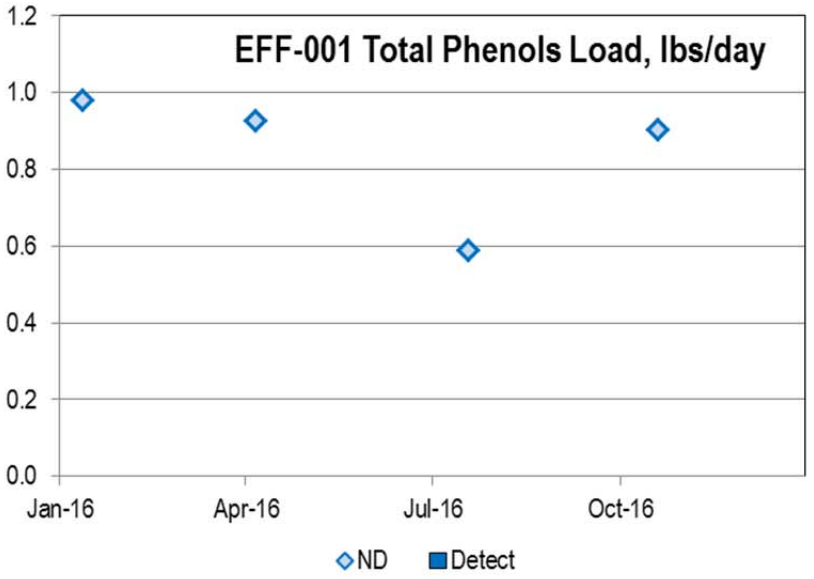

EFF-001 Boron, Total Recoverable Load, lbs/day
12
10
8
6
4
2
0
Jan-16
Apr-16
Jul-16
Oct-16

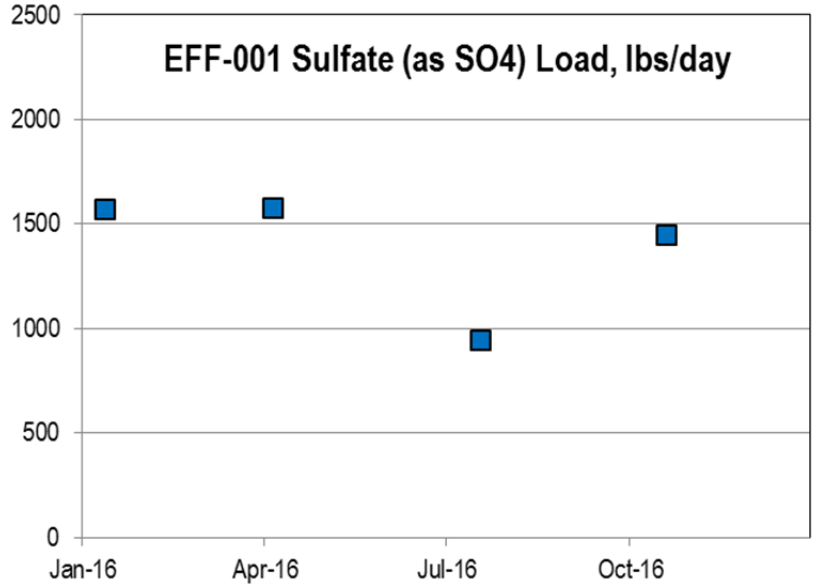

EFF-001 Chloride Load, lbs/day
3500
3000
2500
2000
1500
1000
500
0
Jan-16
Apr-16
Jul-16
Oct-16


EFF-001 Fluoride Load, lbs/day
25
20
15
10
5
0
Jan-16
Apr-16
Jul-16
Oct-16


EFF-001 Methylene Blue Active Substances (MBAS) Load, lbs/day
10
8
6
4
2
0
Jan-16
Apr-16
Jul-16
Oct-16
ND
Detect


EFF-001 Oil and Grease Load, lbs/day
250
200
150
100
50
0
Jan-16
Apr-16
Jul-16
Oct-16
ND
Detect


EFF-001 Total Phenols Load, lbs/day
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-16
Apr-16
Jul-16
Oct-16
ND
Detect


EFF-001 Sulfate (as SO4) Load, lbs/day
2500
2000
1500
1000
500
0
Jan-16
Apr-16
Jul-16
Oct-16

Annual Monitoring Results for Priority Pollutants and Additional Constituents (sampled 7/18/16)

