Friends of the Bay 2021 Water Quality Data - Site 1, Cold Spring Cove South

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secc hi	Floor Depth (met	Air Temp (°C)	H2O Temp BTM monthl	Fecal Colifor m Bacteri	Entero cocci	Am moni a (NH3	Nitra te NO3	Nitrit e (NO 2)	Total Kjeld ahl Nitro	Orga nic Nitro gen (N)	Total Nitro gen	Rainf all in 24 hour	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTO N	Wind SPEED m/s	Weather	Wave Height Ft.	Data Ente red by	Capt ain	Sam plin g Lea	Notes
Site 1	4/19/2021	11:06am	12.59	11.72	10.02	22.99	24.50	26.11	8.35	8.25	8.19	11.57	12.04	11.76	125.5	128.4	####	1.1m	3.75	18.4		<1	<1							0	3	5	6	1	NE	3.4	1	0.5	kp	pj	pj	Clear surface conditions
Site 1	4/26/2021	10:56 AM	10.84	10.82	10.78	22.98	23.41	24.65	7.95	7.96	7.99	8.91	8.92	8.68	93.2	93.5	91.4	1.7	6.66	15.7		9	4							1	4	5	6	0	NW	3	1	1	nh	pj	pj	choppy
Site 1	5/3/2021	10:59 AM	13.27	13.20	11.83	22.78	23.70	25.72	7.76	7.88	7.93	8.65	8.67	8.62	95.5	96.5	94.0	1.8	4.12	18.2		5	3							0	2	5	6	4	NE	1.7	3	0	nh	pj	pj	clear surface conditions
Site 1	5/10/2021	10:06 AM	12.02	12.19	11.73	22.11	24.31	25.83	8.05	8.05	7.97	9.74	9.92	9.68	105.1	109	####	1.25	6.05	15.2		29	55							2	4	5	6	4	W	2.5	3	0.5	nh	pj	pj	Clear surface conditions
Site 1	5/17/2021	10:32 AM	15.04	14.93	13.83	24.04	24.65	26.04	7.96	7.90	7.91	8.72	8.95	9.02	100.1	102.5	####	1.7	3.81	24.7		1	<1							0	3	5	6	0	N	2	1	0	nh	pj	pj	Clear surface conditions
Site 1	5/24/2021	10:01 AM	19.09	19.09	17.99	24.31	24.38	25.75	7.92	7.94	7.86	7.97	8.20	7.97	99.3	101.9	97.3	1.1	6.61	17.5		37	10							0	1	5	6	4	SW	3.5	3	0	nh	pj	pj	Clear surface conditions
Site 1	6/1/2021	10:50 AM	15.43	15.39	14.89	20.46	23.59	25.25	7.65	7.53	7.61	7.97	7.87	7.32	89.7	90.1	83.0	1.4	3.64	27.2		2	1							0	2	5	6	4	NE	1.1	3	0	nh	pj	pj	Clear surface conditions
Site 1	6/7/2021	11:13 AM	19.70	17.74	16.67	24.34	25.60	26.05	8.02	7.98	7.81	9.36	9.67	8.72	118.2	118.3	####	1.05	5.83	33.0		11	1							0	1	5	6	0	0	0	1	0	nh	pj	pj	Clear surface conditions
Site 1	6/15/2021	10:37 AM	18.07	17.26	16.74	25.09	25.69	26.48	8.06	7.75	7.67	8.10	8.74	7.11	100.3	105.3	84.6	0.8	4.15	25.8		63	7							1	3	5	6	3	N	0.4	3	0	nh	pj	pj	Clear surface conditions
Site 1	6/21/2021	11:28 AM	21.02	21.01	20.12	25.34	25.55	26.15	8.02	8.01	7.93	7.46	7.73	7.09	98.0	101.0	91.6	0.7	5.84	24.4		320	43							0	2	5	6	4	S	3.3	3	0.5	nh	pj	pj	Clear surface conditions
Site 1	6/28/2021	10:57 AM	19.42	19.03	18.60	25.99	26.05	26.50	7.55	7.51	7.43	5.97	5.73	5.23	75.0	72.1	64.8	0.8	3.85	30.0		150	11							0	4	5	4	1	SW	1.5	1	0	nh	pj	pj	Clear surface conditions, dead fish near site
Site 1	7/6/2021	11:33 AM	21.39	20.48	19.23	25.35	26.45	26.99	**no pH data, sensor unopera**			5.40	5.67	4.66	72.0	72.5	57.5	1.6	5.30	31.0		39	3							0	2	5	6	1	SW	4.1	1	0	nh	pj	pj	clear surface conditions
Site 1	7/12/2021	9:40 AM	22.18	22.11	21.72	24.51	24.78	25.71	7.35	7.32	7.26	4.91	4.79	3.09	64.6	62.9	40.1	0.9	4.04	25.0		60	16							1	4	5	6	4	SW	1.0	3	0	nh	pj	pj	clear surface conditions
Site 1	7/19/2021	11:19 AM	24.05	23.98	23.53	24.10	24.84	25.55	7.93	7.63	7.34	5.38	6.66	5.32	75.0	91.5	70.3	1.0	4.55	24.0		220	35							0	2	5	6	4	NW	1.4	3	0	nh	pj	pj	clear surface conditions
Site 1	7/26/2021	9:27 AM	23.16	23.18	22.93	24.96	24.90	25.85	7.28	7.31	7.32	3.57	3.22	2.82	46.1	43.4	37.6	1.9	4.07	26.0		250	52							2	4	5	6	1	W	1.0	1	0	nh	pj	pj	clear surface conditions
Site 1	8/2/2021	11:30 AM	23.68	23.65	23.47	24.38	24.30	25.55	**no pH data, sensor unopera**			5.58	5.83	4.78	76.3	79.9	64.8	1.1	4.58	22.8		13	1							0	2	5	6	2	NW	2.7	1	0.5	nh	pj	pj	clear surface conditions,do in hypoxic range at btm depth
Site 1	8/9/2021	9:47 AM	22.24	22.28	22.28	25.18	25.41	26.03	7.30	7.30	7.25	3.82	3.34	2.62	50.1	43.7	33.9	1.6	4.86	22.0		90	70							1	4	5	6	4	NE	2.8	4	0	nh	pj	pj	clear surface conditions,do in hypoxic range at all depths
Site 1	8/24/2021	9:32 AM	24.10	24.17	24.12	24.42	24.60	25.40	7.39	7.41	7.42	4.31	3.88	3.53	57.0	53.0	48.3	1.1	4.23	25.6		45	6							1	4	4	6	1	w	8	1	0	es	pj	pj	clear surface conditions,do in hypoxic range at all depths
Site 1	8/31/2021	10:29 AM	24.71	24.61	23.67	25.00	25.29	26.53	pH sensor broken			5.20	5.70	5.13	73.3	81.7	67.6	0.8	4.60	26.1		16	<1							1	2	5	6	3	nw	6.0	1	0	es	pj	pj	clear surface conditions
Site 1	9/7/2021	9:52 AM	23.29	23.27	23.42	24.72	24.73	25.21	pH sensor broken			5.45	5.35	4.86	73.3	72.2	65.7	0.9	5.26	21.1		28	11							0	4	4	6	0	wnw	8	1	0	es	pj	pj	clear surface conditions
Site 1	9/13/2021	11:15 AM	23.35	23.29	23.00	23.92	24.01	24.41	pH sensor broken			5.82	5.92	5.92	78.3	79.4	78.8	0.7	3.87	26.1		21	1							0	4	5	6	1	nw	11.0	1	0.5	fb	pj	pj	clear surface conditions
Site 1	9/21/2021	10:23 AM	22.31	22.38	22.75	24.70	24.87	25.56	pH sensor broken			5.18	5.41	5.23	68.1	71.3	68.1	1.3	5.77	18.8		24	<1							0	4	5	6	2	E	7	2	0	fb	pj	pj	clear surface conditions
Site 1	10/4/2021	11:21 AM	20.83	20.83	20.83	24.48	24.38	25.36	pH sensor broken			5.75	5.55	5.12	73.5	71.3	66.1	0.7	6.41	18.8										1	2	5	6	4	ENE	11.0	3	0.5	es	pj	pj	clears surface conditions
Site 1	10/11/2021	10:52 AM	18.92	19.22	20.16	22.69	23.82	25.33	pH sensor broken			6.05	5.95	5.34	74.1	73.6	66.6	1.5	4.28	18.8										1	4	5	6	4	NE	9	6	0.5	fb	pj	pj	clear surface conditions
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Friends of the Bay 2021 Water Quality Data - Site 2, Cold Spring Cove North

