



Water Quality Data 2018

A review of water quality sampling data for 2018 through October finds a generally healthy bay complex.

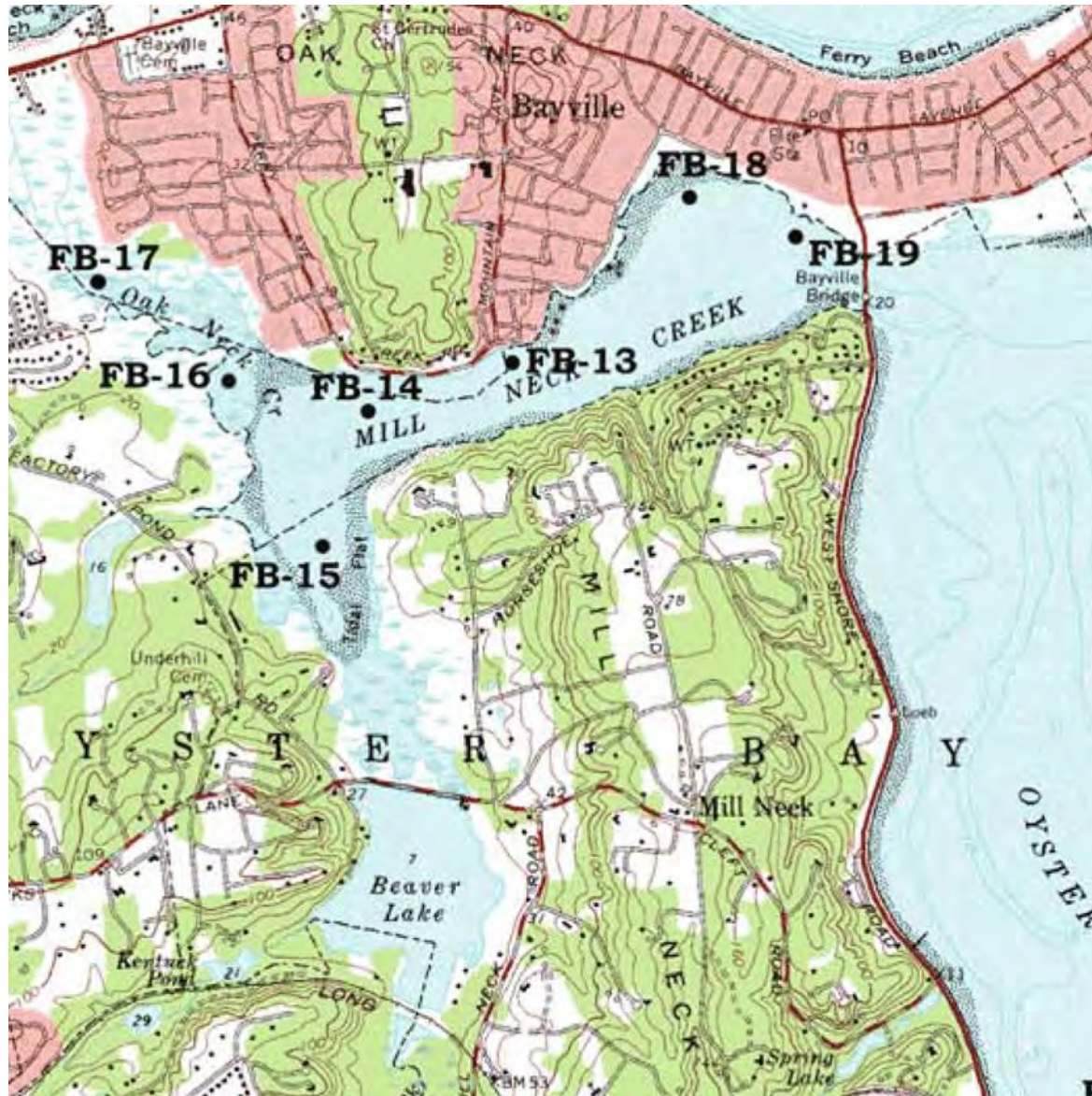
Data from some locations does however reflect water quality that is less 'healthy' than other areas. These are, not surprisingly, the locations where bay tributaries discharge – particularly Mill Neck Creek and Cold Spring Harbor's Inner Harbor.

In these areas one would expect higher bacterial and suspended solid loads from stormwater and waterfowl inputs and lower pH due to freshwater discharge. Observations from an examination of the data follow.



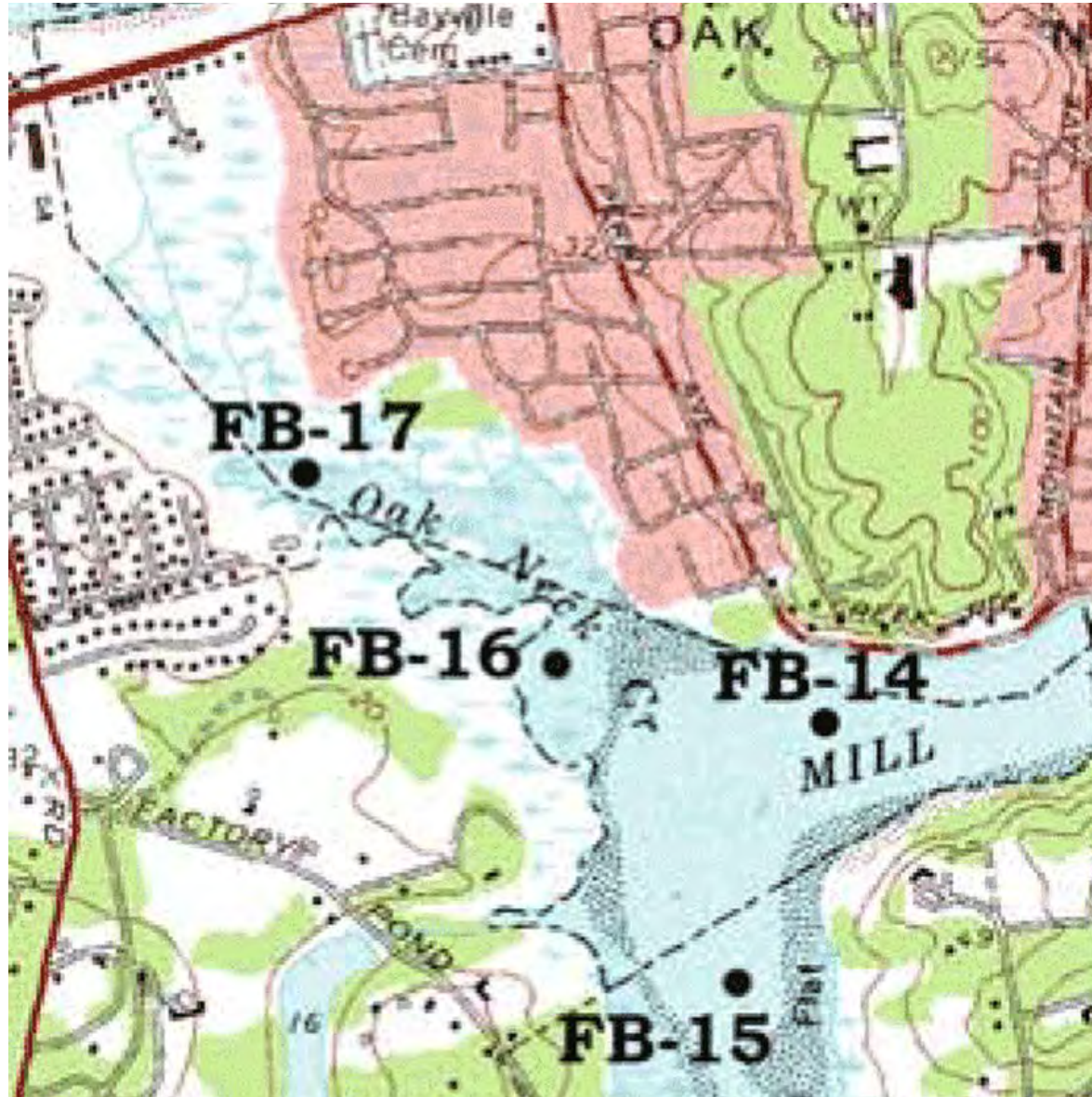
A review of pH averages indicates that **FB-1** has the lowest pH.

(Inner Harbor of Cold Spring Harbor)



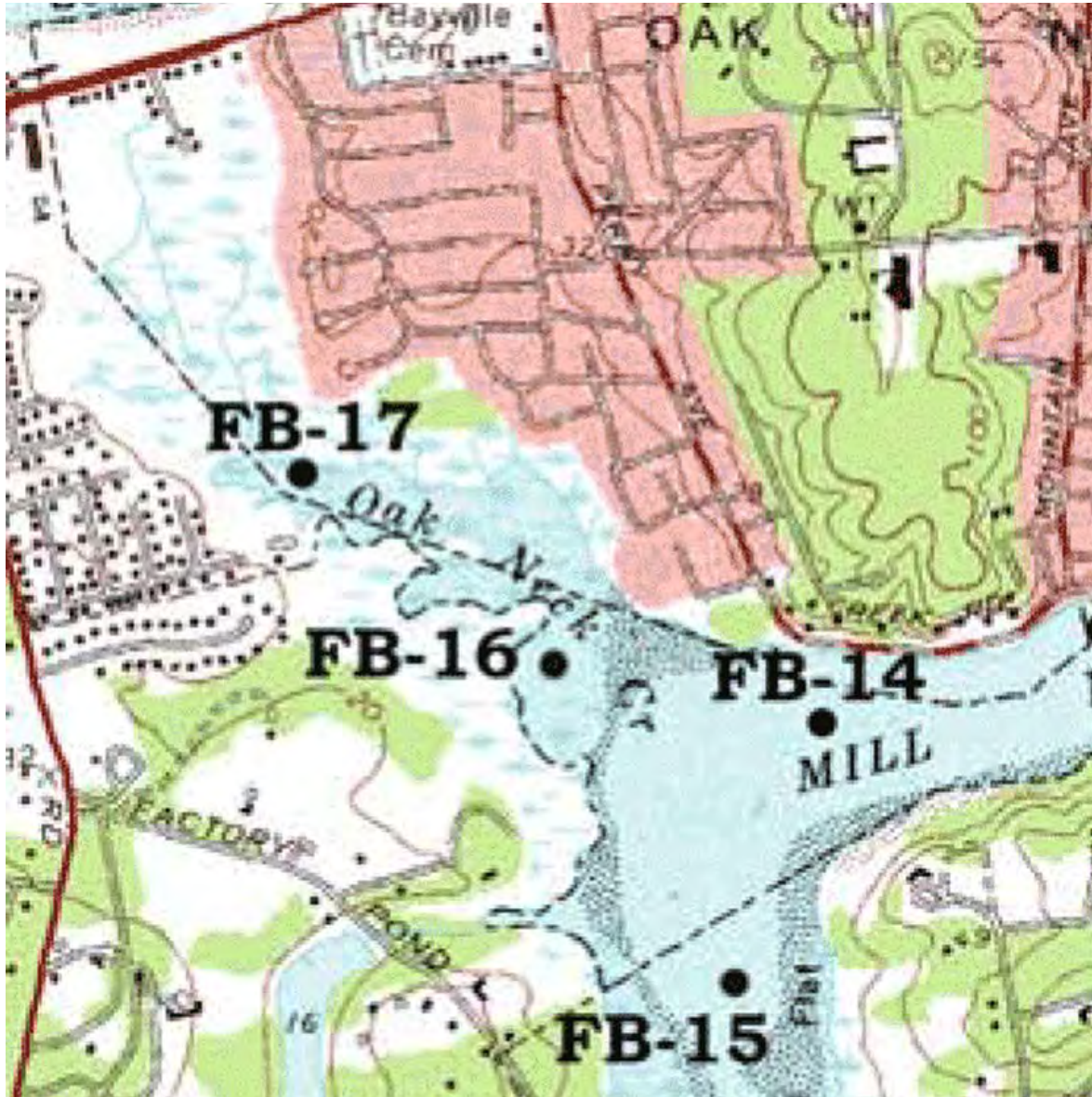
Lower pH is also found in **FB-13-19** (Mill Neck Creek).

Lower pH may be due to algal or bacterial respiration and/or from the discharge of lower pH freshwater (Cold Spring Harbor ponds and Beaver Lake respectively).



At **FB-17** (head of Mill Neck Creek)
50% of samples taken at 1 meter had a pH
of less than 8.0

(the pH of marine waters is typically >8.1)



Similarly, at **FB-16** (head of Mill Neck Creek) 30% of samples taken just off the bottom had a pH of less than 8.0.

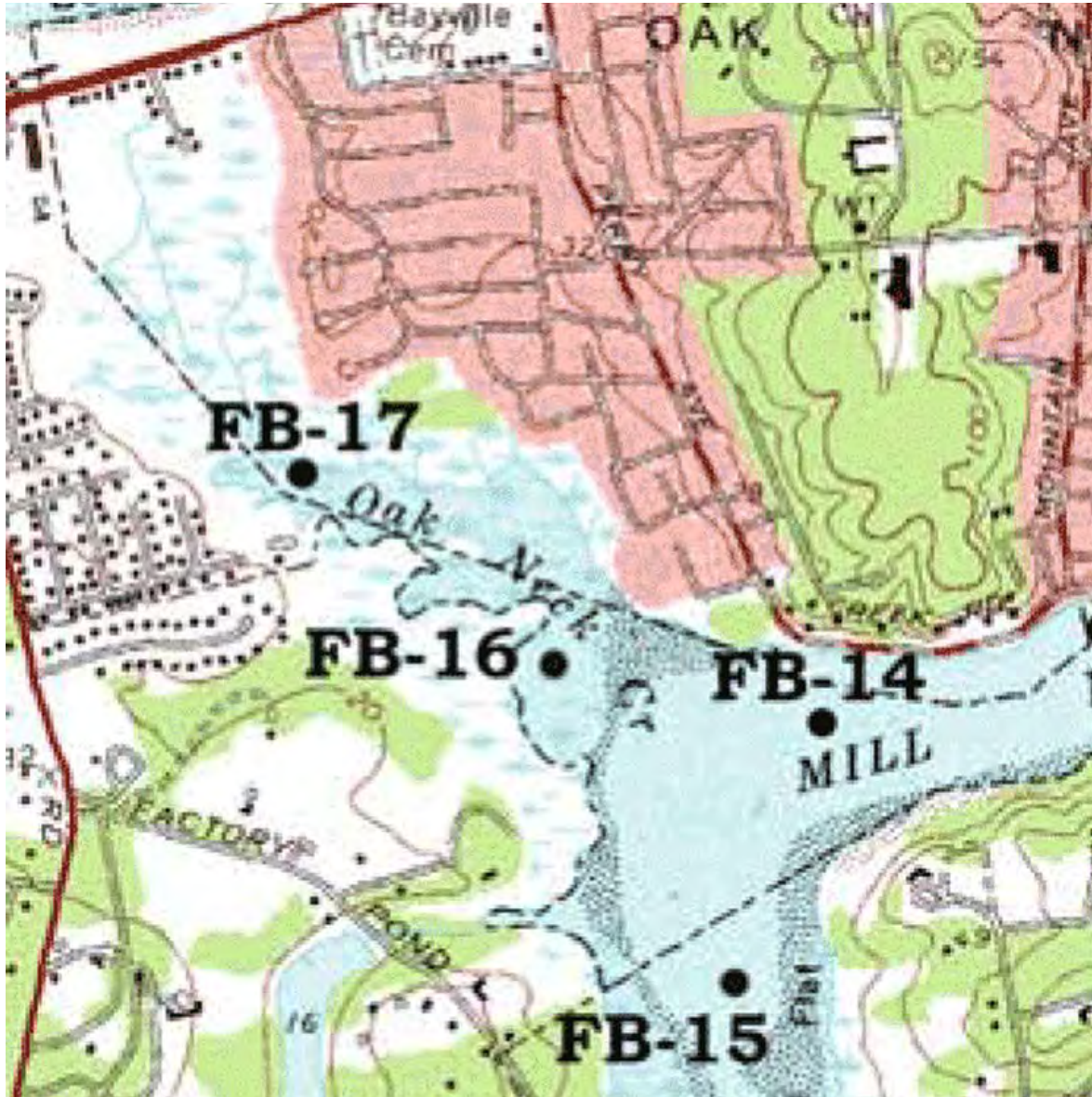
Average dissolved oxygen (DO) for samples taken at the top and near bottom of the water column is lowest near the head of Mill Neck Creek at stations **FB-16 & FB 17**.



Dissolved Oxygen (DO) is an important parameter to measure when assessing water quality. In water, dissolved oxygen is an essential factor for aquatic life.

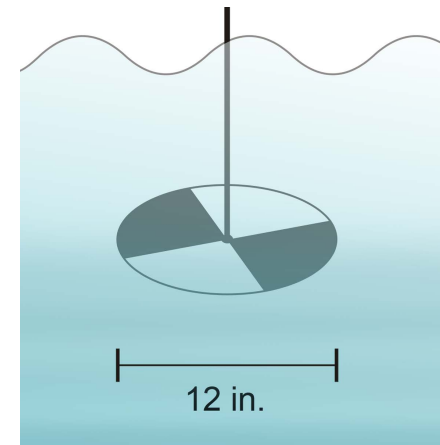
A DO of less than 3.0 mg/L is considered 'hypoxic' and inhospitable to virtually all marine organisms.

Stations **FB-1** and **FB-2** in the Cold Spring Harbor Inner Harbor experienced a DO of less than 3.0 on several occasions.



