

Water Quality Data Update

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June 3, 2019

Since the last Water Quality Workshop, additional data from sampling Marco Island waterways has become available. This data should be encouraging to the Council and the Community because it shows that, among other changes, the TKN values from the latest samples are significantly reduced from the prior three sampling sessions. Ongoing analysis and study will be required to form specific conclusions from this data. Additional data from the May 13, 2019 sampling session will be available soon and this will provide additional support for this analysis.

This paper is provided to allow the upcoming budget discussions to be set in the context of the most current data.

To assist in these discussion, Serge Thomas, PhD has been invited to make a brief presentation on the resources available from Florida Gulf Coast University. Dr. Thomas attended the last Water Quality Workshop and is very familiar with the waters surrounding Marco Island. Dr. Thomas will provide his insights into how the resources available at FGCU and The Water School may be of interest to Marco Island.

	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Nov-01	Dec-01	Mar-02	Apr-02	May-02	Jun-10	Jul-02	Aug-02	Sep-02	Nov-02	Jan-03	Mar-03	Jul-03	Sep-03	Nov-03
Kendal	0.71	0.96	0.52	<1	0.78	0.80	0.55	0.53	<1	0.75	0.43	0.71	0.58	0.73	0.85	0.52	<1	0.64	1.10	3.20	<1	0.56	0.82
Perrine	<1	0.90	0.84	<1	0.75	0.42	0.63	0.48	<1	<1	0.59	0.72	0.74	0.67	0.49	0.64	<1	0.44	1.10	0.76	<1	0.81	0.87
Collier Bridge	0.53	0.73	0.50	<1	0.83	0.50	0.76	0.55	0.53	0.57	0.61	0.71	0.84	0.86	0.87	0.77	<1	0.58	1.50	<1	<1	0.44	0.76
JH Park	<1	0.98	<1	0.67	0.42	0.51	0.60	0.89	<1	<1	0.52	0.79	0.86	0.91	0.70	0.78	<1	0.55	1.40	<1	<1	1.10	0.82
Barfield Bridge	<1	1.20	<1	<1	0.76	<1	0.58	0.49	0.48	0.57	0.58	0.72	0.78	0.70	0.69	0.63	<1	<1	0.83	0.69	<1	0.52	0.82
Windmill	0.47	1.10	0.48	0.56	0.80	0.55	0.85	0.48	<1	0.65	0.72	0.65	0.78	0.76	0.74	0.66	<1	0.52	0.87	0.72	<1	0.52	0.89
HC Center	<1	0.76	0.59	<1	0.61	0.89	0.74	0.57	0.60	<1	1.20	0.71	0.66	0.75	<1	0.86	0.67	<1	0.63	1.20	0.74	0.81	0.89
Hummingbird	0.58	<1	0.59	0.40	0.58	0.98	0.90	0.85	<1	<1	0.79	0.91	0.68	0.75	<1	0.82	0.53	0.55	0.73	<1	0.60	0.72	1.04
Hollyhock	<1	0.75	0.42	0.42	0.72	1.10	0.74	0.57	0.47	0.50	0.72	0.71	0.55	0.74	<1	0.52	0.62	<1	0.89	0.87	0.70	0.64	0.98
West Winterberry	<1	0.48	0.66	0.68	0.49	0.84	0.90	0.69	<1	<1	0.64	0.76	0.51	0.67	1.00	0.87	0.55	<1	0.91	0.99	<1	0.76	0.76
East Winterberry	<1	0.57	0.50	0.40	0.46	0.86	0.67	0.43	0.40	0.41	0.52	0.78	<1	0.70	<1	0.76	0.77	<1	0.71	0.75	0.80	0.71	0.83
Mclvaine	<1	0.41	0.52	<1	0.52	0.52	0.67	<1	<1	0.49	1.20	0.82	0.65	0.73	<1	0.83	0.52	<1	0.71	0.71	0.56	0.77	1.03
	0.57	0.80	0.56	0.52	0.64	0.72	0.72	0.59	0.50	0.56	0.71	0.75	0.69	0.75	0.76	0.72	0.61	0.55	0.95	1.10	0.68	0.70	0.88

