

2017 Stormwater Sample Data at 1NE-outfall February - July

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
1NE-outfall	02/20/2017 12:27	02/20/2017 17:09	Rain	Composite	36								46	0.25
1NE-outfall	02/23/2017 09:25		Base	Grab	31	6.8	772.0	12.88	7.6	0.59	1184.0	38	299	0.68
1NE-outfall	03/20/2017 09:20		Base	Grab	44	7.8	1526.0	11.54	7.5	1.17	2274.0	35	289	0.66
1NE-outfall	04/05/2017 09:50		E Coli	Grab	40							> 100		
1NE-outfall	04/14/2017 09:20		Base	Grab	50	10.3	983.6	10.39	8.0	0.70	1367.2	> 100	356	0.12
1NE-outfall	04/15/2017 07:30	04/15/2017 10:35	Rain	Composite	50								47	0.16
1NE-outfall	04/19/2017 16:15	04/19/2017 21:15	Rain	Composite	40								32	0.09
1NE-outfall	04/20/2017 09:45		E Coli	Grab	41	12.8	628.4	9.54	7.7	0.40	816.5	31		
1NE-outfall	04/28/2017 08:45		Base	Grab	36	7.9	862.0	12.42	7.7	0.64	1282.0	> 100	337	0.26
1NE-outfall	05/03/2017 11:15		E Coli	Grab	55	10.7	1005.0	9.86	7.6	0.70	1381.0	21		
1NE-outfall	05/10/2017 09:28		Base	Grab	63	12.1	987.0	10.44	7.6	0.66	1309.0	> 100	320	0.27
1NE-outfall	05/17/2017 01:20	05/17/2017 06:00	Rain	Composite	50								49	0.32
1NE-outfall	05/17/2017 10:15		E Coli	Grab	63							30		
1NE-outfall	05/17/2017 16:30	05/17/2017 17:30	Rain	Composite	50								36	0.12
1NE-outfall	05/17/2017 19:45	05/17/2017 23:40	Rain	Composite	50							9	29	0.11
1NE-outfall	05/20/2017 10:55	05/20/2017 18:10	Rain	Composite	53								30	~ 0.03
1NE-outfall	05/24/2017 09:45		Base	Grab	50	12.1	934.0	10.65	7.7	0.62	1239.0		336	0.56
1NE-outfall	06/07/2017 10:55		E Coli	Grab	80							> 100		
1NE-outfall	06/11/2017 08:55	06/11/2017 22:05	Rain	Composite	70							7	101	< 0.02
1NE-outfall	06/13/2017 09:50		Base	Grab	75	15.3	842.0	10.46	7.8	0.51	1033.0	> 100	230	0.39
1NE-outfall	06/17/2017 21:05	06/18/2017 03:20	Rain	Composite	65								75	< 0.02
1NE-outfall	06/20/2017 06:25	06/20/2017 10:55	Rain	Composite	70								126	0.08
1NE-outfall	06/21/2017 12:15		E Coli	Grab	75	16.3	928.0	9.05	7.7	0.56	1114.0	> 100		
1NE-outfall	06/27/2017 09:20		Base	Grab	67	14.1	1015.0	9.61	7.6	0.64	1281.0	> 100	289	0.52
1NE-outfall	07/05/2017 09:20		E Coli	Grab	75							32		
1NE-outfall	07/11/2017 09:15		Base	Grab	75	16.5	916.0	10.17	7.6	0.54	1093.0	> 100	307	0.10
1NE-outfall	07/12/2017 02:40	07/12/2017 05:25	Rain	Composite	85								88	~ 0.06
1NE-outfall	07/17/2017 22:30	07/17/2017 23:40	Rain	Composite	76							13	29	~ 0.03
1NE-outfall	07/19/2017 09:30		E Coli	Grab	78	17.5	1046.0	9.04	7.4	0.61	1222.0	> 100		
1NE-outfall	07/25/2017 09:30		Base	Grab	70	18.9	875.8	8.54	7.9	0.50	988.3	> 100	304	0.06
1NE-outfall	07/25/2017 19:45	07/25/2017 22:40	Rain	Composite	73								73	~ 0.02

2017 Stormwater Sample Data at 1NE-outfall February - July continued

Station	Sample Start	Sample End	Carbonaceous			Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)								
1NE-outfall	02/20/2017 12:27	02/20/2017 17:09	12.0	255	145.4	0.11	0.10	0.89		132	2.90	0.41	0.06
1NE-outfall	02/23/2017 09:25		4.8	54	85.3	0.08	~ 0.01	0.17	47	574	2.95	1.71	0.15
1NE-outfall	03/20/2017 09:20		2.5	38	465.9	0.03	0.01	0.11	9550	458	1.85	2.13	0.05
1NE-outfall	04/05/2017 09:50								10				
1NE-outfall	04/14/2017 09:20		3.2	~ 14	104.5	< 0.02	< 0.01	~ 0.04		500	0.95	1.17	< 0.03
1NE-outfall	04/15/2017 07:30	04/15/2017 10:35		86	41.4	< 0.02		0.35		80	2.30	0.33	0.05
1NE-outfall	04/19/2017 16:15	04/19/2017 21:15	8.7	88	30.6	~ 0.04	0.04	0.39		76	1.60	0.30	< 0.03
1NE-outfall	04/20/2017 09:45								430				
1NE-outfall	04/28/2017 08:45		1.5	17	99.8	< 0.02	~ 0.01	~ 0.03		500	0.98	1.79	0.06
1NE-outfall	05/03/2017 11:15								60				
1NE-outfall	05/10/2017 09:28		1.4	23	127.0	< 0.02	~ 0.01	0.03		548	1.05	1.62	0.09
1NE-outfall	05/17/2017 01:20	05/17/2017 06:00		64	27.7	0.05		0.28		88	2.20	1.49	0.08
1NE-outfall	05/17/2017 10:15								24200				
1NE-outfall	05/17/2017 16:30	05/17/2017 17:30	10.0	207	15.1	~ 0.02	0.01	1.07		140	4.70	0.32	0.04
1NE-outfall	05/17/2017 19:45	05/17/2017 23:40	5.0	58	25.7	~ 0.03	0.02	0.25		56	1.50	0.26	0.03
1NE-outfall	05/20/2017 10:55	05/20/2017 18:10		27	12.2	~ 0.04		0.16		40	0.78	0.22	< 0.03
1NE-outfall	05/24/2017 09:45		2.1	34	89.1	< 0.02	~ 0.01	0.06		500	1.70	2.79	0.13
1NE-outfall	06/07/2017 10:55								30				
1NE-outfall	06/11/2017 08:55	06/11/2017 22:05	> 23.0	206	47.1	0.08	~ 0.01	1.24		200	6.40	< 0.05	< 0.03
1NE-outfall	06/13/2017 09:50		1.8	23	81.9	0.05	0.02	0.14		404	1.20	1.57	0.13
1NE-outfall	06/17/2017 21:05	06/18/2017 03:20		76	32.6	0.10		0.47		132	2.10	0.39	0.12
1NE-outfall	06/20/2017 06:25	06/20/2017 10:55	> 9.0	47	51.7	~ 0.03	0.01	0.22		212	1.50	1.12	0.13
1NE-outfall	06/21/2017 12:15								200				
1NE-outfall	06/27/2017 09:20		1.2	21	91.2	< 0.02	0.01	~ 0.03		556	1.20	2.16	0.22
1NE-outfall	07/05/2017 09:20								2910				
1NE-outfall	07/11/2017 09:15		0.9	~ 10	85.2	< 0.02	0.01	< 0.02		388	0.58	1.52	0.04
1NE-outfall	07/12/2017 02:40	07/12/2017 05:25		196	30.1	~ 0.05		0.72		152	3.40	0.30	< 0.03
1NE-outfall	07/17/2017 22:30	07/17/2017 23:40	> 7.8	145	6.2	0.16	~ 0.01	0.73		~ 21	2.90	< 0.05	< 0.03
1NE-outfall	07/19/2017 09:30								60				
1NE-outfall	07/25/2017 09:30		0.8	22	82.8	~ 0.02	0.02	0.08		394	0.33	1.36	0.04
1NE-outfall	07/25/2017 19:45	07/25/2017 22:40	> 8.3	190	21.5	~ 0.02	~ 0.01	0.73		137	3.30	< 0.05	< 0.03

2017 Stormwater Sample Data at 1NE-outfall February - July continued

Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
1NE-outfall	02/20/2017 12:27	02/20/2017 17:09	10.4	19.0							330	10.9	341	93
1NE-outfall	02/23/2017 09:25		164.2	> 8.0							729	13.9	9	6
1NE-outfall	03/20/2017 09:20		153.0	4.1							1300	8.6	8	4
1NE-outfall	04/05/2017 09:50													
1NE-outfall	04/14/2017 09:20		162.0	3.5	< 0.0002	~ 0.0001	0.0011	~ 0.0002	0.0029	0.0042	804	4.3	3	~ 2
1NE-outfall	04/15/2017 07:30	04/15/2017 10:35	21.9								160	5.8	124	42
1NE-outfall	04/19/2017 16:15	04/19/2017 21:15	1.9	22.0							110	6.0	248	69
1NE-outfall	04/20/2017 09:45													
1NE-outfall	04/28/2017 08:45		195.0	1.5							834	6.6	~ 1	~ 1
1NE-outfall	05/03/2017 11:15													
1NE-outfall	05/10/2017 09:28		227.5	2.7	< 0.0002	0.0003	0.0016	0.0002	0.0028	0.0080	868	7.9	~ 1	~ 2
1NE-outfall	05/17/2017 01:20	05/17/2017 06:00	23.2								164	8.4	119	30
1NE-outfall	05/17/2017 10:15													
1NE-outfall	05/17/2017 16:30	05/17/2017 17:30	8.1	18.0							106	7.1	704	148
1NE-outfall	05/17/2017 19:45	05/17/2017 23:40	5.6	6.7							111	5.2	149	35
1NE-outfall	05/20/2017 10:55	05/20/2017 18:10	2.1								80	6.0	43	16
1NE-outfall	05/24/2017 09:45		198.0	1.7							788	11.1	4	3
1NE-outfall	06/07/2017 10:55													
1NE-outfall	06/11/2017 08:55	06/11/2017 22:05	47.8	> 24.0							290	21.1	319	
1NE-outfall	06/13/2017 09:50		173.0	2.2	< 0.0002	0.0005	0.0018	~ 0.0003	0.0024	0.0139	667	8.1	~ 2	
1NE-outfall	06/17/2017 21:05	06/18/2017 03:20	53.4								247	12.4	76	
1NE-outfall	06/20/2017 06:25	06/20/2017 10:55	90.5	6.4							389	12.5	21	
1NE-outfall	06/21/2017 12:15													
1NE-outfall	06/27/2017 09:20		263.0	1.4							856	6.7	~ 1	
1NE-outfall	07/05/2017 09:20													
1NE-outfall	07/11/2017 09:15		138.0	0.5	< 0.0002	0.0003	0.0014	~ 0.0002	0.0026	0.0050	682	4.6	~ 2	~ 1
1NE-outfall	07/12/2017 02:40	07/12/2017 05:25	30.7								247	35.4	228	53
1NE-outfall	07/17/2017 22:30	07/17/2017 23:40	7.4	> 7.9	~ 0.0004	0.0094	0.0242	0.0215	0.0087	0.1390	77	14.5	314	78
1NE-outfall	07/19/2017 09:30													
1NE-outfall	07/25/2017 09:30		109.0	0.7							613	4.1	~ 1	~ 1
1NE-outfall	07/25/2017 19:45	07/25/2017 22:40	43.6	> 8.3							228	31.2	292	104