Stations **FB-15**, **FB-16**, and **FB-17** near the head of Mill Neck Creek also experienced a DO of less than 3.0 on several occasions.

In fact, 25% of the samples taken at the top of the water column at station **FB-17** were below 3.0 and 30% of the samples taken near the bottom of the water column were below 3.0 at station **FB-15**.



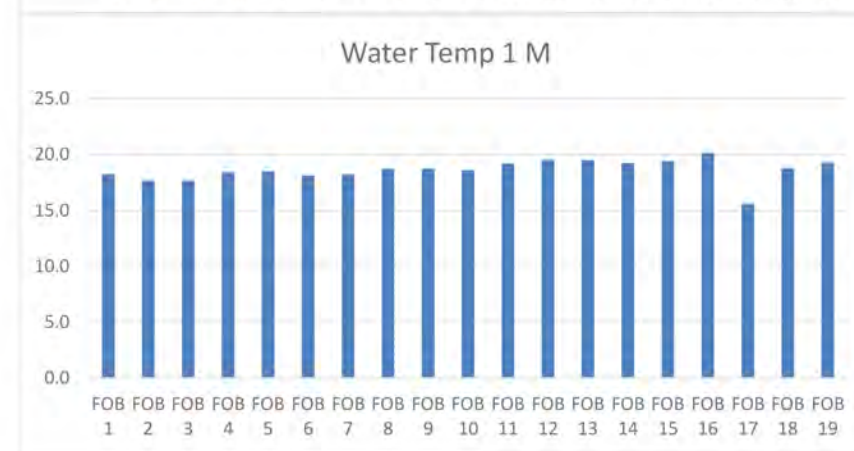
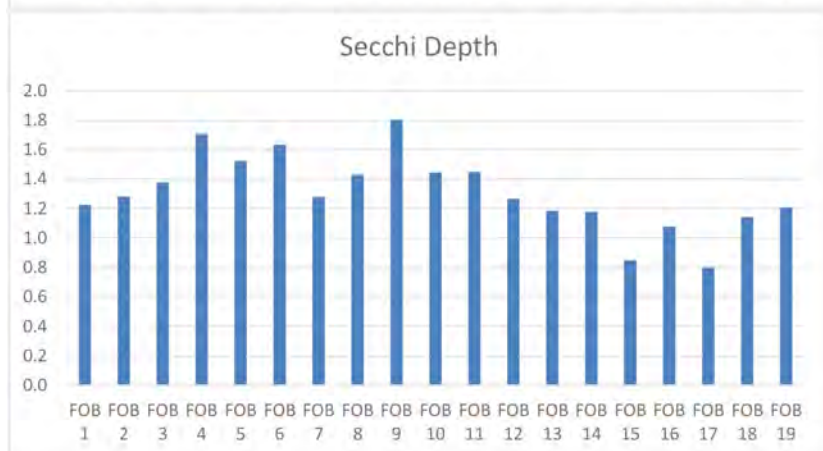
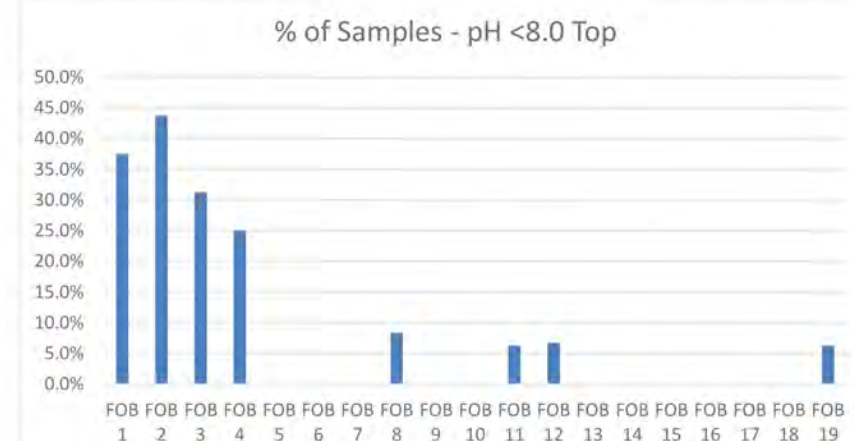
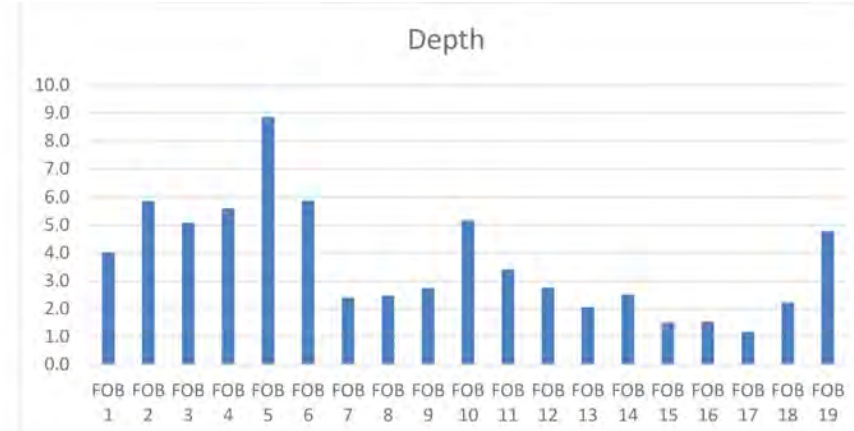
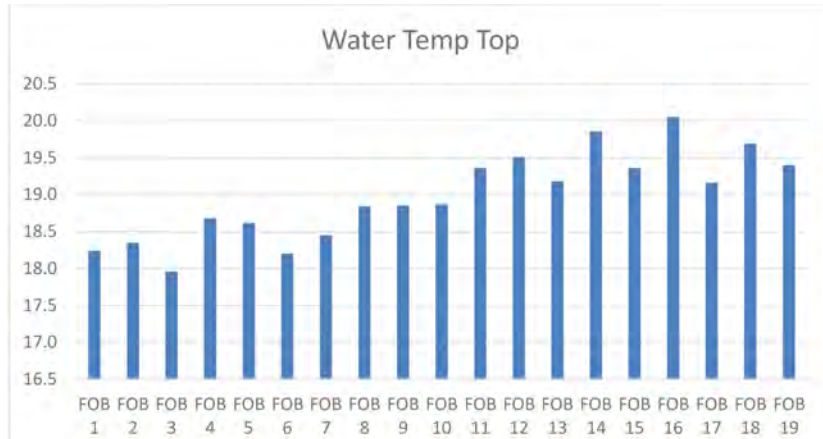
The Secchi Disk is a circular disk used to measure water transparency, or turbidity, in bodies of water.

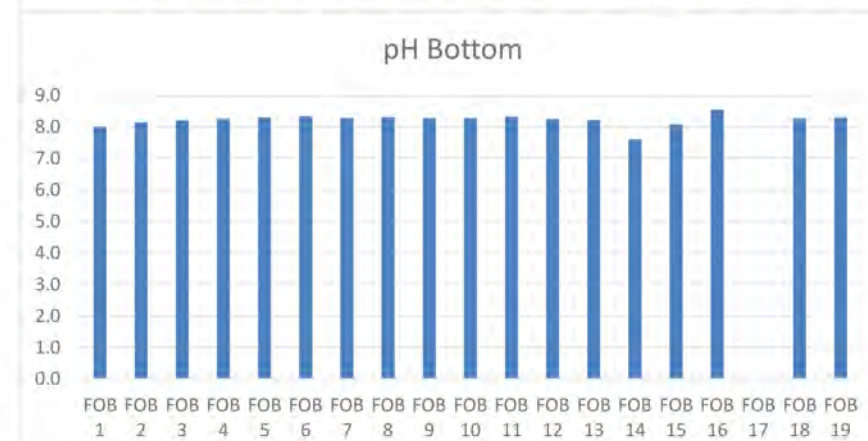
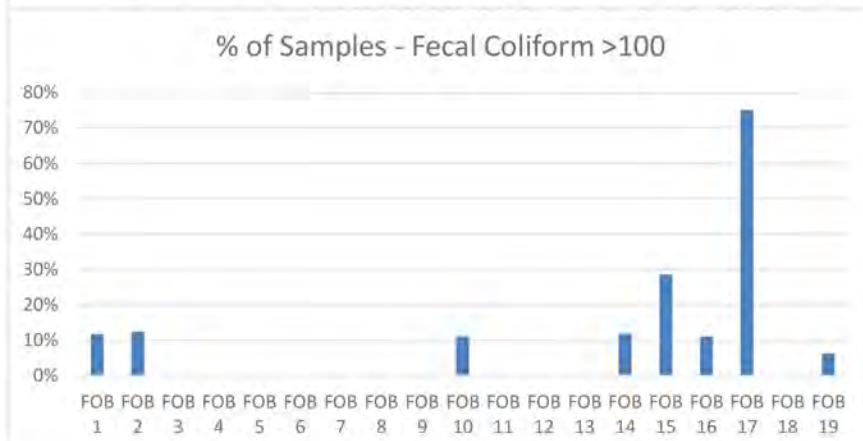
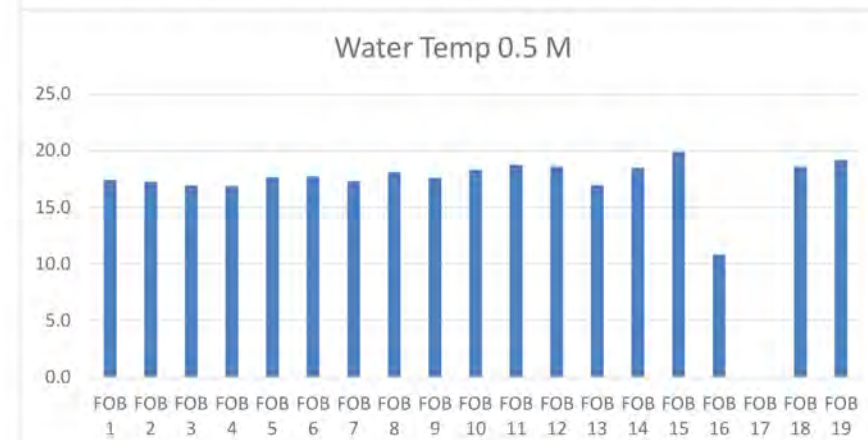
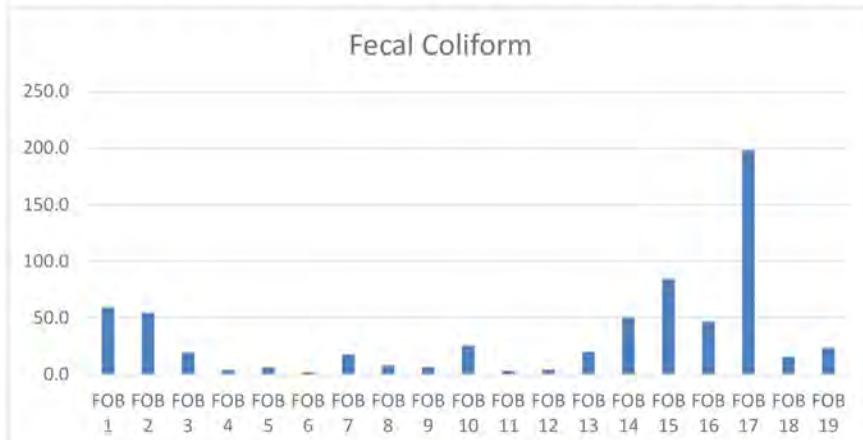
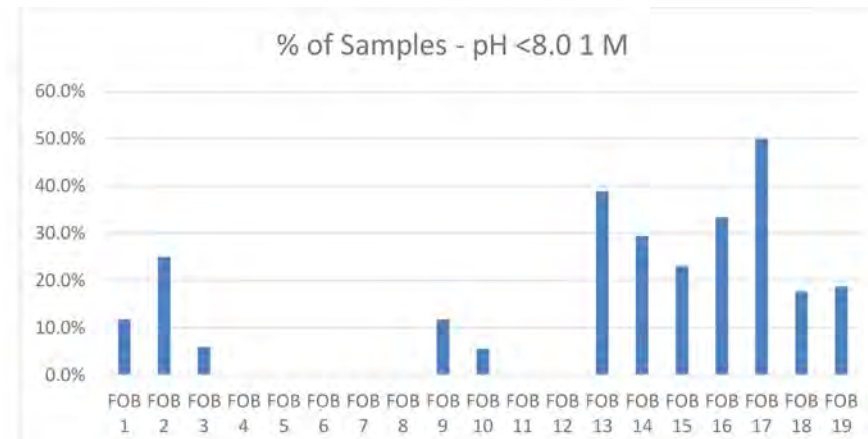
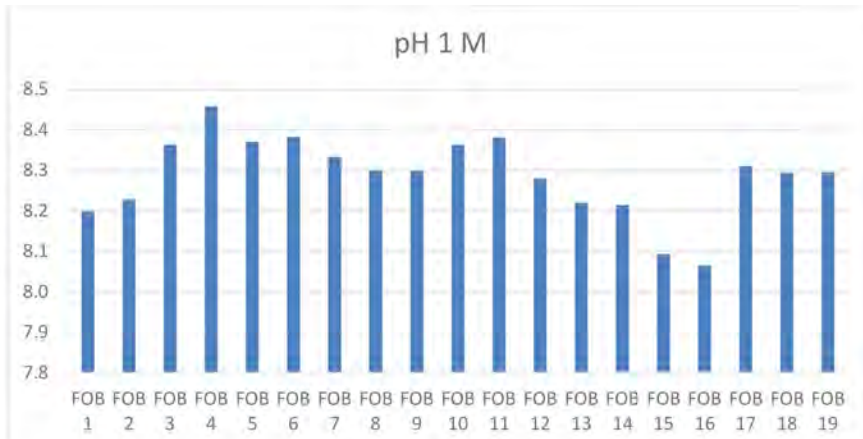
Secchi depth is a measure of water clarity. Lower values reflect either higher suspended solid loads typically from tributary discharges or higher densities of phytoplankton (microscopic algae).

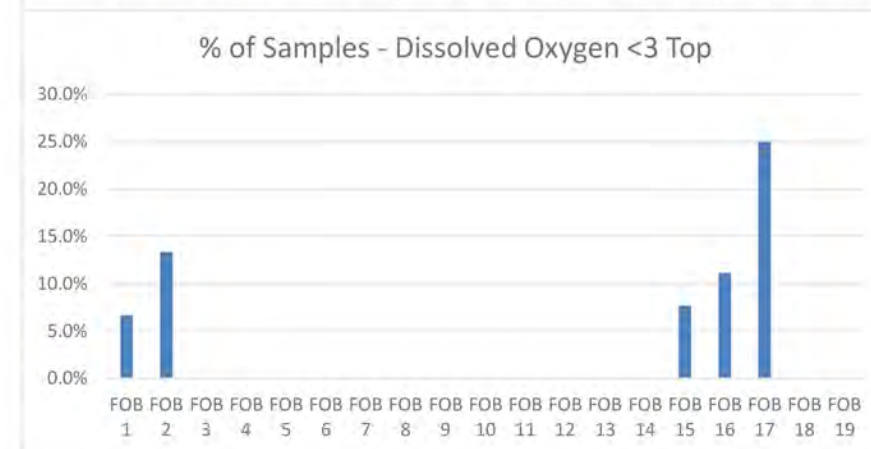
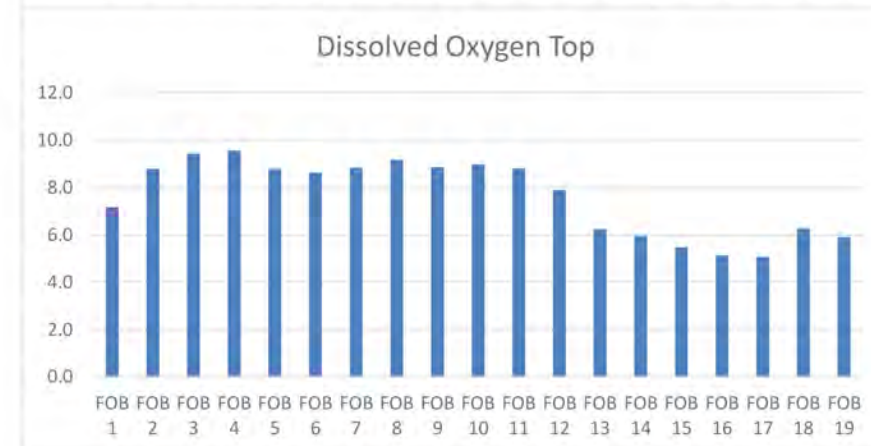
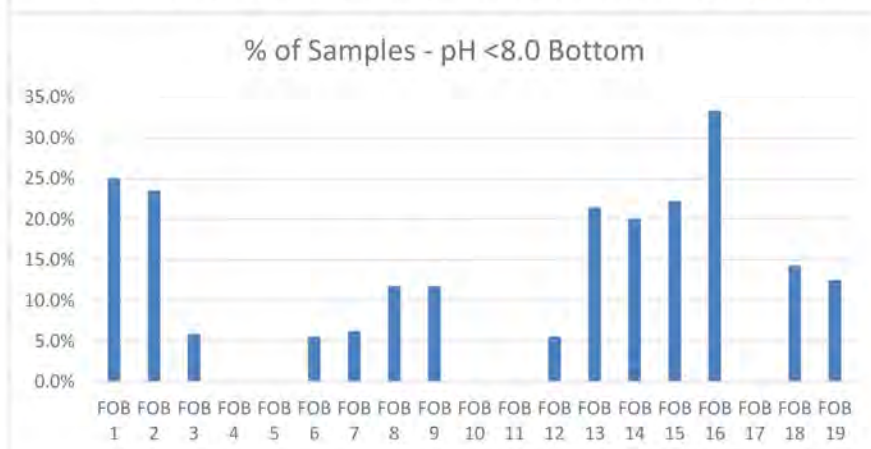
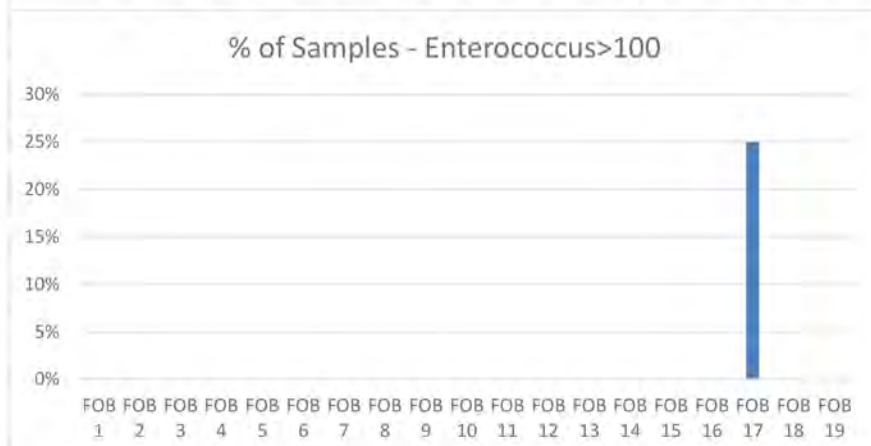
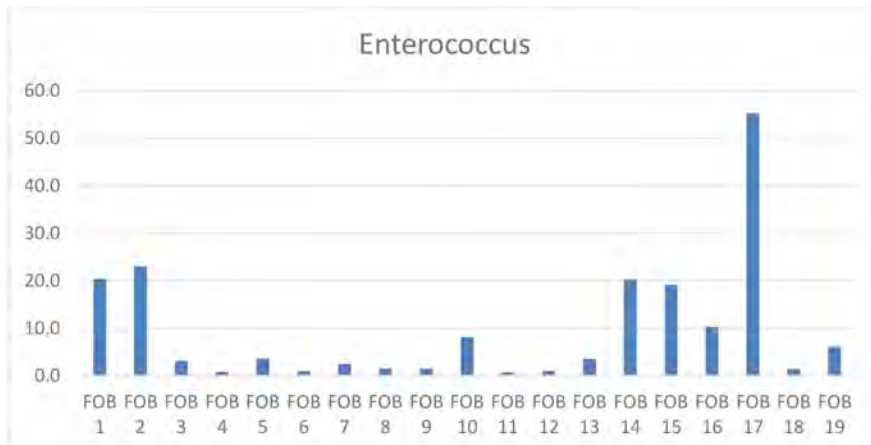
The Cold Spring Harbor Inner Harbor (**FB-1** and **FB-2**) had the lowest Secchi depths as a percent of all readings – 50% and 30% respectively were less than one meter.

