

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

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	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