

2016 Stormwater Sample Data at 10SA January - September

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	01/06/2016 10:15		Base	Grab	30	5.8	1176.0	12.61	8.4	0.94	1854.0	> 100	395	0.06
10SA	01/22/2016 09:30		Base	Grab	20	4.6	1452.0	12.69	8.1	1.22	2382.0	85	376	0.13
10SA	02/05/2016 10:20		Base	Grab	11	3.7	4027.0	11.96	8.1	3.68	6790.0	90	349	0.17
10SA	02/17/2016 10:10		Base	Grab	20	3.6	3721.0	12.44	8.2	3.40	6293.0	36	232	0.28
10SA	02/18/2016 14:40	02/21/2016 10:40	Melt	Composite	30	3.8	1240.0	14.87	7.3	1.06	2083.0	14	63	0.78
10SA	03/15/2016 16:30	03/16/2016 08:00	Rain	Composite	40	10.6	462.9	10.43	7.5	0.30	639.4	10	52	0.20
10SA	03/18/2016 09:55		Base	Grab	33	5.8	1038.7	11.54	7.8	0.80	1637.5	87	217	0.20
10SA	03/29/2016 23:50	03/30/2016 13:45	Rain	Composite	40	7.9	307.4	10.70	7.5	0.20	456.6		50	0.14
10SA	04/04/2016 09:45		Base	Grab	32	6.7	1132.0	11.26	8.0	0.90	1738.3	> 100	278	0.02
10SA	04/20/2016 20:30	04/21/2016 16:30	Rain	Composite	55	13.2	385.7	8.69	7.7	0.30	498.3	20	66	0.25
10SA	04/24/2016 06:41	04/24/2016 22:31	Rain	Composite	60	12.8	211.9	9.40	7.7	0.10	275.9	18	49	0.42
10SA	04/27/2016 17:31	04/29/2016 05:26	Rain	Composite	48	9.1	217.2	10.88	7.9	0.10	311.4		67	0.09
10SA	05/02/2016 09:45		Base	Grab	55	12.1	810.9	10.07	8.2	0.50	1074.3	56	285	0.02
10SA	05/19/2016 10:03		Base	Grab	60	13.8	1143.0	9.36	8.3	0.70	1448.5	> 100	346	0.02
10SA	05/25/2016 10:16	05/25/2016 18:21	Rain	Composite	75	20.7	329.8	6.22	7.6	0.20	359.6		23	0.08
10SA	05/27/2016 11:31	05/27/2016 17:51	Rain	Composite	70	22.1	203.1	5.96	7.5	0.10	215.1		46	0.24
10SA	06/02/2016 10:58		Base	Grab	64	15.3	938.3	8.30	8.2	0.60	1149.3	> 100	272	0.02
10SA	06/16/2016 09:40		Base	Grab	71	18.6	413.4	8.74	8.4	0.20	470.9	> 100	122	0.02
10SA	07/18/2016 11:13		Base	Grab	75	20.5	424.8	7.30	8.8	0.20	464.8	> 100	135	0.02
10SA	08/01/2016 10:30		Base	Grab	75	22.4	815.4	7.95	8.3	0.40	857.3	> 100	233	0.02
10SA	08/15/2016 11:05		Base	Grab	75	21.3	980.4	7.95	8.2	0.50	1054.3	> 100	315	0.05
10SA	08/16/2016 17:37	08/16/2016 20:27	Rain	Composite	72									0.13
10SA	08/19/2016 03:02	08/19/2016 08:27	Rain	Composite	71									0.12
10SA	08/19/2016 20:32	08/20/2016 02:42	Rain	Composite	70								46	0.07
10SA	08/20/2016 08:37	08/20/2016 16:02	Rain	Composite	70								68	0.04
10SA	08/23/2016 23:17	08/24/2016 07:02	Rain	Composite	74								50	0.02
10SA	08/30/2016 00:42	08/30/2016 09:07	Rain	Composite	70								55	0.09
10SA	09/01/2016 10:10		Base	Grab	65	21.3	664.1	6.55	8.2	0.40	715.7	> 100	204	0.04
10SA	09/05/2016 04:20	09/05/2016 16:00	Rain	Composite	70								49	0.02
10SA	09/14/2016 08:55		Base	Grab	50	19.8	1005.2	7.52	8.1	0.60	1115.8	> 100	316	0.12