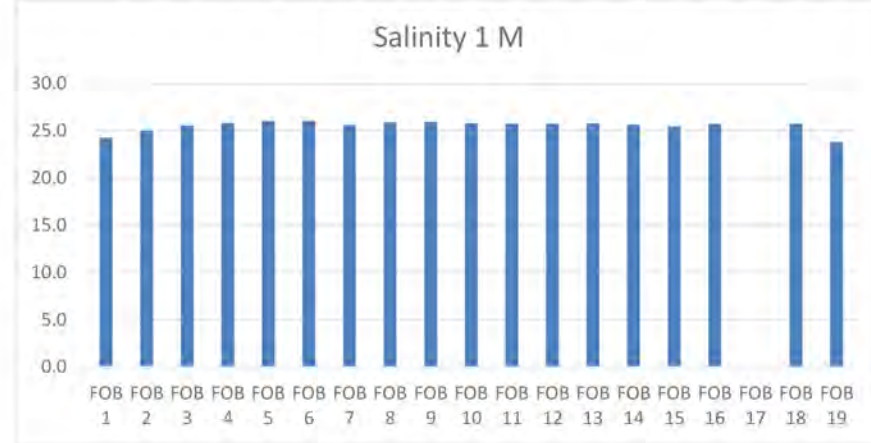
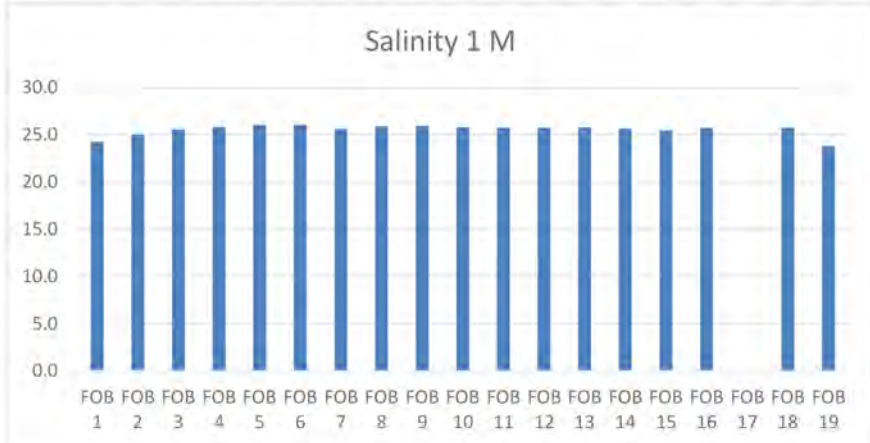
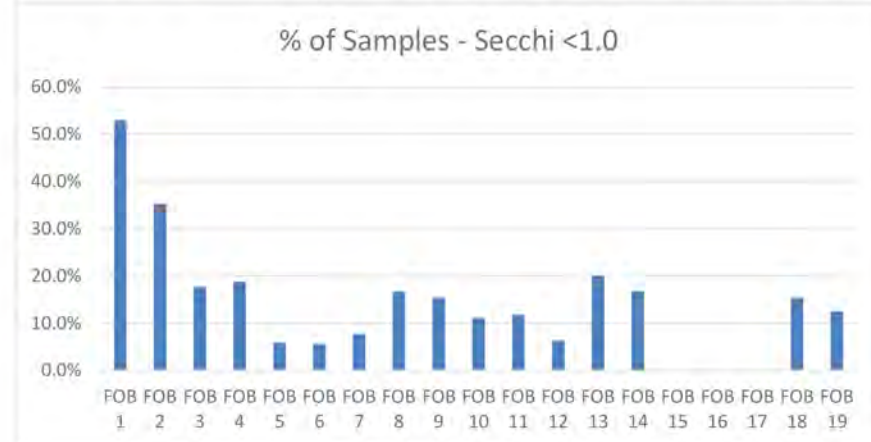
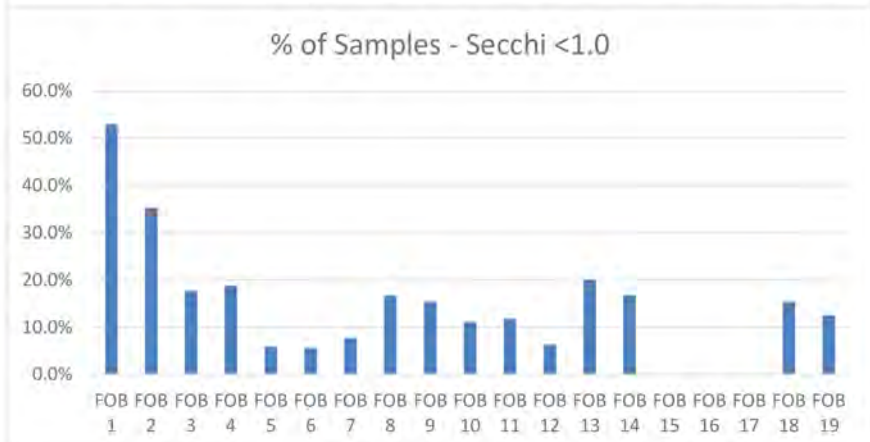
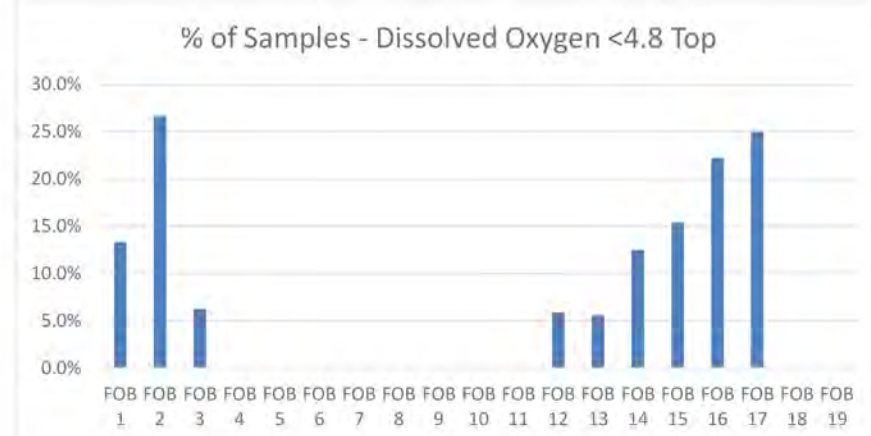
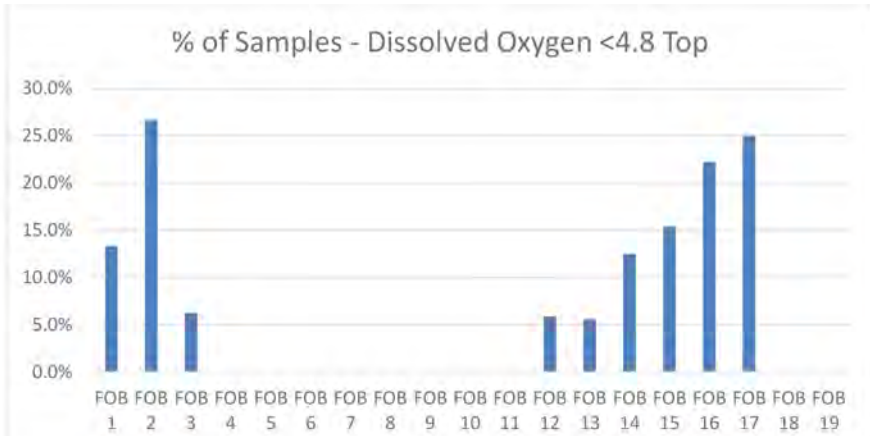
PARAMETER	AVERAGE YTD																		
	FOB 1	FOB 2	FOB 3	FOB 4	FOB 5	FOB 6	FOB 7	FOB 8	FOB 9	FOB 10	FOB 11	FOB 12	FOB 13	FOB 14	FOB 15	FOB 16	FOB 17	FOB 18	FOB 19
H2O Temp TOP	18.2	18.3	18.0	18.7	18.6	18.2	18.4	18.8	18.9	18.9	19.4	19.5	19.2	19.9	19.4	20.1	19.2	19.7	19.4
H2O Temp 1.0 m	18.2	17.6	17.6	18.4	18.5	18.1	18.2	18.7	18.7	18.6	19.2	19.5	19.5	19.2	19.4	20.1	15.6	18.8	19.3
H2O Temp 0.5 m	17.4	17.2	16.9	16.9	17.7	17.7	17.3	18.1	17.6	18.3	18.8	18.6	17.0	18.5	19.9	10.8	ND	18.6	19.2
Salinity TOP	24.3	24.7	25.4	25.8	26.1	26.1	25.7	25.9	26.0	25.9	25.8	25.8	25.5	25.3	24.9	25.5	19.8	24.0	23.8
Salinity 1.0	24.3	25.0	25.5	25.8	26.0	26.0	25.6	25.9	25.9	25.8	25.7	25.7	25.8	25.6	25.5	25.7	ND	25.7	23.8
Salinity BTM	25.2	25.6	25.9	26.2	26.2	26.1	25.8	26.1	26.0	25.8	25.6	25.5	25.5	25.4	24.9	26.0	ND	25.2	25.6
PH Top	7.8	8.3	8.4	8.5	8.4	8.4	8.3	8.3	8.4	8.4	8.4	8.3	8.2	8.2	8.1	8.0	8.0	7.8	7.8
PH 1.0	8.2	8.2	8.4	8.5	8.4	8.4	8.3	8.3	8.3	8.4	8.4	8.3	8.2	8.2	8.1	8.1	8.3	8.3	8.3
Ph 0.5 m from BTM	8.0	8.1	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	7.6	8.1	8.5	ND	8.3	8.3
Top DO	7.2	8.8	9.4	9.6	8.8	8.6	8.8	9.2	8.9	9.0	8.8	7.9	6.2	6.0	5.5	5.1	5.1	6.3	5.9
DO 1.0	6.4	8.4	9.3	9.4	8.7	8.6	9.1	8.8	8.9	9.0	8.6	7.8	6.2	6.3	5.1	5.5	6.7	6.4	5.9
BTM DO	5.6	7.9	8.1	8.3	8.7	8.4	6.8	6.8	7.0	8.3	8.3	8.1	6.7	6.3	5.6	3.8	ND	6.3	5.6
Secchi	1.2	1.3	1.4	1.7	1.5	1.6	1.3	1.4	1.8	1.4	1.4	1.3	1.2	1.2	0.9	1.1	0.8	1.1	1.2
Depth (meters)	4.0	5.9	5.1	5.6	8.9	5.9	2.4	2.5	2.7	5.2	3.4	2.8	2.1	2.5	1.5	1.5	1.2	2.2	4.8
Air Temp (°C)	19.5	19.7	19.7	20.2	19.9	20.0	19.7	20.6	20.9	20.0	20.2	19.6	19.6	20.2	19.8	20.2	18.7	19.5	20.3
H2O Temp BTM	nd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fecal Coliform	59.5	54.8	19.4	3.9	6.2	2.4	17.8	8.2	6.6	25.7	3.2	4.3	20.1	50.6	84.4	46.7	198.0	15.5	23.4
Enterococci	20.4	23.1	3.1	0.8	3.6	0.9	2.5	1.5	1.5	8.1	0.7	1.1	3.6	20.2	19.1	10.3	55.3	1.4	6.1

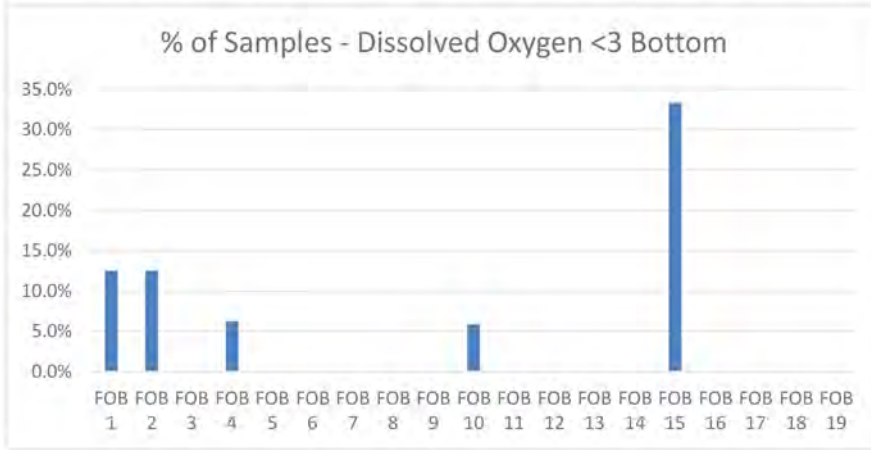
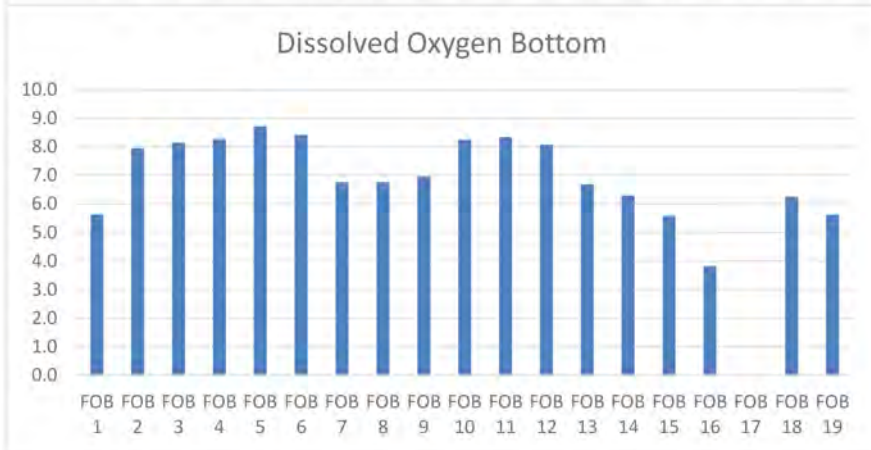
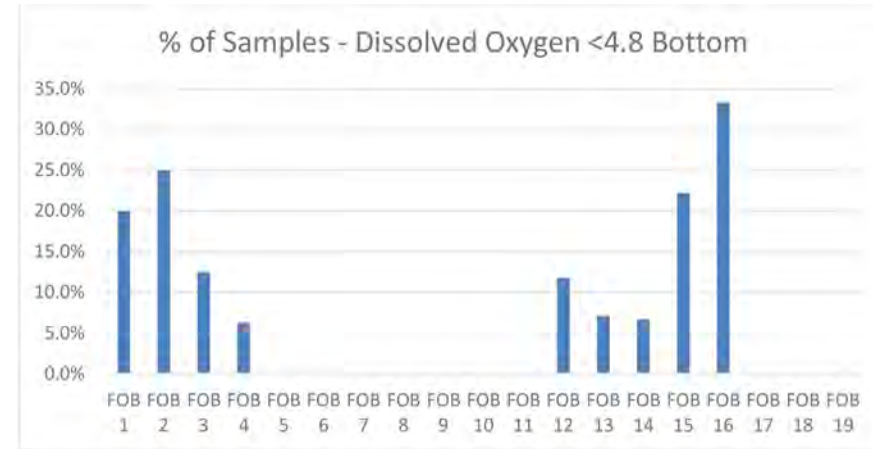
PARAMETER	% SAMPLES																		
	FOB 1	FOB 2	FOB 3	FOB 4	FOB 5	FOB 6	FOB 7	FOB 8	FOB 9	FOB 10	FOB 11	FOB 12	FOB 13	FOB 14	FOB 15	FOB 16	FOB 17	FOB 18	FOB 19
DO<3.0 TOP	6.7%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	11.1%	25.0%	0.0%	0.0%
DO<3.0 1M	6.7%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.1%	16.7%	0.0%	0.0%	0.0%
DO<3.0 BTM	12.5%	12.5%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	0.0%	0.0%	33.3%	0.0%	ND	0.0%	0.0%
DO<4.8 TOP	13.3%	26.7%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	5.6%	12.5%	15.4%	22.2%	25.0%	0.0%	0.0%
DO<4.8 1M	13.3%	26.7%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	5.6%	12.5%	15.4%	22.2%	25.0%	0.0%	0.0%
DO<4.8 BTM	20.0%	25.0%	12.5%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.8%	7.1%	6.7%	22.2%	33.3%	0.0%	0.0%	0.0%
pH<8.0 TOP	37.5%	43.8%	31.3%	25.0%	0.0%	0.0%	0.0%	8.3%	0.0%	0.0%	6.3%	6.7%	0.0%	0.0%	0.0%	0.0%	ND	0.0%	6.3%
pH<8.0 1M	11.8%	25.0%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	11.8%	5.6%	0.0%	0.0%	38.9%	29.4%	23.1%	33.3%	50.0%	17.6%	18.8%
pH<8.0 5M	25.0%	23.5%	5.9%	0.0%	0.0%	5.6%	6.3%	11.8%	11.8%	0.0%	0.0%	5.6%	21.4%	20.0%	22.2%	33.3%	0.0%	14.3%	12.5%
Secchi<1.0	52.9%	35.3%	17.6%	18.8%	5.9%	5.6%	7.7%	16.7%	15.4%	11.1%	11.8%	6.3%	20.0%	16.7%	0.0%	0.0%	ND	15.4%	12.5%
Fecal Coliform >100	12%	13%	0%	0%	0%	0%	0%	0%	0%	11%	0%	0%	0%	12%	29%	11%	75%	0%	6%
Enterococci >100	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	25%	0%	0%