	Jan-04	Mar-04	May-04	Jul-04	Oct-04	Nov-04	Apr-05	Aug-05	Oct-05	Dec-05	Jan-06	Mar-06	May-06	Jul-06	Sep-06	Nov-06	Jan-07	Mar-07	May-07	Jul-07	Sep-07	Nov-07
Kendal	0.66	0.82	1.10	0.64	0.89	1.10	0.29	0.30	0.52	0.52	3.06	0.47	0.72	1.20	0.40	0.40	0.40	0.26	0.92	0.38	0.49	0.51
Perrine	0.93	0.74	1.10	1.10	0.91	0.90	0.23	0.23	0.57	0.55	2.98	0.41	0.58	0.95	0.43	0.40	0.40	0.28	0.63	0.48	0.33	0.47
Collier Bridge	0.73	0.70	1.10	1.10	1.20	1.10	0.27	0.39	0.59	0.61	3.12	0.43	0.66	1.20	0.34	0.40	0.40	0.40	1.03	0.33	0.49	0.68
JH Park	0.74	0.87	1.10	1.40	0.96	1.30	0.28	0.17	0.54	0.60	2.98	0.41	0.61	1.00	0.47	0.40	0.10	0.40	0.94	0.37	0.47	0.46
Barfield Bridge	0.70	0.60	0.91	1.30	0.92	1.30	0.25	0.42	0.60	0.54	3.01	0.41	0.44	1.00	0.44	0.40	0.40	0.40	0.78	0.09	0.35	0.57
Windmill	0.73	0.64			0.88	2.50	0.39	0.63	0.55	0.50	3.11	0.40	0.69	1.10	0.49	0.14	0.19	0.40	0.92	0.48	0.49	0.39
HC Center	0.95	0.85	1.30	1.10	0.74	2.90	0.28	0.49	0.50	0.60	3.13	0.47	0.64	1.80	0.39	0.70	0.50	0.40	0.87	0.32	0.53	0.62
Hummingbird	0.90	0.79	1.00	1.00	0.64	1.50	0.32	0.77	0.55	0.52	3.07	0.44	0.80	1.20	0.57	4.00	0.40	0.40	0.84	0.37	0.59	0.56
Hollyhock	1.80	0.94	1.00	1.00	0.65	1.60	0.32	0.77	0.68	0.71	3.11	0.52	0.72	1.20	0.46	0.60	0.40	0.90	0.79	0.57	0.54	0.04
West Winterberry	0.83	0.66	0.99	0.83	0.57	1.50	0.32	0.80	0.60	0.63	3.02	0.39	0.64	1.00	0.36	0.40	0.40	0.40	0.88	0.32	0.43	0.46
East Winterberry	0.99	0.74	0.99	0.92	0.55	1.40	0.30	0.79	0.61	0.68	3.01	0.51	0.53	1.20	0.39	0.40	0.40	0.40	0.88	0.32	0.47	0.88
Mclvaine	0.95	0.74	1.10	<1	0.52	1.60	0.35	0.68	0.56	0.69	2.93	0.38	0.58	1.10	0.40	0.40	0.40	0.40	0.88	0.41	0.43	0.58
	0.91	0.76	1.06	1.04	0.79	1.56	0.30	0.54	0.57	0.60	3.04	0.44	0.63	1.16	0.43	0.72	0.37	0.43	0.86	0.37	0.47	0.52