Data in blue have been adjusted to remove symbols based on MWMO data protocols

2016 Stormwater Sample Data at 10SA January - September continued

Station	Sample Start	Sample End	Carbonaceous					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)	Dissolved Phosphorus (mg/L)	Ortho Phosphate (mg/L)				Kjeldahl Nitrogen (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)
10SA	01/06/2016 10:15		1.0	23	341.3	0.08	0.05	0.06		484	1.10	1.84	0.05
10SA	01/22/2016 09:30		1.6	30	465.3	0.08	0.05	0.12	2420	532	1.40	1.52	0.08
10SA	02/05/2016 10:20		2.1	43	2106.7	0.05	0.02	0.12		472	1.40	1.52	0.12
10SA	02/17/2016 10:10		1.7	70	1794.9	0.04	0.03	0.19	7400	448	1.70	1.52	0.17
10SA	02/18/2016 14:40	02/21/2016 10:40		110	487.7	0.18		0.35		72	3.20	0.50	0.06
10SA	03/15/2016 16:30	03/16/2016 08:00	3.7	73	157.3	0.06	0.04	0.18		88	1.40	0.35	0.04
10SA	03/18/2016 09:55		2.7	26	376.0	0.07	0.04	0.09	1553	288	1.30	0.90	0.03
10SA	03/29/2016 23:50	03/30/2016 13:45		62	95.7	0.05		0.17		56	1.30	0.35	0.03
10SA	04/04/2016 09:45		2.1	20	372.7	0.06	0.03	0.07		388	1.20	1.25	0.03
10SA	04/20/2016 20:30	04/21/2016 16:30	4.2	50	102.8	0.03	0.02	0.16		72	1.50	0.43	0.05
10SA	04/24/2016 06:41	04/24/2016 22:31	4.5	67	48.3	0.03	0.02	0.25		52	2.00	0.37	0.03
10SA	04/27/2016 17:31	04/29/2016 05:26	2.1	11	44.6	0.03	0.03	0.08		56	0.67	0.45	0.03
10SA	05/02/2016 09:45		2.1	13	158.3	0.02	0.01	0.09		348	1.10	1.59	0.03
10SA	05/19/2016 10:03		1.6	14	295.8	0.08	0.04	0.08		456	0.94	2.24	0.04
10SA	05/25/2016 10:16	05/25/2016 18:21			40.9	0.07		0.40		124	2.40	0.25	0.03
10SA	05/27/2016 11:31	05/27/2016 17:51			26.0	0.10		0.17		44	1.20	0.32	0.04
10SA	06/02/2016 10:58		2.5	30	187.6	0.07	0.07	0.15		348	1.00	1.09	0.04
10SA	06/16/2016 09:40		4.7	31	62.4	0.09	0.06	0.17		120	1.00	0.50	0.03
10SA	07/18/2016 11:13		2.3	30	55.6	0.09	0.08	0.13		144	0.66	0.42	0.03
10SA	08/01/2016 10:30		0.8	24	98.4	0.13	0.12	0.13		240	0.60	1.06	0.03
10SA	08/15/2016 11:05		1.0	26	100.1	0.09	0.02	0.11		48	1.10	1.77	0.03
10SA	08/16/2016 17:37	08/16/2016 20:27	3.7		17.4	0.03	0.03	0.10			0.77	0.58	0.03
10SA	08/19/2016 03:02	08/19/2016 08:27			12.0	0.06	0.05	0.09			0.64	0.31	0.03
10SA	08/19/2016 20:32	08/20/2016 02:42		27	11.3	0.06		0.11		44	0.63	0.53	0.03
10SA	08/20/2016 08:37	08/20/2016 16:02		24	17.2	0.07		0.12		76	0.58	0.28	0.03
10SA	08/23/2016 23:17	08/24/2016 07:02	2.4	20	13.3	0.05	0.04	0.11		48	0.54	0.27	0.03
10SA	08/30/2016 00:42	08/30/2016 09:07	3.4	27	19.6	0.04	0.03	0.09		64	0.67	0.37	0.03
10SA	09/01/2016 10:10		1.2	21	65.8	0.08	0.07	0.11		232	0.73	0.93	0.03
10SA	09/05/2016 04:20	09/05/2016 16:00		28	16.0	0.04		0.11		56	1.00	0.29	0.03
10SA	09/14/2016 08:55		1.5	21	121.2	0.12	0.12	0.18		352	1.10	1.32	0.04