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
1NE-outfall	07/26/2017 04:40	07/26/2017 07:25	Rain	Composite	73								47	~ 0.04
1NE-outfall	08/02/2017 09:50		E Coli	Grab	74	20.0	904.6	7.75	7.8	0.50	997.0	> 100		
1NE-outfall	08/03/2017 07:10	08/03/2017 14:30	Rain	Composite	70							12	71	< 0.02
1NE-outfall	08/06/2017 13:55	08/06/2017 14:50	Rain	Composite	70							8	34	< 0.02
1NE-outfall	08/15/2017 09:50		E Coli	Grab	66	16.3	992.0	9.44	7.2	0.60	1191.0	> 100		
1NE-outfall	08/16/2017 04:35	08/16/2017 05:20	Rain	Composite	68								38	~ 0.05
1NE-outfall	08/16/2017 07:30	08/16/2017 08:30	Rain	Composite	68								32	0.14
1NE-outfall	08/22/2017 09:45		Base	Grab	65	15.5	1011.0	9.80	7.4	0.62	1235.0	> 100	365	0.06
1NE-outfall	08/28/2017 10:45		Base	Grab	65	15.9	1006.0	9.99	7.5	0.61	1217.0	> 100	358	0.10
1NE-outfall	09/06/2017 09:15		E Coli	Grab	57	14.6	1060.0	9.07	7.4	0.67	1323.0	> 100		
1NE-outfall	09/12/2017 09:40		Base	Grab	70	16.3	1148.0	9.66	7.5	0.69	1377.0	> 100	378	0.14
1NE-outfall	09/20/2017 03:05	09/20/2017 04:50	Rain	Composite	70							7	64	0.06
1NE-outfall	09/20/2017 04:55	09/20/2017 12:30	Rain	Composite	70							25	124	~ 0.06
1NE-outfall	09/20/2017 11:25		E Coli	Grab	70							41		
1NE-outfall	09/25/2017 07:30	09/25/2017 13:00	Rain	Composite	60								125	~ 0.05
1NE-outfall	09/26/2017 00:30	09/26/2017 10:05	Rain	Composite	60								164	0.18
1NE-outfall	09/28/2017 09:35		Base	Grab	58	16.3	814.0	8.83	7.1	0.49	978.0	> 100	358	0.32
1NE-outfall	10/02/2017 02:15	10/02/2017 06:00	Rain	Composite	60								56	0.23
1NE-outfall	10/02/2017 16:15	10/02/2017 20:10	Rain	Composite	63								27	0.16
1NE-outfall	10/04/2017 09:30		E Coli	Grab	48	14.8	620.2	9.08	7.6	0.40	770.3	39		
1NE-outfall	10/18/2017 09:50		E Coli	Grab	50							51		
1NE-outfall	10/21/2017 08:00	10/21/2017 11:40	Rain	Composite	50								90	~ 0.02
1NE-outfall	10/24/2017 09:20		Base	Grab	40	11.8	1035.0	10.58	6.9	0.70	1385.0	> 100	361	0.50
1NE-outfall	11/01/2017 09:45		E Coli	Grab	32	10.9	906.0	9.64	8.0	0.62	1242.0	> 100		
1NE-outfall	11/07/2017 09:45		Base	Grab	30	9.7	998.0	10.45	7.9	0.71	1409.0	> 100	372	0.61
1NE-outfall	11/15/2017 09:40		E Coli	Grab	30	7.8	1182.0	11.82	6.9	0.89	1759.0	21		
1NE-outfall	11/21/2017 09:20		Base	Grab	20	7.7	830.0	10.98	7.6	0.62	1240.0	> 100	351	~ 0.05
1NE-outfall	12/08/2017 09:45		Base	Grab	25	6.4	1061.0	11.74	7.6	0.83	1647.0	35	392	1.39
1NE-outfall	12/19/2017 09:55		Base	Grab	35	7.8	1255.0	10.70	7.8	0.95	1867.0	54	360	0.79

2017 Stormwater Sample Data at 1NE-outfall July - December continued

Station	Sample Start	Sample End	Carbonaceous					Total Phosphorus (mg/L)	E. coli (MPN/100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)						
1NE-outfall	07/26/2017 04:40	07/26/2017 07:25	8.7	58	14.0	~ 0.03	0.03	0.22		44	1.10	0.32	< 0.03
1NE-outfall	08/02/2017 09:50								60				
1NE-outfall	08/03/2017 07:10	08/03/2017 14:30		111	25.3	< 0.02		0.39		165	2.10	< 0.05	< 0.03
1NE-outfall	08/06/2017 13:55	08/06/2017 14:50	10.0	109	4.5	< 0.02	< 0.01	0.58		79	2.80	< 0.05	< 0.03
1NE-outfall	08/15/2017 09:50								1140				
1NE-outfall	08/16/2017 04:35	08/16/2017 05:20		66	10.6	0.06	0.05	0.20		49	1.00	0.30	0.04
1NE-outfall	08/16/2017 07:30	08/16/2017 08:30		74	6.4	~ 0.05	0.05	0.37		37	1.20	0.24	0.04
1NE-outfall	08/22/2017 09:45		1.2	16	101.9	0.02	0.01	< 0.02		469	0.52	1.20	0.04
1NE-outfall	08/28/2017 10:45		1.1	16	95.1	< 0.02	0.01	~ 0.04		537	0.68	1.78	0.06
1NE-outfall	09/06/2017 09:15								3450				
1NE-outfall	09/12/2017 09:40		3.0	21	113.1	< 0.02	0.01	~ 0.04		631	0.94	1.00	0.08
1NE-outfall	09/20/2017 03:05	09/20/2017 04:50		164	13.1	~ 0.04		0.75		87	3.40	0.18	0.04
1NE-outfall	09/20/2017 04:55	09/20/2017 12:30		45	39.3	~ 0.04		0.17		193	1.10	0.59	0.06
1NE-outfall	09/20/2017 11:25								6130				
1NE-outfall	09/25/2017 07:30	09/25/2017 13:00		69	41.3	~ 0.02		0.54		145	1.50	0.23	< 0.03
1NE-outfall	09/26/2017 00:30	09/26/2017 10:05		40	51.9	~ 0.02		0.09		253	1.10	0.64	0.07
1NE-outfall	09/28/2017 09:35		1.5	23	97.4	~ 0.03	0.02	< 0.02		525	~ 0.06	1.14	0.15
1NE-outfall	10/02/2017 02:15	10/02/2017 06:00	7.6	71	16.4	0.07	0.07	0.28		72	1.30	0.41	0.04
1NE-outfall	10/02/2017 16:15	10/02/2017 20:10	8.8	96	5.3	~ 0.05	0.03	0.48		87	2.20	0.26	0.05
1NE-outfall	10/04/2017 09:30								1550				
1NE-outfall	10/18/2017 09:50								20				
1NE-outfall	10/21/2017 08:00	10/21/2017 11:40		122	27.0	0.12		0.61		159	2.60	< 0.05	< 0.03
1NE-outfall	10/24/2017 09:20		1.3	18	107.7	0.02	0.02	0.06		589	0.98	1.41	0.11
1NE-outfall	11/01/2017 09:45								200				
1NE-outfall	11/07/2017 09:45		1.1	35	106.8	< 0.02	< 0.01	< 0.02		540	1.25	1.11	0.07
1NE-outfall	11/15/2017 09:40								680				
1NE-outfall	11/21/2017 09:20		1.1	~ 13	100.1	< 0.02	~ 0.01	< 0.02		447	0.47	1.37	< 0.03
1NE-outfall	12/08/2017 09:45		1.1	40	142.4	~ 0.02	< 0.01	~ 0.02		703	2.70	0.54	0.06
1NE-outfall	12/19/2017 09:55		1.5	17	225.1	< 0.02	0.01	0.06		44	599	2.05	0.55

2017 Stormwater Sample Data at 1NE-outfall July - December continued

Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
1NE-outfall	07/26/2017 04:40	07/26/2017 07:25	13.5	> 8.8							124	13.5	48	14
1NE-outfall	08/02/2017 09:50													
1NE-outfall	08/03/2017 07:10	08/03/2017 14:30	61.1								246	19.1	180	50
1NE-outfall	08/06/2017 13:55	08/06/2017 14:50	5.3	17.0							58	6.6	761	121
1NE-outfall	08/15/2017 09:50													
1NE-outfall	08/16/2017 04:35	08/16/2017 05:20	20.2								115	13.4	44	16
1NE-outfall	08/16/2017 07:30	08/16/2017 08:30	4.7								74	6.0	161	32
1NE-outfall	08/22/2017 09:45		147.0	0.6	< 0.0002	0.0002	0.0017	~ 0.0003	0.0034	0.0058	776	4.4	1	~ 1
1NE-outfall	08/28/2017 10:45		162.0	0.7							795	5.2	< 1	< 1
1NE-outfall	09/06/2017 09:15													
1NE-outfall	09/12/2017 09:40		217.0	3.0							914	4.9	5	3
1NE-outfall	09/20/2017 03:05	09/20/2017 04:50	29.0								151	8.9	500	132
1NE-outfall	09/20/2017 04:55	09/20/2017 12:30	73.9								329	8.8	32	~ 10
1NE-outfall	09/20/2017 11:25													
1NE-outfall	09/25/2017 07:30	09/25/2017 13:00	50.8								302	14.4	93	24
1NE-outfall	09/26/2017 00:30	09/26/2017 10:05	50.9								462	12.6	12	~ 5
1NE-outfall	09/28/2017 09:35		238.0	1.5	< 0.0002	0.0031	0.0020	0.0007	0.0032	0.0132	901	6.1	3	~ 2
1NE-outfall	10/02/2017 02:15	10/02/2017 06:00	33.9	7.9							149	8.2	89	22
1NE-outfall	10/02/2017 16:15	10/02/2017 20:10	13.7	9.3							90	5.6	258	49
1NE-outfall	10/04/2017 09:30													
1NE-outfall	10/18/2017 09:50													
1NE-outfall	10/21/2017 08:00	10/21/2017 11:40	59.7		< 0.0002	0.0038	0.0144	0.0057	0.0033	0.0791	135	26.7	75	33
1NE-outfall	10/24/2017 09:20		244.5	1.0	0.0026	0.0001	0.0013	0.0001	0.0030	0.0023	887	5.2	~ 1	~ 1
1NE-outfall	11/01/2017 09:45													
1NE-outfall	11/07/2017 09:45		213.5	0.8							869	5.1	2	
1NE-outfall	11/15/2017 09:40													
1NE-outfall	11/21/2017 09:20		141.0	0.5	< 0.0002	~ 0.0001	0.0012	~ 0.0002	0.0032	< 0.0050	755	4.7	~ 1	
1NE-outfall	12/08/2017 09:45		319.0	1.2							1080	6.5	7	~ 3
1NE-outfall	12/19/2017 09:55		152.5	2.8	< 0.0002	0.0004	0.0018	0.0004	0.0038	0.0084	1140	4.2	11	4