	Jan-08	Mar-08	May-08	Jul-08	Sep-08	Dec-08	Feb-09	Apr-09	Jun-09	Aug-09	Oct-09	Dec-09	Feb-10	Apr-10	Jun-10	Sep-10	Jan-11	Mar-11	May-11	Jul-11	Sep-11	Dec-11
Kendal	0.16	0.27	0.36	0.41	0.69	0.24	0.36	0.08	0.16	0.30	0.08	0.27	0.92	0.26	0.07	1.08	0.42	0.35	0.47	0.77	0.44	0.38
Perrine	0.23	0.47	0.43	0.70	0.63	0.42	0.35	0.83	0.35	0.08	0.08	0.32	0.63	0.11	0.12	0.96	0.59	0.44	0.38	0.70	0.53	0.56
Collier Bridge	0.22	0.48	0.28	0.74	0.75	0.32	0.39	0.75	0.80	0.24	0.08	0.24	1.03	0.20	0.09	0.80	0.48	0.31	0.49	0.60	0.43	0.27
JH Park	0.19	0.52	0.30	0.83	0.71	0.19	0.38	0.63	0.74	0.08	0.08	0.34	0.94	0.15	0.12	1.04	0.47	0.34	0.40	0.83	0.47	0.39
Barfield Bridge	0.12	0.33	0.27	0.61	0.64	0.10	0.28	0.22	0.24	0.12	0.34	0.39	0.78	0.07	0.09	0.72	0.45	0.30	0.31	0.68	0.43	0.52
Windmill	0.16	0.36	0.11	0.69	0.70	0.38	0.29	0.36	0.58	0.25	0.17	0.53	0.92	0.06	0.11	0.79	0.45	0.46	0.51	0.66	0.47	0.46
HC Center	0.13	0.18	0.24	0.65	1.14	0.35	0.15	0.68	0.45	0.22	0.84	0.40	0.87	0.23	0.18	1.02	0.45	0.21	0.31	0.65	0.38	0.37
Hummingbird	0.19	0.46	0.28	0.68	0.10	0.37	0.08	0.79	0.26	0.27	0.89	0.24	0.84	0.39	0.19	1.31	0.59	0.36	0.37	0.82	0.43	0.50
Hollyhock	0.26	0.36	0.25	0.62	0.61	0.43	0.18	0.27	0.14	0.17	0.47	0.34	0.79	0.20	0.16	0.50	0.51	0.49	0.75	0.73	0.51	0.39
West Winterberry	0.05	0.17	0.30	0.60	0.54	0.50	0.08	0.77	0.08	0.08	0.84	0.26	0.88	0.19	0.06	1.23	0.59	0.29	0.80	0.57	0.32	0.41
East Winterberry	0.10	0.21	0.34	0.65	0.38	0.63	0.08	0.89	0.14	0.08	0.84	0.33	0.88	0.16	0.16	0.91	0.31	0.40	0.49	0.61	0.37	0.46
Mclvaine	0.18	0.08	0.26	0.45	0.93	0.21	0.13	0.68	0.08	0.08	0.69	0.19	0.68	0.24	0.10	0.62	0.55	0.24	0.30	0.47	0.30	0.47
	0.17	0.32	0.29	0.64	0.65	0.35	0.23	0.58	0.34	0.16	0.45	0.32	0.85	0.19	0.12	0.92	0.49	0.35	0.47	0.67	0.42	0.43