							EFF-001	
PTP	Constituent	Analytical Method	Units	INF-001	RSW-001	RSW-002	To Mojave River	Secondary Grab
1	Antimony	EPA 200.8	µg/L	<0.81	<0.4	<0.4	<0.4	
2	Arsenic	EPA 200.8	µg/L	<2.3	<1.2	<1.2	<1.2	
3	Beryllium	EPA 200.8	µg/L	<0.52	<0.26	<0.26	<0.26	
4	Cadmium	EPA 200.8	µg/L	<0.51	<0.26	<0.26	<0.26	
5	Total Chromium	EPA 200.8	µg/L	<3.8	<1.9	<1.9	<1.9	
5a	Trivalent Chromium	Calculation	µg/L	<0.4	<0.4	<0.4	<0.4	
5b	Hexavalent Chromium	EPA 218.6	µg/L	<0.013	<0.013	<0.013	<0.013	
6	Copper	EPA 200.7	µg/L	24	-	-	<3.5	
		EPA 200.8	µg/L	-	<0.64	<0.64	-	
7	Lead	EPA 200.8	µg/L	<0.39	<0.19	<0.19	<0.19	
8	Mercury	EPA 200.8 ATP	µg/L	<0.11	<0.055	<0.055	<0.055	
9	Nickel	EPA 200.8	µg/L	<0.39	<0.2	<0.2	<0.2	
10	Selenium	EPA 200.8	µg/L	<2.7	<1.4	<1.4	<1.4	
11	Silver	EPA 200.8	µg/L	<0.45	<0.22	<0.22	<0.22	
12	Thallium	EPA 200.8	µg/L	<0.4	<0.2	<0.2	<0.2	
13	Zinc	EPA 200.7	µg/L	88	-	-	48	
		EPA 200.8	µg/L	-	<1.5	13	-	
14	Cyanide	SM 4500CN E	µg/L	<5	<5	<5	<5	
16	2,3,7,8-TCDD (scan)	EPA 625	µg/L	<0.25	<0.05	<0.05	<0.05	
17	Acrolein	EPA 624	µg/L	<1.1	<1.1	<1.1	<1.1	
18	Acrylonitrile	EPA 624	µg/L	<1.2	<1.2	<1.2	<1.2	
19	Benzene	EPA 624	µg/L	<0.14	<0.14	<0.14	<0.14	
20	Bromoform	EPA 524.2	µg/L	<0.5	-	-	<0.5	
		EPA 624	µg/L	<0.5	<0.5	<0.5	<0.5	
21	Carbon Tetrachloride	EPA 624	µg/L	<0.15	<0.15	<0.15	<0.15	
22	Chlorobenzene	EPA 624	µg/L	<0.23	<0.23	<0.23	<0.23	
23	Dibromochloromethane	EPA 524.2	µg/L	<0.37	-	-	<0.37	
		EPA 624	µg/L	<0.37	<0.37	<0.37	<0.37	
24	Chloroethane	EPA 624	µg/L	<0.35	<0.35	<0.35	<0.35	