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
11CHF-outfall	01/03/2017 09:20		Base	Grab	15	5.3	4214.0	11.94	7.4	3.68	6754.0	96	164	0.52
11CHF-outfall	01/21/2017 11:39	01/22/2017 16:05	Melt	Composite	34								44	0.98
11CHF-outfall	02/10/2017 11:15		Base	Grab	29	5.1	2039.0	12.83	7.8	1.71	3285.0	31	119	0.58
11CHF-outfall	02/20/2017 12:04	02/20/2017 15:30	Rain	Composite	36								27	0.32
11CHF-outfall	02/23/2017 09:00		Base	Grab	31	5.6	695.0	12.83	7.5	0.55	1103.0	32	119	0.10
11CHF-outfall	03/08/2017 09:02		Base	Grab	22	5.9	846.0	12.32	7.8	0.67	1330.0	85	195	0.25
11CHF-outfall	04/05/2017 09:30		E Coli	Grab	40	15.1	615.8	9.62		0.40	758.1			
11CHF-outfall	04/10/2017 19:30	04/11/2017 00:00	Rain	Composite	35								25	0.26
11CHF-outfall	04/14/2017 08:55		Base	Grab	50	12.5	858.3	8.53	7.7	0.60	1126.6	> 100	270	< 0.02
11CHF-outfall	04/15/2017 03:25	04/15/2017 10:50	Rain	Composite	48								29	0.41
11CHF-outfall	04/19/2017 15:50	04/19/2017 20:15	Rain	Composite	40								19	0.20
11CHF-outfall	05/03/2017 11:35		E Coli	Grab	55	9.5	502.0	10.47	7.8	0.35	714.0	82		
11CHF-outfall	05/08/2017 22:10	05/09/2017 00:25	Rain	Composite	65								32	1.09
11CHF-outfall	05/10/2017 09:01		Base	Grab	62	11.1	885.0	10.59	7.5	0.60	1204.0	> 100	312	~ 0.03
11CHF-outfall	05/17/2017 01:25	05/17/2017 05:10	Rain	Composite	50								26	0.30
11CHF-outfall	05/17/2017 09:50		E Coli	Grab	63							18		
11CHF-outfall	05/17/2017 16:15	05/18/2017 03:00	Rain	Composite	50							10	17	0.16
11CHF-outfall	05/20/2017 10:20	05/20/2017 13:55	Rain	Composite	53								12	~ 0.04
11CHF-outfall	05/24/2017 09:15		Base	Grab	50	11.8	868.0	10.42	7.6	0.58	1161.0		291	~ 0.06
11CHF-outfall	06/07/2017 10:35		E Coli	Grab	80							> 100		
11CHF-outfall	06/11/2017 08:55	06/11/2017 10:40	Rain	Composite	70								32	~ 0.04
11CHF-outfall	06/13/2017 09:20		Base	Grab	70	17.2	1158.0	9.19	7.6	0.68	1360.0	> 100	314	~ 0.04
11CHF-outfall	06/17/2017 20:55	06/17/2017 22:00	Rain	Composite	65								24	~ 0.03
11CHF-outfall	06/21/2017 12:40		E Coli	Grab	75	16.2	796.0	10.03	7.9	0.47	956.0	7		
11CHF-outfall	06/27/2017 09:00		Base	Grab	65	12.7	829.0	11.16	7.8	0.54	1084.0	> 100	324	0.06
11CHF-outfall	06/28/2017 05:05	06/28/2017 09:05	Rain	Composite	60							20	21	< 0.02
11CHF-outfall	07/05/2017 09:00		E Coli	Grab	75							37		
11CHF-outfall	07/11/2017 08:45		Base	Grab	75	18.6	809.0	8.60	7.6	0.46	921.0	> 100	260	0.07
11CHF-outfall	07/12/2017 02:30	07/12/2017 03:25	Rain	Composite	85								21	~ 0.03
11CHF-outfall	07/17/2017 22:15	07/18/2017 01:15	Rain	Composite	76							39	13	0.09
11CHF-outfall	07/19/2017 09:55		E Coli	Grab	76	21.1	259.4	8.40	7.7	0.13	280.1	66		

Station	Sample Start	Sample End	Carbonaceous				Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/100 mL)	Hardness (mg/L CaCO3)	Total	
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Kjeldahl Nitrogen (mg/L)						Nitrate (mg/L)	Nitrite (mg/L)
11CHF-outfall	01/03/2017 09:20		3.6	39	2026.6	0.07	0.06	0.11		228	1.10	0.96	0.06
11CHF-outfall	01/21/2017 11:39	01/22/2017 16:05		87	347.0	0.41		0.68		52	4.10	< 0.05	< 0.03
11CHF-outfall	02/10/2017 11:15		2.8	36	903.4	0.12	0.09	0.26		208	1.70	0.76	0.10
11CHF-outfall	02/20/2017 12:04	02/20/2017 15:30	15.0	246	120.6	0.15	0.13	0.71		68	2.90	0.29	0.05
11CHF-outfall	02/23/2017 09:00		3.9	38	248.9	0.09	0.04	0.26	150	152	1.80	0.63	0.03
11CHF-outfall	03/08/2017 09:02		1.5	21	256.2	~ 0.03	0.03	0.09		280	0.92	1.13	< 0.03
11CHF-outfall	04/05/2017 09:30								< 10				
11CHF-outfall	04/10/2017 19:30	04/11/2017 00:00	17.0	100	53.5	0.25	0.21	0.43			1.40	0.24	0.03
11CHF-outfall	04/14/2017 08:55		1.3	~ 13	128.0	~ 0.03	0.01	0.06		324	0.53	1.32	< 0.03
11CHF-outfall	04/15/2017 03:25	04/15/2017 10:50		94	16.6	0.06		0.40		36	2.50	0.24	0.04
11CHF-outfall	04/19/2017 15:50	04/19/2017 20:15	6.7	59	14.9	0.08	0.06	0.29		24	1.50	0.23	< 0.03
11CHF-outfall	05/03/2017 11:35								110				
11CHF-outfall	05/08/2017 22:10	05/09/2017 00:25	> 26.0	202	26.5	0.26	0.22	0.71		48	5.10	0.72	0.08
11CHF-outfall	05/10/2017 09:01		1.0	~ 9	156.8	< 0.02	0.04	0.12		408	0.47	1.68	< 0.03
11CHF-outfall	05/17/2017 01:25	05/17/2017 05:10		111	14.3	0.07		0.54		76	3.30	0.22	< 0.03
11CHF-outfall	05/17/2017 09:50								2050				
11CHF-outfall	05/17/2017 16:15	05/18/2017 03:00	5.5	82	6.4	0.04	0.03	0.31		30	1.50	0.18	< 0.03
11CHF-outfall	05/20/2017 10:20	05/20/2017 13:55		35	5.3	0.05		0.14		12	0.75	0.13	< 0.03
11CHF-outfall	05/24/2017 09:15		0.9	16	157.7	~ 0.02	0.05	0.09		320	0.61	2.60	0.03
11CHF-outfall	06/07/2017 10:35								20				
11CHF-outfall	06/11/2017 08:55	06/11/2017 10:40		242	8.4	0.27		1.06		64	4.60	< 0.05	< 0.03
11CHF-outfall	06/13/2017 09:20		1.3	15	173.0	~ 0.05	0.03	0.08		480	0.49	2.27	< 0.03
11CHF-outfall	06/17/2017 20:55	06/17/2017 22:00		132	12.2	0.17		0.55		44	2.80	0.10	< 0.03
11CHF-outfall	06/21/2017 12:40								70				
11CHF-outfall	06/27/2017 09:00		1.5	~ 7	94.7	< 0.02	0.02	~ 0.03		460	0.33	1.72	< 0.03
11CHF-outfall	06/28/2017 05:05	06/28/2017 09:05		55	5.6	0.09		0.22		28	1.10	0.18	< 0.03
11CHF-outfall	07/05/2017 09:00								> 24200				
11CHF-outfall	07/11/2017 08:45		1.5	~ 11	84.1	~ 0.03	0.02	0.07		364	0.46	1.44	< 0.03
11CHF-outfall	07/12/2017 02:30	07/12/2017 03:25		119	5.1	0.11		0.47	~ 14		2.70	0.62	0.04
11CHF-outfall	07/17/2017 22:15	07/18/2017 01:15	> 8.0	62.5	3.5	0.07	0.04	0.24		8	1.45	0.35	< 0.03
11CHF-outfall	07/19/2017 09:55								17330				



Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
11CHF-outfall	01/03/2017 09:20		31.9	3.6	~ 0.0004	0.0005	0.0027	< 0.0010	0.0016	0.0228	3650	7.1	4	3
11CHF-outfall	01/21/2017 11:39	01/22/2017 16:05	11.2								668	17.4	38	18
11CHF-outfall	02/10/2017 11:15		32.7	3.0	< 0.0002	0.0012	0.0045	0.0010	0.0025	0.0363	1700	8.7	14	~ 5
11CHF-outfall	02/20/2017 12:04	02/20/2017 15:30	7.4	21.0							271	11.1	267	103
11CHF-outfall	02/23/2017 09:00		19.0	> 7.7							557	7.0	16	10
11CHF-outfall	03/08/2017 09:02		38.9	2.6	< 0.0002	0.0005	0.0021	0.0007	0.0019	0.0144	698	6.3	6	4
11CHF-outfall	04/05/2017 09:30													
11CHF-outfall	04/10/2017 19:30	04/11/2017 00:00	4.8	20.0								16.0	95	40
11CHF-outfall	04/14/2017 08:55		60.1	1.0	< 0.0002	0.0006	0.0015	~ 0.0004	0.0016	0.0090	625	4.0	~ 2	~ 1
11CHF-outfall	04/15/2017 03:25	04/15/2017 10:50	3.8								68	5.2	134	51
11CHF-outfall	04/19/2017 15:50	04/19/2017 20:15	2.9	17.0							66	6.5	128	47
11CHF-outfall	05/03/2017 11:35													
11CHF-outfall	05/08/2017 22:10	05/09/2017 00:25	6.1	> 26.0							141	30.2	169	67
11CHF-outfall	05/10/2017 09:01		60.7	1.0	< 0.0002	0.0005	0.0015	~ 0.0002	0.0028	0.0110	682	4.3	~ 2	~ 2
11CHF-outfall	05/17/2017 01:25	05/17/2017 05:10	4.7								85	12.1	153	50
11CHF-outfall	05/17/2017 09:50													
11CHF-outfall	05/17/2017 16:15	05/18/2017 03:00	1.6	7.1							55	4.3	136	34
11CHF-outfall	05/20/2017 10:20	05/20/2017 13:55	7.8								35	4.8	36	17
11CHF-outfall	05/24/2017 09:15		53.6	0.7							649	4.5	< 1	~ 1
11CHF-outfall	06/07/2017 10:35													
11CHF-outfall	06/11/2017 08:55	06/11/2017 10:40	3.7								97	23.2	460	
11CHF-outfall	06/13/2017 09:20		134.0	1.3	< 0.0002	0.0008	0.0019	~ 0.0004	0.0180	0.0360	842	4.8	5	
11CHF-outfall	06/17/2017 20:55	06/17/2017 22:00	3.8								86	19.2	120	
11CHF-outfall	06/21/2017 12:40													
11CHF-outfall	06/27/2017 09:00		91.4	0.5							639	2.1	~ 1	
11CHF-outfall	06/28/2017 05:05	06/28/2017 09:05	3.1								43	12.0	78	
11CHF-outfall	07/05/2017 09:00													
11CHF-outfall	07/11/2017 08:45		67.6	1.2	< 0.0002	0.0003	0.0045	0.0009	0.0022	0.0114	531	4.8	~ 2	~ 1
11CHF-outfall	07/12/2017 02:30	07/12/2017 03:25	3.2								63	14.6	250	76
11CHF-outfall	07/17/2017 22:15	07/18/2017 01:15	2.0	> 8.5	< 0.0002	0.0032	0.0106	0.0053	0.0037	0.0558	49	9.2	78	24
11CHF-outfall	07/19/2017 09:55													