	Feb-12	Apr-12	Jun-12	Aug-12	Oct-12	Dec-12	Feb-13	Apr-13	Jun-13	Aug-13	Oct-13	Jan-14	Mar-14	May-14	Jul-14	Sep-14
Kendal	0.50	0.26	0.36	0.49	0.41	0.44	0.35	0.68	0.55	0.18	0.13	0.30	0.19	0.44	0.41	0.29
Perrine	0.35	0.49	0.39	0.51	0.32	0.43	0.37	0.63	0.56	0.21	0.34	0.25	0.19	0.54	0.20	0.29
Collier Bridge	0.35	0.29	0.34	0.49	0.31	0.48	0.57	0.60	0.55	0.29	0.24	0.30	0.15	0.44	0.29	0.42
JH Park	0.31	0.27	0.40	0.54	0.32	0.44	0.54	0.64	0.39	0.24	0.22	0.33	0.13	0.77	0.30	0.27
Barfield Bridge	0.34	0.48	0.32	0.54	0.25	0.37	0.43	0.68	0.28	0.22	0.05	0.15	0.12	0.59	0.53	0.29
Windmill	0.46	0.35	0.55	0.51	0.47	0.41	0.44	0.68	0.39	0.26	0.06	0.17	0.23	0.33	0.30	0.11
HC Center	0.30	0.43	0.28	0.37	0.22	0.49	0.33	0.43	0.39	0.27	0.06	0.25	0.21	0.28	0.31	0.25
Hummingbird	0.27	0.32	0.56	0.73	0.30	0.47	0.45	0.57	0.63	0.32	0.27	0.29	0.18	0.20	0.29	0.46
Hollyhock	0.40	0.27	0.38	0.51	0.34	0.51	0.42	0.78	0.57	0.26	0.25	0.45	0.29	0.28	0.38	0.43
West Winterberry	0.22	0.17	0.27	0.33	0.25	0.64	0.36	0.66	0.45	0.13	0.17	0.23	0.12	0.22	0.19	0.14
East Winterberry	0.25	0.40	0.52	0.41	0.35	0.52	0.38	0.47	0.50	0.21	0.19	0.26	0.25	0.25	0.21	0.27
Mclvaine	0.30	0.19	0.48	0.43	0.16	0.44	0.30	0.49	0.37	0.09	0.12	0.39	0.26	0.29	0.26	0.16
	0.34	0.33	0.40	0.49	0.31	0.47	0.41	0.61	0.47	0.22	0.18	0.28	0.19	0.39	0.31	0.28

	Jan-15	May-15	Aug-15	Nov-15	Feb-16	May-16	Aug-16	Nov-16	Feb-17	May-17	Aug-17	Nov-17	Feb-18	May-18	Aug-18	Nov-18	Feb-19
Kendal	0.35	0.17	0.21	0.24	0.28	0.14	0.60	0.20	0.48	0.75	0.41	1.16	0.13	1.13	0.55	1.03	0.29
Perrine	0.13	0.16	0.19	0.17	0.08		0.77	0.15									
Collier Bridge	0.11	0.05	0.35	0.35	0.33	0.16	0.52	0.23	0.52	0.45	0.49	0.62	0.14	1.16	0.57	0.46	0.53
JH Park	0.14	0.11	0.28	0.30	0.39	0.11	0.59	0.17	0.55	0.63	0.57	0.58	0.23	1.07	0.75	0.92	0.27
Barfield Bridge	0.23	0.20	0.63	0.22	0.23	0.10	0.69	0.10	0.55	0.61	0.40	0.64	0.18	0.67	0.65	0.68	0.23