Friends of the Bay 2018 Water Quality Data - Site 1, Cold Spring Cove South																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0	Salinity BTM	PH Top	PH 1.0	Ph .5 m from BTM	Top DO	DO 1.0	BTM DO	Secchi	Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Entero-cocci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	Monitor - snow																												
4/9/2018	at not available																												
4/16/2018	at not available																												
4/23/2018	01028	9.33	9.10	8.38	21.82	23.42	24.74	8.53	9.10	8.51	13.88	12.10	10.56	1.3	3.0	12.00		4	<1	0	2	5	6	1	0	1	3	1	
4/30/2018	00810	10.70	10.77	10.72	23.77	24.25	24.66	8.50	8.48	8.38	8.01	7.68	7.05	1.4	3.6	9.60		34	<1	3	3	4	6	2	4	2	1	3	
5/7/2018	01100	14.62	absent	14.70	22.83	absent	23.45	8.98	absent	8.86	11.63	absent	11.25	1.2	1.3	20.80		6	<1	1	3	1	6	1	3	1	8	3	
5/14/2018	00820	13.84	13.8	12.72	24.73	24.73	25.23	8.39	8.34	8.10	7.42	7.26	6.25	1.5	4.4	13.80		62	20	2	4	1	0	4	0	0	3		
5/21/2018	01005	16.12	16.10	14.44	22.96	23.58	24.90	8.12	8.11	8.14	5.42	5.44	4.93	2.4	3.4	18.70		24	2	1	2	3	6	1	1	1	8	1	
5/28/2018	00758	16.13	15.88	14.20	23.78	24.45	25.30	7.95	7.89	7.63	5.05	4.77	4.10	1.200	4.5	20.1		60	16	1	4	5	6	1	4	1	1	3	
6/4/2018	bad weather																												
6/11/2018	00810	18.52	18.42	18.14	23.67	24.08	24.83	8.44	8.31	7.98	7.45	6.64	5.62	0.8	5.5	16.2		64	29	0	4	5	6	1	4	0	n/a	3	
6/18/2018	00957	20.39	20.28	19.08	21.59	21.65	22.17	8.44	8.34	8.14	32.42	32.52	33.06	1.1	3.3	26.6		72	10	0	2	5	6	1	1	1	5	1	
6/25/2018	00807	19.26	18.86	17.90	24.04	24.44	25.25	8.13	8.03	7.84	6.12	5.20	3.59	1.0	4.8	20.7		240	146	2	4	3	6	1	1	1	1	0	
7/2/2018	00742	23.20	22.62	21.43	23.97	24.37	25.03	8.39	7.98	7.55	7.67	7.27	3.55	1.30	3.7	25.0		70	24	0	2	5	6	0	0	0	n/a	1	
7/9/2018	01004	22.46	20.45	20.44	24.30	25.98	25.98	8.20	8.00	7.91	4.66	3.88	4.51	0.9	5.3	25.4		64	2	0	2	5	6	0	0	1	6	1	
7/16/2018	00803	22.01	21.94	21.73	24.98	25.12	25.61	8.01	7.86	7.23	5.26	4.83	3.23	0.9	3.6	25.5		170	35	1	2	3	6	0	0	0	n/a	1	
7/23/2018	bad weather																												
7/30/2018	quanta needed repair																												
8/6/2018	quanta needed repair																												
8/13/2018	anta need repair																												
8/20/2018	Bad weather																												
8/27/2018	00733	23.70	23.66	22.86	26.22	25.89	24.06	7.45	7.43	7.4	2.7	2.67	2.32	1.6	3.7	22.6		37	<1	0	3	3	6	0	3	0	n/a	2	
9/3/2018	01010	25.70	25.25	24.46	26.25	26.59	26.98	8.49	8.15	7.68	n/a	6.23	1.64	0.2	4.4	28.0		16	34	0	2	2	1	1	0	0	n/a	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	unaccessible																												
10/1/2018	01040	20.95	20.91	20.82	25.71	25.85	26.48	8.72	8.71	8.52	8.86	8.89	7.5	1.1	4.0	22.6		11	4	0	3	1	1	3	1	6	3		
10/8/2018	00757	20.48	20.80	20.97	26.05	26.56	26.63	8.11	8.08	7.91	5.24	5.25	5.27	1.7	4.1	21.5		60	19	1	4	5	6	0	4	0	n/a	3	
10/15/2018	bad weather																												
10/22/2018	00740	12.71	12.72	12.92	25.58	25.65	26.42	8.41	8.38	8.24	8.26	8.29	8.73	1.2	5.7	3.0		18	6	0	4	5	6	1	1	1	6	2	
10/29/2018	bad weather																												
Average		18.2	18.2	17.4	24.3	24.8	25.2	7.8	8.2	8.0	7.2	6.4	5.6	1.2	4.0	19.5		59.5	20.4										
KEY	Missing Data	Bad Data			Significant Data				TOP	1.0 M	BTM		TOP	1.0 M	BTM			Depth					Fecal	Entero					
								pH<8.0	2	4	9		DO<3.0	1	1	2		Secchi<1.0	4				Pathogens>100	2	0				
								Percent	12%	25%	53%		Percent	6.7%	6.7%	12.5%		Percent	24%				Percent	12%	0%				

Friends of the Bay 2018 Water Quality Data - Site 2, Cold Spring Cove North																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity 0.5 m from BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1 m	DO 0.5 m from BTM	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	01020	9.25	9.05	8.32	23.70	23.90	24.75	8.55	8.60	8.54	14.40	15.04	14.57	1.9	5.3	11.6		<1	<1	0.000	2	5	6	1	0	1	3	1	
4/30/2018	00827	14.53	13.19	12.91	23.10	24.70	25.03	8.91	8.66	8.54	11.18	8.09	7.31	1.1	6.4	20.8		9	<1	3.000	3	4	6	2	4	2	1	2	
5/7/2018	01050	14.53	13.19	12.91	23.10	24.70	25.03	8.91	8.66	8.54	11.18	8.09	7.31	1.1	6.4	20.8		<1	<1	1.000	3	1	6	1	3	1	8	3	
5/14/2018	00840	13.61	13.28	11.69	24.79	24.98	25.60	8.47	8.42	8.34	7.47	7.18	7.02	1.6	7.2	12.8		81.0	18.0	2	4	1	6	0	4	0	3		
5/21/2018	00955	15.73	15.63	14.77	23.91	24.31	24.76	8.13	8.12	8.11	5.45	5.44	5.21	1.8	4.9	18.2		41	<1	1	2	3	6	0	1	1	8	1	
5/28/2018	00809	15.20	15.13	13.65	23.75	24.02	25.48	7.99	8.02	7.98	5.03	4.87	4.65	1.1	5.2	21.5		130	100	1	4	5	6	0	4	1	absent	3	
6/4/2018	bad weather																												
6/11/2018	00822	18.44	18.39	18.46	24.29	24.29	25.06	8.45	8.43	8.37	7.37	8.45	7.08	0.9	7.5	16.8		57	26	0	4	5	6	1	4	3	1	1	
6/18/2018	00948	20.35	20.3	18.91	21.31	21.57	22.3	8.56	8.5	8.22	32.51	32.74	33.15	0.9	4.5	26.3		89	5	0	2	5	6	1	1	1	5	2	
6/25/2018	00825	18.4	18.23	17.99	24.91	25.05	25.18	8.08	8.01	7.88	5.17	4.83	4.31	0.8	5.5	21.9				2	4	4	6	1	0	1	1	1	
7/2/2018	00752	22.87	21.69	21.11	23.95	24.40	25.16	8.24	7.97	7.81	6.56	4.97	3.95	1.3	5.8	25.8		150	50	0	2	5	6	0	0	0	n/a	1	
7/9/2018	00956	21.48	20.20	20.18	25.38	26.11	26.11	8.12	8.03	8.01	4.40	3.92	4.38	1.2	6.5	24.2		45	<1	0	2	5	6	0	0	1	n/a	1	
7/16/2018	00816	21.72	21.56	21.65	24.76	25.25	25.67	7.91	7.79	7.60	4.57	3.95	3.43	1.1	5.5	27.7		130	58	1	3	3	6	0	0	0	n/a	1	
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	00745	23.54	23.63	23.82	26.24	26.17	27.17	7.54	7.53	7.48	2.80	2.92	2.28	1.8	5.5	23.5		16	<1	0	3	5	6	0	3	0	n/a	2	
9/3/2018	01001	24.97	24.67	24.39	27.22	27.49	27.69	7.81	7.71	7.72	2.87	2.05	1.54	1.1	5.2	28.2		18	27	0	2	5	1	1	0	0	n/a	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	unaccessible																												
10/1/2018	01030	20.46	20.40	20.82	25.77	25.98	27.41	8.75	8.71	8.54	8.74	8.26	6.80	1.1	5.5	22.3		23	1	0	3	1	1	1	3	1	6	3	
10/8/2018	00807	20.73	20.78	21.05	26.41	26.55	27.34	8.29	8.29	8.29	5.33	5.49	5.56	1.6	6.0	21.0		58	70	1	4	5	6	0	4	0	n/a	3	
10/15/2018	bad weather																												
10/22/2018	00751	12.31	12.76	12.79	25.63	25.92	26.41	8.59	8.58	8.51	8.09	8.29	8.24	1.4	7.0	3.40		29	14	0	4	5	6	1	2	1	6	2	
10/29/2018	bad weather																												
Average		18.3	17.6	17.2	24.7	25.0	25.6	8.3	8.2	8.1	8.8	8.4	7.9	1.3	5.9	19.7		54.8	23.1										
KEY	Missing Data	Bad Data		Significant Data					TOP	1.0 M	BTM			TOP	1.0 M	BTM			Depth				Fecal	Entero					
								pH<8.0	4	4	6			DO<3.0	2	2	2			Secchi<1.0	3		Pathogens>100	2	0				
								Percent	25%	24%	35%			Percent	13.3%	12.5%	12.5%			Percent	18%		Percent	13%	0%				
														DO<4.8	4	4	7												
														Percent	26.7%	25.0%	43.8%												

Friends of the Bay 2018 Water Quality Data - Site 3, Cold Spring Harbor South																														
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP (0.5 m)	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Entero-cocci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather		
4/2/2018	No Monitor - snow																													
4/9/2018	Boat not available																													
4/16/2018	Boat not available																													
4/23/2018	01010	8.80	8.36	7.78	24.63	24.81	25.06	8.58	8.60	8.62	15.76	15.68	13.46	1.6	5.0	11.1		<1	<1	0	2	5	6	1	0	1	3	1	JM	
4/30/2018	00845	10.30	10.31	10.22	24.77	24.84	25.04	8.54	8.53	8.54	7.99	8.03	7.98	1.4	4.9	8.0		4	<1	3	3	4	6	3	3	3	1	2	JM	
5/7/2018	01039	14.05	13.35	12.71	24.46	24.78	25.23	8.76	8.77	8.42	9.78	9.24	6.67	1.3	4.3	19.9		<1	<1	1	2	1	6	1	3	1	8	3	JM	
5/14/2018	00850	13.48	13.23	10.91	25.05	25.19	25.70	8.50	8.49	8.31	7.85	8.02	6.91	2.0	5.7	13.2		5.0	2.0	2	4	1	6	0	4	0	3	3	JM	
5/21/2018	00947	15.52	15.34	13.07	24.73	24.72	25.39	8.20	8.18	8.21	5.58	5.62	5.29	2.1	4.3	17.9		7	<1	1	2	3	6	1	1	1	8	1	JM	
5/28/2018	00815	15.02	14.36	12.72	25.14	25.31	25.71	8.11	8.07	8.05	5.19	5.1	4.63	1.20	4.5	20.5		28	8	1	4	5	absent	absent	4	absent	absent	3		
6/4/2018	bad weather																													
6/11/2018	00834	18.72	18.74	18.02	24.58	24.72	25.18	8.54	8.53	8.31	7.63	7.47	5.73	0.9	6.4	18.0		42	5	0	4	5	6	1	4	0	n/a	3		
6/18/2018	00940	20.33	18.89	17.84	22.00	22.11	22.62	8.40	8.38	8.12	32.46	32.92	33.63	0.8	4.5	26.4		66	2	0	2	5	6	1	1	1	5	2		
6/25/2018	00836	19.00	18.94	18.53	25.50	25.57	25.54	8.34	8.36	8.17	6.64	6.58	5.65	1.1	6.0	21.7		2	1	2	4	4	6	2	1	1	8	1		
7/2/2018	00803	22.44	22.60	21.24	24.93	25.28	25.51	8.40	8.43	8.12	7.25	7.71	5.50	1.5	4.4	26.3		52	9	0	2	5	6	0	0	0	n/a	1		
7/9/2018	00951	21.75	19.88	19.79	25.63	26.17	26.16	8.32	8.08	8.11	5.12	3.60	4.48	1.3	6.3	25.7		18	<1	0	2	5	6	0	0	0	n/a	1		
7/16/2018	00823	21.92	21.86	21.35	25.61	25.61	26.22	8.10	8.03	7.82	5.26	5.03	3.94	1.2	4.1	25.3		56	11	1	3	3	6	0	0	0	n/a	1		
7/23/2018	bad weather																													
7/30/2018	Boat and quanta needed repair																													
8/6/2018	Boat and quanta needed repair																													
8/13/2018	Quanta need repair																													
8/20/2018	Bad weather																													
8/27/2018	00758	23.61	23.70	23.82	26.81	26.81	26.74	7.66	7.66	7.67	3.61	3.58	3.33	1.8	4.5	23.9		3	<1	0	3	1	6	0	3	0	n/a	2		
9/3/2018	00955	25.34	25.35	24.09	27.16	27.45	28.03	8.38	8.32	7.70	7.92	7.47	1.97	0.4	5.3	27.9		21	7	0	2	5	1	1	0	0	n/a	1		
9/10/2018	bad weather																													
9/17/2018	boat repair																													
9/24/2018	unaccessible																													
10/1/2018	01018	20.96	20.78	20.98	26.98	26.91	27.84	8.67	8.64	8.42	8.28	7.86	6.44	1.2	4.8	23.2		8	1	0	3	5	6	1	2	1	6	3		
10/8/2018	00819	20.75	20.90	21.14	26.83	27.05	27.70	8.35	8.33	8.22	6.10	6.18	6.50	2.1	5.1	21.0		14	4	1	4	5	6	0	4	0	n/a	3		
10/15/2018	bad weather																													
10/22/2018	00803	13.31	13.40	13.49	26.99	27.00	27.28	8.78	8.77	8.66	8.40	8.42	8.16	1.5	6.3	4.1		4	2	0	4	5	6	1	2	1	6	2		
10/29/2018	bad weather																													
Average		18.0	17.6	16.9	25.4	25.5	25.9	8.4	8.4	8.2	9.4	9.3	8.1	1.4	5.1	19.7		19.4	3.1											
KEY	Missing Data	Bad Data			Significant Data				TOP	1.0 M	BTM			TOP	1.0 M	BTM			Depth					Fecal	Entero					
								pH<8.0	1	1	3			DO<3.0	0	0	0		Secchi<1.0	3				Pathogens>100	0	0				
								Percent	6%	6%	18%			Percent	0.0%	0.0%	0.0%		Percent	18%				Percent	0%	0%				
														DO<4.8	1	2	5													
														Percent	6.3%	12.5%	31.3%													