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
11CHF-outfall	07/25/2017 09:15		Base	Grab	70	16.9	1048.0	8.95	8.0	0.60	1238.3	36	344	0.09
11CHF-outfall	07/25/2017 19:25	07/25/2017 20:10	Rain	Composite	73								28	~ 0.02
11CHF-outfall	08/02/2017 09:15		E Coli	Grab	74	23.8	409.3	7.43	7.5	0.20	419.1	41		
11CHF-outfall	08/06/2017 19:30	08/06/2017 19:45	Rain	Composite	75								26	< 0.02
11CHF-outfall	08/09/2017 14:45	08/09/2017 18:15	Rain	Composite	75								12	0.06
11CHF-outfall	08/15/2017 09:15		E Coli	Grab	64	19.8	171.8	8.35	7.2	0.09	190.6	33		
11CHF-outfall	08/16/2017 04:15	08/16/2017 05:10	Rain	Composite	66								16	0.13
11CHF-outfall	08/16/2017 07:25	08/16/2017 08:00	Rain	Composite	68								12	0.21
11CHF-outfall	08/22/2017 09:10		Base	Grab	65	17.4	779.0	9.08	7.3	0.45	912.0	> 100	244	< 0.02
11CHF-outfall	09/06/2017 08:45		E Coli	Grab	56	15.1	738.0	9.06	7.3	0.45	911.0	> 100		
11CHF-outfall	09/12/2017 09:10		Base	Grab	70	17.8	946.0	8.79	7.3	0.55	1098.0	> 100		
11CHF-outfall	09/20/2017 03:10	09/20/2017 05:30	Rain	Composite	70								21	0.11
11CHF-outfall	09/20/2017 05:35	09/20/2017 10:10	Rain	Composite	70								77	~ 0.02
11CHF-outfall	09/25/2017 03:20	09/25/2017 05:25	Rain	Composite	60								20	~ 0.05
11CHF-outfall	09/28/2017 09:05		Base	Grab	56	16.3	814.0	8.83	7.1	0.49	978.0	> 100	322	~ 0.02
11CHF-outfall	10/01/2017 04:35	10/01/2017 05:55	Rain	Composite	60								34	< 0.02
11CHF-outfall	10/02/2017 02:10	10/02/2017 04:55	Rain	Composite	60								14	0.14
11CHF-outfall	10/02/2017 16:00	10/02/2017 20:00	Rain	Composite	62								9	0.24
11CHF-outfall	10/04/2017 09:00		E Coli	Grab	48	16.0	121.9	8.40	7.4	0.10	146.8	26		
11CHF-outfall	10/09/2017 09:35		Base	Grab	52	16.1	309.0	9.66	7.3	0.18	371.9	> 100	93	0.45
11CHF-outfall	10/14/2017 19:00	10/15/2017 00:40	Rain	Composite	45								29	~ 0.03
11CHF-outfall	10/18/2017 10:20		E Coli	Grab	50							46		
11CHF-outfall	10/24/2017 09:00		Base	Grab	40	12.1	478.8	10.71	7.0	0.31	635.1	76	169	~ 0.02
11CHF-outfall	11/01/2017 09:15		E Coli	Grab	32	8.0	522.0	10.69	7.6	0.38	774.0	11		
11CHF-outfall	11/07/2017 09:05		Base	Grab	30	10.0	677.0	9.68	7.5	0.47	949.0	> 100	279	~ 0.04
11CHF-outfall	11/15/2017 09:20		E Coli	Grab	30	11.9	1015.0	9.94	6.8	0.68	1354.0	> 100		
11CHF-outfall	11/21/2017 08:45		Base	Grab	20	6.6	726.0	10.47	7.3	0.56	1119.0	> 100	311	< 0.02
11CHF-outfall	12/04/2017 19:20	12/04/2017 21:10	Rain	Composite	15								23	1.04
11CHF-outfall	12/08/2017 09:10		Base	Grab	25	7.9	992.0	10.39	7.4	0.74	1474.0	> 100	306	~ 0.04
11CHF-outfall	12/19/2017 09:05		Base	Grab	35	7.8	1899.0	10.38	7.2	1.47	2824.0	50	285	< 0.02

Station	Sample Start	Sample End	Carbonaceous					Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)										
11CHF-outfall	07/25/2017 09:15		> 8.5	27	122.3	~ 0.03	0.01	0.10			482	0.62	1.69	< 0.03	
11CHF-outfall	07/25/2017 19:25	07/25/2017 20:10		27	10.7	0.12		0.87			51	4.80	0.05	0.39	
11CHF-outfall	08/02/2017 09:15									990					
11CHF-outfall	08/06/2017 19:30	08/06/2017 19:45		138	11.7	~ 0.03		0.32				1.90	0.37	< 0.03	
11CHF-outfall	08/09/2017 14:45	08/09/2017 18:15	5.1	66	2.7	~ 0.02	0.02	0.13		~ 12		0.93	0.22	< 0.03	
11CHF-outfall	08/15/2017 09:15									15530					
11CHF-outfall	08/16/2017 04:15	08/16/2017 05:10	> 8.6	51	5.8	0.07	0.06	0.29		< 8		0.89	0.16	0.03	
11CHF-outfall	08/16/2017 07:25	08/16/2017 08:00	5.5	56	2.5	~ 0.04	0.04	0.32		< 8		1.20	0.19	< 0.03	
11CHF-outfall	08/22/2017 09:10		1.0	~ 8	77.6	~ 0.04	0.03	~ 0.05		322		0.42	2.62	< 0.03	
11CHF-outfall	09/06/2017 08:45									740					
11CHF-outfall	09/12/2017 09:10		1.2	~ 10	171.1	0.04	0.04	0.07		486		0.47	2.42	< 0.03	
11CHF-outfall	09/20/2017 03:10	09/20/2017 05:30		95	4.2	0.06		0.37		~ 13		1.80	0.31	< 0.03	
11CHF-outfall	09/20/2017 05:35	09/20/2017 10:10		91	15.6	~ 0.04		0.49		73		2.20	0.08	< 0.03	
11CHF-outfall	09/25/2017 03:20	09/25/2017 05:25		67	6.0	0.05		0.29		~ 19		1.70	0.95	< 0.03	
11CHF-outfall	09/28/2017 09:05		1.1	20	90.8	0.07	0.06	0.09		331		0.99	1.60	< 0.03	
11CHF-outfall	10/01/2017 04:35	10/01/2017 05:55		107	17.0	0.11		0.40		30		2.20	0.39	< 0.03	
11CHF-outfall	10/02/2017 02:10	10/02/2017 04:55	8.1	81	2.9	0.08	0.07	0.25		< 8		1.20	0.21	< 0.03	
11CHF-outfall	10/02/2017 16:00	10/02/2017 20:00	6.1	59	< 2.0	0.04	0.04	0.22		21		1.45	0.27	< 0.03	
11CHF-outfall	10/04/2017 09:00									13000					
11CHF-outfall	10/09/2017 09:35		< 0.2	17	28.0	0.20	0.14	0.22		125		0.87	0.70	0.14	
11CHF-outfall	10/14/2017 19:00	10/15/2017 00:40		74	2.7	0.10		0.33		36		1.30	0.17	< 0.03	
11CHF-outfall	10/18/2017 10:20									< 1					
11CHF-outfall	10/24/2017 09:00		4.6	30	58.6	0.11	0.08	0.23		233		0.70	1.05	< 0.03	
11CHF-outfall	11/01/2017 09:15									2360					
11CHF-outfall	11/07/2017 09:05		1.2	~ 12	72.0	~ 0.02	0.02	0.07		324		0.44	1.65	< 0.03	
11CHF-outfall	11/15/2017 09:20									810					
11CHF-outfall	11/21/2017 08:45		1.1	15	94.8	~ 0.04	0.02	0.06		379		0.44	1.60	< 0.03	
11CHF-outfall	12/04/2017 19:20	12/04/2017 21:10	> 9.0	252	15.9	0.39	0.27	1.09		~ 24		4.40	0.59	0.06	
11CHF-outfall	12/08/2017 09:10		1.0	25	220.3	< 0.02	0.02	~ 0.05		335		0.42	1.53	< 0.03	
11CHF-outfall	12/19/2017 09:05		2.3	22	696.1	~ 0.04	0.02	0.07		238		0.81	1.45	< 0.03	

2017 Stormwater Sample Data - 11CHF-outfall continued

Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
11CHF-outfall	07/25/2017 09:15		96.0	> 8.9							703	5.3	14	7
11CHF-outfall	07/25/2017 19:25	07/25/2017 20:10	9.5								116	37.3	417	117
11CHF-outfall	08/02/2017 09:15													
11CHF-outfall	08/06/2017 19:30	08/06/2017 19:45	4.0									17.7	135	50
11CHF-outfall	08/09/2017 14:45	08/09/2017 18:15	2.0	6.4	< 0.0002	0.0072	0.0082	0.0037	0.0045	0.0615	41	5.8	59	22
11CHF-outfall	08/15/2017 09:15													
11CHF-outfall	08/16/2017 04:15	08/16/2017 05:10	1.8	> 9.1							46	9.7	70	18
11CHF-outfall	08/16/2017 07:25	08/16/2017 08:00	1.7	7.4							33	5.7	160	38
11CHF-outfall	08/22/2017 09:10		54.8	0.6	< 0.0002	0.0004	0.0019	~ 0.0003	0.0018	0.0076	537	3.7	~ 1	~ 1
11CHF-outfall	09/06/2017 08:45													
11CHF-outfall	09/12/2017 09:10		135.5	0.7							841	3.5	~ 2	~ 1
11CHF-outfall	09/20/2017 03:10	09/20/2017 05:30	2.8								53	8.2	174	48
11CHF-outfall	09/20/2017 05:35	09/20/2017 10:10	19.3								173	12.0	75	36
11CHF-outfall	09/25/2017 03:20	09/25/2017 05:25	4.2								70	17.0	47	18
11CHF-outfall	09/28/2017 09:05		64.6	0.6	< 0.0002	0.0008	0.0024	~ 0.0002	0.0023	0.0134	587	2.9	~ 2	~ 2
11CHF-outfall	10/01/2017 04:35	10/01/2017 05:55	6.3								102	17.9	66	31
11CHF-outfall	10/02/2017 02:10	10/02/2017 04:55	2.0	> 8.9							31	7.1	98	34
11CHF-outfall	10/02/2017 16:00	10/02/2017 20:00	1.7	7.5							42	4.0	107	31
11CHF-outfall	10/04/2017 09:00													
11CHF-outfall	10/09/2017 09:35		29.6	0.4							217	5.1	~ 2	~ 1
11CHF-outfall	10/14/2017 19:00	10/15/2017 00:40	2.0								47		126	36
11CHF-outfall	10/18/2017 10:20													
11CHF-outfall	10/24/2017 09:00		42.3	4.9	< 0.0010	0.0005	0.0026	0.0007	0.0031	0.0128	369	7.7	~ 5	~ 4
11CHF-outfall	11/01/2017 09:15													
11CHF-outfall	11/07/2017 09:05		60.8	0.7							506	3.0	4	
11CHF-outfall	11/15/2017 09:20													
11CHF-outfall	11/21/2017 08:45		77.7	0.5	< 0.0002	0.0006	0.0012	~ 0.0005	0.0034	0.0124	613	3.6	11	
11CHF-outfall	12/04/2017 19:20	12/04/2017 21:10	5.5	> 9.0							111	41.1	244	88
11CHF-outfall	12/08/2017 09:10		68.0	0.7							810	2.4	~ 2	~ 1
11CHF-outfall	12/19/2017 09:05		60.9	2.3	< 0.0002	0.0026	0.0041	0.0006	0.0275	0.0396	1510	2.8	5	3