Data from 2/26/19 Water Testing Offshore and Onshore

LocationCode	Date	Time	Analyte_Name	Results	Units
WINDMILL	2/26/2019	08:45	Total Nitrogen by HTCC	0.322	mg/L
E_WINTERBERRY_BRIDGE	2/26/2019	10:14	Total Nitrogen by HTCC	0.336	mg/L
W_WINTERBERRY_BRIDGE	2/26/2019	10:42	Total Nitrogen by HTCC	0.318	mg/L
BARFIELD_BRIDGE	2/26/2019	09:07	Total Nitrogen by HTCC	0.380	mg/L
JH_PARK	2/26/2019	08:38	Total Nitrogen by HTCC	0.325	mg/L
BUTTERFLY_CHANNEL	2/26/2019	10:35	Total Nitrogen by HTCC	0.331	mg/L
JOLLEY_BRIDGE_WEST	2/26/2019	11:09	Total Nitrogen by HTCC	0.286	mg/L
RIVER_CHANNEL_EAST	2/26/2019	11:37	Total Nitrogen by HTCC	0.265	mg/L
EDINGTON_CHANNEL_OUT	2/26/2019	11:54	Total Nitrogen by HTCC	0.284	mg/L
RIVER_CHANNEL_WEST	2/26/2019	12:18	Total Nitrogen by HTCC	0.273	mg/L
CAPRI_PASS_LIGHT	2/26/2019	12:31	Total Nitrogen by HTCC	0.214	mg/L
MID_BEACH_1MILE	2/26/2019	13:14	Total Nitrogen by HTCC	0.222	mg/L
CAXAMBAS_PASS_WEST	2/26/2019	13:14	Total Nitrogen by HTCC	0.294	mg/L
CAXAMBAS_PARK_CHANNEL	2/26/2019	14:07	Total Nitrogen by HTCC	0.321	mg/L
CAXAMBAS_BRIDGE_SOUTH	2/26/2019	14:22	Total Nitrogen by HTCC	0.328	mg/L
SOUTH_BEACH_1MILE	2/26/2019	14:51	Total Nitrogen by HTCC	0.216	mg/L
SOUTH_BEACH_3MILE	2/26/2019	15:20	Total Nitrogen by HTCC	0.252	mg/L
MID_BEACH_3MILE	2/26/2019	15:48	Total Nitrogen by HTCC	0.232	mg/L
CAPRI_PASS_3MILE	2/26/2019	16:17	Total Nitrogen by HTCC	0.194	mg/L
EDINGTON_CHANNEL_INBOUND	2/26/2019	17:27	Total Nitrogen by HTCC	0.286	mg/L

Monitoring Location ID	Activity Start Date Time	DEP Analyte Name	DEP Result Value Number	DEP Result Unit
BARFIELD_BRIDGE	02/26/19	Nitrogen- Total Kjeldahl	0.230	mg/L
COLLIER_BRIDGE	02/26/19	Nitrogen- Total Kjeldahl	0.527	mg/L
E_WINTERBERRY_BRIDGE	02/26/19	Nitrogen- Total Kjeldahl	0.230	mg/L
HC_CENTER	02/26/19	Nitrogen- Total Kjeldahl	0.230	mg/L
HOLLYHOCK	02/26/19	Nitrogen- Total Kjeldahl	0.240	mg/L
HUMMINGBIRD	02/26/19	Nitrogen- Total Kjeldahl	0.276	mg/L
JH_PARK	02/26/19	Nitrogen- Total Kjeldahl	0.270	mg/L
KENDALL	02/26/19	Nitrogen- Total Kjeldahl	0.289	mg/L
MCILVAINE	02/26/19	Nitrogen- Total Kjeldahl	0.316	mg/L
W_WINTERBERRY_BRIDGE	02/26/19	Nitrogen- Total Kjeldahl	0.388	mg/L
WINDMILL	02/26/19	Nitrogen- Total Kjeldahl	0.324	mg/L
BARFIELD_BRIDGE	11/15/18	Nitrogen- Total Kjeldahl	0.675	mg/L
COLLIER_BRIDGE	11/15/18	Nitrogen- Total Kjeldahl	0.459	mg/L
E_WINTERBERRY_BRIDGE	11/15/18	Nitrogen- Total Kjeldahl	0.961	mg/L
HC_CENTER	11/15/18	Nitrogen- Total Kjeldahl	0.853	mg/L
HOLLYHOCK	11/15/18	Nitrogen- Total Kjeldahl	0.690	mg/L
HUMMINGBIRD	11/15/18	Nitrogen- Total Kjeldahl	0.875	mg/L
JH_PARK	11/15/18	Nitrogen- Total Kjeldahl	0.920	mg/L
KENDALL	11/15/18	Nitrogen- Total Kjeldahl	1.030	mg/L
MCILVAINE	11/15/18	Nitrogen- Total Kjeldahl	0.809	mg/L
W_WINTERBERRY_BRIDGE	11/15/18	Nitrogen- Total Kjeldahl	0.967	mg/L
WINDMILL	11/15/18	Nitrogen- Total Kjeldahl	1.170	mg/L
BARFIELD_BRIDGE	08/16/18	Nitrogen- Total Kjeldahl	0.652	mg/L
COLLIER_BRIDGE	08/16/18	Nitrogen- Total Kjeldahl	0.569	mg/L
E_WINTERBERRY_BRIDGE	08/16/18	Nitrogen- Total Kjeldahl	0.602	mg/L
HC_CENTER	08/16/18	Nitrogen- Total Kjeldahl	0.767	mg/L
HOLLYHOCK	08/16/18	Nitrogen- Total Kjeldahl	1.140	mg/L
HUMMINGBIRD	08/16/18	Nitrogen- Total Kjeldahl	0.875	mg/L
JH_PARK	08/16/18	Nitrogen- Total Kjeldahl	0.747	mg/L
KENDALL	08/16/18	Nitrogen- Total Kjeldahl	0.553	mg/L
MCILVAINE	08/16/18	Nitrogen- Total Kjeldahl	0.590	mg/L