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi	Floor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 2	4/19/2021	10:54 AM	10.85	10.45	9.83	24.92	25.40	26.32	8.22	8.17	8.18	11.12	11.31	10.90	118.4	119.4	113.5	1.1	4.45	18.4		2	<1							0	3	5	6	1	NE	2.4	1	0.0	nh	pj	pj	clear surface conditions
Site 2	4/26/2021	10:39 AM	10.80	10.83	10.79	24.45	24.49	24.61	8.05	8.04	8.04	9.18	9.14	9.08	96.7	96.3	95.7	1.4	4.74	10.4		7	2							1	4	5	6	1	NW	5.6	1	1.5	nh	pj	pj	choppy
Site 2	5/3/2021	10:48 AM	12.06	12.09	11.85	25.21	25.13	25.65	7.96	7.96	7.96	8.87	8.89	8.83	96.8	97.3	96.1	1.5	5.67	16.2		8	2							0	2	5	6	4	NE	1.6	3	0.0	nh	pj	pj	clear surface conditions
Site 2	5/10/2021	9:49 AM	12.23	12.18	11.59	24.72	25.09	26.07	8.05	8.06	7.92	9.22	9.80	9.44	103.5	107.7	102.3	1.0	8.38	13.8		11	5							2	4	5	6	4	W	3.0	3	1.0	nh	pj	pj	clear surface conditions
Site 2	5/17/2021	10:21 AM	14.85	14.40	13.72	24.87	25.40	26.19	7.94	7.95	7.83	8.52	8.88	8.42	97.9	100.8	94.5	1.7	6.96	26.6		5	2							0	3	5	6	0	N	1.5	1	0.0	nh	pj	pj	clear surface conditions
Site 2	5/24/2021	9:49 AM	18.65	18.70	18.43	23.38	25.18	25.66	8.00	7.96	7.88	8.67	8.78	8.80	106.1	108.7	107.8	1.0	3.66	18.6		66	12							0	4	5	6	4	W	3.0	3	0.0	nh	pj	pj	clear surface conditions
Site 2	6/1/2021	10:36 AM	15.28	14.99	14.48	24.08	24.73	25.82	7.70	7.71	7.70	7.05	7.25	6.92	80.9	83.0	78.7	1.3	6.63	22.3		15	5							0	2	5	6	4	NW	1.4	3	0.0	nh	pj	pj	clear surface conditions
Site 2	6/7/2021	10:59 AM	19.02	17.54	16.33	25.06	25.76	26.22	8.10	7.99	7.73	8.95	9.61	8.15	112.3	117.2	95.7	1.1	8.51	27.1		26	5							0	1	5	6	1	N	1.0	1	0.0	nh	pj	pj	clear surface conditions
Site 2	6/15/2021	10:21 AM	17.21	16.86	16.65	25.85	26.19	26.57	7.89	7.83	7.70	7.31	7.53	6.96	88.9	90.8	83.7	0.9	5.38	25.5		58	12							1	3	5	6	3	N	1.6	3	0.0	nh	pj	pj	clear surface conditions
Site 2	6/21/2021	11:10 AM	21.92	20.61	19.89	24.88	25.86	26.36	8.20	8.03	7.94	8.71	9.22	7.75	117.2	119.7	99.0	0.7	7.38	25.9		80	15							0	2	5	6	4	S	3.2	3	0.5	nh	pj	pj	clear surface conditions
Site 2	6/28/2021	10:43 AM	19.84	19.87	18.53	25.45	25.62	26.54	7.60	7.61	7.45	6.54	6.47	5.19	82.9	81.8	64.1	0.8	5.48	30.0		140	5							0	4	5	6	1	SW	2.3	1	0.0	nh	pj	pj	clear surface conditions
Site 2	7/6/2021	11:21 AM	20.20	19.35	18.98	26.39	26.85	27.10	**no pH data, sensor unoperative**			5.60	5.23	4.13	71.6	65.2	52.4	1.2	5.40	31.0		23	2							0	2	5	6	1	SW	2.5	1	0.0	nh	pj	pj	clear surface conditions
Site 2	7/12/2021	9:24 AM	22.06	21.71	21.50	24.65	24.82	25.98	7.42	7.29	7.29	4.72	4.69	3.62	62.4	61.1	47.5	0.8	5.27	25.0		280	48							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 2	7/19/2021	11:07 AM	23.86	23.71	23.53	24.86	25.13	25.60	7.78	7.62	7.39	5.64	6.07	4.73	77.7	83.0	60.9	0.6	4.49	24.0		90	23							0	2	5	6	4	NW	2.2	3	0.0	nh	pj	pj	clear surface conditions
Site 2	7/26/2021	9:14 AM	23.13	23.01	22.76	24.81	25.22	25.95	7.42	7.40	7.37	3.71	3.61	3.33	50.2	48.5	44.3	1.4	5.01	25.0		160	80							2	4	5	4	1	0	0.0	1	0.0	nh	pj	pj	1 dead fish
Site 2	8/2/2021	11:16 AM	23.45	23.41	23.32	24.79	24.80	25.62	**no pH data, sensor unoperative**			4.58	4.82	4.28	62.4	65.9	57.6	1.3	6.28	22.8		6	<1							0	2	5	6	2	NW	3.8	1	0.5	nh	pj	pj	clear surface conditions, do in hypoxic range at all depths
Site 2	8/9/2021	9:33 AM	22.18	22.24	22.28	24.43	25.27	26.01	7.42	7.39	7.27	3.15	3.54	2.03	41.2	47.0	26.7	1.3	6.23	22.0		120	80							1	4	5	6	4	NE	2.7	3	0.0	nh	pj	pj	clear surface conditions, do in hypoxic range at all depths
Site 2	8/24/2021	9:18 AM	23.93	24.05	24.06	24.11	24.90	25.39	7.41	7.44	7.45	4.43	4.03	3.74	60.2	55.1	51.3	1.1	4.73	23.8		51	66							1	4	4	6	0	W	8.0	1	0.0	es	pj	pj	clear surface conditions, do in hypoxic range at all depths
Site 2	8/31/2021	10:19 AM	24.19	23.92	23.43	24.99	26.02	26.77	pH sensor broken			3.63	3.71	2.52	48.8	52.5	33.6	0.9	6.55	25.0		24	2							1	2	5	6	2	NW	6.0	1	0.0	es	pj	pj	clear surface conditions, do in hypoxic range at all depths
Site 2	9/7/2021	9:37 AM	23.23	23.20	23.44	24.99	24.99	25.24	pH sensor broken			4.83	4.74	4.44	65.1	64.1	60.2	1.0	7.54	20.0		14	4							0	4	4	3	0	WNW	7.0	1	0.0	es	pj	pj	foam, do in hypoxic range at all depths
Site 2	9/13/2021	11:02 AM	22.94	22.90	22.69	24.11	24.14	24.79	pH sensor broken			5.96	6.28	5.66	79.9	83.7	74.9	1.2	5.49	27.1		15	2							0	4	5	6	1	NW	11.0	1	0.5	fb	pj	pj	clear surface conditions
Site 2	9/21/2021	10:10 AM	22.58	22.30	22.83	25.09	25.00	25.72	pH sensor broken			5.37	5.32	5.32	69.5	69.8	64.7	1.3	8.37	18.8		33	<1							0	4	5	6	2	E	6.0	1	0.0	fb	pj	pj	clear surface conditions
Site 2	10/4/2021	11:10 AM	20.87	20.84	20.80	25.00	25.25	25.58	pH sensor broken			5.87	5.44	5.08	74.5	70.0	65.8	1.1	7.59	18.8										1	2	5	6	4	ENE	11.0	3	0.5	es	pj	pj	clear surface conditions
Site 2	10/11/2021	10:40 AM	20.00	19.99	20.27	24.96	25.01	25.80	pH sensor broken			5.80	5.51	5.00	73.2	69.2	63.6	1.1	6.38	17.7										1	4	5	6	4	NE	16.0	3	0.5	fb	pj	pj	clear surface conditions
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Friends of the Bay 2021 Water Quality Data - Site 3, Cold Spring Harbor South

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi	Floor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen	Organic Nitrogen	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTION	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 3	4/19/2021	10:43 AM	10.59	10.40	9.52	26.00	26.20	26.56	8.26	8.28	8.23	10.75	10.98	11.15	114.5	116.4	115.3	1.1	4.67	17.8		<1	<1							0	3	5	6	1	NE	1.1	1	0.5	nh	pj	pj	clear suface conditions