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
10SA	01/03/2017 10:20		Base	Grab	15	4.0	1057.0	12.80	8.1	0.89	1766.0	> 100	329	0.08
10SA	01/17/2017 10:28		Base	Grab	30	3.8	1624.0	10.65	8.3	1.40	2729.0	> 100	402	0.08
10SA	01/20/2017 15:39	01/23/2017 03:55	Melt	Composite	93								60	0.82
10SA	02/10/2017 10:35		Base	Grab	29	3.0	3179.0	13.42	7.6	2.93	5491.0	77	311	1.38
10SA	02/20/2017 11:38	02/20/2017 20:11	Rain	Composite	97								50	0.40
10SA	02/23/2017 09:45		Base	Grab	35	4.2	978.0	11.67	7.8	0.81	1621.0	86		0.19
10SA	03/08/2017 10:00		Base	Grab	22	5.1	1555.0	11.16	7.6	1.29	2510.0	18	163	0.17
10SA	03/20/2017 10:35		Base	Grab	44	4.5	1981.0	11.99	7.6	1.70	3256.0	98	229	0.12
10SA	04/05/2017 10:15		E Coli	Grab	40	7.3	1673.0	10.30		1.30	2529.7	> 100		
10SA	04/10/2017 20:00	04/10/2017 23:50	Rain	Composite	95									0.22
10SA	04/14/2017 09:50		Base	Grab	52	9.5	1049.3	8.41	7.9	0.70	1490.2	62	112	0.07
10SA	04/14/2017 21:30	04/15/2017 13:15	Rain	Composite	50								50	0.38
10SA	04/19/2017 15:50	04/19/2017 20:15	Rain	Composite	40								29	0.12
10SA	04/20/2017 10:45		E Coli	Grab	41	10.2	514.3	9.85	7.9	0.30	715.8	53		
10SA	04/28/2017 09:25		Base	Grab	38	9.2	809.0	9.07	7.7	0.58	1157.0	73	209	~ 0.06
10SA	05/03/2017 10:55		E Coli	Grab	56	10.6	696.0	10.77	7.6	0.48	959.0	> 100		
10SA	05/08/2017 19:25	05/09/2017 08:10	Rain	Composite	65								105	0.66
10SA	05/10/2017 10:05		Base	Grab	63	13.1	767.0	7.13	7.7	0.49	992.0	> 100	196	0.07
10SA	05/17/2017 01:20	05/17/2017 06:30	Rain	Composite	52								36	0.51
10SA	05/17/2017 09:20		E Coli	Grab	63							56		
10SA	05/17/2017 19:55	05/18/2017 06:45	Rain	Composite	52								41	0.08
10SA	05/24/2017 11:05		Base	Grab	50	12.9	766.0	8.20	8.0	0.50	996.0	77	323	0.09
10SA	06/07/2017 10:05		E Coli	Grab	75							57		
10SA	06/13/2017 10:30		Base	Grab	75	19.7	407.6	5.31	7.7	0.22	453.7	68	119	0.17
10SA	06/17/2017 21:00	06/17/2017 22:30	Rain	Composite	65									0.38
10SA	07/05/2017 09:45		E Coli	Grab	75							55		
10SA	07/11/2017 09:45		Base	Grab	75	21.2	706.0	8.03	7.8	0.37	762.0	> 100	211	0.37
10SA	07/17/2017 22:40	07/18/2017 03:25	Rain	Composite	76							33	37	< 0.02
10SA	07/19/2017 09:05		E Coli	Grab	78	21.9	259.5	5.19	7.5	0.13	276.0	42		
10SA	07/25/2017 19:30	07/25/2017 22:15	Rain	Composite	73								37	< 0.02
10SA	07/26/2017 04:20	07/26/2017 06:55	Rain	Composite	73								27	0.11

Station	Sample Start	Sample End	Carbonaceous			Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)									
10SA	01/03/2017 10:20		1.0	13	374.0	0.08	0.06	0.08		424	0.75	1.60	< 0.03	42.8
10SA	01/17/2017 10:28		1.0	23	619.9	0.07	0.07	0.11	727	492	0.87	1.39	0.04	47.8
10SA	01/20/2017 15:39	01/23/2017 03:55		58	502.8	0.35		0.42		84	2.70	0.55	0.05	10.1
10SA	02/10/2017 10:35		1.8	35	1555.7	0.16	0.13	0.21		400	2.30	1.12	0.20	31.3
10SA	02/20/2017 11:38	02/20/2017 20:11	5.6	149	227.4	0.12	0.10	0.44		104	2.00	0.40	0.04	8.7
10SA	02/23/2017 09:45				399.2	0.12	0.07	0.12	1986		1.20	0.94	0.05	
10SA	03/08/2017 10:00		3.8	50	722.2	0.07	0.05	0.14		250	1.40	0.96	0.04	29.7
10SA	03/20/2017 10:35		1.8	37	885.8	0.07	0.07	0.13	479	320	2.00	1.23	< 0.03	37.9
10SA	04/05/2017 10:15								90					
10SA	04/10/2017 20:00	04/10/2017 23:50			142.8	0.10		0.26			1.20	0.40	0.04	
10SA	04/14/2017 09:50		2.8	34	307.1	~ 0.05	0.03	0.09		160	1.10	0.73	0.03	21.2
10SA	04/14/2017 21:30	04/15/2017 13:15		49	107.9	0.05		0.19		64	1.60	0.43	0.04	9.3
10SA	04/19/2017 15:50	04/19/2017 20:15	4.0	71	43.3	~ 0.03	0.03	0.24		52	1.40	0.22	< 0.03	4.1
10SA	04/20/2017 10:45								260					
10SA	04/28/2017 09:25		2.4	20	209.8	< 0.02	0.01	0.07	32	240	1.20	0.93	< 0.03	28.9
10SA	05/03/2017 10:55								50					
10SA	05/08/2017 19:25	05/09/2017 08:10	> 8.7	94	95.7	0.10	0.06	0.27		152	2.80	0.72	0.06	16.3
10SA	05/10/2017 10:05		2.6	33	161.7	~ 0.04	0.02	0.08		228	0.94	0.70	< 0.03	28.1
10SA	05/17/2017 01:20	05/17/2017 06:30		54	25.0	< 0.02		0.22		48	1.90	0.43	0.03	4.2
10SA	05/17/2017 09:20								3260					
10SA	05/17/2017 19:55	05/18/2017 06:45	2.8	33	15.4	~ 0.04	0.03	0.13		44	0.78	0.29	< 0.03	3.4
10SA	05/24/2017 11:05		2.3	25	89.1	0.07	0.08	0.12	73	344	0.81	2.71	0.03	38.0
10SA	06/07/2017 10:05								255					
10SA	06/13/2017 10:30		4.4	45	57.4	0.12	0.07	0.21		120	1.30	0.52	0.04	10.4
10SA	06/17/2017 21:00	06/17/2017 22:30			46.5	0.10		0.33			2.20	0.26	0.11	11.2
10SA	07/05/2017 09:45								5170					
10SA	07/11/2017 09:45		3.1	28	89.8	0.12	0.11	0.21		244	1.20	0.25	0.08	24.8
10SA	07/17/2017 22:40	07/18/2017 03:25	6.7	49	8.7	< 0.02	< 0.01	0.18		27	1.10	0.30	0.03	3.4
10SA	07/19/2017 09:05								6870					
10SA	07/25/2017 19:30	07/25/2017 22:15		95	13.0	< 0.02		0.38			2.20	0.25	0.04	6.0
10SA	07/26/2017 04:20	07/26/2017 06:55	5.4	48	7.8	~ 0.03	0.03	0.25		~ 24	1.20	0.31	0.03	3.2

Station	Sample Start	Sample End	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
10SA	01/03/2017 10:20		0.8	< 0.0002	0.0004	0.0027	< 0.0010	0.0015	0.0046	967	7.4	1.5	~ 1
10SA	01/17/2017 10:28		1.1							1510	7.7	~ 1	~ 1
10SA	01/20/2017 15:39	01/23/2017 03:55								948	11.8	12	6
10SA	02/10/2017 10:35		1.6	< 0.0002	0.0005	0.0032	~ 0.0004	0.0017	0.0111	2910	6.6	4	~ 2
10SA	02/20/2017 11:38	02/20/2017 20:11	7.2							448	8.2	129	50
10SA	02/23/2017 09:45									802		4	~ 2
10SA	03/08/2017 10:00		6.0	< 0.0002	0.0022	0.0092	0.0017	0.0030	0.0350	1290	12.8	18	8
10SA	03/20/2017 10:35		2.5							1700	10.5	3	~ 2
10SA	04/05/2017 10:15												
10SA	04/10/2017 20:00	04/10/2017 23:50									17.8	63	23
10SA	04/14/2017 09:50		3.6	< 0.0002	0.0012	0.0041	0.0005	0.0014	0.0105	716	9.7	3	~ 2
10SA	04/14/2017 21:30	04/15/2017 13:15								277	7.0	37	~ 17
10SA	04/19/2017 15:50	04/19/2017 20:15	6.7							125	4.5	110	32
10SA	04/20/2017 10:45												
10SA	04/28/2017 09:25		2.7							648	7.1	3	3
10SA	05/03/2017 10:55												
10SA	05/08/2017 19:25	05/09/2017 08:10	> 8.6							316	16.9	40	18
10SA	05/10/2017 10:05		3.2	< 0.0002	0.0005	0.0035	~ 0.0003	0.0014	0.0071	545	8.2	3	~ 2
10SA	05/17/2017 01:20	05/17/2017 06:30								112	5.8	124	26
10SA	05/17/2017 09:20												
10SA	05/17/2017 19:55	05/18/2017 06:45	4.0							102	4.6	54	17
10SA	05/24/2017 11:05		2.9							576	6.1	8	3
10SA	06/07/2017 10:05												
10SA	06/13/2017 10:30		5.8	< 0.0002	0.0011	0.0107	0.0006	0.0014	0.0114	260	12.1	5	
10SA	06/17/2017 21:00	06/17/2017 22:30									12.7	51	
10SA	07/05/2017 09:45												
10SA	07/11/2017 09:45		3.5	< 0.0002	0.0005	0.0100	0.0011	0.0018	0.0146	433	7.8	3	3
10SA	07/17/2017 22:40	07/18/2017 03:25	> 8.4	< 0.0002	0.0029	0.0120	0.0031	0.0026	0.0366	69	8.0	61	18
10SA	07/19/2017 09:05												
10SA	07/25/2017 19:30	07/25/2017 22:15								92	12.6	114	40
10SA	07/26/2017 04:20	07/26/2017 06:55	7.4							61	8.0	41	13