W_WINTERBERRY_BRIDGE	08/16/18	Nitrogen- Total Kjeldahl	0.834 mg/L
WINDMILL	08/16/18	Nitrogen- Total Kjeldahl	0.595 mg/L
BARFIELD_BRIDGE	05/21/18	Nitrogen- Total Kjeldahl	0.674 mg/L
COLLIER_BRIDGE	05/21/18	Nitrogen- Total Kjeldahl	1.160 mg/L
E_WINTERBERRY_BRIDGE	05/21/18	Nitrogen- Total Kjeldahl	1.190 mg/L
HC_CENTER	05/21/18	Nitrogen- Total Kjeldahl	0.657 mg/L
HOLLYHOCK	05/21/18	Nitrogen- Total Kjeldahl	0.824 mg/L
HUMMINGBIRD	05/21/18	Nitrogen- Total Kjeldahl	1.160 mg/L
JH_PARK	05/21/18	Nitrogen- Total Kjeldahl	1.070 mg/L
KENDALL	05/21/18	Nitrogen- Total Kjeldahl	1.130 mg/L
MCILVAINE	05/21/18	Nitrogen- Total Kjeldahl	0.655 mg/L
W_WINTERBERRY_BRIDGE	05/21/18	Nitrogen- Total Kjeldahl	0.781 mg/L
WINDMILL	05/21/18	Nitrogen- Total Kjeldahl	1.210 mg/L
BARFIELD_BRIDGE	02/08/18	Nitrogen- Total Kjeldahl	0.177 mg/L
COLLIER_BRIDGE	02/08/18	Nitrogen- Total Kjeldahl	0.140 mg/L
E_WINTERBERRY_BRIDGE	02/08/18	Nitrogen- Total Kjeldahl	0.261 mg/L
HC_CENTER	02/08/18	Nitrogen- Total Kjeldahl	1.160 mg/L
HOLLYHOCK	02/08/18	Nitrogen- Total Kjeldahl	0.268 mg/L
JH_PARK	02/08/18	Nitrogen- Total Kjeldahl	0.225 mg/L
KENDALL	02/08/18	Nitrogen- Total Kjeldahl	0.134 mg/L
MCILVAINE	02/08/18	Nitrogen- Total Kjeldahl	0.278 mg/L
W_WINTERBERRY_BRIDGE	02/08/18	Nitrogen- Total Kjeldahl	0.290 mg/L
WINDMILL	02/08/18	Nitrogen- Total Kjeldahl	0.231 mg/L
BARFIELD_BRIDGE	11/13/17	Nitrogen- Total Kjeldahl	0.636 mg/L
COLLIER_BRIDGE	11/13/17	Nitrogen- Total Kjeldahl	0.624 mg/L
E_WINTERBERRY_BRIDGE	11/13/17	Nitrogen- Total Kjeldahl	0.160 mg/L
HC_CENTER	11/13/17	Nitrogen- Total Kjeldahl	0.572 mg/L
HOLLYHOCK	11/13/17	Nitrogen- Total Kjeldahl	0.345 mg/L
JH_PARK	11/13/17	Nitrogen- Total Kjeldahl	0.575 mg/L
KENDALL	11/13/17	Nitrogen- Total Kjeldahl	1.160 mg/L
MCILVAINE	11/13/17	Nitrogen- Total Kjeldahl	0.084 mg/L
W_WINTERBERRY_BRIDGE	11/13/17	Nitrogen- Total Kjeldahl	0.623 mg/L
WINDMILL	11/13/17	Nitrogen- Total Kjeldahl	0.353 mg/L
BARFIELD_BRIDGE	08/16/17	Nitrogen- Total Kjeldahl	0.397 mg/L