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2016 Stormwater Sample Data at 10SA January - September 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)
10SA	01/06/2016 10:15		64.6	1.3	0.0001	0.0010	0.0025	0.0001	0.0025	0.0110	1020	7.6	1	1
10SA	01/22/2016 09:30		67.5	2.5							1295	8.2	8	4
10SA	02/05/2016 10:20		56.4	2.7							3630	5.9	2	2
10SA	02/17/2016 10:10		49.8	2.4	0.0001	0.0094	0.0699	0.0015	0.1600	0.0216	3340	8.0	260	16
10SA	02/18/2016 14:40	02/21/2016 10:40	10.9								832		88	38
10SA	03/15/2016 16:30	03/16/2016 08:00	8.5	5.8	0.0001	0.0076	0.0166	0.0066	0.0051	0.0811	341		102	33
10SA	03/18/2016 09:55		41.9	3.0							894	8.1	4	2
10SA	03/29/2016 23:50	03/30/2016 13:45	7.9								223		63	19
10SA	04/04/2016 09:45		54.7	2.0	0.0001	0.0012	0.0027	0.0002	0.0021	0.0046	936	8.0	3	2
10SA	04/20/2016 20:30	04/21/2016 16:30	9.8	6.0							260		44	16
10SA	04/24/2016 06:41	04/24/2016 22:31	5.4	6.0	0.0001	0.0065	0.0164	0.0075	0.0045	0.0696	132		96	22
10SA	04/27/2016 17:31	04/29/2016 05:26	8.7	2.7							177		16	6
10SA	05/02/2016 09:45		43.6	2.6							625	6.3	6	4
10SA	05/19/2016 10:03		60.7	1.3	0.0001	0.0004	0.0037	0.0002	0.0016	0.0065	857	7.8	2	2
10SA	05/25/2016 10:16	05/25/2016 18:21	10.3								179		179	74
10SA	05/27/2016 11:31	05/27/2016 17:51	5.2								117		30	12
10SA	06/02/2016 10:58		42.9	2.4							659	11.6	2	2
10SA	06/16/2016 09:40		15.2	3.8	0.0001	0.0005	0.0066	0.0005	0.0010	0.0025	262	6.3	11	9
10SA	07/18/2016 11:13		12.0	2.6							274	9.2	1	1
10SA	08/01/2016 10:30		29.7	1.0							466	6.0	1	1
10SA	08/15/2016 11:05		37.8	0.7							572	7.5	1	1
10SA	08/16/2016 17:37	08/16/2016 20:27		5.3									38	11
10SA	08/19/2016 03:02	08/19/2016 08:27		5.2										
10SA	08/19/2016 20:32	08/20/2016 02:42	3.9								94		20	5
10SA	08/20/2016 08:37	08/20/2016 16:02	5.5								139		7	3
10SA	08/23/2016 23:17	08/24/2016 07:02	4.4	4.3	0.0001	0.0010	0.0036	0.0009	0.0012	0.0102	93		14	4
10SA	08/30/2016 00:42	08/30/2016 09:07	6.4	8.3							129		14	6
10SA	09/01/2016 10:10		23.8	1.6	0.0001	0.0003	0.0103	0.0001	0.0010	0.0029	384	6.3	1	1
10SA	09/05/2016 04:20	09/05/2016 16:00	5.6		0.0001	0.0010	0.0055	0.0013	0.0014	0.0174	102		24	9
10SA	09/14/2016 08:55		39.0	1.9							617	7.0	3	2

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2016 Stormwater Sample Data at 10SA October - December