Site 3	4/26/2021	10:18 AM	10.78	10.78	10.49	25.24	25.19	25.52	8.12	8.11	8.14	9.4	9.31	9.32	99.3	98.5	98.3	2.0	6.5	10.9		<1	<1							1	4	5	6	1	W	8.0	1	1.5	nh	pj	pj	choppy
Site 3	5/3/2021	10:38 AM	12.21	12.16	11.29	25.27	25.48	25.99	8	8.01	7.95	8.86	9.1	8.93	97.6	99.9	96.3	1.3	4.58	18.5		2	1							0	2	5	6	4	0	0.0	3	0.0	nh	pj	pj	clear surface conditions
Site 3	5/10/2021	9:38 AM	12.14	12.15	11.43	25.73	25.74	26.07	8.07	8.07	7.97	9.66	9.86	9.78	106.9	108.9	105.1	1.9	6.33	12.4		<1	<1							2	4	5	6	4	NW	2.5	3	0.5	nh	pj	pj	clear surface conditions
Site 3	5/17/2021	10:06 AM	14.89	14.23	13.48	25.61	26.12	26.44	7.97	7.99	7.92	8.92	9.15	9.12	102.9	103.8	102.0	1.3	4.45	26.1		1	1							0	3	5	6	0	NW	2.1	1	0.0	nh	pj	pj	clear surface conditions
Site 3	5/24/2021	9:36 AM	18.73	18.73	16.44	25.52	25.55	26.06	7.99	8.00	7.79	8.08	8.65	7.92	100.6	107.5	93.0	1.6	6.86	17.1		11	1							0	4	5	6	4	S	4.5	3	0.5	nh	pj	pj	clear surface conditions
Site 3	6/1/2021	10:27 AM	15.05	14.83	14.32	25.43	25.70	26.31	7.76	7.84	7.73	7.55	7.51	7.46	86.5	86.1	84.5	1.2	4.60	23.0		12	4							0	2	5	6	4	NW	0.8	3	0.0	nh	pj	pj	clear surface conditions
Site 3	6/7/2021	10:48 AM	19.81	19.38	16.17	25.76	26.06	26.30	8.14	8.17	7.75	9.92	10.41	9.29	127.0	131.1	109.0	1.6	6.45	33.2		7	2							0	1	5	6	1	N	2.0	1	0.0	nh	pj	pj	clear surface conditions, % SAT outside of range at top and 1m depths
Site 3	6/15/2021	10:12 AM	17.68	17.30	16.53	26.13	26.28	26.80	8.04	8.00	7.79	7.97	8.39	8.29	97.5	102.4	98.5	0.9	4.67	25.5		44	4							1	3	5	6	4	N	1.7	3	0.0	nh	pj	pj	clear surface conditions
Site 3	6/21/2021	11:00 AM	20.93	20.89	19.78	26.05	26.11	26.42	8.16	8.16	7.98	7.86	8.42	8.10	104.7	111.3	103.0	0.9	6.27	26.6		17	4							0	2	5	6	4	S	3.5	3	1.0	nh	pj	pj	clear surface conditions
Site 3	6/28/2021	10:27 AM	20.62	19.36	18.49	26.32	26.43	26.73	7.76	7.69	7.63	7.06	7.01	6.57	92.0	88.0	80.0	1.2	4.27	29.0		14	1							0	4	5	6	1	SW	2.9	1	0.0	nh	pj	pj	clear surface conditions
Site 3	7/6/2021	11:09 AM	20.58	20.39	18.55	26.64	26.72	27.20	**no pH data, sensor unoper**			5.76	6.20	5.33	76.1	80.7	66.4	1.7	6.26	30.0		5	<1							0	2	5	6	1	SW	1.2	1	0.0	nh	pj	pj	clear surface conditions
Site 3	7/12/2021	9:13 AM	22.09	21.95	21.35	25.07	25.50	26.05	7.47	7.44	7.39	4.44	4.54	4.33	57.5	60.0	56.4	1.2	4.64	25.0		70	14							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 3	7/19/2021	10:52 AM	24.02	24.00	23.68	25.50	25.54	25.92	7.87	7.90	7.48	5.06	6.11	5.47	71.5	84.9	73.2	1.1	5.53	24.0		24	5							0	2	5	6	4	NW	2.0	3	0.0	nh	pj	pj	clear surface conditions
Site 3	7/26/2021	9:05 AM	22.96	22.88	22.36	25.51	25.52	26.15	7.51	7.52	7.49	4.61	4.49	4.27	62.4	60.5	56.8	1.6	4.44	25.0		62	46							2	4	5	6	2	0	0.0	2	0.0	nh	pj	pj	clear surface conditions
Site 3	8/2/2021	11:01 AM	23.55	25.53	23.12	25.77	25.62	25.62	**no pH data, sensor unoper**			6.71	6.80	6.03	92.7	93.2	81.3	1.5	4.58	22.8		2	<1							0	2	5	6	0	NW	2.3	1	0.5	nh	pj	pj	clear surface conditions
Site 3	8/9/2021	9:17 AM	22.42	22.41	22.33	25.49	25.66	26.40	7.69	7.63	7.37	4.84	5.17	3.83	64.9	68.8	50.7	1.3	5.26	22.0		38	20							1	4	5	6	4	NE	2.2	3	0.0	nh	pj	pj	clear surface conditions,do in hypoxic range at btm depth
Site 3	8/24/2021	9:07 AM	24.07	24.06	23.83	24.98	25.59	26.03	7.64	7.59	7.49	5.31	5.27	4.64	73.1	72.6	63.2	1.3	4.73	22.8		27	9							1	4	4	6	0	W	8.0	1	0.0	es	pj	pj	clear surface conditions
Site 3	8/31/2021	10:06 AM	24.30	24.22	23.38	25.85	26.00	26.81	pH sensor broken			5.85	6.63	5.04	82.5	92.7	67.7	0.7	5.58	23.8		11	2							1	2	5	6	3	NW	6.0	3	0.0	es	pj	pj	clear surface conditions
Site 3	9/7/2021	9:20 AM	23.27	23.30	23.30	25.22	25.25	25.66	pH sensor broken			5.84	5.81	5.30	78.7	78.9	71.8	1.0	5.84	20.0		7	<1							0	4	4	6	0	WNW	7.0	1	0.0	es	pj	pj	clear surface conditions
Site 3	9/13/2021	10:52 AM	23.00	22.99	22.74	24.66	24.68	25.15	pH sensor broken			6.31	6.46	6.21	84.6	86.6	81.8	1.1	4.60	26.1		14	<1							0	3	5	6	0	NW	11.0	1	1.0	fb	pj	pj	clear surface conditions
Site 3	9/21/2021	9:56 AM	22.57	22.56	22.97	25.63	25.65	26.02	pH sensor broken			5.98	6.12	5.61	78.7	80.9	74.4	1.2	6.12	18.8		<1	<1							0	4	5	6	2	E	6.0	2	0.0	fb	pj	pj	clear surface conditions
Site 3	10/4/2021	10:59 AM	20.89	20.89	20.80	25.31	25.34	25.72	pH sensor broken			6.72	6.60	6.35	86.6	85.4	82.3	1.5	7.14	20.0										1	2	5	6	4	ENE	11.0	3	0.5	es	pj	pj	clear surface conditions
Site 3	10/11/2021	10:27 AM	20.00	20.01	20.18	25.45	25.45	25.82	pH sensor broken			5.91	5.63	5.33	74.3	70.6	67.6	1.6	5.00	17.7										1	4	5	6	4	NE	16.0	3	1.0	fb	pj	pj	clear surface conditions
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Friends of the Bay 2021 Water Quality Data - Site 4, Cold Spring Harbor North

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 4	4/19/2021	10:30 AM	11.21	11.19	9.16	25.83	26.34	26.71	8.30	8.32	8.22	11.28	11.70	11.59	121.6	126.6	119.6	2.0	5.27	15.9		<1	<1							0	3	5	6	1	NE	1.7	1	0.0	nh	pj	pj	clear surface conditions
Site 4	4/26/2021	10:00 AM	9.73	9.7	9.68	25.83	25.86	25.84	8.15	8.15	8.15	9.52	9.52	9.54	98.8	98.8	98.9	2.2	7.05	12.8		1	<1							1	4	5	6	1	NW	5.0	1	2.0	nh	pj	pj	choppy