Friends of the Bay 2018 Water Quality Data - Site 4, Cold Spring Harbor North																															
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Entero-cocci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather			
4/2/2018	No Monitor - snow																														
4/9/2018	Boat not available																														
4/16/2018	Boat not available																														
4/23/2018	01000	8.99	8.94	7.54	24.71	24.78	25.11	8.57	8.56	8.52	14.82	17.22	17.36	2.2	5.5	10.9		<1	<1	0	2	5	6	1	0	1	3	1			
4/30/2018	no samples																														
5/7/2018	01022	13.92	13.69	11.52	25.15	25.2	25.72	8.76	8.72	8.45	8.82	8.75	7.35	1.9	5.2	18.2		1	<1	1	2	1	6	1	3	1	8	3			
5/14/2018	00900	13.65	13.12	10.54	25.13	25.25	25.82	8.54	8.54	8.4	8.2	8.15	7.79	3	6.6	13.2		<1	<1	2	4	1	6	0	4	0	n/a	3			
5/21/2018	00940	14.98	14.85	12.52	24.99	25.05	25.5	8.29	8.27	8.22	6.13	6.11	5.45	2.5	5.1	17.9		<1	<1	1	2	3	6	1	1	1	8	1			
5/28/2018	00825	16.53	16.21	12.70	24.77	24.97	25.78	8.38	8.35	8.25	6.68	6.28	5.42	1.2	5.4	20.1		6	1	1	4	5	6	1	4	1	n/a	3			
6/4/2018	bad weather																														
6/11/2018	00847	19.14	18.96	16.02	25.08	25.08	25.31	8.67	8.61	8.29	8.26	7.17	5.9	1.1	7.0	16.4		5	<1	0	4	5	6	1	4	1	3	3			
6/18/2018	00929	19.92	19.75	17.17	22.4	22.4	22.8	8.6	8.53	8.16	32.56	32.59	34.03	1.1	4.8	26.0		18	1	0	2	5	6	1	1	1	5	2			
6/25/2018	00847	18.81	18.53	17.42	25.63	25.69	25.95	8.30	8.24	8.07	6.17	5.99	4.39	1.3	6.6	21.8		2	5	2	4	4	6	1	1	1	8	1			
7/2/2018	00812	22.52	23.54	20.12	25.11	25.17	25.75	8.55	8.49	7.95	8.12	7.72	3.92	2.1	5.0	25.1		10	<1	0	2	5	6	0	0	0	n/a	1			
7/9/2018	00943	22.4	18.8	18.68	25.77	26.4	26.51	8.53	8.07	8.10	6.68	3.85	4.23	1.4	6.8	24.5		11	<1	0	2	3	6	1	0	1	7	1			
7/16/2018	00833	22.51	22.57	21.40	26.2	26.13	26.37	8.40	8.45	8.14	6.78	6.72	5.31	1.5	3.7	25.3		5	<1	1	3	3	6	0	0	0	n/a	1			
7/23/2018	bad weather																														
7/30/2018	Boat and quanta needed repair																														
8/6/2018	Boat and quanta needed repair																														
8/13/2018	Quanta need repair																														
8/20/2018	Bad weather																														
8/27/2018	00813	24.2	24.2	24.21	27.33	27.19	26.62	8.06	8.04	7.97	6.13	6.17	5.70	1.8	5.1	24.8		<1	<1	0	4	1	6	0	3	0	n/a	2			
9/3/2018	00945	25.74	25.7	23.87	27.68	27.6	28.25	8.5	8.46	7.79	8.99	8.53	2.59	1.1	5.1	30.0		2	<1	0	2	5	6	1	0	0	n/a	1			
9/10/2018	bad weather																														
9/17/2018	boat repair																														
9/24/2018	unaccessible																														
10/1/2018	01009	20.71	20.70	20.95	27.59	27.19	28.05	8.78	8.77	8.55	9.18	8.99	7.47	1.2	5.2	22.0		<1	4	0	3	5	6	1	2	1	6	2			
10/8/2018	00826	20.73	20.73	20.99	27.33	27.33	27.7	8.5	8.48	8.37	7.2	6.92	6.75	2.3	5.7	21.0		1	1	1	4	5	6	0	4	0	n/a	3			
10/15/2018	bad weather																														
10/22/2018	00812	14.16	14.1	14.05	27.31	27.24	27.31	8.78	8.76	8.7	8.41	8.46	8.61	1.6	6.7	5.30		2	<1	0	4	5	6	1	2	1	6	2			
10/29/2018	bad weather																														
Average		18.7	18.4	16.9	25.8	25.8	26.2	8.5	8.5	8.2	9.6	9.4	8.3	1.7	5.6	20.2		3.9	0.8												
KEY	Missing Data	Bad Data		Significant Data				TOP	1.0 M	BTM				TOP	1.0 M	BTM			Depth			Fecal	Entero								
								pH<8.0	0	0	3			DO<3.0	0	0	1			Secchi<1.0	0		Pathogens>100	0	0						
								Percent	0%	0%	19%			Percent	0.0%	0.0%	6.3%			Percent	0%		Percent	0%	0%						
														DO<4.8	0	1	4														
														Percent	0.0%	6.3%	25.0%														

Friends of the Bay 2018 Water Quality Data - Site 5, Plum Point																														
Date	Time	H2O Temp TOP (0.5m)	H2O temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Entero-cocci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather		
4/2/2018	No Monitor - snow																													
4/9/2018	Boat not available																													
4/16/2018	Boat not available																													
4/23/2018	00952	7.85	7.86	7.76	25.06	25.06	25.06	8.54	8.52	8.50	14.70	14.24	15.85	2.0	10.0	11.3		<1	<1	0	2	5	6	3	0	2	4	1		
4/30/2018	no samples																													
5/7/2018	01040	13.54	13.45	9.62	25.27	25.20	25.84	8.67	8.64	8.49	8.20	8.27	7.65	1.5	10.0	18.1		<1	<1	1	2	1	6	1	3	1	8	3		
5/14/2018	00912	13.12	11.89	11.34	25.25	25.47	25.51	8.53	8.48	8.46	7.94	8.10	7.85	2.9	11.2	13.1		<1	8	2	4	5	6	0	4	0	4	4		
5/21/2018	00933	14.14	14.14	14.10	25.16	25.23	25.22	8.24	8.25	8.24	5.93	6.00	6.03	1.9	10.5	18.8		3	<1	1	2	3	6	1	1	1	8	1		
5/28/2018	00834	16.30	16.30	14.27	25.18	25.18	25.58	8.38	8.35	8.28	6.42	6.37	6.12	1.3	10.5	19.2		2	<1	1	4	5	6	0	4	0	n/a	3		
6/4/2018	bad weather																													
6/11/2018	00856	18.69	18.61	17.40	25.21	25.13	25.36	8.56	8.54	8.45	7.41	7.13	6.60	1.1	10.0	18.7		2	<1	0	4	5	6	1	4	1	3	3		
6/18/2018	00922	19.64	19.38	18.52	22.67	22.73	22.77	8.52	8.40	8.41	32.64	32.73	33.34	1.1	8.4	25.3		2	<1	0	2	5	6	1	1	1	5	2		
6/25/2018	00856	18.55	18.37	17.98	25.69	25.68	25.69	8.28	8.26	8.21	6.11	5.92	5.63	0.8	10.0	21.4		<1	<1	2	4	4	6	2	1	1	1	1		
7/2/2018	00820	22.95	22.69	19.37	25.50	25.64	26.07	8.37	8.36	8.20	6.82	6.67	8.18	1.4	10.0	24.8		3	<1	0	2	5	6	0	0	0	n/a	1		
7/9/2018	00933	20.50	20.46	19.85	26.12	26.19	26.23	8.33	8.31	8.27	5.62	5.53	5.62	1.5		25.8		74	3	0	2	3	6	0	0	1	6	1		
7/16/2018	00843	22.51	22.50	21.91	26.20	26.20	26.32	8.30	8.27	8.18	5.79	5.85	5.77	1.3		25.2		7	<1	1	3	3	6	0	0	0	n/a	1		
7/23/2018	bad weather																													
7/30/2018	Boat and quanta needed repair																													
8/6/2018	Boat and quanta needed repair																													
8/13/2018	Quanta need repair																													
8/20/2018	Bad weather																													
8/27/2018	00823	24.33	24.33	24.33	27.48	27.48	27.62	8.01	8.01	8.03	5.94	6.04	6.03	1.3	10.0	25.2		6	<1	0	4	1	6	0	4	0	n/a	3		
9/3/2018	00938	25.42	25.30	24.90	27.88	27.30	27.93	8.24	8.17	8.01	6.84	6.33	5.23	1.4	9.5	26.8		1	50	0	2	5	6	0	0	0	n/a	1		
9/10/2018	bad weather																													
9/17/2018	boat repair																													
9/24/2018	00731	21.97	21.97	21.97	27.52	27.24	27.81	8.09	8.06	7.97	6.40	6.48	6.38	1.2	10.0	15.6		2	<1	1	4	1	6	2	3	2	2	2		
10/1/2018	01002	20.75	20.76	20.81	27.62	27.55	27.76	8.61	8.59	8.53	8.34	8.31	8.05	1.3	10.5	22.3		1	<1	0	3	5	6	2	2	1	6	2		
10/8/2018	00835	20.99	20.98	20.88	27.63	27.63	27.69	8.45	8.43	8.34	6.66	6.60	6.22	2.10	10.0	21.2		2	<1	1	4	5	6	1	4	1	4	3		
10/15/2018	bad weather																													
10/22/2018	00823	15.26	15.25	15.08	27.79	27.72	27.72	8.69	8.66	8.61	7.63	7.58	7.72	1.8	10.0	6.2		<1	<1	0	4	5	6	1	2	1	6	2		
10/29/2018	bad weather																													
Average		18.6	18.5	17.7	26.1	26.0	26.2	8.4	8.4	8.3	8.8	8.7	8.7	1.5	8.9	19.9		6.2	3.6											
KEY	Missing Data	Bad Data	Significant Data																											
								pH<8.0	TOP	1.0 M	BTM			TOP	1.0 M	BTM			Depth				Fecal	Entero						
								0	0	0	1			0	0	0			1				0	0						
								Percent	0%	0%	6%			Percent	0.0%	0.0%	0.0%			Percent	6%		Percent	0%	0%					

Friends of the Bay 2018 Water Quality Data - Site 7, Oyster Bay Cove																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	00928	8.47	8.38	8.33	24.82	24.82	24.88	8.57	8.59	8.58	12.98	11.52	11.32	1.7	2.8	11.6		3	<1	0	1	5	6	0	0	1	2	1	
4/30/2018	00945	10.57	10.57	10.57	24.58	24.51	24.51	8.45	8.41	8.42	7.16	7.17	7.19	0.5	2.0	9.6		14	<1	3	4	4	6	3	3	3	8	3	
5/7/2018	00940	14.03	13.97	13.61	24.94	23.01	25.20	8.60	8.57	8.55	7.72	7.48	7.42	1.5	2.10	16.8		<1	<1	1	2	1	6	1	3	1	8	3	
5/14/2018	00935	13.98	14.00	13.53	25.08	25.02	25.20	8.49	8.48	8.49	7.36	7.59	7.64	2.2	2.8	13.3		8	3	2	4	5	6	0	4	0	3		
5/21/2018	00911	16.04	n/a	n/a	24.75	n/a	n/a	8.10	n/a	n/a	5.56	n/a	n/a	1.3	1.3	17.6		17	4	1	2	3	6	1	0	1	8	1	
5/28/2018	00852	17.13	16.83	16.05	24.93	25.06	25.16	8.38	8.32	8.17	6.38	5.97	5.35	1.3	2.1	22.3		10	3	1	4	5	6	0	4	0	n/a	3	
6/4/2018	bad weather																												
6/11/2018	00921	19.1	19.09	19.02	24.94	25.01	25.15	8.42	8.43	8.36	6.69	6.49	5.85	0.9	3.1	21.7		20	1	0	4	5	6	0	4	1	2	2	
6/18/2018	00902	20.27	19.68	n/a	22.49	22.67	n/a	8.27	8.28	n/a	32.22	32.60	n/a	1.0	1.6	26.3		40	1	0	2	5	6	1	1	1	6	2	
6/25/2018	00920	19.94	19.86	19.81	25.47	25.46	25.53	8.21	8.23	8.2	5.66	5.73	5.19	1.1	4.9	21.7		3	<1	2	4	4	6	2	1	1	1	1	
7/2/2018	00842	23.02	22.63	22.36	25.37	25.57	25.55	8.21	8.19	8.09	5.84	5.82	5.23	0.9	2.0	25.5				0	2	5	6	0	0	0	n/a	1	
7/9/2018	00913	22.03	21.79	21.70	25.90	25.89	25.88	8.33	8.27	8.17	5.94	5.72	5.57	1.1	2.8	24.8		<1	<1	0	1	3	6	0	0	1	6	1	
7/16/2018	00908	23.36	n/a	n/a	26.01	n/a	n/a	8.08	n/a	n/a	5.33	n/a	n/a	1.2	0.9	25.4		61	12	1	3	3	6	0	0	0	n/a	1	
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	00850	24.28	24.34	n/a	27.12	27.19	n/a	7.80	7.81	n/a	4.91	5.13	n/a	1.8	1.9	25.8		28	<1	0	4	1	6	0	4	0	n/a	3	
9/3/2018	00908	25.55	25.39	25.26	27.60	27.73	27.01	8.18	8.13	8.01	6.99	6.39	5.52	1.2	2.6	26.7		10	<1	0	2	5	6	0	0	0	n/a	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	00754	21.40	21.43	21.45	27.29	27.29	27.01	8.17	8.13	7.78	6.22	6.24	6.51	0.90	2.4	15.4		5	<1	1	4	2	6	2	3	1	2	3	
10/1/2018	00942	20.60	20.69	n/a	27.11	26.26	n/a	8.54	8.38	n/a	8.47	8.38	n/a	1.20	1.9	22.1		12	<1	0	2	4	6	1	1	1	6	2	
10/8/2018	00859	20.83	20.77	20.81	27.40	27.33	27.12	8.38	8.37	8.31	6.38	6.32	6.72	1.80	2.7	21.6		47	10	1	4	5	6	1	4	1	4	3	
10/15/2018	bad weather																												
10/22/2018	00845	11.48	11.86	12.50	26.55	26.71	27.09	8.77	8.73	8.60	8.55	8.37	8.35	1.40	3.4	5.9		24	8	0	4	5	6	1	2	1	6	2	
10/29/2018	bad weather																												
Average		18.4	18.2	17.3	25.7	25.6	25.8	8.3	8.3	8.3	8.8	9.1	6.8	1.3	2.4	19.7		17.8	2.5										
KEY	Missing Data	Bad Data			Significant Data																								
								pH<8.0	TOP	1.0 M	BTM			DO<3.0	TOP	1.0 M	BTM		Secchi<1.0	Depth				Fecal	Enterococci				
								0	0	1	1		0	0	0	0			4	4			0	0					
								Percent	0%	6%	8%		Percent	0.0%	0.0%	0.0%			Percent	22%			Percent	0%	0%				