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	10/05/2016 02:28	10/05/2016 08:52	Rain	Composite	60								41	0.09
10SA	10/06/2016 20:47	10/07/2016 00:24	Rain	Composite	43								30	0.14
10SA	10/11/2016 10:05		Base	Grab	65	16.3	686.4	8.23	8.0	0.40	823.6	> 100	303	0.02
10SA	10/21/2016 10:00		Base	Grab	43	14.2	796.0	7.56	8.0	0.50	1005.0	> 100	292	0.02
10SA	10/25/2016 22:25	10/26/2016 08:25	Rain	Composite	45								61	0.06
10SA	11/01/2016 09:50		Base	Grab	58	14.9	318.5	8.11	8.2	0.20	394.7	53	104	0.03
10SA	11/17/2016 10:08		Base	Grab	48	12.8	936.5	9.65	8.2	0.60	1222.1	> 100	272	0.03
10SA	11/18/2016 09:21	11/18/2016 20:46	Rain	Composite	28								39	0.50
10SA	11/27/2016 02:35	11/27/2016 22:30	Rain	Composite	51								80	0.07
10SA	12/02/2016 11:05		Base	Grab	32	8.1	510.0	10.16	8.0	0.37	752.0	> 100	226	0.01
10SA	12/20/2016 10:35		Base	Grab	34	5.7	889.3	11.39	8.2	0.70	1410.6	> 100	395	0.03
10SA	12/25/2016 13:25	12/25/2016 21:10	Rain	Composite	19							13	32	0.29

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2016 Stormwater Sample Data at 10SA October - December 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)								
10SA	10/05/2016 02:28	10/05/2016 08:52		28	9.9	0.06	0.05	0.12		28	0.70	0.26	0.02
10SA	10/06/2016 20:47	10/07/2016 00:24	3.9	25	5.4	0.07	0.06	0.14		24	0.69	0.23	0.02
10SA	10/11/2016 10:05		1.3	14	82.6	0.06	0.07	0.09		336	0.55	1.34	0.02
10SA	10/21/2016 10:00		1.6	16	82.6	0.12	0.12	0.14		372	0.56	0.72	0.02
10SA	10/25/2016 22:25	10/26/2016 08:25		53	16.4	0.20		0.28		72	0.72	0.30	0.02
10SA	11/01/2016 09:50		1.2	17	36.4	0.05	0.04	0.08	238	136	0.38	0.38	0.02
10SA	11/17/2016 10:08		0.9	16	156.2	0.05	0.05	0.07	2420	376	0.55	0.65	0.02
10SA	11/18/2016 09:21	11/18/2016 20:46		63	15.2	0.14		0.35		60	1.30	0.29	0.05
10SA	11/27/2016 02:35	11/27/2016 22:30		44	53.9	0.07		0.15		112	0.76	0.34	0.02
10SA	12/02/2016 11:05		1.7	18	85.6	0.09	0.07	0.11		268	0.57	1.14	0.02
10SA	12/20/2016 10:35		0.7	11	170.5	0.04	0.05	0.08	10	540	0.64	1.29	0.02
10SA	12/25/2016 13:25	12/25/2016 21:10		57	389.5	0.07		0.16		76	1.30	0.30	0.02

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2016 Stormwater Sample Data at 10SA October - December continued

Station	Sample Start	Sample End	Total Biological Oxygen Demand 5-								Total Solids (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	
			Sulfate (mg/L)	day (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)					
10SA	10/05/2016 02:28	10/05/2016 08:52	4.5									90		27	12
10SA	10/06/2016 20:47	10/07/2016 00:24	2.9	4.4	0.0001	0.0021	0.0049	0.0023	0.0013	0.0222	53		26	9	
10SA	10/11/2016 10:05		32.7	1.1	0.0001	0.0003	0.0084	0.0002	0.0011	0.0021	555	5.7	1	1	
10SA	10/21/2016 10:00		34.8	1.2							500	7.2	1	1	
10SA	10/25/2016 22:25	10/26/2016 08:25	6.8								129		13	8	
10SA	11/01/2016 09:50		13.7	2.0							207	4.4	8	2	
10SA	11/17/2016 10:08		48.0	0.8							620	7.5	1	1	
10SA	11/18/2016 09:21	11/18/2016 20:46	5.9								87		58	23	
10SA	11/27/2016 02:35	11/27/2016 22:30	11.3		0.0001	0.0026	0.0101	0.0030	0.0023	0.0378	204		37	16	
10SA	12/02/2016 11:05		27.7	1.6	0.0001	0.0005	0.0026	0.0003	0.0013	0.0061	427	6.2	2	2	
10SA	12/20/2016 10:35		50.3	1.0							796	7.3	1	1	
10SA	12/25/2016 13:25	12/25/2016 21:10	6.4								715		53	20	

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