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air Temperature (°F)	Water Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH	Salinity (ppt)	Specific Conductivity (µS/cm)	Transparency (cm)	Alkalinity (mg/L)	Ammonia Nitrogen (mg/L)
10SA	08/03/2017 07:15	08/03/2017 13:45	Rain	Composite	67								30	< 0.02
10SA	08/06/2017 13:50	08/06/2017 16:25	Rain	Composite	75								23	0.13
10SA	08/09/2017 12:25	08/10/2017 01:50	Rain	Composite	75							44	29	0.08
10SA	08/15/2017 10:20		E Coli	Grab	68	19.7	268.0	8.08	7.6	0.14	298.3	80		
10SA	08/16/2017 04:35	08/16/2017 08:55	Rain	Composite	68								29	0.08
10SA	08/22/2017 10:30		Base	Grab	65	19.0	672.0	6.19	7.6	0.37	759.0	90	236	0.11
10SA	08/28/2017 09:10		Base	Grab	65	19.8	375.0	7.23	7.6	0.20	416.3	86	127	< 0.02
10SA	09/06/2017 09:50		E Coli	Grab	59	17.8	475.3	4.75	7.6	0.27	550.7	34		
10SA	09/12/2017 10:20		Base	Grab	70	18.3	777.0	8.50	7.9	0.44	891.0	> 100	323	~ 0.04
10SA	09/18/2017 10:35	09/18/2017 18:00	Rain	Composite	62								71	~ 0.02
10SA	09/20/2017 03:05	09/20/2017 10:25	Rain	Composite	70								38	< 0.02
10SA	09/20/2017 10:30		E Coli	Grab	70							22		
10SA	09/24/2017 22:20	09/25/2017 10:55	Rain	Composite	60								66	0.11
10SA	09/25/2017 23:15	09/26/2017 08:50	Rain	Composite	60								60	~ 0.06
10SA	09/28/2017 10:10		Base	Grab	60	17.7	446.7	8.74	7.8	0.25	519.5	42	184	< 0.02
10SA	10/02/2017 02:15	10/02/2017 04:40	Rain	Composite	60								17	0.12
10SA	10/04/2017 10:00		E Coli	Grab	51	15.7	396.5	9.38	8.1	0.20	482.9	85		
10SA	10/06/2017 17:15	10/07/2017 09:15	Rain	Composite	52								55	0.15
10SA	10/09/2017 10:20		Base	Grab	53	16.2	421.2	8.69	7.4	0.25	506.4	52	166	< 0.02
10SA	10/18/2017 09:30		E Coli	Grab	50									
10SA	10/21/2017 07:25	10/21/2017 16:10	Rain	Composite	50								54	< 0.02
10SA	10/24/2017 10:00		Base	Grab	40	13.8	422.2	7.57	7.3	0.26	537.3	42	169	< 0.02
10SA	10/27/2017 05:05	10/27/2017 19:25	Rain	Composite	35								78	~ 0.02
10SA	11/01/2017 10:25		E Coli	Grab	32	10.3	439.2	7.98	7.9	0.30	610.0	> 100		
10SA	11/07/2017 10:25		Base	Grab	30	9.7	347.7	9.17	8.0	0.24	491.3	70	144	< 0.02
10SA	11/15/2017 10:10		E Coli	Grab	30	8.8	752.0	9.28	7.3	0.54	1088.0	20		
10SA	11/21/2017 10:00		Base	Grab	20	8.1	603.0	8.48	7.9	0.44	891.0	47	201	0.09
10SA	12/04/2017 19:05	12/04/2017 23:55	Rain	Composite	15								50	0.69
10SA	12/08/2017 10:35		Base	Grab	25	6.8	1862.0	9.73	7.9	1.48	2856.0	49	161	< 0.02
10SA	12/19/2017 10:30		Base	Grab	35	6.6	3528.0	11.35	7.9	2.94	5443.0	12	236	0.15



Station	Sample Start	Sample End	Carbonaceous			Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/100 mL)	Hardness (mg/L CaCO3)	Total Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)										
10SA	08/03/2017 07:15	08/03/2017 13:45		73	11.0	< 0.02		0.24		39	1.70	0.16	< 0.03	4.0	
10SA	08/06/2017 13:50	08/06/2017 16:25	4.0	51	4.8	~ 0.02	0.03	0.27		26	1.90	0.24	< 0.03	2.1	
10SA	08/09/2017 12:25	08/10/2017 01:50		32	8.6	~ 0.03		0.10		~ 20	0.86	0.26	< 0.03	3.3	
10SA	08/15/2017 10:20								730						
10SA	08/16/2017 04:35	08/16/2017 08:55		30	9.1	~ 0.04	0.04	0.22		~ 17	0.64	0.22	< 0.03	3.9	
10SA	08/22/2017 10:30		2.8	23	78.4	0.12	0.10	0.16		255	1.70	1.08	0.04	24.7	
10SA	08/28/2017 09:10		3.9	25	43.0	0.02	0.01	0.08	846	128	0.66	0.42	< 0.03	12.8	
10SA	09/06/2017 09:50								24200						
10SA	09/12/2017 10:20		0.7	20	89.0	0.23	0.19	0.24		354	0.76	1.09	< 0.03	29.6	
10SA	09/18/2017 10:35	09/18/2017 18:00	11.0	70	21.5	0.11	0.07	0.30		61	1.50	0.34	< 0.03	7.2	
10SA	09/20/2017 03:05	09/20/2017 10:25		106	10.0	~ 0.03		0.45		38	2.00	0.23	< 0.03	4.0	
10SA	09/20/2017 10:30								9210						
10SA	09/24/2017 22:20	09/25/2017 10:55		47	20.8	0.06		0.23		61	1.30	0.30	< 0.03	7.3	
10SA	09/25/2017 23:15	09/26/2017 08:50		34	18.8	0.07		0.17		51	0.94	0.16	< 0.03	5.6	
10SA	09/28/2017 10:10		5.8	41	43.9	0.15	0.11	0.31		184	2.00	0.39	< 0.03	13.4	
10SA	10/02/2017 02:15	10/02/2017 04:40	5.2	60	4.7	0.05	0.04	0.17		~ 15	0.90	0.22	< 0.03	2.1	
10SA	10/04/2017 10:00								1080						
10SA	10/06/2017 17:15	10/07/2017 09:15		26	17.1	0.08		0.10		53	0.60	0.26	< 0.03		
10SA	10/09/2017 10:20		6.3	29	40.4	~ 0.03	< 0.01	0.10		109	188	0.65	0.40	< 0.03	17.2
10SA	10/18/2017 09:30								930						
10SA	10/21/2017 07:25	10/21/2017 16:10		51	18.9	0.10		0.31		56	1.30	0.10	< 0.03	5.6	
10SA	10/24/2017 10:00		6.3	36	47.7	0.08	0.05	0.25		188	1.00	0.19	< 0.03	16.5	
10SA	10/27/2017 05:05	10/27/2017 19:25		65	25.7	0.19		0.25		63	0.75	< 0.05	< 0.03	7.0	
10SA	11/01/2017 10:25								50						
10SA	11/07/2017 10:25		3.2	45	45.7	0.10	0.07	0.15	1046	163	0.72	0.52	< 0.03	17.7	
10SA	11/15/2017 10:10								19860						
10SA	11/21/2017 10:00		3.5	42	121.0	0.14	0.08	0.20		223	1.20	0.68	0.07	25.6	
10SA	12/04/2017 19:05	12/04/2017 23:55	> 9.2	99	33.8	0.11	0.10	0.45		50	2.30	0.51	0.04	6.8	
10SA	12/08/2017 10:35		4.7	46	830.9	0.13	0.10	0.24	9800	160	1.30	0.25	< 0.03	15.8	
10SA	12/19/2017 10:30		3.2	39	1490.8	0.21	0.17	0.29	48	311	1.10	0.64	0.04	26.6	

Station	Sample Start	Sample End	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
10SA	08/03/2017 07:15	08/03/2017 13:45								89	11.1	102	35
10SA	08/06/2017 13:50	08/06/2017 16:25	6.3							50	5.1	177	30
10SA	08/09/2017 12:25	08/10/2017 01:50		~ 0.0002	0.0055	0.0086	0.0017	0.0016	0.0236	64	6.2	23	8
10SA	08/15/2017 10:20												
10SA	08/16/2017 04:35	08/16/2017 08:55								70	6.9	18	7
10SA	08/22/2017 10:30		2.9	< 0.0002	0.0007	0.0339	~ 0.0004	0.0014	0.0071	431	8.2	3	~ 2
10SA	08/28/2017 09:10		4.2							248	6.9	4.5	3.5
10SA	09/06/2017 09:50												
10SA	09/12/2017 10:20		1.2							538	5.7	~ 2	~ 1
10SA	09/18/2017 10:35	09/18/2017 18:00	13.0							151	14.2	41	19
10SA	09/20/2017 03:05	09/20/2017 10:25								89	8.0	190	50
10SA	09/20/2017 10:30												
10SA	09/24/2017 22:20	09/25/2017 10:55								142	11.7	34	12
10SA	09/25/2017 23:15	09/26/2017 08:50								128	11.4	8	5
10SA	09/28/2017 10:10		5.9	< 0.0002	< 0.0005	0.0484	~ 0.0003	0.0010	< 0.0050	308	7.7	8	8
10SA	10/02/2017 02:15	10/02/2017 04:40	6.4							48	5.1	58	20
10SA	10/04/2017 10:00												
10SA	10/06/2017 17:15	10/07/2017 09:15								106		22	6
10SA	10/09/2017 10:20		6.8							292	5.3	8	7
10SA	10/18/2017 09:30												
10SA	10/21/2017 07:25	10/21/2017 16:10		< 0.0002	0.0020	0.0137	0.0017	0.0019	0.0355	112	10.4	32	14
10SA	10/24/2017 10:00		6.6	< 0.0002	0.0003	0.0116	0.0002	0.0012	0.0061	313	9.7	7.5	7
10SA	10/27/2017 05:05	10/27/2017 19:25								148	12.5	15	10
10SA	11/01/2017 10:25												
10SA	11/07/2017 10:25		3.8							265	9.0	4	
10SA	11/15/2017 10:10												
10SA	11/21/2017 10:00		4.1	< 0.0002	0.0008	0.0049	0.0006	0.0016	0.0107	496	11.5	7	
10SA	12/04/2017 19:05	12/04/2017 23:55	> 9.1							149	10.7	53	26
10SA	12/08/2017 10:35		5.7							1460	6.8	5	~ 4
10SA	12/19/2017 10:30		3.5	< 0.0002	0.0031	0.0063	0.0021	0.0033	0.0223	2910	2.7	26	~ 6