Site 4	5/3/2021	10:29 AM	12.36	12.37	10.67	25.54	25.60	26.27	8.10	8.10	8.04	9.42	9.62	9.63	104.4	106.4	102.3	2.1	5.39	16.7		<1	<1							0	2	5	6	4	S	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 4	5/10/2021	9:29 AM	11.74	11.75	11.3	26.09	26.12	26.35	7.99	7.99	7.96	9.11	9.14	9.03	99.8	100.0	98	2.2	6.81	12.3		<1	<1							2	4	5	6	4	N	3.3	3	1.0	nh	pj	pj	clear surface conditions
Site 4	5/17/2021	9:57 AM	15.10	15.01	13.3	26.05	26.08	26.59	8.05	8.05	7.94	9.30	9.58	9.54	107.9	110.7	105.8	2.0	5.05	26.8		<1	<1							0	3	5	6	0	N	1.5	1	0.0	nh	pj	pj	clear surface conditions
Site 4	5/24/2021	9:18 AM	16.61	16.59	14.41	26.27	26.34	26.54	8.05	8.05	7.95	9.11	9.21	8.90	109.0	109.9	101.6	1.9	7.39	16.9		1	<1							0	4	5	6	4	SE	4.8	3	1.0	nh	pj	pj	clear surface conditions
Site 4	6/1/2021	10:17 AM	15.35	15.01	13.63	25.16	25.49	26.51	7.95	7.99	7.81	8.56	9.09	9.15	99.8	104.8	102	1.6	5.17	23.0		5	1							0	2	5	6	4	NW	2.0	3	0.0	nh	pj	pj	clear surface conditions
Site 4	6/7/2021	10:38 AM	19.39	19.16	15.93	25.98	26.10	26.51	8.15	8.14	7.85	9.86	10.35	9.60	124.8	131.0	113.4	1.7	7.13	30.5		2	<1							0	1	5	6	1	NE	0.6	1	0.0	nh	pj	pj	clear surface conditions, % SAT outside of range at top and 1m levels
Site 4	6/15/2021	9:57 AM	18.73	18.11	15.97	26.42	26.45	26.95	8.25	8.25	7.63	8.62	9.75	8.02	110.2	121.1	94.8	1.1	5.26	23.6		1	<1							1	3	5	6	4	SE	2.5	3	0.0	nh	pj	pj	clear surface conditions, % SAT fluctuated at 1 m
Site 4	6/21/2021	10:48 AM	21.66	21.65	16.90	26.23	26.29	26.88	8.24	8.24	7.90	8.53	8.81	8.18	114.2	117.9	99.7	1.3	6.96	23.7		5	<1							0	2	5	6	4	S	4.7	3	0.5	nh	pj	pj	clear surface conditions
Site 4	6/28/2021	10:07 AM	20.26	20.23	18.63	26.56	26.60	26.80	7.83	7.83	7.65	7.64	7.67	6.57	98.0	98.5	81.2	1.4	4.82	28.3		5	1							0	4	5	6	1	SW	2.1	1	0.0	nh	pj	pj	clear surface conditions
Site 4	7/6/2021	10:57 AM	21.06	20.96	18.58	26.69	26.74	27.21	**no pH data, sensor unopera**			6.54	7.10	7.06	87.3	93.6	87.3	1.6	6.85	29.0		<1	<1							0	2	5	6	1	SW	2.0	1	0.0	nh	pj	pj	clear surface conditions
Site 4	7/12/2021	9:03 AM	22.68	22.54	20.88	25.44	25.46	26.25	7.85	7.82	7.56	7.05	7.68	7.10	96.6	103.3	92.2	1.1	5.21	25.0		2	<1							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 4	7/19/2021	10:38 AM	24.75	24.74	23.95	26.04	25.99	26.16	8.13	8.12	7.75	7.08	8.39	8.04	102.8	108.8	108.2	0.7	6.20	23.0		2	<1							0	2	5	6	4	NW	1.7	3	0.0	nh	pj	pj	clear surface conditions
Site 4	7/26/2021	8:50 AM	23.51	23.48	21.79	25.68	25.79	26.44	7.76	7.77	7.51	5.76	5.99	5.41	79.1	82.4	71.7	1.7	4.99	24.0		2	<1							2	4	5	6	2	0	0.0	2	0.0	nh	pj	pj	clear surface conditions
Site 4	8/2/2021	10:51 AM	23.43	23.37	22.14	25.83	25.81	26.36	**no pH data, sensor unopera**			6.81	7.05	5.53	94.6	96.6	74.2	1.5	6.13	22.2		<1	<1							0	2	5	6	1	NW	3.8	1	0.5	nh	pj	pj	clear surface conditions
Site 4	8/9/2021	9:06 AM	22.55	22.54	22.32	26.49	26.55	26.70	7.67	7.67	7.62	5.48	5.35	4.95	73.2	71.8	66.1	1.8	5.63	22.0		5	<1							1	4	5	6	4	NE	3.4	3	0.0	nh	pj	pj	clear surface conditions
Site 4	8/24/2021	8:57 AM	24.01	23.99	23.63	25.80	25.84	26.20	7.76	7.76	7.60	5.77	6.09	5.64	80.2	84.4	77.2	1.4	5.25	23.8		7	<1							1	4	4	6	1	W	7.0	1	0.0	es	pj	pj	clear surface conditions
Site 4	8/31/2021	9:56 AM	24.90	24.83	22.91	26.17	26.28	27.10	pH sensor broken			6.25	7.91	7.00	91.2	114.2	91.3	1.0	6.30	23.8		<1	<1							1	2	5	6	3	NW	5.0	3	0.0	es	pj	pj	clear surface conditions
Site 4	9/7/2021	9:10 AM	23.15	23.13	23.05	25.56	25.58	25.65	pH sensor broken			6.57	6.50	6.27	89.0	88.0	84.8	2.1	6.30	18.8		2	<1							0	4	4	6	0	WNW	8.0	1	0.0	es	pj	pj	clear surface conditions
Site 4	9/13/2021	10:42 AM	23.23	23.23	23.04	25.36	25.36	25.41	pH sensor broken			8.3	8.95	9.10	114.3	121.3	121.7	1.1	5.12	26.1		1	<1							0	2	5	6	1	NW	10.0	1	1.5	fb	pj	pj	clear surface conditions
Site 4	9/21/2021	9:46 AM	22.95	22.92	22.85	26.04	26.03	26.08	pH sensor broken			7.56	7.67	7.62	100.9	102.1	101	1.5	6.63	17.7		1	<1							0	4	5	6	2	E	6.0	2	0.0	fb	pj	pj	clear surface condition
Site 4	10/4/2021	10:49 AM	21.16	21.16	21.16	25.97	25.99	25.96	pH sensor broken			7.70	7.68	7.67	100.5	100.4	100.30	2.2	7.79	18.8										>1	2	5	6	4	ENE	12.0	3	1.0	es	pj	pj	clear surface conditions
Site 4	10/11/2021	10:15 AM	20.01	20.01	20.35	26.02	26.05	26.42	pH sensor broken			6.83	8.76	6.55	86.7	86.0	84.00	2.2	5.53	17.7										1	4	5	6	4	NE	15.0	3	1.5	fb	pj	pj	clear surface conditions
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Friends of the Bay 2021 Water Quality Data - Site 5, Plum Point

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 5	4/19/2021	10:17 AM	10.38	10.46	10.16	26.42	26.53	26.58	8.22	8.22	8.23	10.34	10.48	10.69	109.9	111.4	113.1	1.9	4.68	14.6		<1	<1							0	3	5	6	1	N	1.2	1	0.5	nh	pj	pj	clear surface conditions, more jellyfish orange centers
Site 5	4/26/2021	**heavy wind and wave action**																																								
Site 5	5/3/2021	10:19 AM	11.7	11.70	11.65	25.95	25.94	25.98	8.02	8.03	8.03	9.1	9.11	9.13	99.1	99.4	99.4	2	4.47	16.5		2	<1							0	2	5	6	4	SE	1.0	3	0.5	nh	pj	pj	clear surface conditions
Site 5	5/10/2021	9:18 AM	11.58	11.53	11.32	26.13	26.15	26.27	7.98	7.98	7.96	9.05	9.08	8.99	98.7	98.9	97.4	2.4	6.83	12.7		<1	<1							2	4	5	6	4	N	1.2	3	0.0	nh	pj	pj	clear surface conditions
Site 5	5/17/2021	9:41 AM	14.73	14.71	14.66	26.28	26.39	26.32	7.91	7.91	7.91	8.56	8.59	8.61	98.5	98.7	98.8	1.9	5.25	27.1		3	<1							0	3	5	6	0	NW	1.5	1	0.0	nh	pj	pj	clear surface conditions