PTP	Constituent	Analytical Method	Units	INF-001	RSW-001	RSW-002	EFF-001 To Mojave River	EFF-001 Secondary Grab
25	2-Chloroethylvinyl Ether	EPA 624	µg/L	<2.5	<2.5	<2.5	<2.5	
26	Chloroform	EPA 524.2	µg/L	<0.46	-	-	<0.46	
		EPA 624	µg/L	<0.46	<0.46	<0.46	<0.46	
27	Bromodichloromethane	EPA 524.2	µg/L	<0.5	-	-	<0.5	
		EPA 624	µg/L	<0.11	<0.11	<0.11	<0.11	
28	1,1-Dichloroethane	EPA 624	µg/L	<0.098	<0.098	<0.098	<0.098	
29	1,2-Dichloroethane	EPA 624	µg/L	<0.21	<0.21	<0.21	<0.21	
30	1,1-Dichloroethene	EPA 624	µg/L	<0.12	<0.12	<0.12	<0.12	
31	1,2-Dichloropropane	EPA 624	µg/L	<0.19	<0.19	<0.19	<0.19	
32	trans-1,3-Dichloropropene	EPA 624	µg/L	<0.24	<0.24	<0.24	<0.24	
32a	cis-1,3-Dichloropropene	EPA 624	µg/L	<0.3	<0.3	<0.3	<0.3	
33	Ethylbenzene	EPA 624	µg/L	<0.26	<0.26	<0.26	<0.26	
34	Bromomethane	EPA 624	µg/L	<0.48	<0.48	<0.48	<0.48	
35	Chloromethane	EPA 624	µg/L	<0.36	<0.36	<0.36	<0.36	
36	Methylene Chloride	EPA 624	µg/L	<0.15	<0.15	<0.15	<0.15	
37	1,1,2,2-Tetrachloroethane	EPA 624	µg/L	<0.29	<0.29	<0.29	<0.29	
38	Tetrachloroethene	EPA 624	µg/L	<0.23	<0.23	<0.23	<0.23	
39	Toluene	EPA 624	µg/L	<0.22	<0.22	<0.22	<0.22	
40	trans-1,2-Dichloroethene	EPA 624	µg/L	<0.1	<0.1	<0.1	<0.1	
41	1,1,1-Trichloroethane	EPA 624	µg/L	<0.12	<0.12	<0.12	<0.12	
42	1,1,2-Trichloroethane	EPA 624	µg/L	<0.31	<0.31	<0.31	<0.31	
43	Trichloroethene	EPA 624	µg/L	<0.25	<0.25	<0.25	<0.25	
44	Vinyl Chloride	EPA 624	µg/L	<0.13	<0.13	<0.13	<0.13	
45	2-Chlorophenol	EPA 625	µg/L	<8.9	<1.8	<1.8	<1.8	
46	2,4-Dichlorophenol	EPA 625	µg/L	<8.8	<1.8	<1.8	<1.8	
47	2,4-Dimethylphenol	EPA 625	µg/L	<8.4	<1.7	<1.7	<1.7	
48	2-Methyl-4,6-Dinitrophenol	EPA 625	µg/L	<8.8	<1.8	<1.8	<1.8	
49	2,4-Dinitrophenol	EPA 625	µg/L	<8	<1.6	<1.6	<1.6	
50	2-Nitrophenol	EPA 625	µg/L	<10	<2.1	<2.1	<2.1	
51	4-Nitrophenol	EPA 625	µg/L	<5.6	<1.1	<1.1	<1.1	

PTP	Constituent	Analytical Method	Units	INF-001	RSW-001	RSW-002	EFF-001	
							To Mojave River	Secondary Grab
52	4-Chloro-3-methylphenol	EPA 625	µg/L	<8	<1.6	<1.6	<1.6	
53	Pentachlorophenol	EPA 625	µg/L	<8.2	<1.6	<1.6	<1.6	
54	Phenol	EPA 625	µg/L	<5.4	<1.1	<1.1	<1.1	
55	2,4,6-Trichlorophenol	EPA 625	µg/L	<9.6	<1.9	<1.9	<1.9	
56	Acenaphthene	EPA 625	µg/L	<9.6	<1.9	<1.9	<1.9	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
57	Acenaphthylene	EPA 625	µg/L	<10	<2	<2	<2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
58	Anthracene	EPA 625	µg/L	<8.9	<1.8	<1.8	<1.8	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
59	Benzidine	EPA 625	µg/L	<29	<5.7	<5.7	<5.7	
60	Benzo(a)anthracene	EPA 625	µg/L	<8.3	<1.7	<1.7	<1.7	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
61	Benzo(a)pyrene	EPA 625	µg/L	<9.9	<2	<2	<2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
62	Benzo(b)fluoranthene	EPA 625	µg/L	<7.7	<1.5	<1.5	<1.5	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
63	Benzo(ghi)perylene	EPA 625	µg/L	<9.6	<1.9	<1.9	<1.9	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
64	Benzo(k)fluoranthene	EPA 625	µg/L	<11	<2.2	<2.2	<2.2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
65	Bis(2-chloroethoxy)methane	EPA 625	µg/L	<9.2	<1.8	<1.8	<1.8	
66	Bis(2-Chloroethyl)ether	EPA 625	µg/L	<9	<1.8	<1.8	<1.8	
67	Bis(2-chloroisopropyl)Ether	EPA 625	µg/L	<9.7	<1.9	<1.9	<1.9	
68	Bis(2-ethylhexyl)phthalate	EPA 625	µg/L	<12	<2.3	<2.3	<2.3	
69	4-Bromophenyl phenyl ether	EPA 625	µg/L	<8.2	<1.6	<1.6	<1.6	
70	Butyl benzyl phthalate	EPA 625	µg/L	<8.2	<1.6	<1.6	<1.6	
71	2-Chloronaphthalene	EPA 625	µg/L	<8.9	<1.8	<1.8	<1.8	
72	4-Chlorophenyl phenyl ether	EPA 625	µg/L	<9.1	<1.8	<1.8	<1.8	
73	Chrysene	EPA 625	µg/L	<8	<1.6	<1.6	<1.6	