Friends of the Bay 2018 Water Quality Data - Site 8, Oyster Bay STP at White's Creek																														
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1 m	BTM DO	Secchi	Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather		
4/2/2018	No Monitor - snow																													
4/9/2018	Boat not available																													
4/16/2018	Boat not available																													
4/23/2018	00911	8.17	8.08	8.03	24.8	24.94	24.94	8.57	8.55	8.54	15.47	11.43	10.76	1.7	2.7	11.1		<1	<1	0	1	5	6	1	0	1	2	1		
4/30/2018	no samples																													
5/7/2018	00926	14.18	13.99	13.92	25.16	25.15	25.14	8.64	8.62	8.62	7.99	7.96	7.81	1.30	1.9	18.9		1	<1	0	2	1	6	0	3	1	8	2		
5/14/2018	00951	13.84	13.82	13.52	25.14	25.14	25.13	8.48	8.49	8.46	7.44	7.43	7.42	2.00	3.4	13.3		2	2	2	4	5	6	0	4	0	0	3		
5/21/2018	00859	14.73	14.46		25.04	25.04		8.22	8.19		5.84	5.80		1.90	1.6	18.0		6	1	1	2	3	5	1	0	1	8	1		
5/28/2018	00902	17.04	16.91	16.30	25.14	24.99	25.11	8.39	8.37	8.34	6.46	6.31	6.19	1.10	2.2	22.8		5	1	1	4	5	6	0	4	0	n/a	3		
6/4/2018	bad weather																													
6/11/2018	00933	19.21	19.13	19	25.02	25.08	25.08	8.48	8.48	8.38	6.99	6.73	6.36	1	3.7	20.8		1	1	0	4	5	6	1	4	1	2	3		
6/18/2018	00850	19.57	19.24	n/a	22.67	22.66	n/a	8.40	8.41	n/a	32.71	32.73	n/a	1.10	1.5	26.1		10	2	0	2	5	6	1	1	1	5	2		
6/25/2018	00935	19.88	19.84	19.7	25.39	25.46	25.46	8.24	8.24	8.23	5.7	5.72	5.53	0.9	3.6	21.9		9	<1	2	4	4	6	3	1	1	1	1		
7/2/2018	00853	23.07	22.72		25.30	25.43		8.20	8.09		6.03	5.75		1.00	1.6	26.6		36	<1	0	2	5	6	absent	0	1	8	1		
7/9/2018	00901	21.82	21.32	21.33	25.82	26.01	26.08	8.29	8.19	8.15	5.70	5.06	5.05	1.00	3.4	23.8		16	2	0	1	5	6	0	0	1	6	1		
7/16/2018	00918	22.60	22.51		26.20	26.20		8.12	8.00		5.37	5.49		1.20	1.1	28.1		8	3	1	3	3	n/a	0	0	0	n/a	1		
7/23/2018	bad weather																													
7/30/2018	Boat and quanta needed repair																													
8/6/2018	Boat and quanta needed repair																													
8/13/2018	Quanta need repair																													
8/20/2018	Bad weather																													
8/27/2018	00902	24.39	24.39	24.39	27.41	27.41	27.55	8.00	7.99	7.93	6.09	6.23	6.02	1.10	2.1	25.3		6	<1	0	4	1	6	0	4	0	n/a	3		
9/3/2018	00858	25.16	25.11	25.07	27.65	27.80	26.70	8.02	7.96	7.85	5.70	5.22	4.72	1.50	2.2	27.6		8	8	0	2	5	6	0	0	0	n/a	1		
9/10/2018	bad weather																													
9/17/2018	boat repair																													
9/24/2018	00805	21.58	21.60	21.60	27.58	27.51	27.44	8.21	8.18	8.17	6.2	6.20	6.20	1.30	2.5	16.1		4	<1	1	4	3	6	1	3	2	2	3		
10/1/2018	00930	20.75	20.74	n/a	27.40	26.84	n/a	8.47	8.17	n/a	8.22	8.27	n/a	1.40	1.7	22.1		7	1	0	2	4	6	1	2	1	6	2		
10/8/2018	00909	20.86	20.88	20.90	27.41	27.41	26.84	8.44	8.44	8.4	6.77	6.85	6.84	1.90	2.9	21.6		15	2	1	4	5	6	1	4	1	4	3		
10/15/2018	bad weather																													
10/22/2018	00855	13.46	13.45	13.38	27.07	27.07	27.28	8.76	8.73	8.64	8.25	8.27	8.23	2.90	3.8	5.6		5	3	0	4	5	6	1	2	1	6	2		
10/29/2018	bad weather																													
Average		18.8	18.7	18.1	25.9	25.9	26.1	8.3	8.3	8.3	9.2	8.8	6.8	1.4	2.5	20.6		8.2	1.5											
KEY	Missing Data	Bad Data	Significant Data					pH<8.0	TOP	1.0 M	BTM			DO<3.0	TOP	1.0 M	BTM			Depth			Fecal	Entero						
								Percent	0	2	2			Percent	0.0%	0.0%	0.0%			Secchi<1.0	4		Pathogens>100	0	0					
								Percent	0%	12%	17%			Percent	0.0%	0.0%	0.0%			Percent	24%		Percent	0%	0%					

Friends of the Bay 2018 Water Quality Data - Site 10, Beekman Beach																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	00805	8.15	8.13	8.12	24.87	24.94	25.01	8.58	8.58	8.54	12.23	12.46	12.90	2.0	5.3	10.3		<1	<1	0	1	5	6	1	0	1	2	1	
4/30/2018	01020	11.05	11.00	10.94	29.95	25.15	25.22	8.51	8.51	8.41	7.56	7.40	6.87	1.3	5.6	9.2		1	<1	3	4	4	6	2	4	2	8	3	
5/7/2018	00855	14.38	14.36	13.60	25.17	25.10	25.20	8.63	8.60	8.53	7.94	7.58	7.10	1.3	5.0	16.6		1	<1	1	2	3	6	0	3	1	8	3	
5/14/2018	01009	14.62	14.25	13.73	25.11	25.16	25.21	8.42	8.42	8.48	6.91	7.00	6.14	1.6	6.2	14.8		3	4	2	4	5	0	4	0	0	3		
5/21/2018	00821	14.83	14.83	14.33	24.77	24.98	25.03	8.21	8.20	8.20	5.58	5.82	5.48	1.9	4.7	15.9		17	2	1	2	3	6	1	0	1	8	1	
5/28/2018	00934	17.97	15.22	16.33	24.76	24.89	25.04	8.4	8.35	8.17	6.82	6.00	4.89	1.1	5.4	24.1		15	<1	1	4	5	6	0	4	1	8	3	
6/4/2018	bad weather																												
6/11/2018	01020	19.48	19.42	19.02	25.03	25.02	25.08	8.45	8.48	8.37	6.85	6.75	6.05	0.8	6.1	20.5		4	<1	0	4	5	6	1	4	1	2	3	
6/18/2018	00832	20.18	20.19	19.79	22.41	22.55	22.33	8.48	8.42	8.37	32.30	32.30	32.57	1.1	3.3	24.2		15	3	0	2	5	6	absent	1	1	6	2	
6/25/2018	01015	21.24	21.20	19.70	25.16	25.16	25.45	8.26	8.23	8.17	5.73	5.53	5.00	0.9	6.0	22.9		7	<1	2	1	4	6	3	2	1	1	1	
7/2/2018	00925	24.21	24.05	23.23	25.20	25.40	25.38	8.37	8.38	8.19	6.61	6.89	5.92	1.0	3.9	28.0		22	3	0	3	5	6	1	0	1	8	1	
7/9/2018	00846	22.57	21.53	21.53	25.71	26.02	25.95	8.31	8.20	8.09	5.92	5.26	5.33	1.0	6.0	23.6		17	1	0	1	3	6	1	0	1	6	1	
7/16/2018	00950	24.25	23.81	23.41	25.83	25.96	26.02	8.36	8.36	8.28	6.39	6.32	5.93	1.3	3.8	27.3		11	9	1	4	3	6	1	0	1	8	1	
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	00937	24.70	24.55	24.37	27.06	27.27	26.55	8.10	8.03	7.86	6.95	6.24	5.20	1.9	4.6	29.9		110	<1	0	4	5	6	4	4	0	n/a	3	
9/3/2018	00839	25.26	25.19	25.05	27.66	27.73	27.79	7.99	8.00	7.88	5.42	5.45	2.96	1.5	5.4	26.4		70	22	0	2	5	1	0	0	0	n/a	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	00825	21.62	21.62	21.40	26.87	27.08	26.57	8.24	8.14	8.13	6.31	8.21	5.88	1.2	5.3	16.1		28	12	1	4	3	6	1	3	2	2	2	
10/1/2018	00842	20.69	20.65	20.70	27.33	27.12	27.54	8.53	8.49	8.39	8.36	8.14	8.15	1.4	4.7	20.5		10	<1	0	2	3	6	1	3	1	6	2	
10/8/2018	00948	20.80	20.83	20.89	27.26	27.34	27.41	8.42	8.41	8.3	6.56	6.53	5.70	2.1	5.2	22.3		130	90	1	4	5	6	1	4	1	6	3	
10/15/2018	bad weather																												
10/22/2018	00935	13.62	13.64	13.63	26.87	26.94	27.22	8.76	8.74	8.61	8.29	8.29	8.18	2.6	6.4	7.1		1	<1	0	4	5	6	1	2	1	6	2	
10/29/2018	bad weather																												
Average		18.9	18.6	18.3	25.9	25.8	25.8	8.4	8.4	8.3	9.0	9.0	8.3	1.4	5.2	20.0		25.7	8.1										
KEY	Missing Data	Bad Data			Significant Data				TOP	1.0 M	BTM			TOP	1.0 M	BTM			Depth				Fecal	Enterococci					
								pH<8.0	1	0	2			DO<3.0	0	0	1			Secchi<1.0	0		Pathogens>100	2	0				
								Percent	6%	0%	11%			Percent	0.0%	0.0%	5.9%			Percent	0%		Percent	11%	0%				
														DO<4.8	0	0	0												
														Percent	0.0%	0.0%	0.0%												

Friends of the Bay 2018 Water Quality Data - Site 11, West Harbor																														
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather		
4/2/2018	No Monitor - snow																													
4/9/2018	Boat not available																													
4/16/2018	Boat not available																													
4/23/2018	00841	9.50	8.73	8.22	24.67	24.91	25.01	8.60	8.60	8.57	6.81	6.87	7.18	1.9	3.6	9.5		1	<1	0	1	5	6	1	0	1	2	1		
4/30/2018	no samples																													
5/7/2018	00841	14.51	14.49	14.12	25.17	25.17	25.23	8.64	8.62	8.59	7.80	7.81	7.49	1.1	3.0	16.2		<1	<1	1	2	4	6	0	3	1	8	3		
5/14/2018	01020	13.79	13.42	13.28	25.21	25.27	25.33	8.49	8.50	8.46	7.52	7.54	7.51	2.2	4.2	14.2		<1	1	2	4	5	6	0	4	0	8	3		
5/21/2018	00812	16.11	15.82	14.32	24.75	24.88	25.16	8.21	8.20	8.21	6.03	6.01	5.68	1.7	3.0	16.2		<1	<1	1	2	3	6	1	0	1	8	1		
5/28/2018	00942	18.00	17.34	17.23	24.90	25.02	25.01	8.4	8.31	8.32	6.41	5.91	5.61	1.1	3.4	25.5		8	1	1	4	5	6	2	4	1	8	3		
6/4/2018	bad weather																													
6/11/2018	01031	19.5	19.49	18.91	25.1	25.1	25.21	8.5	8.5	8.45	7.15	7.08	6.64	0.9	4.3	absent		1	1	0	4	5	6	1	4	2	1	3		
6/18/2018	00824	20.03	21.74	20.96	22.61	22.54	22.50	8.45	8.41	8.34	31.18	31.20	31.81	0.9	2.5	24.3		2	1	0	2	5	6	1	1	1	6	2		
6/25/2018	01027	20.08	19.93	18.96	25.48	25.47	25.57	8.25	8.22	8.16	5.76	5.72	5.39	1.1	4.3	23.6		5	<1	2	1	4	6	3	1	1	1	1		
7/2/2018	00940	25.44	23.65	22.89	25.31	25.59	25.44	8.43	8.25	8.13	7.25	6.20	5.73	1.2	2.3	25.4		<1	<1	0	3	5	6	1	0	1	8	1		
7/9/2018	00835	21.94	21.46	21.44	25.96	26.02	25.87	8.32	8.23	8.20	6.08	5.36	5.22	1.1	4.3	24.0		8	1	0	1	3	6	1	0	1	6	1		
7/16/2018	01000	23.73	23.61	23.23	26.03	26.02	26.08	8.35	8.34	8.28	6.26	6.13	5.99	1.3	2.2	27.3		14	2	1	4	3	6	1	0	1	8	1		
7/23/2018	bad weather																													
7/30/2018	Boat and quanta needed repair																													
8/6/2018	Boat and quanta needed repair																													
8/13/2018	Quanta need repair																													
8/20/2018	Bad weather																													
8/27/2018	00952	24.76	24.78	24.67	27.50	26.14	24.37	8.05	8.02	7.95	6.19	6.17	5.94	1.8	3.3	25.8		2	<1	0	4	5	6	0	4	0	n/a	3		
9/3/2018	00830	25.99	25.99	25.09	27.47	27.33	27.01	8.20	8.18	7.95	6.80	6.63	4.44	1.2	3.4	27.5		2	<1	0	2	5	6	0	0	0	n/a	1		
9/10/2018	bad weather																													
9/17/2018	boat repair																													
9/24/2018	00838	21.30	21.29	21.28	27.43	27.21	27.5	8.33	8.31	8.26	6.72	6.71	6.74	1.2	3.4	15.2		1	<1	1	4	3	6	2	2	2	2	2		
10/1/2018	00830	20.07	20.07	20.07	27.23	26.60	25.96	8.64	8.61	8.54	8.33	8.16	8.05	1.0	2.7	19.8		<1	4	0	2	3	6	1	4	1	6	3		
10/8/2018	00956	20.85	20.85	20.81	27.26	27.26	27.33	8.41	8.39	8.3	6.31	6.31	5.73	1.9	3.4	22.0		9	<1	1	4	5	6	1	4	1	5	3		
10/15/2018	bad weather																													
10/22/2018	00946	13.50	13.52	13.53	27.28	27.15	27.28	8.79	8.78	8.72	8.32	8.34	8.27	3.0	4.7	7.3		2	1	0	4	5	6	1	2	1	6	2		
10/29/2018	bad weather																													
Average		19.4	19.2	18.8	25.8	25.7	25.6	8.4	8.4	8.3	8.8	8.6	8.3	1.4	3.4	20.2		3.2	0.7											
KEY	Missing Data	Bad Data			Significant Data																									
									TOP	1.0 M	BTM			TOP	1.0 M	BTM		Secchi<1.0	Depth				Fecal	Enterococci						
								pH<8.0	0	0	2			DO<3.0	0	0	0		Secchi<1.0	2			Pathogens>100	0	0					
								Percent	0%	0%	12%			Percent	0.0%	0.0%	0.0%		Percent	12%			Percent	0%	0%					

Friends of the Bay 2018 Water Quality Data - Site 12, Turtle Cove																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	00833	11.44	11.35	9.48	24.83	24.83	24.80	8.49	8.49	8.52	6.98	6.78	7.03	1.9	3.0	9.8		<1	<1	0	1	5	6	1	0	1	2	1	
4/30/2018	01035	11.11	11.11	11.09	25.22	25.23	25.22	8.51	8.50	8.50	7.50	7.51	7.50	1.2	2.9	8.3		<1	<1	0	4	4	6	2	4	3	8	3	
5/7/2018	00831	14.54	14.24	13.97	25.18	25.16	25.22	8.42	8.33	8.44	6.07	6.32	6.44	0.9	2.3	14.7		<1	1	1	2	1	6	0	3	1	8	2	
5/14/2018	01028	14.69	14.65	14.60	25.25	25.18	25.25	8.25	8.23	8.17	5.93	6.19	6.12	2.1	3.5	15.2		4	1	2	4	5		0	4	0	3		
5/21/2018	00805	16.45	16.41	16.26	24.84	24.91	24.97	8.11	8.09	8.01	5.36	5.24	4.76	1.2	2.4	16.8		<1	2	1	2	3	6	0	0	1	8	1	
5/28/2018	00949	18.44	18.30	18.20	24.85	24.91	24.91	8.22	8.22	8.12	5.66	5.60	4.95	1.2	2.8	24.0		2	<1	1	4	5	6	0	2	0	n/a	2	
6/4/2018	bad weather																												
6/11/2018	01044	20.25	20.09	19.75	25.05	25.05	25.04	8.52	8.44	8.26	7.1	6.56	5.68	0.9	3.5	18.2		1	<1	0	4	5	6	1	4	2	1	3	
6/18/2018	00814	23.61	23.61	23.58	22.66	22.66	22.59	8.33	8.30	8.22	30.28	30.32	30.30	1.2	1.6	24.4		6	<1										
6/25/2018	01036	21.4	21.31	20.76	25.31	25.31	25.36	8.2	8.2	8.14	5.72	5.55	5.29	1	3.5	23.7		1	<1	2	1	4	6	3	2	2	1	1	
7/2/2018	00945	23.27	23.30		25.58	25.31		8.04	7.90		4.99	3.67		0.8	1.5	25.8		15	<1	0	3	5	6	1	0	1	8	1	
7/9/2018	00828	24.67	24.51	24.37	25.78	25.77	25.69	8.19	8.16	8.16	5.13	5.10	5.23	0.8	3.3	24.1		16	3	0	4	3	6	0	0	1	6	1	
7/16/2018	01006	24.47	23.94		26.02	26.04		8.06	8.05		4.62	4.09		1.0	1.5	27.8		10	1	1	4	3	6	0	0	0	n/a	1	
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	01000	25.37	27.34	25.08	27.26	27.16	25.09	8.05	8.03	7.92	5.84	5.87	5.43	1.3	2.7	26.6		<1	<1	0	4	5	6	0	4	0	n/a	3	
9/3/2018	00823	27.11	27.08	26.60	27.44	27.44	26.21	8.21	8.20	8.04	6.76	6.80	5.71	1.0	2.8	27.5		4	5	0	2	5	6	0	0	1	1	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	00850	20.90	20.89	20.80	27.34	27.2	27.4	8.32	8.32	8.22	5.58	5.27	5.29	1.7	2.8	15.5		4	<1	1	4	3	6	1	3	1	2	3	
10/1/2018	00817	19.94	19.93	19.93	26.80	26.8	25.96	8.56	8.52	8.43	7.86	7.93	8.04	0.9	2.2	19.5		3	<1	0	2	3	6	1	4	1	6	3	
10/8/2018	01002	20.65	20.67	20.57	27.19	27.19	26.97	8.24	8.24	8.15	4.38	4.88	4.84	1.3	3.4	22.4		8	6	1	4	5	6	1	4	1	5	3	
10/15/2018	bad weather																												
10/22/2018	01053	12.78	12.80	12.50	26.97	26.97	26.82	8.82	8.82	8.76	8.57	8.63	8.56	2.4	3.9	8.8		3	<1	0	4	5	6	1	2	1	6	2	
10/29/2018	bad weather																												
Average		19.5	19.5	18.6	25.8	25.7	25.5	8.3	8.3	8.3	7.9	7.8	8.1	1.3	2.8	19.6		4.3	1.1										
KEY	Missing Data		Bad Data		Significant Data																								
									TOP	1.0 M	BTM			TOP	1.0 M	BTM			Depth				Fecal	Entero					
								pH<8.0	0	1	1		DO<3.0	0	0	0		Secchi<1.0	5			Pathogens>100	0	0					
								Percent	0%	6%	6%		Percent	0.0%	0.0%	0.0%		Percent	28%			Percent	0%	0%					