Site 5	5/24/2021	9:08 AM	16.57	16.63	16.36	26.28	26.27	26.31	8.03	8.02	8.01	8.93	9.05	9.17	106.7	108.2	108.9	1.6	2.95	17.8		1	2							0	4	5	6	4	SE	3.2	3	0.5	nh	pj	pj	clear surface conditions
Site 5	6/1/2021	10:07 AM	14.58	14.59	14.3	25.95	26.01	26.19	7.83	7.83	7.82	8.16	8.14	8.04	93.2	93.0	91.4	1.6	4.85	18.3		<1	1							0	2	5	6	4	N	2.1	3	0.0	nh	pj	pj	clear surface conditions
Site 5	6/7/2021	10:27 AM	18.97	18.31	17.58	26.16	26.21	26.17	8.09	8.04	7.92	9.38	9.78	8.99	118.5	121.1	109.8	1.7	2.87	27.2		1	<1							0	4	5	6	1	NE	1.3	1	0.0	nh	pj	pj	clear surface conditions, % SAT at top of range at top and 1m levels
Site 5	6/15/2021	9:48 AM	18.19	18.22	17.97	26.59	26.61	26.67	8.06	8.06	8.04	8.27	8.59	8.68	103.3	106.5	106.7	1.0	7.57	24.1		1	1							1	3	5	6	4	N	2.8	3	0.0	nh	pj	pj	clear surface conditions
Site 5	6/21/2021	10:34 AM	20.02	20.39	18.94	26.33	26.44	26.58	8.15	8.12	8.07	8.42	8.56	8.05	111.4	111.1	102.1	1.1	3.93	25.7		5	4							0	2	5	6	4	S	3.4	3	0.5	nh	pj	pj	clear surface conditions
Site 5	6/28/2021	9:49 AM	20.36	19.88	19.79	26.66	26.82	26.70	7.70	7.69	7.69	6.73	6.64	6.43	86.5	83.9	81.7	1.0	2.58	28.0		3	<1							0	4	5	6	0	SW	1.0	1	0.0	nh	pj	pj	clear surface conditions
Site 5	7/6/2021	10:46 AM	19.78	19.27	18.86	27.03	27.09	27.14	**no pH data, sensor unoperative**			5.53	5.70	5.26	71.3	72.6	66.5	1.2	12.42	28.0		7	1							0	2	5	6	1	SW	1.7	1	0.0	nh	pj	pj	clear surface conditions
Site 5	7/12/2021	8:53 AM	22.47	22.17	21.94	25.57	25.69	25.82	7.63	7.59	7.57	6.05	6.11	5.92	81.0	81.1	78.1	1.0	4.70	25.0		4	<1							1	4	5	6	4	SW	1.0	2	0.0	nh	pj	pj	clear surface conditions
Site 5	7/19/2021	10:29 AM	24.21	24.18	24.01	26.15	26.11	26.18	7.80	7.80	7.76	5.98	5.94	5.79	82.5	82.3	80.0	1.2	1.95	23.0		2	<1							0	2	5	6	4	NW	2.1	3	0.0	nh	pj	pj	clear surface conditions
Site 5	7/26/2021	9:41 AM	23.65	23.45	**too shallow**	25.88	26.02	**too shallo**	7.77	7.75	**too shallow**	6.37	6.36	**too shallow**	87.6	86.9	**too shallow**		1.65	24.0		5	6							2	4	5	6	2	W	0.5	2	0.0	nh	pj	pj	clear surface conditions, Secchi hit BTM before disappearing
Site 5	8/2/2021	10:41 AM	22.52	22.44	22.42	26.19	26.24	26.24	**no pH data, sensor unoperative**			5.46	5.26	5.07	73.8	70.2	68.2	1.5	2.13	22.2		1	<1							0	2	5	6	1	NW	2.1	1	0.5	nh	pj	pj	clear surface conditions
Site 5	8/9/2021	8:53 AM	22.72	22.72	22.75	26.40	26.46	26.48	7.66	7.66	7.67	5.84	5.64	5.44	77.5	75.7	73.1	1.4	5.96	22.0		9	9							1	4	5	6	4	N	3.0	3	0.5	nh	pj	pj	clear surface conditions
Site 5	8/24/2021	8:48 AM	23.87	23.87	23.77	25.96	26.07	26.17	7.59	7.59	7.58	4.97	4.89	4.69	67.9	67.4	64.6	1.3	8.63	23.8		29	9							1	4	4	6	1	W	7.0	1	0.0	es	pj	pj	clear surface, DO top of hypoxic range, all depths
Site 5	8/31/2021	9:47AM	24.48	24.50	23.97	26.40	26.43	26.63	pH sensor broken			7.24	7.38	6.62	101.4	103.4	90.0	1.2	5.52	23.8		<1	<1							1	2	5	6	3	NW	5.0	3	0.0	es	pj	pj	clear surface conditions
Site 5	9/7/2021	8:59 AM	22.74	22.74	22.99	25.29	25.31	25.47	pH sensor broken			6.03	5.81	5.63	80.1	78.0	76.0	1.8	8.11	18.8		1	1							0	4	4	6	0	W	7.0	1	0.0	es	pj	pj	clear surface conditions
Site 5	9/13/2021	10:29 AM	23.11	23.10	23.04	25.43	25.46	25.44	pH sensor broken			7.62	7.68	7.69	102.8	103.4	103.4	1.5	11.5	26.1		2	<1							0	2	5	6	0	NW	11.0	1	0.5	fb	pj	pj	clear surface conditions
Site 5	9/21/2021	9:35 AM	22.94	22.84	22.68	26.04	26.07	26.29	pH sensor broken			7.3	7.32	6.87	97.3	97.3	90.5	1.4	2.43	17.7		2	<1							0	4	5	6	4	E	6.0	3	0.0	fb	pj	pj	clear surface conditions
Site 5	10/4/2021	10:37 AM	21.1	21.10	21.1	25.91	25.93	25.93	pH sensor broken			7.55	7.51	7.51	98.4	98.0	98.0	2.5	3.47	18.8										>1	1	5	6	4	ENE	11.0	3	2.5	es	pj	pj	clear surface conditions
Site 5	10/11/2021	10:04 AM	20.01	20.01	too shallov	26.05	26.05	too shallo	pH sensor broken			7.1	7.04	too shallov	90.3	89.5	too shallov	0.8	1.4	17.7										1	3	5	6	4	NE	16.0	3	1.0	fb	pj	pj	clear surface conditions
Site 5																																										
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Friends of the Bay 2021 - Site 6, Seawanhaka Yacht Club PSTP Outfall

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Floor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTION	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 6	4/19/2021	10:05 AM	11.62	10.83	10.33	26.24	26.26	26.44	8.19	8.20	8.21	10.53	10.60	10.79	114.6	114.3	114.3	1.9	5.18	15.3		<1	<1							0	3	5	6	1	N	1.7	1	0.0	nh	pj	pj	clear surface conditions
Site 6	4/26/2021	9:37 AM	9.99	9.99	9.46	25.72	25.74	25.79	8.13	8.13	8.16	9.48	9.46	9.60	98.9	98.6	99.2	2.3	7.61	12.6		<1	<1							1	4	5	6	1	NW	2.5	1	1.0	nh	pj	pj	choppy
Site 6	5/3/2021	10:04 AM	11.75	11.74	11.62	25.93	25.98	26.00	8.04	8.04	8.03	9.08	9.17	9.22	99.2	100.0	100.3	2.2	5.1	16.2		<1	<1							0	2	5	6	4	SE	2.0	3	0.0	nh	pj	pj	clear surface conditions
Site 6	5/10/2021	9:08 AM	11.92	11.66	11.36	26.03	26.1	26.22	7.94	7.95	7.95	8.60	8.74	8.80	94.5	95.4	95.6	2.1	6.44	13.0		<1	9							2	4	5	6	4	N	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 6	5/17/2021	9:30 AM	14.84	14.78	14.39	26.33	26.36	26.41	7.91	7.91	7.90	8.55	8.63	8.66	98.6	99.4	98.8	2.5	4.87	22.6		<1	<1							0	2	5	6	0	W	1.2	1	0.0	nh	pj	pj	clear surface conditions, 2 osprey with fish
Site 6	5/24/2021	8:59 AM	17.27	17.27	17.24	26.25	26.25	26.23	8.01	8.00	8.00	8.81	8.85	8.91	106.7	107.0	107.6	1.5	6.88	17.4		<1	7							0	4	5	6	4	SE	3.9	3	0.5	nh	pj	pj	clear surface conditions