PTP	Constituent	Analytical Method	Units	INF-001	RSW-001	RSW-002	EFF-001	
							To Mojave River	Secondary Grab
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
74	Dibenzo(a,h)anthracene	EPA 625	µg/L	<9.8	<2	<2	<2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
75	1,2-Dichlorobenzene	EPA 624	µg/L	<0.2	<0.2	<0.2	<0.2	
76	1,3-Dichlorobenzene	EPA 624	µg/L	<0.15	<0.15	<0.15	<0.15	
77	1,4-Dichlorobenzene	EPA 624	µg/L	<0.072	<0.072	<0.072	<0.072	
78	3,3'-Dichlorobenzidine	EPA 625	µg/L	<10	<2.1	<2.1	<2.1	
79	Diethyl phthalate	EPA 625	µg/L	<8.9	<1.8	<1.8	<1.8	
80	Dimethyl phthalate	EPA 625	µg/L	<8.6	<1.7	<1.7	<1.7	
81	Di-n-butylphthalate	EPA 625	µg/L	<9.4	<1.9	<1.9	<1.9	
82	2,4-Dinitrotoluene	EPA 625	µg/L	<9.2	<1.8	<1.8	<1.8	
83	2,6-Dinitrotoluene	EPA 625	µg/L	<9.4	<1.9	<1.9	<1.9	
84	Di-n-octylphthalate	EPA 625	µg/L	<13	<2.6	<2.6	<2.6	
85	1,2-Diphenylhydrazine	EPA 8270	µg/L	<9.2	<1.8	<1.8	<1.8	
86	Fluoranthene	EPA 625	µg/L	<10	<2	<2	<2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
87	Fluorene	EPA 625	µg/L	<9.9	<2	<2	<2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
88	Hexachlorobenzene	EPA 625	µg/L	<7.9	<1.6	<1.6	<1.6	
89	Hexachlorobutadiene	EPA 625	µg/L	<9.2	<1.8	<1.8	<1.8	
90	Hexachlorocyclopentadiene	EPA 625	µg/L	<8.7	<1.7	<1.7	<1.7	
91	Hexachloroethane	EPA 625	µg/L	<8.1	<1.6	<1.6	<1.6	
92	Indeno(1,2,3-cd)pyrene	EPA 625	µg/L	<10	<2	<2	<2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
93	Isophorone	EPA 625	µg/L	<9.7	<1.9	<1.9	<1.9	
94	Naphthalene	EPA 625	µg/L	<10	<2	<2	<2	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
95	Nitrobenzene	EPA 625	µg/L	<10	<2	<2	<2	
96	N-Nitrosodimethylamine	EPA 625	µg/L	<7.2	<1.4	<1.4	<1.4	
97	n-Nitrosodi-n-propylamine	EPA 625	µg/L	<8.5	<1.7	<1.7	<1.7	