Station	Sample Start	Sample Reason	Sample Type	Air	Water	Conductivity (µS/cm)	Dissolved	Salinity (ppt)	Specific	Transparency (cm)	Alkalinity (mg/L)	Ammonia	Carbonaceous	
				Temperature (°F)	Temperature (°C)		Oxygen (mg/L)		pH			Conductivity (µS/cm)	Nitrogen (mg/L)	Oxygen Demand 5-day (mg/L)
4PP-outfall	02/10/2017 09:10	Base	Grab	27	9.8	893.0	10.90	7.8	0.63	1259.0	> 100	288	~ 0.05	1.1
4PP-outfall	02/23/2017 10:10	Base	Grab	31	10.2	905.0	10.06	7.8	0.63	1260.0	> 100	304	~ 0.02	1.1
4PP-outfall	03/08/2017 10:55	Base	Grab	22	9.4	883.0	9.63	7.9	0.63	1257.0	> 100	277	< 0.02	0.7
4PP-outfall	03/20/2017 11:20	Base	Grab	47	10.6	910.0	10.93	7.5	0.63	1256.0	> 100	286	~ 0.03	1.8
4PP-outfall	04/05/2017 10:50	E Coli	Grab	45	10.9	502.0	8.97	7.8	0.34	687.0	> 100			
4PP-outfall	04/14/2017 10:15	Base	Grab	54	12.0	1040.6	9.55	7.9	0.70	1383.3	> 100	268	< 0.02	1.1
4PP-outfall	04/20/2017 10:45	E Coli	Grab	42	11.0	703.0	9.43	7.7	0.48	960.0	> 100			
4PP-outfall	05/17/2017 10:40	E Coli	Grab	60	14.3	662.0	8.41	7.6	0.41	832.0	62			
4PP-outfall	06/07/2017 09:10	E Coli	Grab	75							> 100			
4PP-outfall	06/13/2017 11:35	Base	Grab	75	14.1	985.0	10.25	7.8	0.62	1244.0	> 100	278	< 0.02	0.9
4PP-outfall	06/21/2017 10:45	E Coli	Grab	70	12.3	939.0	10.82	7.7	0.62	1239.0	> 100			
4PP-outfall	06/27/2017 11:50	Base	Grab	68	12.2	922.0	11.17	7.9	0.61	1221.0	> 100	272	~ 0.05	1.4
4PP-outfall	07/05/2017 11:10	E Coli	Grab	76	12.9	939.0	10.08	7.7	0.61	1222.0	> 100			
4PP-outfall	07/11/2017 11:00	Base	Grab	80	13.6	966.0	10.74	7.8	0.62	1235.0	> 100	274	~ 0.02	1.0
4PP-outfall	07/19/2017 11:35	E Coli	Grab	76	18.2	996.2	8.73	7.9	0.60	1141.7	> 100			
4PP-outfall	07/25/2017 09:45	Base	Grab	70	13.9	975.0	10.52	7.8	0.62	1237.0	> 100	290	< 0.02	0.8
4PP-outfall	08/02/2017 11:15	E Coli	Grab	77	15.5	1048.8	9.00	7.8	0.60	1279.8	> 100			
4PP-outfall	08/15/2017 11:35	E Coli	Grab	68	13.4	924.0	10.56	7.6	0.59	1185.0	> 100			
4PP-outfall	08/22/2017 11:30	Base	Grab	65	13.7	979.0	11.00	7.7	0.63	1248.0	> 100	284	< 0.02	1.0
4PP-outfall	08/28/2017 12:10	Base	Grab	65	14.4	990.0	10.12	7.8	0.62	1240.0	> 100	277	~ 0.03	1.0
4PP-outfall	09/06/2017 11:00	E Coli	Grab	61	12.8	943.0	10.58	7.8	0.62	1230.0	> 100			
4PP-outfall	09/12/2017 11:20	Base	Grab	75	12.9	941.0	10.62	7.9	0.61	1225.0	> 100	287	~ 0.05	1.3
4PP-outfall	09/20/2017 08:55	E Coli	Grab	70										
4PP-outfall	09/28/2017 11:15	Base	Grab	63	12.7	967.0	11.06	7.8	0.63	1263.0	> 100	281	0.03	0.9
4PP-outfall	11/01/2017 11:45	E Coli	Grab	35	11.1	935.0	10.32	8.2	0.64	1272.0	> 100			
4PP-outfall	11/07/2017 12:30	Base	Grab	30	10.5	942.0	10.53	8.1	0.66	1303.0	> 100	280	< 0.02	0.9
4PP-outfall	11/15/2017 11:15	E Coli	Grab	30	10.5	888.0	10.30	7.5	0.62	1227.0	> 100			
4PP-outfall	11/21/2017 11:05	Base	Grab	20	9.7	908.0	10.89	8.2	0.64	1283.0	> 100	261	< 0.02	0.8
4PP-outfall	12/19/2017 11:30	Base	Grab	35	9.7	1092.0	10.98	8.1	0.78	1541.0	> 100	279	< 0.02	1.3

Station	Sample Start	Chemical					E. coli (MPN/ 100 mL)	Hardness (mg/L CaCO3)	Total				Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)
		Oxygen Demand (mg/L)	Chloride (mg/L)	Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)			Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)					
4PP-outfall	02/10/2017 09:10	< 5	197.7	~ 0.02	0.03	0.05		488	0.30	0.95	< 0.03	80.9	0.7	< 0.0002	0.0002	
4PP-outfall	02/23/2017 10:10	~ 7	184.9	~ 0.05	0.02	< 0.02	9	456	0.26	1.00	< 0.03	82.0	1.1			
4PP-outfall	03/08/2017 10:55	~ 7	188.8	< 0.02	0.02	< 0.02		488	0.28	1.05	< 0.03	80.8	0.8	< 0.0002	0.0003	
4PP-outfall	03/20/2017 11:20	~ 10	196.5	< 0.02	0.02	~ 0.02	6	508	0.33	1.06	< 0.03	79.8	1.6			
4PP-outfall	04/05/2017 10:50						< 10									
4PP-outfall	04/14/2017 10:15	~ 5	179.2	~ 0.03	0.02	< 0.02		412	0.50	1.98	< 0.03	79.7	0.6	< 0.0002	0.0003	
4PP-outfall	04/20/2017 10:45						190									
4PP-outfall	05/17/2017 10:40						3080									
4PP-outfall	06/07/2017 09:10						10									
4PP-outfall	06/13/2017 11:35	~ 7	176.5	~ 0.05	0.03	0.06		412	0.30	0.97	< 0.03	77.6	0.5	< 0.0002	0.0002	
4PP-outfall	06/21/2017 10:45						40									
4PP-outfall	06/27/2017 11:50	< 5	182.5	< 0.02	0.02	~ 0.03		448	0.40	1.05	< 0.03	78.2	0.8			
4PP-outfall	07/05/2017 11:10						430									
4PP-outfall	07/11/2017 11:00	15	174.2	~ 0.02	0.03	~ 0.04		416	0.34	0.94	< 0.03	77.9	0.4	< 0.0002	0.0002	
4PP-outfall	07/19/2017 11:35						3260									
4PP-outfall	07/25/2017 09:45	12	187.4	0.04	0.02	0.04		487	0.44	1.04	< 0.03	77.4	0.4			
4PP-outfall	08/02/2017 11:15						30									
4PP-outfall	08/15/2017 11:35						1470									
4PP-outfall	08/22/2017 11:30	~ 8	190.0	~ 0.05	0.02	< 0.02		354	0.27	1.06	< 0.03	77.0	0.4	< 0.0002	0.0003	
4PP-outfall	08/28/2017 12:10	~ 5	182.7	~ 0.03	0.02	~ 0.02		471	0.36	1.12	< 0.03	75.9	0.5			
4PP-outfall	09/06/2017 11:00						34									
4PP-outfall	09/12/2017 11:20	~ 5	189.4	~ 0.04	0.03	~ 0.03		377	0.26	0.99	< 0.03	77.4	0.6			
4PP-outfall	09/20/2017 08:55						24200									
4PP-outfall	09/28/2017 11:15	10	193.1	~ 0.03	0.03	0.05		388	0.30	0.97	< 0.03	78.9	0.5	< 0.0002	< 0.0005	
4PP-outfall	11/01/2017 11:45						< 10									
4PP-outfall	11/07/2017 12:30	~ 8	189.2	~ 0.03	0.01	~ 0.02		478	0.35	1.10	< 0.03	78.4	0.4			
4PP-outfall	11/15/2017 11:15						120									
4PP-outfall	11/21/2017 11:05	~ 10	187.9	~ 0.02	0.02	~ 0.04		380	0.36	0.86	< 0.03	78.5	0.3	< 0.0002	~ 0.0001	
4PP-outfall	12/19/2017 11:30	< 5	323.7	~ 0.02	0.02	~ 0.03	21	393	0.43	0.96	< 0.03	78.5	0.7	< 0.0002	0.0005	

2017 Stormwater Sample Data - 4PP-outfall

Station	Sample Start	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
4PP-outfall	02/10/2017 09:10	0.0008	0.0002	0.0018	0.0047	677	2.4	~ 1	~ 1
4PP-outfall	02/23/2017 10:10					686	2.1	~ 1	~ 1
4PP-outfall	03/08/2017 10:55	0.0009	~ 0.0003	0.0018	0.0068	676	2.4	4	~ 1
4PP-outfall	03/20/2017 11:20					696	2.3	~ 2	~ 1
4PP-outfall	04/05/2017 10:50								
4PP-outfall	04/14/2017 10:15	0.0007	~ 0.0003	0.0014	0.0033	711	1.9	~ 1	< 1
4PP-outfall	04/20/2017 10:45								
4PP-outfall	05/17/2017 10:40								
4PP-outfall	06/07/2017 09:10								
4PP-outfall	06/13/2017 11:35	0.0008	~ 0.0002	0.0018	0.0052	701	2.7	~ 1	
4PP-outfall	06/21/2017 10:45								
4PP-outfall	06/27/2017 11:50					689	2.5	~ 1	
4PP-outfall	07/05/2017 11:10								
4PP-outfall	07/11/2017 11:00	0.0009	~ 0.0001	0.0015	0.0034	682	2.3	< 1	~ 1
4PP-outfall	07/19/2017 11:35								
4PP-outfall	07/25/2017 09:45					654	2.5	~ 1	~ 1
4PP-outfall	08/02/2017 11:15								
4PP-outfall	08/15/2017 11:35								
4PP-outfall	08/22/2017 11:30	0.0010	~ 0.0002	0.0017	< 0.0050	688	2.2	< 1	< 1
4PP-outfall	08/28/2017 12:10					686	2.1	< 1	< 1
4PP-outfall	09/06/2017 11:00								
4PP-outfall	09/12/2017 11:20					697	1.8	~ 2	~ 1
4PP-outfall	09/20/2017 08:55								
4PP-outfall	09/28/2017 11:15	0.0007	~ 0.0001	0.0016	< 0.0050	693	1.9	1	1
4PP-outfall	11/01/2017 11:45								
4PP-outfall	11/07/2017 12:30					680	1.5	~ 1	
4PP-outfall	11/15/2017 11:15								
4PP-outfall	11/21/2017 11:05	0.0006	~ 0.0002	0.0017	< 0.0050	690	2.1	< 1	
4PP-outfall	12/19/2017 11:30	0.0016	~ 0.0003	0.0022	< 0.0050	834	1.3	3	~ 1