Site 6	6/1/2021	9:58 AM	14.9	14.88	14.6	25.87	25.92	26.01	7.84	7.84	7.83	8.27	8.29	8.28	95.1	95.1	94.5	1.8	5.17	24.2		<1	<1							0	2	5	6	3	SW	1.1	2	0.0	nh	pj	pj	clear surface conditions
Site 6	6/7/2021	10:18 AM	19.11	18.58	17.48	26.21	26.31	26.31	8.04	8.05	7.88	9.14	9.53	9.19	115.9	119.1	111.9	1.9	6.35	32.2		<1	<1							0	4	5	6	1	SW	0.9	1	0.0	nh	pj	pj	clear surface conditions, % SAT at top of range at top and 1m levels
Site 6	6/15/2021	9:39 AM	18.63	18.18	17.84	26.62	26.58	26.71	8.05	8.06	8.01	8.35	8.69	8.79	105.0	107.9	108.3	1.1	5.06	24.6		1	<1							1	3	5	6	3	W	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 6	6/21/2021	10:25 AM	21.43	21.43	20.83	26.30	26.30	26.46	8.18	8.19	8.07	8.20	8.69	8.70	110.9	115.9	112.3	1.3	6.90	23.8		5	<1							0	2	5	6	4	S	4.2	3	0.5	nh	pj	pj	clear surface conditions
Site 6	6/28/2021	9:35 AM	20.78	20.70	20.56	26.62	26.58	26.59	7.72	7.72	7.72	6.62	6.61	6.61	85.7	85.5	85.3	1.1	4.35	27.7		2	<1							0	3	5	6	0	SW	1.3	1	0.0	nh	pj	pj	clear surface conditions
Site 6	7/6/2021	10:33 AM	20.69	20.54	19.16	26.76	26.77	27.07	**no pH data, sensor unoperative**			6.70	6.85	6.09	87.8	89.3	76.9	1.4	7.12	28.0		1	<1							0	1	5	6	1	SW	2.5	1	0.0	nh	pj	pj	clear surface conditions
Site 6	7/12/2021	8:45 AM	22.67	22.64	21.82	25.40	25.42	25.83	7.64	7.63	7.53	6.47	6.45	5.99	86.7	86.0	78.8	1.1	4.94	25.0		1	3							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 6	7/19/2021	10:20 AM	24.45	24.38	24.17	26.05	26.06	26.11	7.91	7.89	7.79	6.68	6.98	6.77	93.0	97.3	92.9	1.0	6.21	23.0		4	<1							0	2	5	6	4	NW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 6	7/26/2021	8:32 AM	23.90	23.82	23.72	25.83	25.88	25.93	7.78	7.77	7.76	6.36	6.36	6.27	87.8	87.6	86.1	1.6	4.50	23.0		5	6							2	3	5	6	3	W	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 6	8/2/2021	10:32 AM	23.17	23.13	22.59	25.99	26.00	26.19	**no pH data, sensor unoperative**			5.85	6.01	5.53	80.2	82.1	74.5	1.8	6.19	22.2		1	<1							0	2	5	6	1	NW	2.6	1	0.5	nh	pj	pj	clear surface conditions
Site 6	8/9/2021	8:43 AM	22.91	22.90	22.77	26.26	26.36	26.49	7.68	7.68	7.67	6.12	5.89	5.67	82.4	79.3	76.2	1.6	5.16	22.0		4	3							1	4	5	6	4	NE	1.5	3	0.0	nh	pj	pj	clear surface conditions
Site 6	8/24/2021	8:40 AM	24.09	24.03	23.77	25.79	25.89	26.18	7.59	7.57	7.54	5.21	5.02	4.61	71.5	69.3	63.2	1.6	5.05	23.8		7	<1							1	4	4	6	0	W	7.0	1	0.0	es	pj	pj	clear surface conditions
Site 6	8/31/2021	9:38AM	24.56	24.54	23.69	26.34	26.38	26.78	pH sensor broken			6.02	6.82	6.29	85.8	96.4	85.1	1.0	6.20	23.8		<1	<1							1	2	5	6	4	NW	5.0	3	0.0	kp	pj	pj	clear surface conditions
Site 6	9/7/2021	8:46 AM	23.13	23.13	23.15	25.50	25.49	25.54	pH sensor broken			6.26	6.19	6.06	84.6	83.9	82.2	1.3	6.09	17.7		2	1							0	4	4	6	0	W	7.0	1	0.0	es	pj	pj	clear surface conditions
Site 6	9/13/2021	10:16 AM	23.2	23.18	22.98	25.49	25.47	25.53	pH sensor broken			7.40	7.73	7.73	100.0	104.4	102.1	1.5	5.08	26.1		2	<1							0	2	5	6	2	NW	11.0	1	0.5	fb	pj	pj	clear surface conditions
Site 6	9/21/2021	9:25 AM	22.92	22.93	22.93	26.05	26.03	26.04	pH sensor broken			7.17	7.08	7.01	95.0	94.0	93.1	1.6	6.43	17.7		2	<1							0	4	5	6	2	E	6.0	2	0.0	fb	pj	pj	clear surface conditions
Site 6	10/4/2021	10:27 AM	21.06	21.07	21.01	25.92	25.93	25.89	pH sensor broken			7.48	7.47	7.46	97.5	97.5	97.0	2.1	7.51	18.8										1	1	5	6	4	ENE	11.0	4	1.5	es	pj	pj	clear surface conditions
Site 6	10/11/121	9:56 AM	19.96	19.96	20.02	25.92	25.95	26.12	pH sensor broken			6.84	6.73	6.59	86.5	85.3	83.6	2.0	5.27	17.7										1	3	5	6	4	NE	17.0	3	0.5	fb	pj	pj	clear surface conditions
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Friends of the Bay 2021 Water Quality Data - Site 7, Oyster Bay Cove

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTION	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 7	4/19/21	9:53 AM	11.07	10.93	10.50	26.29	26.30	26.30	8.18	8.18	8.17	9.85	10.04	10.21	105.9	107.7	108.4	1.8	2.01	19.9		<1	<1							0	3	5	6	0	NW	1	1	0.0	nh	pj	pj	clear surface conditions
Site 7	4/26/21	11:31 AM	10.52	10.51	10.52	25.32	25.30	25.42	8.10	8.09	8.10	9.22	9.18	9.15	97.0	96.6	96.5	1.4	3.76	11.5		1	1							1	1	5	6	0	NW	4	1	1.5	nh	pj	pj	choppy
Site 7	5/3/21	9:52 AM	12.51	12.38	11.99	25.73	25.82	25.85	7.93	7.92	7.98	8.59	8.56	8.55	95.2	94.3	93.7	2.1	2.33	15.8		2	<1							0	2	5	6	4	NW	2.3	3	0.0	nh	pj	pj	clear surface conditions
Site 7	5/10/21	8:54 AM	12.28	12.28	12.25	25.96	25.98	25.96	7.94	7.94	7.93	9.00	8.95	8.88	99.5	98.9	98.0	2.1	3.09	12.6		2	5							2	4	5	6	4	NW	1.9	3	0.5	nh	pj	pj	clear surface conditions
Site 7	5/17/21	**too shallow**																																								
Site 7	5/24/21	8:47 AM	18.50	18.36	18.01	25.91	26.23	26.20	7.85	7.89	7.91	8.15	8.06	8.23	100.7	99.0	101.0	1.3	3.89	18.5		18	6							0	4	5	6	4	E	3.4	3	0.5	nh	pj	pj	clear surface conditions
Site 7	6/1/21	**too shallow**																																								
Site 7	6/7/21	10:02 AM	19.01	18.64	18.23	26.06	26.09	26.05	7.96	7.98	7.94	8.69	8.98	9.18	109.9	111.9	113.6	1.3	3.46	31.7		10	1							0	4	5	6	1	SE	1.3	1	0.0	nh	pj	pj	clear surface conditions, %SAT all depths top of range