PTP	Constituent	Analytical Method	Units	INF-001	RSW-001	RSW-002	EFF-001	
							To Mojave River	Secondary Grab
98	N-Nitrosodiphenylamine	EPA 625	µg/L	<8.6	<1.7	<1.7	<1.7	
99	Phenanthrene	EPA 625	µg/L	<9.4	<1.9	<1.9	<1.9	
		EPA625 SIM	µg/L	<0.25	-	-	<0.05	
100	Pyrene	EPA 625	µg/L	<8.6	<1.7	<1.7	<1.7	
		EPA625 SIM	µg/L	0.27	-	-	<0.05	
101	1,2,4-Trichlorobenzene	EPA 625	µg/L	<10	<2	<2	<2	
102	Aldrin	EPA 625	µg/L	<8.1	<1.6	<1.6	<1.6	
103	a-BHC	EPA 625	µg/L	<10	<2	<2	<2	
104	b-BHC	EPA 625	µg/L	<10	<2.1	<2.1	<2.1	
105	y-BHC	EPA 625	µg/L	<17	<3.4	<3.4	<3.4	
106	d-BHC	EPA 625	µg/L	<9.3	<1.9	<1.9	<1.9	
107	Chlordane (screen)	EPA 625	µg/L	<9	<1.8	<1.8	<1.8	
108	4,4'-DDT	EPA 625	µg/L	<11	<2.3	<2.3	<2.3	
109	4,4'-DDE	EPA 625	µg/L	<11	<2.1	<2.1	<2.1	
110	4,4'-DDD	EPA 625	µg/L	<12	<2.3	<2.3	<2.3	
111	Dieldrin	EPA 625	µg/L	<13	<2.6	<2.6	<2.6	
112	Endosulfan I	EPA 625	µg/L	<11	<2.2	<2.2	<2.2	
113	Endosulfan II	EPA 625	µg/L	<14	<2.8	<2.8	<2.8	
114	Endosulfan Sulfate	EPA 625	µg/L	<9.9	<2	<2	<2	
115	Endrin	EPA 625	µg/L	<13	<2.6	<2.6	<2.6	
116	Endrin Aldehyde (Scan)	EPA 625	µg/L	<50	<10	<10	<10	
117	Heptachlor	EPA 625	µg/L	<9.5	<1.9	<1.9	<1.9	
118	Heptachlor Epoxide	EPA 625	µg/L	<8.5	<1.7	<1.7	<1.7	
119	Aroclor 1016 (screen)	EPA 625	µg/L	<49	<9.9	<9.9	<9.9	
120	Aroclor 1221 (screen)	EPA 625	µg/L	<250	<50	<50	<50	
121	Aroclor 1232 (screen)	EPA 625	µg/L	<250	<50	<50	<50	
122	Aroclor 1242 (screen)	EPA 625	µg/L	<250	<50	<50	<50	
123	Aroclor 1248 (screen)	EPA 625	µg/L	<250	<50	<50	<50	
124	Aroclor 1254 (screen)	EPA 625	µg/L	<250	<50	<50	<50	
125	Aroclor 1260 (screen)	EPA 625	µg/L	<57	<11	<11	<11	

PTP	Constituent	Analytical Method	Units	INF-001	RSW-001	RSW-002	EFF-001 To Mojave River	EFF-001 Secondary Grab
126	Toxaphene (screen)	EPA 625	µg/L	<90	<18	<18	<18	
	Barium	EPA 200.8	µg/L	34	67	24	<0.18	
	Iron	EPA 200.7	µg/L	330	400	160	58	
	Manganese	EPA 200.8	µg/L	17	500	60	12	
	Molybdenum	EPA 200.8	µg/L	<0.33	<0.17	<0.17	<0.17	
	Methyl tert Butyl Ether	EPA 624	µg/L	<0.43	<0.43	<0.43	<0.43	
	Trichlorofluoromethane	EPA 624	µg/L	<0.16	<0.16	<0.16	<0.16	
	Xylenes (m+p)	EPA 624	µg/L	<0.36	<0.36	<0.36	<0.36	
	Total Trihalomethanes	EPA 524.2	µg/L	<0.5	-	-	<0.5	
	Xylenes (ortho)	EPA 624	µg/L	<0.41	<0.41	<0.41	<0.41	
	Calcium	EPA 200.7	mg/L	26	58	31	24	
	Cobalt	EPA 200.8	µg/L	<0.38	<0.19	<0.19	<0.19	
	Dichlorodifluoromethane	EPA 8260	µg/L	<0.18	<0.18	<0.18	<0.18	
	Potassium	EPA 200.7	mg/L	12	6.8	9.7	13	
	Magnesium	EPA 200.7	mg/L	4.3	11	5.2	3.8	
	Sodium	EPA 200.7	mg/L	78	81	92	80	
	Ortho Phosphate Phosphorus	SM 4500P E	mg/L	3.6	0.46	2.2	1.9	
	Total Silica	EPA 200.7	mg/L	22	30	24	23	
	Vanadium	EPA 200.8	µg/L	16	<4.1	<4.1	12	
	Chloride	EPA 300.0	mg/L	71	59	68	56	
	Fluoride	SM 4500F C	mg/L	0.4	0.6	0.5	0.4	
	Sulfate	EPA 300.0	mg/L	26	36	32	32	
	MBAS	SM 5540C	mg/L	2.1	-	-	<0.08	
	Boron	EPA 200.7	µg/L	160	210	240	240	
	Total Hardness	SM 2340B EPA 200.7	mg/L	82	190	98	75	
	Oil & Grease (HEM)	EPA 1664A	mg/L	10	-	-	<0.9	
	Total Dissolved Solids	SM 2540C	mg/L	320	450	390	650	
	Ammonia-Nitrogen	SM4500NH3H	mg/L	37	<0.059	0.16	0.25	0.43
	Nitrate as N	EPA 300.0	mg/L	<0.11	<0.11	1	2.3	2.2