Friends of the Bay 2018 Water Quality Data - Site 13, Mill Neck Creek East																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	00726	9.39	9.31	9.29	24.73	24.73	24.73	8.50	8.50	8.50	8.60	8.28	7.96	1.5	2.1	10.2		<1	<1	0	1	5	6	0	0	1	2	1	
4/30/2018	01049	11.08		11.07	25.09		25.09	8.50		8.51	7.81		7.86	1.0	1.5	8.3		<1	<1	0	4	4	6	1	4	1	8	3	
5/7/2018	00739	15.01	14.99	14.96	24.85	24.99	25.05	8.49	8.49	8.46	7.13	7.11	7.02	1.2	3.4	15.2		24	<1	1,000	2	1	6	0	4	1	2	3	
5/14/2018	01046	14.78	14.74	14.73	24.98	24.97	25.04	8.29	8.31	8.31	6.51	6.49	6.59	1.4	2.1	15.3		9	4	2	4	5	6	0	4	0	3		
5/21/2018	00722	15.50	15.41	15.40	24.72	24.73	24.59	7.92	8.05	8.04	5.06	5.26	5.32	0.9	2.2	17.9		22	6	1	2	5	6	0	0	0	8	1	
5/28/2018	01004	18.11	24.63		24.63	24.69		8.28	8.27		5.97	5.93		0.9	1.5	23.3		20	<1	1	4	5	6	1	4	1	8	3	
6/4/2018	bad weather																												
6/11/2018	01059	19.82	19.77	19.73	24.90	24.97	24.97	8.33	8.33	8.31	6.12	6.09	6.09	0.8	1.9	19.2		21	4	0	4	5	6	0	4	2	1	3	
6/18/2018	00722	21.88	N/A	N/A	22.46	N/A	N/A	7.74	N/A	N/A	5.31	N/A	N/A	0.8	0.8	23.5		18	6	0	2	5	6	1	1	1	6	1	
6/25/2018	01050	20.95	20.87		25.22	25.29		8.17	8.16		4.92	5.27		1.2	2.0	23.7		7	<1	2	1	4	6	1	2	1	1	1	
7/2/2018	01002	25.65			24.68			7.91			5.33			0.9	1.3	26.8		9	<1	0	3	5	6	0	0	0	n/a	1	
7/9/2018	00725	23.51	23.50		25.60	25.53		8.29	8.19		5.97	5.9		0.9	2.0	23.8		5	1	0	4	3	6	1	0	0	n/a	1	
7/16/2018	01020	24.39	24.25		24.49	25.48		7.92	7.87		4.59	4.61		1.3	1.5	27.7		80	24	1	4	5	6	0	0	0	n/a	1	
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	01022	24.93	24.94	24.83	27.02	27.22	23.96	7.98	7.97	7.96	5.90	5.82	5.86	1.8	3.40	26.3		10	<1	0	4	5	6	0	4	0	n/a	3	
9/3/2018	00730	26.06	26.07	25.95	27.26	27.19	26.97	7.77	7.66	7.19	5.56	5.59	5.57	1.2	2.00	25.9		4	<1	0	2	5	6	0	0	0	n/a	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	00922	20.63	20.78	20.85	27.19	27.19	27.05	8.32	8.30	8.24	6.25	6.33	6.31	1.0	3.7	16.2		14	6	1	4	3	6	1	4	2	2	3	
10/1/2018	00737	19.94	n/a	n/a	26.87	n/a	n/a	7.68	n/a	n/a	7.35	n/a	n/a	0.9	1.1	18.6		70	3	0	2	3	6	0	4	0	n/a	3	
10/8/2018	01032	20.79	20.78	n/a	27.12	27.12	n/a	8.33	8.23	n/a	5.76	6.03	n/a	1.4	2.3	22.2		34	8	1	4	5	6	1	4	1	6	3	
10/15/2018	bad weather																												
10/22/2018	01013	12.89	12.90	12.85	27.11	26.90	27.11	8.76	8.74	8.63	8.20	8.23	8.29	2.2	2.2	8.2		14	2	0	4	5	6	1	2	2	6	2	
10/29/2018	bad weather																												
Average		19.2	19.5	17.0	25.5	25.8	25.5	8.2	8.2	8.2	6.2	6.2	6.7	1.2	2.1	19.6		20.1	3.6										
KEY	Missing Data	Bad Data			Significant Data				TOP	1.0 M	BTM		TOP	1.0 M	BTM		Depth					Fecal	Enterococci						
								pH<8.0	7	3	2		DO<3.0	0	0	0		Secchi<1.0	7			Pathogens≥100	0	0					
								Percent	38.9%	21.4%	20.0%		Percent	0.0%	0.0%	0.0%		Percent	38.9%			Percent	0.0%	0.0%					
													DO<4.8	1	1	0													
													Percent	5.6%	7.1%	0.0%													

Friends of the Bay 2018 Water Quality Data - Site 14, Mill Neck Creek West																												
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather
4/2/2018	No Monitor - snow																											
4/9/2018	Boat not available																											
4/16/2018	Boat not available																											
4/23/2018	00735	9.70	9.85	9.33	24.27	24.41	24.73	8.51	8.53	8.53	7.44	8.84	8.58	1.7	2.9	9.2		2	<1	0	1	5	6	0	0	1	2	1
4/30/2018	no samples																											
5/7/2018	00750	15.20	14.98	15.09	24.55	24.64	24.99	8.48	8.48	8.53	7.15	7.10	7.07	1.1	2.4	15.1		132	55	1	2	1	6	0	4	1	2	3
5/14/2018	01051	14.96	14.79	14.73	24.85	24.98	24.97	8.28	8.31	8.25	6.48	6.51	6.47	1.2	3.1	15.5		26	7	2	4	5	6	0	4	1	4	3
5/21/2018	00731	16.72	16.70	15.48	23.88	23.88	24.73	8.02	8.02	8.06	5.29	5.32	5.38	1.5	2.8	16.5		20	5	1	2	5	6	0	0	0		1
5/28/2018	01010	18.23	18.24	18.11	24.7	24.7	24.63	8.31	8.29	8.26	6.05	6.02	5.85	0.8	2.9	24.2		33	3	1	4	5	6	0	4	1	8	2
6/4/2018	bad weather																											
6/11/2018	01104	20.13	20.07	19.81	24.84	24.84	24.97	8.38	8.39	8.31	6.62	6.55	6	0.9	3.3	19.3		34	1	0	4	5	6	1	4	2	1	3
6/18/2018	00733	22.07	N/A	N/A	22.19	N/A	N/A	7.59	N/A	N/A	31.80	N/A	N/A	1.0	0.8	23.5		79	44	0	2	5	6	1	1	1	6	2
6/25/2018	01101	22.00	20.87	20.66	24.98	25.23	27.28	8.16	8.20	8.17	5.28	5.37	5.23	1.0	3.1	25.3		25	1	2	1	4	6	2	2	1	1	1
7/2/2018	01006	25.75			24.55			7.82			4.00			1.1	1.3	26.3		27	1	0	3	5	6	absent	0	absent	absent	1
7/9/2018	00733	23.53	23.51	23.52	25.53	25.53	25.53	8.21	8.22	8.18	5.85	5.84	5.65	1.1	2.1	22.3		11	2	0	4	3	absent	0	0	0	n/a	1
7/16/2018	01025	24.85	24.78		25.00	25.13		7.64	7.63		3.21	3.58		0.9	1.4	27.1		210	74	1	4	3	6	0	0	0	n/a	1
7/23/2018	bad weather																											
7/30/2018	Boat and quanta needed repair																											
8/6/2018	Boat and quanta needed repair																											
8/13/2018	Quanta need repair																											
8/20/2018	Bad weather																											
8/27/2018	01032	24.88	24.84	24.85	27.00	27.28	24.31	7.98	7.98	7.96	5.70	5.73	5.74	1.5	2.7	27.5		13	<1	0	4	5	6	0	4	0	n/a	3
9/3/2018	00740	26.28	26.29	26.09	26.98	27.13	24.14	7.81	7.81	7.84	4.97	4.90	5.02	1.1	2.7	26.5		110	80	0	2	5	6	0	0	0	n/a	1
9/10/2018	bad weather																											
9/17/2018	boat repair																											
9/24/2018	00930	20.78	20.78	20.81	27.19	26.98	27.12	8.32	8.31	8.29	6.38	6.38	6.33	1.0	3.2	15.9		13	2	1	4	3	6	2	4	3	2	3
10/1/2018	00744	19.70	19.82	n/a	25.88	25.95	n/a	8.18	7.98	n/a	7.04	7.02	n/a	1.0	1.7	18.6		57	59	0	2	3	6	0	4	1	6	3
10/8/2018	01038	20.78	20.77	n/a	27.12	27.12	n/a	8.35	8.32	n/a	5.62	6.82	n/a	1.2	2.6	22.6		31	7	1	4	5	6	1	4	1	6	4
10/15/2018	bad weather																											
10/22/2018	01020	12.06	12.33	12.97	25.75	26.52	27.12	8.76	8.74	8.73	8.14	8.09	8.19	1.9	3.7	8.3		37	3	0	4	5	6	2	6	2	2	1
10/29/2018	bad weather																											
Average		19.9	19.2	18.5	25.3	25.6	25.4	8.2	8.2	7.6	6.0	6.3	6.3	1.2	2.5	20.2		50.6	20.2									
KEY	Missing Data	Bad Data	Significant Data																									
								pH<8.0	TOP	1.0 M	BTM			DO<3.0	TOP	1.0 M	BTM		Secchi<1.0	Depth				Fecal	Enterococci			
								Percent	5	3	2			Percent	0.0%	0.0%	0.0%		Percent	3			Pathogens>100	2	0			
									29.4%	20.0%	16.7%			DO<4.8	2	1	0						Percent	11.8%	0.0%			
														Percent	12.5%	6.7%	0.0%											

Friends of the Bay 2018 Water Quality Data - Site 15, Mill Neck Creek South																														
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0 m	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather		
4/2/2018	No Monitor - snow																													
4/9/2018	Boat not available																													
4/16/2018	Boat not available																													
4/23/2018	00747	10.41			24.16			8.44			5.93			1.0	1.4	8.7		3	<1	0	1	1	6	0	0	1	2	1		
4/30/2018	no samples																													
5/7/2018	00757	15.45			24.80			8.47			6.71			1.0	1.3	14.8		7	<1	1	2	1	6	1	3	1	1	2		
5/14/2018	01059	15.09	15.09	14.98	24.09	24.50	24.64	8.18	8.18	8.21	5.77	5.79	5.89	1.2	2.1	16.3		44	34	0	4	5	6	1	4	0	3			
5/21/2018	00740	17.05			23.89			8.01			5.32			0.8	1.1	18.3		68	21	1	2	5	6	1	0	0	1			
5/28/2018	01015	19.07	18.97		24.03	24.03		8.17	8.8		5.68	5.62			1.5	24.7		60	8	1	4	5	6	0	4	0	n/a	3		
6/4/2018	bad weather																													
6/11/2018	01113	20.58	20.46	20.39	24.44	24.57	24.78	8.2	8.26	8.23	5.81	5.9	5.81	0.7	1.9	19.2		75	17	0	4	5	6	1	4	2	1	3		
6/18/2018	00742	22.67	N/A	N/A	21.73	N/A	N/A	7.85	N/A	N/A	30.99	N/A	N/A	0.5	0.6	24.8		70	9	0	2	5	6	1	1	1	6	2		
6/25/2018	01109	22.68	22.58		24.44	24.37		7.93	7.94	7.94	4.56	4.63		0.8	2.0	24.9		106	7	2	2	4	6	2	1	1	1	1		
7/2/2018	no samples																													
7/9/2018	00755	24.32	24.27	24.30	25.20	25.20	25.2	8.14	8.08	7.94	5.99	5.34	5.06	0.7	1.9	24.8		182	40	0	4	3	3	0	0	0	n/a	1		
7/16/2018	no samples																													
7/23/2018	bad weather																													
7/30/2018	Boat and quanta needed repair																													
8/6/2018	Boat and quanta needed repair																													
8/13/2018	Quanta need repair																													
8/20/2018	Bad weather																													
8/27/2018	01041	25.18	25.17	n/a	26.50	26.72	n/a	7.85	7.82	n/a	4.84	4.8	n/a	1.3	1.6	27.0		29	<1	0	4	5	6	0	3	0	n/a	3		
9/3/2018	00745	26.54	26.61	n/a	26.42	26.85	n/a	7.50	7.49	n/a	2.54	2.96	n/a	0.7	1.0	25.9		180	39	0	2	5	6	0	0	0	n/a	1		
9/10/2018	bad weather																													
9/17/2018	boat repair																													
9/24/2018	00936	20.15	20.17	n/a	26.25	26.25	n/a	8.14	8.1	n/a	5.4	5.73	n/a	0.9	1.7	16.2		60	25											
10/1/2018	inaccessible																													
10/8/2018	01045	20.69	20.70	n/a	26.20	26.62	n/a	8.18	8.18	n/a	4.97	5.41	n/a	1.2	2.3	22.8		240	56	1	4	5	6	1	4	1	5	3		
10/15/2018	bad weather																													
10/22/2018	01027	11.18	N/A	N/A	25.92	N/A	N/A	8.59	N/A	N/A	7.76	N/A	N/A	1.1	0.8	8.8		58	12	0	4	5	6	2	6	1	2	1		
10/29/2018	bad weather																													
Average		19.4	19.4	19.9	24.9	25.5	24.9	8.1	8.1	8.1	5.5	5.1	5.6	0.9	1.5	19.8		84.4	19.1											
KEY	Missing Data	Bad Data			Significant Data																									
								pH<8.0	TOP	1.0 M	BTM			DO<3.0	TOP	1.0 M	BTM		Secchi<1.0	Depth				Fecal	Entero					
								Percent	3	2	0			Percent	1	1	0		Percent	6			Percent	4	0					
								23%	22%	0%			7.7%	11.1%	33.3%			43%				Pathogens<100	29%	0%						
														DO<4.8	2	2	0													
														Percent	15.4%	22.2%	0.0%													

Friends of the Bay 2018 Water Quality Data - Site 16, Mill Neck Creek North																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	00758	10.34			23.96			8.45			6.02			1.4		10.4		4	1	0	1	5	6	0	0	1	2	1	
4/30/2018	no samples																												
5/7/2018	no samples																												
5/14/2018	no samples																												
5/21/2018	no samples																												
5/28/2018	no samples																												
6/4/2018	bad weather																												
6/11/2018	01126	20.40	20.34	n/a	24.15	24.22	n/a	8.04	7.93	n/a	5.33	5.42	n/a	1.1	1.7	20.1		46	3	0	4	5	6	1	3	2	2	2	
6/18/2018	no samples																												
6/25/2018	01119	22.91			24.52			7.96			4.74			0.8		23.8		41	3	2	1	4	6	1	2	1	1	1	
7/2/2018	no samples																												
7/9/2018	00743	24.06	24.19		25.20	25.12		7.97	7.92		4.75	4.79		1.0	1.3	23.9		10	6	0	4	3	2	0	0	0	n/a	1	
7/16/2018	no samples																												
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	01055	25.33	25.21	n/a	26.38	26.66	n/a	7.75	7.74	n/a	4.29	4.32	n/a	1.1	1.6	28.8		23	1	0	4	5	6	0	3	0	n/a	3	
9/3/2018	00754	26.45	n/a	n/a	26.49	n/a	n/a	7.32	n/a	n/a	3.07	n/a	n/a	0.9	<1	27.3		58	90*	0	2	5	6	0	0	0	n/a	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	00950	19.39	19.55	n/a	25.66	25.73	n/a	8.02	7.99	n/a	4.94	5.12	n/a	0.70	1.70	15.9		59	26	1	4	3	6	1	4	2	3	3	
10/1/2018	inaccessible																												
10/8/2018	01053	20.65	20.65	n/a	26.76	26.69	n/a	8.2	8.15	n/a	5.07	5.32	n/a	1.10	2.30	22.7		150	49	1	4	5	6	-	4	0	n/a	3	
10/15/2018	bad weather																												
10/22/2018	01039	10.94	10.94	10.83	26.18	25.83	25.97	8.68	8.66	8.54	7.99	7.96	7.64	1.60	2.20	8.9		29	4	0	4	5	6	3	6	2	2	1	
10/29/2018	bad weather																												
Average		20.1	20.1	10.8	25.5	25.7	26.0	8.0	8.1	8.5	5.1	5.5	3.8	1.1	1.5	20.2		46.7	10.3										
KEY	Missing Data	Bad Data			Significant Data				TOP	1.0 M	BTM		TOP	1.0 M	BTM			Secchi<1.0	Depth			Pathogens≥100	Fecal	Entero					
								pH<8.0	3	2	0		DO<3.0	1	1	0		Percent	6			Percent	1	0					
								Percent	33%	33%	0%		Percent	11.1%	16.7%	0.0%		Percent	67%			Percent	11%	0%					