Site 7	6/15/21	9:25 AM	18.17	18.14	**too shallov**	26.36	26.42	**too shallov**	7.84	7.85	**too shallov**	7.27	7.25	**too sha**	90.0	89.7	**too sha**	1.1	1.78	24.7		54	11							1	2	5	6	4	N	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 7	6/21/21	10:12 AM	21.62	21.49	21.19	26.30	26.21	26.27	8.06	8.07	8.03	7.71	7.78	7.81	102.5	103.8	103.0	1.0	3.79	24.2		11	<1							0	2	5	6	4	S	3.7	3	0.5	nh	pj	pj	clear surface conditions
Site 7	6/28/21	**too shallow, low tide**						**too shallow, low tide**									**too shallow, low tide**																									
Site 7	7/6/21	10:14 AM	21.66	21.50	20.63	26.54	26.51	26.58	**no pH data, sensor unoperative**			6.64	7.05	7.07	88.6	93.6	91.0	1.4	3.25	28.0		<1	<1							0	1	5	6	1	SW	1.0	1	0.0	nh	pj	pj	clear surface conditions
Site 7	7/12/21	10:02 AM	23.71	23.58	23.13	25.16	25.17	25.30	7.79	7.79	7.72	7.12	7.42	7.42	97.3	101.1	99.9	1.2	2.13	25.0		3	<1							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 7	7/19/21	10:10 AM	24.82	24.76	24.51	24.99	25.78	25.97	7.69	7.76	7.64	5.79	5.99	5.90	81.0	84.0	80.9	0.9	3.13	23.0		5	1							0	2	5	6	4	NW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 7	7/26/21	**too shallow, low tide**																																								
Site 7	8/2/21	10:17 AM	23.28	23.28	23.27	25.72	25.73	25.75	**no pH data, sensor unoperative**			5.55	5.23	5.07	74.9	71.1	69.1	1.3	2.42	22.2		5	<1							0	2	5	6	1	NW	3.9	1	0.5	nh	pj	pj	clear surface conditions
Site 7	8/9/21	10:14 AM	23.08	23.03	23.01	26.13	26.16	26.16	7.72	7.73	7.71	5.94	5.96	5.99	80.1	80.6	80.8	1.6	3.20	22.0		5	7							1	4	5	6	3	NE	3.2	2	0.0	nh	pj	pj	clear surface conditions
Site 7	8/24/21	9:59 AM	24.37	24.37	24.39	25.65	25.62	25.62	7.58	7.58	7.59	5.76	5.54	5.41	79.5	76.6	75.2	1.4	2.22	25.5		25	3							1	4	4	6	0	w	8.0	1	0.0	es	pj	pj	clear surface conditions
Site 7	8/31/21	9:23AM	24.55	24.54	24.25	26.18	26.22	26.44	pH sensor broken			6.07	6.09	5.52	85.1	84.9	76.3	1.1	2.99	23.8		7	<1							1	2	5	6	4	NW	5.0	3	0.0	kp	pj	pj	clear surface conditions
Site 7	9/7/21	8:34 AM	22.79	22.79	22.88	25.05	25.05	25.17	pH sensor broken			6.46	6.06	5.94	86.6	81.3	79.9	0.8	2.15	17.7		18	5							0	4	4	6	0	NNW	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 7	9/13/21	10:04 AM	23.33	23.27	23.25	24.46	24.58	24.69	pH sensor broken			7.86	7.97	8.25	106.2	107.2	111.1	0.9	1.76	26.1		20	4							0	2	4	6	2	NW	10.0	3	0.5	fb	pj	pj	clear surface conditions
Site 7	9/21/21	9:11 AM	22.15	22.14	22.07	25.66	25.64	25.62	pH sensor broken			7.81	7.81	7.79	102.1	102.2	101.8	1.2	2.69	17.7		5	<1							0	4	5	6	4	E	6.0	3	0.0	fb	pj	pj	clear surface conditions
Site 7	10/4/21	10:16 AM	20.80	20.80	20.81	25.69	25.68	25.71	pH sensor broken			7.21	7.11	7.04	93.1	92.1	91.1	1.7	3.81	18.8										>1	4	5	6	4	ENE	10	3	1.5	es	pj	pj	clear surface conditions
Site 7	10/11/21	9:36 AM	19.52	19.69	19.78	25.43	25.67	25.71	pH sensor broken			5.76	5.74	5.80	72.5	72.5	73.5	1.4	2.13	17.2										1	3	5	6	4	NE	16.0	3	0.5	fb	pj	pj	clear surface conditions
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Friends of the Bay 2020 Water Quality Data - Site 8, Oyster Bay STP at White's Creek

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 8	4/19/2021	9:36 AM	10.49	10.10	10.00	26.48	25.35	26.49	8.16	8.16	8.18	10.20	10.30	10.30	108.2	108.3	108.2	2.1	2.15	15.8		2	1							0	2	5	6	0	NW	1.7	1	0.0	nh	pj	pj	clear surface conditions
Site 8	4/26/2021	**high winds, anchor wouldn't set**																																								
Site 8	5/3/2021	9:42 AM	12.01	12.00	11.90	25.77	25.82	25.90	7.97	7.97	7.97	8.71	8.71	8.70	95.4	95.4	95.1	2	2.18	16.1		1	<1							0	2	5	6	4	S	0.9	3	0.5	nh	pj	pj	clear surface conditions
Site 8	5/10/2021	8:41 AM	12.18	12.23	12.18	25.66	25.80	25.93	7.90	7.91	7.92	8.81	8.77	8.77	97.0	96.9	96.8	2.2	3.14	11.8		16	15							2	4	5	6	4	N	4.0	3	0.5	nh	pj	pj	clear surface conditions
Site 8	5/17/2021	9:16 AM	15.02	14.92	14.76	26.15	26.14	26.32	7.83	7.83	7.85	8.21	8.25	8.21	94.9	95.0	94.3		1.94	20.9		5	1							0	2	5	6	0	E	0.4	1	0.0	nh	pj	pj	clear surface conditions, Secchi hit bottom before disappearing
Site 8	5/24/2021	8:35 AM	18.30	18.29	18.06	25.88	26.00	26.18	7.89	7.89	7.88	8.30	8.28	8.28	102.0	101.8	101.5	1.2	3.76	18.6		9	8							0	4	5	6	4	SE	2.4	3	0.0	nh	pj	pj	clear surface conditions
Site 8	6/1/2021	9:42 AM	15.19	15.02	14.76	25.73	25.73	25.81	7.83	7.79	7.76	8.27	8.31	8.09	95.6	94.4	92.7	1.8	2.0	23.1		1	<1							0	2	5	6	3	E	0.4	2	0.0	nh	pj	pj	clear surface conditions
Site 8	6/7/2021	9:50 AM	18.52	18.47	17.94	26.15	26.18	26.15	7.94	7.95	7.86	8.78	8.96	8.88	109.5	111.5	109.0	1.3	4.02	30.5		5	<1							0	4	5	6	1	SW	2.0	1	0.0	nh	pj	pj	clear surface condition, % SAT top of range at all depths
Site 8	6/15/2021	9:11 AM	18.46	18.25	18.21	26.44	26.49	26.46	8.04	8.06	8.04	8.39	8.69	8.83	104.4	108.0	109.6	1.0	2.12	23.8		13	3							1	2	5	6	4	N	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 8	6/21/2021	9:52 AM	21.47	21.28	20.83	26.16	26.28	26.32	8.07	8.06	8.07	7.66	7.88	7.86	102.7	104.4	103.2	1.0	3.89	24.3		8	7							0	2	5	6	4	S	4.3	3	0.5	nh	pj	pj	clear surface conditions
Site 8	6/28/2021	**too shallow, low tide**						**too shallow, low tide**									**too shallow, low tide**																								
Site 8	7/6/2021	10:01 AM	20.71	20.68	19.62	26.56	26.62	26.83	**no pH data, sensor unoperative**			5.79	5.77	5.51	75.5	75.2	70.3	1.3	4.13	27.0		13	2							0	1	5	6	1	SW	3.2	1	0.0	nh	pj	pj	clear surface conditions