PTP	Constituent	Analytical Method	Units	INF-001	RSW-001	RSW-002	EFF-001 To Mojave River	EFF-001 Secondary Grab
	Nitrite as N	SM 4500NO2 B	mg/L	<0.046	<0.046	<0.046	0.14	0.16
	Kjeldahl Nitrogen	EPA 351.2	mg/L	51	0.34	0.69	1.4	1.7

Annual Chronic Toxicity Effluent Monitoring Results

Location	Sample Date	Analysis Dates	Test Species	Analytical Method[a]	Survival NOEC	Survival TUc	Growth NOEC	Growth TUc
EFF-001	7/18/16	7/19 – 26/17	*Pimephales promelas*	EPA-821/R-02-013	100.00%	1.0	100.00%	1.0
			Ceriodaphnia dubia	EPN-821/R-02-013	100.00%	1.0	100.00%	1.0
RSW-001	7/18/16	7/19 – 26/17	*Pimephales promelas*	EPA-821/R-02-013	100.00%	1.0	100.00%	1.0
			Ceriodaphnia dubia	EPN-821/R-02-013	100.00%	1.0	100.00%	1.0
RSW-002	7/18/16	7/19 – 26/17	*Pimephales promelas*	EPA-821/R-02-013	100.00%	1.0	100.00%	1.0
			Ceriodaphnia dubia	EPN-821/R-02-013	100.00%	1.0	100.00%	1.0

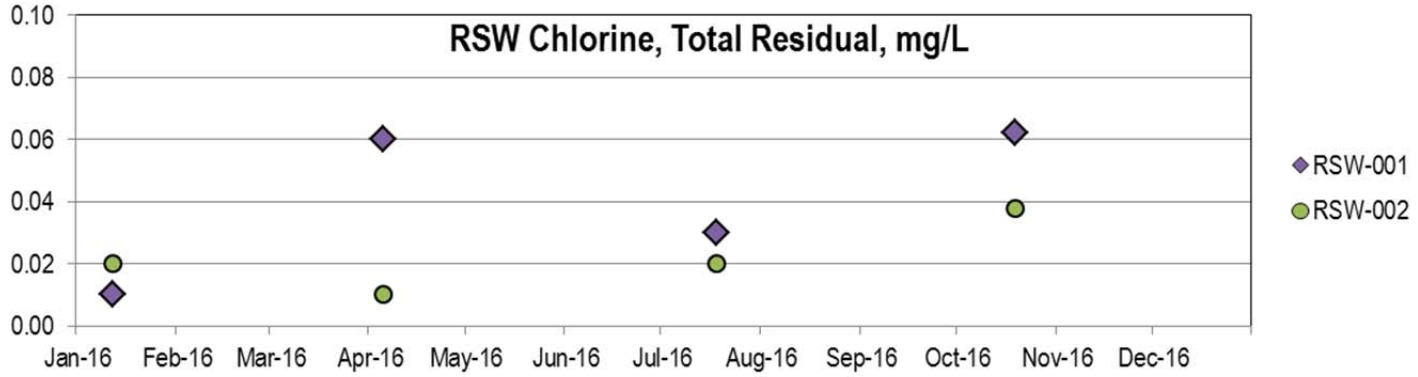
[a] Analyzed by Aquatic Bioassay Consulting Laboratories, Inc.