Station	Sample Start	Sample End	Sample Reason	Sample Type	Air	Water	Conductivity (µS/cm)	Dissolved	Salinity (ppt)	Specific	Transparency (cm)	Alkalinity (mg/L)	Ammonia	
					Temperature (°F)	Temperature (°C)		Oxygen (mg/L)		Conductivity (µS/cm)			Nitrogen (mg/L)	
6UMN-outfall	02/10/2017 09:45		Base	Grab	80	7.6	806.0	11.23	8.0	0.60	1209.0	> 100	323	~ 0.04
6UMN-outfall	06/13/2017 11:10		Base	Grab	70	16.9	964.0	10.84	7.8	0.57	1141.0	> 100	297	~ 0.03
6UMN-outfall	06/17/2017 21:05	06/18/2017 02:30	Rain	Composite	70								61	< 0.02
6UMN-outfall	06/20/2017 05:55	06/20/2017 11:05	Rain	Composite	70								102	~ 0.04
6UMN-outfall	06/27/2017 11:20		Base	Grab	68	13.7	989.0	10.92	7.9	0.63	1260.0	> 100	334	~ 0.03
6UMN-outfall	06/28/2017 04:30	06/28/2017 14:35	Rain	Composite	60								32	< 0.02
6UMN-outfall	07/05/2017 10:30		E Coli	Grab	76	16.2	873.0	9.77	7.8	5.52	1049.0	> 100		
6UMN-outfall	07/11/2017 10:20		Base	Grab	75	15.5	994.0	10.47	8.0	0.61	1215.0	> 100	311	~ 0.05
6UMN-outfall	07/17/2017 22:45	07/18/2017 00:45	Rain	Composite	76								31	~ 0.04
6UMN-outfall	07/19/2017 10:45		E Coli	Grab	76	18.1	993.5	9.57	8.2	0.60	1143.2	> 100		
6UMN-outfall	07/25/2017 09:15		Base	Grab	70	15.4	987.0	10.89	7.9	0.61	1210.0	> 100	327	< 0.02
6UMN-outfall	07/25/2017 19:00	07/25/2017 20:15	Rain	Composite	73								27	~ 0.04
6UMN-outfall	07/26/2017 04:25	07/26/2017 05:00	Rain	Composite	73								20	0.31
6UMN-outfall	08/02/2017 10:35		E Coli	Grab	75	17.2	1090.2	9.10	8.0	0.60	1277.4	> 100		
6UMN-outfall	08/03/2017 07:30	08/03/2017 09:20	Rain	Composite	60								30	~ 0.02
6UMN-outfall	08/06/2017 14:10	08/06/2017 15:20	Rain	Composite	75								18	0.22
6UMN-outfall	08/09/2017 15:05	08/09/2017 18:25	Rain	Composite	75								22	0.07
6UMN-outfall	08/15/2017 10:55		E Coli	Grab	70	15.3	990.0	10.32	7.6	0.61	1216.0	> 100		
6UMN-outfall	08/22/2017 10:55		Base	Grab	65	15.4	1002.0	10.84	7.7	0.62	1229.0	> 100	334	~ 0.02
6UMN-outfall	08/28/2017 11:40		Base	Grab	65	15.6	984.0	10.27	7.9	0.60	1201.0	> 100	323	~ 0.06
6UMN-outfall	09/06/2017 10:25		E Coli	Grab	60	13.8	965.0	10.47	7.8	0.61	1226.0	> 100		
6UMN-outfall	09/12/2017 10:45		Base	Grab	75	14.9	988.0	10.26	7.9	0.61	1225.0	> 100	332	< 0.02
6UMN-outfall	09/20/2017 03:05	09/20/2017 03:55	Rain	Composite	70								20	0.10
6UMN-outfall	09/20/2017 09:50		E Coli	Grab	70								50	
6UMN-outfall	09/28/2017 10:40		Base	Grab	61	13.9	949.0	10.79	7.8	0.60	1205.0	> 100	322	0.03
6UMN-outfall	11/01/2017 10:55		E Coli	Grab	35	9.4	859.0	10.89	8.4	0.61	1225.0	> 100		
6UMN-outfall	11/15/2017 10:35		E Coli	Grab	30	9.4	766.0	10.57	7.5	0.54	1091.0	90		
6UMN-outfall	11/21/2017 10:25		Base	Grab	20	7.7	816.0	11.58	8.2	0.61	1219.0	> 100	297	< 0.02
6UMN-outfall	12/04/2017 19:30	12/04/2017 22:40	Rain	Composite	15								39	0.78
6UMN-outfall	12/08/2017 12:10		Base	Grab	25	8.7	1182.0	11.92	8.3	0.87	1715.0	> 100	322	~ 0.05

Station	Sample Start	Sample End	Carbonaceous			Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)	Total Phosphorus (mg/L)	E. coli (MPN/ mL)	Hardness (mg/L CaCO3)	Total		
			Biological Oxygen Demand 5-day (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)						Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
6UMN-outfall	02/10/2017 09:45		0.8	< 5	164.0	~ 0.04	0.01	~ 0.05		480	0.26	0.96	< 0.03
6UMN-outfall	06/13/2017 11:10		1.6	~ 13	146.7	0.06	0.03	0.08		460	0.36	1.00	< 0.03
6UMN-outfall	06/17/2017 21:05	06/18/2017 02:30		81	29.7	0.08		0.29		120	1.70	0.46	0.08
6UMN-outfall	06/20/2017 05:55	06/20/2017 11:05	> 8.6	52	48.7	0.08	0.04	0.19		128	0.93	0.89	0.04
6UMN-outfall	06/27/2017 11:20		2.1	~ 9	168.5	< 0.02	0.02	~ 0.04		476	0.49	1.11	< 0.03
6UMN-outfall	06/28/2017 04:30	06/28/2017 14:35		49	21.8	0.06		0.19		64	0.94	0.34	0.06
6UMN-outfall	07/05/2017 10:30								320				
6UMN-outfall	07/11/2017 10:20		1.5	< 5	161.7	0.02	0.01	0.02		422	0.31	1.01	< 0.03
6UMN-outfall	07/17/2017 22:45	07/18/2017 00:45	> 8.0	73	5.7	< 0.02	< 0.01	0.22		~ 19	1.30	0.40	< 0.03
6UMN-outfall	07/19/2017 10:45								740				
6UMN-outfall	07/25/2017 09:15		1.4	18	164.5	< 0.02	~ 0.01	~ 0.04		514	0.43	1.00	< 0.03
6UMN-outfall	07/25/2017 19:00	07/25/2017 20:15	> 8.6	137	10.1	0.05	0.02	0.51		79	2.40	0.34	0.05
6UMN-outfall	07/26/2017 04:25	07/26/2017 05:00	7.2	74	4.8	~ 0.03	0.03	0.21		47	1.30	1.60	< 0.03
6UMN-outfall	08/02/2017 10:35								30				
6UMN-outfall	08/03/2017 07:30	08/03/2017 09:20		119	10.5	0.11		0.47		54	2.10	0.34	< 0.03
6UMN-outfall	08/06/2017 14:10	08/06/2017 15:20	6.5	70	3.5	< 0.02	0.02	0.24		48	1.80	0.29	< 0.03
6UMN-outfall	08/09/2017 15:05	08/09/2017 18:25	4.1	39	5.9	~ 0.03	0.02	0.10		~ 23	0.74	0.29	0.03
6UMN-outfall	08/15/2017 10:55								30				
6UMN-outfall	08/22/2017 10:55		1.3	~ 7	169.5	~ 0.03	0.02	~ 0.04		425	0.36	1.06	< 0.03
6UMN-outfall	08/28/2017 11:40		1.3	~ 5	158.7	~ 0.02	0.03	0.05		493	0.45	1.09	< 0.03
6UMN-outfall	09/06/2017 10:25								10				
6UMN-outfall	09/12/2017 10:45		1.4	~ 10	169.3	~ 0.02	0.01	~ 0.03		446	0.28	1.05	< 0.03
6UMN-outfall	09/20/2017 03:05	09/20/2017 03:55		114	5.0	0.16		0.57		30	1.70	0.31	< 0.03
6UMN-outfall	09/20/2017 09:50								1190				
6UMN-outfall	09/28/2017 10:40		1.0	~ 10	157.8	~ 0.03	0.02	0.05		423	0.35	0.91	< 0.03
6UMN-outfall	11/01/2017 10:55								< 10				
6UMN-outfall	11/15/2017 10:35								1220				
6UMN-outfall	11/21/2017 10:25		1.5	17	145.1	0.02	0.01	0.06		378	0.41	0.76	< 0.03
6UMN-outfall	12/04/2017 19:30	12/04/2017 22:40	> 9.0	144	39.3	0.34	0.30	0.83		74	3.10	0.69	0.07
6UMN-outfall	12/08/2017 12:10		1.3	23	412.6	< 0.02	0.01	0.02		474	0.55	0.76	< 0.03

2017 Stormwater Sample Data - 6UMN-outfall

Station	Sample Start	Sample End	Sulfate (mg/L)	Total Biological Oxygen Demand 5- day (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Copper (mg/L)	Total Lead (mg/L)	Total Nickel (mg/L)	Total Zinc (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)
6UMN-outfall	02/10/2017 09:45		64.3	0.3	< 0.0002	0.0002	0.0010	~ 0.0002	0.0055	0.0069	652	2.5	4	~ 1
6UMN-outfall	06/13/2017 11:10		60.4	1.6	< 0.0002	0.0003	0.0021	0.0007	0.0052	0.0118	654	4.3	~ 2	
6UMN-outfall	06/17/2017 21:05	06/18/2017 02:30	14.0								163	12.9	95	
6UMN-outfall	06/20/2017 05:55	06/20/2017 11:05	21.6	> 9.0							245	12.1	26	
6UMN-outfall	06/27/2017 11:20		69.1	1.7							709	3.3	~ 1	
6UMN-outfall	06/28/2017 04:30	06/28/2017 14:35	11.0								112	11.3	47	
6UMN-outfall	07/05/2017 10:30													
6UMN-outfall	07/11/2017 10:20		67.1	0.8	< 0.0002	0.0002	0.0011	0.0002	0.0043	0.0044	696	2.6	1	1
6UMN-outfall	07/17/2017 22:45	07/18/2017 00:45	3.4	> 8.0	< 0.0002	0.0041	0.0146	0.0091	0.0040	0.0880	58	8.4	117	46
6UMN-outfall	07/19/2017 10:45													
6UMN-outfall	07/25/2017 09:15		64.2	0.9							689	2.7	~ 2	~ 1
6UMN-outfall	07/25/2017 19:00	07/25/2017 20:15	6.4	> 8.7							84	12.7	240	88
6UMN-outfall	07/26/2017 04:25	07/26/2017 05:00	3.5	7.8							54	8.0	125	36
6UMN-outfall	08/02/2017 10:35													
6UMN-outfall	08/03/2017 07:30	08/03/2017 09:20	6.5								78	14.5	114	43
6UMN-outfall	08/06/2017 14:10	08/06/2017 15:20	2.6	7.9							42	4.8	145	36
6UMN-outfall	08/09/2017 15:05	08/09/2017 18:25	3.5	6.4	< 0.0002	0.0046	0.0101	0.0062	0.0025	0.0524	58	5.3	44	15
6UMN-outfall	08/15/2017 10:55													
6UMN-outfall	08/22/2017 10:55		64.9	0.7	< 0.0002	0.0003	0.0013	~ 0.0004	0.0050	< 0.0050	663	3.0	~ 1	~ 1
6UMN-outfall	08/28/2017 11:40		62.9	0.9							687	2.6	4	~ 2
6UMN-outfall	09/06/2017 10:25													
6UMN-outfall	09/12/2017 10:45		66.3	1.0							706	2.1	~ 1	~ 1
6UMN-outfall	09/20/2017 03:05	09/20/2017 03:55	4.5								65	7.7	225	61
6UMN-outfall	09/20/2017 09:50													
6UMN-outfall	09/28/2017 10:40		63.7	0.8	< 0.0002	< 0.0005	0.0013	0.0003	0.0050	< 0.0050	667	2.3	~ 2	2
6UMN-outfall	11/01/2017 10:55													
6UMN-outfall	11/15/2017 10:35													
6UMN-outfall	11/21/2017 10:25		60.2	1.1	< 0.0002	0.0004	0.0022	0.0010	0.0056	0.0073	649	2.9	7	
6UMN-outfall	12/04/2017 19:30	12/04/2017 22:40	11.1	> 9.0							160	17.6	215	65
6UMN-outfall	12/08/2017 12:10		60.8	1.1							1025	2.0	4	~ 2