COLLIER_BRIDGE	08/16/17	Nitrogen- Total Kjeldahl	0.490 mg/L
E_WINTERBERRY_BRIDGE	08/16/17	Nitrogen- Total Kjeldahl	0.378 mg/L
HC_CENTER	08/16/17	Nitrogen- Total Kjeldahl	0.487 mg/L
HOLLYHOCK	08/16/17	Nitrogen- Total Kjeldahl	0.487 mg/L
HUMMINGBIRD	08/16/17	Nitrogen- Total Kjeldahl	0.499 mg/L
JH_PARK	08/16/17	Nitrogen- Total Kjeldahl	0.566 mg/L
KENDALL	08/16/17	Nitrogen- Total Kjeldahl	0.408 mg/L
MCILVAINE	08/16/17	Nitrogen- Total Kjeldahl	0.413 mg/L
W_WINTERBERRY_BRIDGE	08/16/17	Nitrogen- Total Kjeldahl	0.311 mg/L
WINDMILL	08/16/17	Nitrogen- Total Kjeldahl	0.575 mg/L
BARFIELD_BRIDGE	05/18/17	Nitrogen- Total Kjeldahl	0.606 mg/L
COLLIER_BRIDGE	05/18/17	Nitrogen- Total Kjeldahl	0.446 mg/L
E_WINTERBERRY_BRIDGE	05/18/17	Nitrogen- Total Kjeldahl	0.158 mg/L
HC_CENTER	05/18/17	Nitrogen- Total Kjeldahl	0.642 mg/L
HOLLYHOCK	05/18/17	Nitrogen- Total Kjeldahl	0.595 mg/L
HUMMINGBIRD	05/18/17	Nitrogen- Total Kjeldahl	0.568 mg/L
JH_PARK	05/18/17	Nitrogen- Total Kjeldahl	0.628 mg/L
KENDALL	05/18/17	Nitrogen- Total Kjeldahl	0.750 mg/L
MCILVAINE	05/18/17	Nitrogen- Total Kjeldahl	0.235 mg/L
W_WINTERBERRY_BRIDGE	05/18/17	Nitrogen- Total Kjeldahl	0.589 mg/L
WINDMILL	05/18/17	Nitrogen- Total Kjeldahl	0.575 mg/L
BARFIELD_BRIDGE	02/21/17	Nitrogen- Total Kjeldahl	0.546 mg/L
COLLIER_BRIDGE	02/21/17	Nitrogen- Total Kjeldahl	0.520 mg/L
E_WINTERBERRY_BRIDGE	02/21/17	Nitrogen- Total Kjeldahl	0.614 mg/L
HC_CENTER	02/21/17	Nitrogen- Total Kjeldahl	0.451 mg/L
HOLLYHOCK	02/21/17	Nitrogen- Total Kjeldahl	0.676 mg/L
HUMMINGBIRD	02/21/17	Nitrogen- Total Kjeldahl	0.458 mg/L
JH_PARK	02/21/17	Nitrogen- Total Kjeldahl	0.553 mg/L
KENDALL	02/21/17	Nitrogen- Total Kjeldahl	0.475 mg/L
MCILVAINE	02/21/17	Nitrogen- Total Kjeldahl	0.490 mg/L
W_WINTERBERRY_BRIDGE	02/21/17	Nitrogen- Total Kjeldahl	0.471 mg/L
WINDMILL	02/21/17	Nitrogen- Total Kjeldahl	0.575 mg/L