MOJAVE RIVER RECEIVING WATER MONITORING DATA

Receiving Water Concentrations

Date	TR Chlorine, mg/L	DO, mg/L	Hardness, mg/L	Ammonia-N, mg/L	Nitrate-N, mg/L	Nitrite-N, mg/L	TKN, mg/L	pH, SU	Temp, degrees C	Total Coliform, MPN/100mL	TDS, mg/L	Turbidity, NTU
RSW-001												
1/12/16	0.01	9.76	190	<0.1	<0.2	<0.1	0.14	7.44	6.5	55	0.14	6.29
1/29/16										20		
4/5/16	0.06	7.35	200	<0.1	<0.2	<0.1	0.23	7.96	15.8	35	0.23	2.64
7/18/16	0.03	4.67	190	<0.1	<0.2	<0.1	0.34	7.41	26.5	300	0.34	1.6
10/19/16	0.062	6.08	190	<0.1	<0.2	<0.1	<0.1	7.7	16	300	0.1	0.73
RSW-002												
1/6/16				<0.1								
1/12/16	0.02	6.59	100	<0.1	2.1	<0.1	0.8	7.48	10.3	400	394	1
1/20/16				<0.1								
1/29/16										250		
4/5/16	0.01	6.13	97	<0.1	2.6	<0.1	0.4	7.39	15.7	1200	451	1
7/18/16	0.02	5.11	98	0.2	1	<0.1	0.69	7.41	21.4	2400	390	0.8
10/19/16	0.038	5.4	110	<0.1	<0.2	<0.1	<0.1	7.6	16.2	1600	420	0.6

Receiving water graphs for these constituents are shown with the corresponding influent and effluent graphs in the WWTP Monitoring Summary. The graph of receiving water concentrations of total residual chlorine is shown below.



Names and Grades of Certified Operators

The following is a list of certified operators and maintenance personnel that were employed at the WWTP during 2016.

	Name	Discipline	Certification	Expiration
Operations	Adams, Brad	Wastewater	SWRCB Grade II - 41201	6/17/18
	Bustos, Johnny	Wastewater	SWRCB Grade I - 42253	4/25/18
	Salvador, Carlos	Wastewater	SWRCB Grade III - 42254	2/14/20
	Castro, Moises	Wastewater	SWRCB Grade II - 40655	9/2/17
	Correia, Bruce	Wastewater	SWRCB Grade I - 8784	12/31/18
	Davis, Eugene	Wastewater	SWRCB Grade III - 28028	6/30/18
	Hesse, Robert	Wastewater	SWRCB Grade III - 36559	9/16/18
	Laari, Latif	Drinking Water Treatment	SWRCB Grade T2 - 40212	2/1/20
		Water Distribution	SWRCB Grade D2 - 48044	2/1/20
		Environmental Compliance Inspector	CWEA Grade 2 - 130821552	12/31/17
		Collection System Maintenance	CWEA Grade 2 - 121022005	10/31/17
	Love, Ryan	Wastewater	SWRCB Grade V - 41891	6/22/18
	Lueken, Keith	Wastewater	SWRCB Grade V - 39828	12/29/18
		Collection System Maintenance	CWEA Grade 1 - 111021006	10/31/17
	McZeal, Phayean	Wastewater	SWRCB Grade II - 41467	2/27/18
		Water Distribution	SWRCB Grade D2 - 36432	2/1/18
	Mendoza, Miguel	Water Distribution	SWRCB Grade D2 - 36479	8/1/18
		Wastewater	SWRCB Grade V - 28854	1/19/18
	Olds, Logan	Wastewater	SWRCB Grade V - 9443	1/31/20
		Water Distribution	SWRCB Grade D2 - 10398	4/1/18
		Water Treatment Plant Operator	SWRCB Grade III - 21999	7/1/17
		Collection System Maintenance	CWEA Grade 4 - 60724020	7/31/17
		Laboratory Analyst	CWEA Grade 1 - 99076118	7/31/17
	Regis, Kyle	Wastewater	SWRCB Grade OIT-II - 42573	2/6/20
	Townsend, Robert	Water Distribution	SWRCB Grade D1 - 47979	11/1/19
		Collection System Maintenance	CWEA Grade 1 - 111021003	10/31/17
		Environmental Compliance Inspector	CWEA Grade 2 - 1308212950	9/30/17
	Tarango, Michael	Wastewater	SWRCB Grade III - 8345	6/30/17
Maintenance	Doneff, Bradley	Plant Maintenance Technologist	CWEA Grade 1 - 1308210317	12/31/17
	Avila, Marcos	Mechanical Technologist	CWEA Grade 2 - 130762005	7/31/17
		Plant Maintenance Technologist	CWEA Grade 1 - 120751001	7/31/17
	Koncur, Michael	Plant Maintenance Technologist	CWEA Grade 1 - 110951010	9/30/17
	Marin, Mauricio	Electrical/Instrumentation	CWEA Grade 4 - 130974002	9/30/17
	Shields, Patrick	Wastewater	SWRCB Grade I - 37642	6/30/18