Friends of the Bay 2018 Water Quality Data - Site 17, The Birches STP																														
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather		
4/2/2018	No Monitor - snow																													
4/9/2018	Boat not available																													
4/16/2018	Boat not available																													
4/23/2018	no samples																													
4/30/2018	no samples																													
5/7/2018	no samples																													
5/14/2018	no samples																													
5/21/2018	no samples																													
5/28/2018	no samples																													
6/4/2018	bad weather																													
6/11/2018	no samples																													
6/18/2018	no samples																													
6/25/2018	no samples																													
7/2/2018	no samples																													
7/9/2018	no samples																													
7/16/2018	no samples																													
7/23/2018	bad weather																													
7/30/2018	Boat and quanta needed repair																													
8/6/2018	Boat and quanta needed repair																													
8/13/2018	Quanta need repair																													
8/20/2018	Bad weather																													
8/27/2018	bad weather																													
9/3/2018	00759	26.59	n/a	n/a	26.64	n/a	n/a	7.50	n/a	n/a	2.65	n/a	n/a	<1	<1	27.0		520	110	0	2	5	6	0	0	0	n/a	1		
9/10/2018	bad weather																													
9/17/2018	boat repair																													
9/24/2018	00954	18.53	n/a	n/a	25.20	n/a	n/a	7.87	n/a	n/a	4.93	n/a	n/a	0.6	1.4	16.4		130	56	1	4	3	6	1	4	1	3	3		
10/1/2018	inaccessible																													
10/8/2018	01056	20.62	20.62	n/a	26.62	26.62	n/a	8.16	8.07	n/a	4.86	5.21	n/a	1.1	1.8	22.0		110	52	1	4	5	6	0	4	1	6	3		
10/15/2018	bad weather																													
10/22/2018	01045	10.90	10.56	n/a	25.95	25.75	n/a	8.63	8.55	n/a	7.85	8.18	n/a	1.5	1.5	9.4		32	3	0	4	5	6	3	6	1	2	1		
10/29/2018	bad weather																													
Average		19.2	15.6	n/a	19.8	26.19	n/a	8.0	8.3	n/a	5.1	6.7	n/a	0.8	1.2	18.7		198.0	55.3											
KEY	Missing Data		Bad Data		Significant Data																									
								pH<8.0	TOP	1.0 M	BTM			DO<3.0	TOP	1.0 M	BTM			Depth				Fecal	Entero					
								Percent	2	0	0			Percent	1	0	0			2			3	1						
									50%	0%	0%			Percent	25.0%	0.0%	0.0%			50%			75%	25%						
														Percent	1	0	0													
														Percent	25.0%	0.0%	0.0%													

Friends of the Bay 2018 Water Quality Data - Site 18, Mill Neck Cove																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	00814	9.25	9.24	9.20	24.72	24.72	24.72	8.57	8.56	8.55	7.22	7.22	6.67	1.5	2.8	10.7		<1	<1	0	1	5	6	1	0	1	2	1	
4/30/2018	no samples																												
5/7/2018	00813	14.91	14.91	14.89	24.98	25.05	25.05	8.53	8.53	8.54	7.17	7.14	7.05	1.0	2.0	14.3		<1	<1	1	2	1	6	1	3	1	6	2	
5/14/2018	01108	15.06	14.78	14.7	24.92	24.98	25.04	8.31	8.32	8.29	6.34	6.13	6.35	1.6	3.0	16.3		7	2	2	1	5	6	4	1	1	1	3	
5/21/2018	00751	15.31	15.31	15.24	24.79	24.79	24.79	8.13	8.14	8.10	5.53	5.55	5.34	1.4	1.9	20.4		20	2	1	2	3	6	1	0	0	0	1	
5/28/2018	01023	18.4	18.27	18.22	24.64	24.63	24.7	8.3	8.32	8.29	5.88	5.84	5.76	1.0	2.6	24.0		19	2	1	4	5	6	0	2	0	n/a	2	
6/4/2018	bad weather																												
6/11/2018	01142	20.04	20.01	19.94	24.91	24.91	24.97	8.42	8.38	8.35	6.46	6.45	6.29	1.0	2.5	19.5		18	<1	0	4	5	6	2	3	2	2	2	
6/18/2018	00755	21.21	N/A	N/A	22.65	N/A	N/A	8.29	N/A	N/A	31.66	N/A	N/A	0.8	0.9	24.8		8	1	0	2	5	6	1	1	1	6	2	
6/25/2018	01129	21.13	21.26	20.50	25.23	25.23	25.35	8.22	8.21	8.16	5.53	5.54	5.25	1.0	2.6	24.3		58	<1	2	2	4	6	3	2	2	1	1	
7/2/2018	01017	25.78			24.83			8.08			5.68			0.7	1.2	25.5				0	3	5	6	1	0	1	3	1	
7/9/2018	00811	23.53	23.53	23.53	25.46	25.53	25.53	8.26	8.26	8.24	6.03	6.14	6.23	1.1	2.1	24.8		7	1	0	4	3	6	1	0	1	6	1	
7/16/2018	01035	24.47			25.63			7.98			5.27			0.7	0.8	28.5		42	4	1	4	3	6	0	0	0	n/a	1	
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	01109	24.99	24.94	24.94	26.93	26.86	21.45	7.99	7.98	7.96	5.79	5.73	6.02	1.2	2.8	27.6		12	<1	0	4	5	6	0	3	0	n/a	2	
9/3/2018	00810	26.04	26.03	26.00	27.26	27.33	25.83	7.98	7.95	7.86	5.72	5.71	5.75	1.4	2.8	29.8		5	<1	0	2	5	6	0	0	0	n/a	1	
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	00915	20.76	20.9	20.85	27.25	26.98	26.98	8.28	8.28	8.23	6.24	6.29	6.39	1	2.5	16.1		15	7	1	4	3	6	1	3	2	2	3	
10/1/2018	00758	20.17	20.17	n/a	26.81	26.61	n/a	8.38	8.12	n/a	7.84	8.05	n/a	1.1	1.7	18.8		4	4	0	2	3	6	1	4	1	6	3	
10/8/2018	01025	20.79	20.77	20.77	27.12	27.12	26.7	8.38	8.36	8.31	5.7	5.82	5.95	1.2	3.4	22.2		31	1	1	4	5	6	1	4	1	6	3	
10/15/2018	bad weather																												
10/22/2018	01059	12.87	12.86	12.83	26.76	26.76	26.41	8.76	8.73	8.54	8.18	8.23	8.30	2.5	3.2	9.1		18	<1										
10/29/2018	bad weather																												
Average		19.7	18.8	18.6	24.0	25.7	25.2	7.8	8.3	8.3	6.3	6.4	6.3	1.1	2.2	19.5		15.5	1.4										
KEY	Missing Data	Bad Data			Significant Data				TOP	1.0 M	BTM		TOP	1.0 M	BTM				Depth				Fecal	Entero					
								pH<8.0	3	2	2		DO<3.0	0	0	0			Secchi<1.0	3			Pathogens>100	0	0				
								Percent	18%	14%	15%		Percent	0.0%	0.0%	0.0%			Percent	18%			Percent	0%	0%				
													DO<4.8	0	0	0													
													Percent	0.0%	0.0%	0.0%													

Friends of the Bay 2018 Water Quality Data - Site 19, Flowers Oyster Hatchery																													
Date	Time	H2O Temp TOP (0.5m)	H2O Temp 1.0 m	H2O Temp 0.5 m from BTM	Salinity TOP	Salinity 1.0 m	Salinity BTM	PH Top	PH 1.0 m	Ph .5 m from BTM	Top DO	DO 1.0	BTM DO	Secchi	Depth (meters)	Air Temp	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Entero-cocci	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Conditions	Wave Height	Cloud Cover	Wind Speed	Wind Direction	Weather	
4/2/2018	No Monitor - snow																												
4/9/2018	Boat not available																												
4/16/2018	Boat not available																												
4/23/2018	00819	9.24	9.23	9.91	24.66	24.72	24.72	8.58	8.57	8.55	7.46	7.01	6.03	1.6	4.7	9.5		2	<1	0	1	5	6	1	0	1	2	1	
4/30/2018	no samples																												
5/7/2018	00819	14.97	14.99	14.87	25.05	25.05	25.05	8.60	8.57	8.55	7.01	7.39	7.16	1.1	4.40	16.0		<1	<1	1	2	1	6	1	3	1	8	2	
5/14/2018	01113	14.88	14.83	14.57	24.84	24.98	25.11	8.3	8.2	8.35	6.42	6.56	6.74	1.1	5.54	16.9		14	7	2	1	5	4	1	4	1	1	3	
5/21/2018	00757	15.80	15.59	15.25	24.47	24.59	24.65	8.12	8.15	8.13	5.56	5.61	5.68	1.1	4.3	18.1		6	3	1	2	3	6	1	0	1	8	1	
5/28/2018	01028	18.43	18.37	18.16	24.50	24.57	24.63	8.3	8.29	8.25	5.91	5.85	5.32	1.1	4.9	24.4		18	2	1	4	5	6	0	2	0	n/a	2	
6/4/2018	bad weather																												
6/11/2018	01153	19.94	19.91	19.76	24.90	24.97	24.97	8.43	8.40	8.37	6.42	6.24	5.84	0.8	5.5	18.8		13	2	0	4	5	6	2	3	2	2	2	
6/18/2018	00804	21.63	21.59	21.24	22.32	22.25	22.38	8.33	8.30	8.25	31.46	31.48	31.70	0.9	3.60	24.2		15	5	0	2	5	6	1	1	1	6	2	
6/25/2018	01136	21.30	21.07	20.64	25.20	25.23	25.28	8.20	8.21	8.17	5.35	5.28	5.05	0.9	5.4	25.2		10	<1	2	2	4	6	2	2	1	1	1	
7/2/2018	01021	25.32	24.85	24.27	24.96	25.16	25.20	8.20	8.24	8.14	6.16	6.17	5.35	1.0	3.60	28.0		4	<1	0	3	5	6	1	0	1	8	1	
7/9/2018	00816	23.59	22.80	22.77	25.53	25.78	25.84	8.28	8.25	8.21	6.02	5.73	5.78	1.4	5.2	24.3		9	2	0	4	3	6	1	0	1	6	1	
7/16/2018	no samples																												
7/23/2018	bad weather																												
7/30/2018	Boat and quanta needed repair																												
8/6/2018	Boat and quanta needed repair																												
8/13/2018	Quanta need repair																												
8/20/2018	Bad weather																												
8/27/2018	01012	24.97	24.96	24.77	26.72	26.86	26.07	7.88	7.88	7.88	4.87	4.97	5.13	1.7	4.6	26.1		31	16	0	4	5	6	0	3	0	n/a	2	
9/3/2018	00815	26.09	26.08	25.84	27.33	26.26	27.54	8.02	8.01	7.92	5.84	5.81	4.13	1.0	4.7	27.8		16	8	0	2	5	6	0	0	1	8		
9/10/2018	bad weather																												
9/17/2018	boat repair																												
9/24/2018	00907	20.79	20.79	20.81	26.42	26.91	27.19	8.24	8.22	8.86	5.95	5.99	5.94	1.0	4.9	16.1		20	4	1	4	3	6	1	3	1	2	3	
10/1/2018	00805	20.07	20.00	20.23	26.74	26.38	26.67	8.47	8.43	8.32	8.07	7.95	8.16	1.1	4.1	19.2		30	9	0	2	3	6	1	4	1	6	3	
10/8/2018	01017	20.72	20.72	20.76	26.69	26.83	27.05	8.29	8.29	8.29	5.46	5.66	5.69	1.2	5.3	22.1		160	36	1	4	5	6	0	4	1	6		
10/15/2018	bad weather																												
10/22/2018	01005	12.63	12.64	12.69	27.03	26.89	27.03	8.74	8.71	8.63	7.96	8.01	7.95	2.3	5.7	8.4		26	3	0	4	5	6	2	2	2	6	2	
10/29/2018	bad weather																												
Average		19.4	19.3	19.2	23.8	23.8	25.6	7.8	8.3	8.3	5.9	5.9	5.6	1.2	4.8	20.3		23.4	6.1										
KEY	Missing Data	Bad Data			Significant Data				TOP	1.0 M	BTM			TOP	1.0 M	BTM			Depth				Fecal	Entero					
								pH<8.0	3	2	2			DO<3.0	0	0	0		Secchi<1.0	3			Pathogens>100	1	0				
								Percent	19%	13%	13%			Percent	0.0%	0.0%	0.0%		Percent	19%			Percent	6%	0%				
														DO<4.8	0	0	1												
														Percent	0.0%	0.0%	6.3%												

Friends of the Bay 2016 Water Quality Data - Flowers Oyster Hatchery - Laurel Hollow LH1																																						
	Date	Time	H2O Temp	H2O Temp	H2O Temp	Salinity	Salinity	Salinity	PH Top	PH 1.0 m	Ph .5 m	Top DO	DO 1.0 M	BTM DO	Secchi	Depth	Air Temp	H2O Temp	Fecal	Enterococci	Ammonia	Nitrate/Ni	Total	Organic	Total	Rainfall	Tidal	Water	Surface	Wave	Cloud	Wind	Wind	Weather				
LH1	4/2/2018																																					
LH1	4/9/2018																																					
LH1	4/16/2018																																					
LH1	4/23/2018																																					
LH1	4/30/2018																																					
LH1	5/7/2018																																					
LH1	5/14/2018																																					
LH1	5/21/2018																																					
LH1	5/28/2018																																					
LH1	6/4/2018																																					
LH1	6/11/2018																																					
LH1	6/18/2018																																					
LH1	6/25/2018																																					
LH1	7/2/2018																																					
LH1	7/9/2018																																					
LH1	7/16/2018																																					
LH1	7/23/2018																																					
LH1	7/30/2018																																					
LH1	8/6/2018																																					
LH1	8/13/2018																																					
LH1	8/20/2018																																					
LH1	8/27/2018																																					
LH1	9/3/2018																																					
LH1	9/10/2018																																					
LH1	9/17/2018																																					
LH1	9/24/2018																																					
LH1	10/1/2018																																					
LH1	10/8/118																																					
	10/15/2018																																					
	10/22/2018																																					
	10/29/2018																																					

Friends of the Bay 2016 Water Quality Data - Flowers Oyster Hatchery - Laurel Hollow LH2																																					
	Time	H2O Temp	H2O Temp	H2O Temp	Salinity	Salinity	Salinity	PH Top	PH 1.0 m	Ph .5 m	Top DO	DO 1.0 M	BTM DO	Secchi	Depth	Air Temp	H2O Temp	Fecal	Enterococci	Ammonia	Nitrate/Ni	Total	Organic	Total	Rainfall in	Tidal	Water	Surface	Wave	Cloud	Wind	Wind	Weather				
LH2	4/2/2018																																				
LH2	4/9/2018																																				
LH2	4/16/2018																																				
LH2	4/23/2018																																				
LH2	4/30/2018																																				
LH2	5/7/2018																																				
LH2	5/14/2018																																				
LH2	5/21/2018																																				
LH2	5/28/2018																																				
LH2	6/4/2018																																				
LH2	6/11/2018																																				
LH2	6/18/2018																																				
LH2	6/25/2018																																				
LH2	7/2/2018																																				
LH2	7/9/2018																																				
LH2	7/16/2018																																				
LH2	7/23/2018																																				
LH2	7/30/2018																																				
LH2	8/6/2018																																				
LH2	8/13/2018																																				
LH2	8/20/2018																																				
LH2	8/27/2018																																				
LH2	9/3/2018																																				
LH2	9/10/2018																																				
LH2	9/17/2018																																				
LH2	9/24/2018																																				
LH2	10/1/2018																																				
LH2	10/8/118																																				
	10/15/2018																																				
	10/22/2018																																				
	10/29/2018																																				

Friends of the Bay 2016 Water Quality Data - Flowers Oyster Hatchery - Laurel Hollow LH3																																					
	Date	Time	H2O Temp	H2O Temp	H2O Temp	Salinity	Salinity	Salinity	PH Top	PH 1.0 m	Ph .5 m	Top DO	DO 1.0 M	BTM DO	Secchi	Depth	Air Temp	H2O Temp	Fecal	Enterococci	Ammonia	Nitrate/Ni	Total	Organic	Total	Rainfall in	Tidal	Water	Surface	Wave	Cloud	Wind	Wind	Weather			
LH3	4/2/2018																																				
LH3	4/9/2018																																				
LH3	4/16/2018																																				
LH3	4/23/2018																																				
LH3	4/30/2018																																				
LH3	5/7/2018																																				
LH3	5/14/2018																																				
LH3	5/21/2018																																				
LH3	5/28/2018																																				
LH3	6/4/2018																																				
LH3	6/11/2018																																				
LH3	6/18/2018																																				
LH3	6/25/2018																																				
LH3	7/2/2018																																				
LH3	7/9/2018																																				
LH3	7/16/2018																																				
LH3	7/23/2018																																				
LH3	7/30/2018																																				
LH3	8/6/2018																																				
LH3	8/13/2018																																				
LH3	8/20/2018																																				
LH3	8/27/2018																																				
LH3	9/3/2018																																				
LH3	9/10/2018																																				
LH3	9/17/2018																																				
LH3	9/24/2018																																				
LH3	10/1/2018																																				
LH3	10/8/118																																				
	10/15/2018																																				
	10/22/2018																																				
	10/29/2018																																				