Summary of Compliance Status in 2016

COMPLIANCE WITH TOXICITY TESTS

Acute toxicity samples were collected four times during 2016 from the WWTP's post-UV final effluent and performed using fathead minnows (*Pimephales promelas*), as required by the NPDES permit. All results showed 100% survival of the test species. Chronic toxicity samples were collected on July 18, 2016 in effluent and the Mojave River (upstream and downstream) and tests were performed using fathead minnows and *Ceriodaphnia dubia*. All results showed 100% No Observed Effect Concentration, or 1 TUc. Therefore, VVWRA was in compliance with NPDES requirements for toxicity.

COMPLIANCE WITH EFFLUENT LIMITS

Narrative Summary of 2016 WWTP Performance

Month	Narrative	Violations?
January	The total suspended solids removal was 99.4%, BOD removal was 99.0%, ammonia-N removal was 99% and the average turbidity was 0.60 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology.	No
February	The total suspended solids removal was 99.4%, BOD removal was 99.0%, ammonia-N removal was 99% and the average turbidity was 0.90 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology.	No
March	The total suspended solids removal was 99.5%, BOD removal was 99.1%, ammonia-N removal was 98.1% and the average turbidity was 0.68 NTU. On March 11, the confirmed sample result for total coliform (900 MPN/100mL) at EFF-001 exceeded the instantaneous maximum limit of 240 MPN/100mL. The fecal coliform result was <2 MPN/100mL, as well as all total and fecal coliform results before and after March 11. The UV transmittance, intensity, dose, and NTU were all at normal limits for flow disinfection. Best management practices were normal during sample collection. The cause of the high total coliform result is suspected to be environmental contamination. On March 29, an ammonia-N result at EFF-001 was measured above the final daily maximum effluent limit of 1.6 mg/L, however this concentration did not exceed the interim limits in Time Schedule Order R6V-2014-0039-A1 (in effect until March 31, 2016), therefore there was no violation of effluent limits.	Yes, total coliform
April	The total suspended solids removal was 99.6%, BOD removal was 99.3%, ammonia-N removal was 99.7% and the average turbidity was 0.49 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology.	No
May	The total suspended solids removal was 99.5%, BOD removal was 99.0%, ammonia-N removal was 99.6% and the average turbidity was 0.78 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology.	No

Month	Narrative	Violations?
June	The total suspended solids removal was 99.5%, BOD removal was 98.9%, ammonia-N removal was 99.5% and the average turbidity was 0.55 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology. No discharge was sent to the Mojave River on June 1st, 21st and 22nd, due to UV system maintenance.	No
July	The total suspended solids removal was 99.3%, BOD removal was 98.6%, ammonia-N removal was 99.4% and the average turbidity was 0.49 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology.	No
August	The total suspended solids removal was 99.3%, BOD removal was 98.9%, ammonia-N removal was 99.6% and the average turbidity was 0.42 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology.	No
September	The total suspended solids removal was 99.2%, BOD removal was 98.5%, ammonia-N removal was 99.3% and the average turbidity was 0.67 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology. No discharge was sent to the Mojave River on September 6, 7, 8, 9, 13, 14 and 15th due to UV system maintenance.	No
October	The total suspended solids removal was 99.5%, BOD removal was 98.8%, ammonia-N removal was 99.3% and the average turbidity was 0.59 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology. No discharge was sent to the Mojave River on October 2nd and 6th due to UV system maintenance.	No
November	The total suspended solids removal was 99.6%, BOD removal was 99.3%, ammonia-N removal was 99.7% and the average turbidity was 0.41 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology.	No
December	The total suspended solids removal was 99.6%, BOD removal was 99.3%, ammonia-N removal was 99.3% and the average turbidity was 0.52 NTU. Tertiary effluent discharged to the Mojave River met disinfection requirements through sole use of UV disinfection technology. No discharge was sent to the Mojave River on December 7, 8, 9 and 10th due to UV system maintenance.	No

Certification

I certify under penalty of law that this document was prepared under direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

This concludes my report. Additional information is available upon request.

Very Truly Yours,

Logan Olds

General Manager

Attachments: Chronic Toxicity Lab Report