Site 8	7/12/2021	8:28 AM	22.66	22.57	**too shallo**	25.10	25.38	**too shallo**	7.63	7.59	**too shallo**	6.82	6.56	**too shallo**	91.4	87.6	**too shallo**	0.9	1.74	23.3		44	13							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 8	7/19/2021	9:54 AM	24.64	24.57	24.40	25.74	25.78	26.08	7.68	7.67	7.62	5.59	5.62	5.28	78.1	78.1	73.1	1.2	3.41	23.0		14	4							0	2	5	6	4	NW	0.0	3	0.0	nh	pj	pj	clear surface conditions
Site 8	7/26/2021	8:17 AM	23.91	23.75	**too shallo**	25.75	25.92	**too shallo**	7.73	7.68	**too shallo**	6.30	6.20	**too shallo**	86.7	85.1	**too shallow**		1.70	23.0		9	9							2	3	5	6	3	0	0.0	3	0.0	nh	pj	pj	clear surface conditions, Secchi hit BTM before disappearing
Site 8	8/2/2021	10:05 AM	23.20	23.19	23.10	25.70	25.71	25.76	**no pH data, sensor unoperative**			5.73	5.53	5.33	77.2	75.0	72.2	1.5	3.13	21.1		7	4							0	2	5	6	1	NW	4.4	1	0.5	nh	pj	pj	clear surface conditions
Site 8	8/9/2021	10:33 AM	23.06	23.09	22.98	26.07	26.09	26.23	7.74	7.75	7.70	6.35	6.34	6.13	85.6	85.7	82.5	1.4	3.32	22.0		12	8							1	4	5	6	3	NE	2.8	2	0.0	nh	pj	pj	clear surface conditions
Site 8	8/24/2021	8:25 AM	24.09	24.06	23.98	25.62	25.61	25.68	7.63	7.61	7.58	5.98	5.81	5.44	82.5	79.4	74.8	1.7	2.04	23.8		17	4							1	4	4	6	1	w	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 8	8/31/2021	9:11AM	24.57	24.55	24.32	26.24	26.29	26.41	pH sensor broken			6.08	6.11	4.95	84.9	85.4	68.2	1.2	3.30	22.7		6	1							1	2	5	6	4	nw	5.0	3	0.0	kp	pj	pj	clear surface conditions
Site 8	9/7/2021	8:17 AM	22.96	22.96	22.96	25.38	25.39	28.38	pH sensor broken			6.61	6.36	6.11	89.1	85.6	82.5	1.1	2.49	17.7		12	3							0	4	4	6	0	w	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 8	9/13/2021	9:47 AM	23.13	23.11	23.07	25.24	25.28	25.33	pH sensor broken			7.83	7.82	7.75	105.4	105.2	104.0	1.4	2.02	26.1		1	<1							0	2	4	6	3	w	10.0	2	0.5	fb	pj	pj	clear surface conditions
Site 8	9/21/2021	8:58 AM	22.60	22.63	22.63	25.78	25.77	25.81	pH sensor broken			7.67	7.55	7.46	101.2	99.6	98.5	1.3	2.63	17.7		4	<1							0	4	5	6	4	E	6.0	3	0.0	fb	pj	pj	clear surface conditions
Site 8	10/4/2021	10:04 AM	20.75	20.75	20.75	25.63	25.62	25.65	pH sensor broken			7.27	7.19	7.05	94.1	92.8	91.2	1.7	4.25	18.8										<1	4	5	6	4	ENE	7.0	3	1.5	es	pj	pj	clear surface conditions
Site 8	10/11/2021	9:24 AM	19.51	19.53	19.54	25.53	25.60	25.57	pH sensor broken			7.13	6.93	6.78	89.0	86.7	85.3	1.8	2.06	17.2										1	3	5	6	4	NE	16.0	3	1.5	fb	pj	pj	clear surface conditions
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Friends of the Bay 2021 Water Quality Data - Site 9, Roosevelt Beach

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 9	4/19/2021	9:20 AM	10.09	10.10	10.10	26.42	26.34	26.35	8.17	8.17	8.17	10.1	10.2	10.28	106.6	107.5	108.3	1.9	2.14	19.9		1	<1							0	2	5	6	0	0	0.0	1	0.0	nh	pj	pj	clear surface conditions
Site 9	4/26/2021	9:15 AM	10.58	10.60	10.49	25.54	25.54	25.52	8.09	8.08	8.08	9.11	9.03	9.01	96.1	95.3	95.0	2.4	3.56	7.4		<1	<1							1	4	5	6	1	NW	6.3	1	1.0	nh	pj	pj	choppy
Site 9	5/3/2021	9:31 AM	11.93	11.89	11.87	25.90	25.85	25.85	7.98	7.98	7.98	8.69	8.67	8.65	95.1	94.9	94.6	2.1	2.37	14.9		<1	<1							0	2	5	6	4	E	2.7	3	0.5	nh	pj	pj	clear surface conditions
Site 9	5/10/2021	8:24 AM	12.27	12.28	12.27	25.95	25.92	25.92	7.92	7.92	7.92	8.81	8.76	8.73	97.3	96.8	96.5	2.6	2.79	11.2		<1	1							2	4	5	6	4	NW	3.0	3	1.0	nh	pj	pj	clear surface conditions
Site 9	5/17/2021	9:03 AM	14.95	14.88	**too shallo**	26.27	26.25	**too shallo**	7.86	7.86	**too shallo**	8.4	8.41	**too shallo**	96.8	96.9	**too shallow**		1.83	21.9		2	<1							0	2	5	6	0	NW	1.0	1	0.0	nh	pj	pj	clear surface conditions, Secchi hit bottom before disappearing
Site 9	5/24/2021	8:23 AM	18.15	18.11	18.01	26.08	26.16	26.16	7.91	7.91	7.92	8.39	8.46	8.56	103.1	103.8	105.0	1.4	3.54	17.8		7	2							0	4	5	6	4	E	2.5	3	0.0	nh	pj	pj	clear surface conditions
Site 9	6/1/2021	9:31 AM	14.81	14.79	14.79	25.89	25.92	25.9	7.78	7.78	7.78	7.71	7.67	7.62	88.4	87.9	87.3	1.8	2.12	21.8		3	1							0	2	5	6	4	0	0.0	3	0.0	nh	pj	pj	clear surface conditions
Site 9	6/7/2021	9:29 AM	18.53	18.22	17.91	26.15	26.17	26.07	7.92	7.92	7.88	8.63	8.79	8.79	107.5	108.6	107.9	1.4	3.58	31.6		6	2							0	4	5	6	1	SW	1.3	1	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 9	6/15/2021	8:56 AM	19.02	18.73	18.70	26.42	26.49	26.48	8.09	8.06	8.05	8.53	8.90	8.90	108.0	111.1	111.3	1.0	1.88	23.8		2	<1							1	2	5	6	4	NW	1.4	3	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 9	6/21/2021	9:39 AM	21.76	21.72	20.81	26.15	26.16	26.31	8.05	8.05	8.06	7.70	7.77	7.78	103.0	103.7	102.1	1.0	3.91	24.5		13	3							0	2	5	6	4	S	2.7	3	0.5	nh	pj	pj	clear surface conditions
Site 9	6/28/2021	9:11 AM	21.80	21.77	**too shallo**	26.50	26.46	**too shallo**	7.70	7.70	**too shallo**	6.56	6.56	**too shallo**	86.5	86.4	**too shallo**	1.1	1.43	28.0		1	1							0	3	5	6	1	SW	1.7	1	0.0	nh	pj	pj	clear surface conditions
Site 9	7/6/2021	9:48 AM	21.20	20.72	19.55	26.39	26.54	26.86	**no pH data, sensor unoperative**			6.15	6.45	5.84	81.5	84.3	74.2	1.4	4.63	27.0		4	2							0	1	5	6	1	SW	2.6	1	0.0	nh	pj	pj	clear surface conditions
Site 9	7/12/2021	8:16 AM	23.61	23.01	**too shallo**	24.56	24.90	**too shallo**	7.77	7.61	**too shallo**	7.34	7.39	**too shallo**	99.9	95.7	**too shallo**	1.1	1.57	23.9		6	<1							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 9	7/19/2021	9:45 AM	24.89	24.71	24.51	25.80	25.81	25.86	7.70	7.66	7.57	5.80	5.81	4.97	81.1	80.9	68.8	1.2	3.38	23.0		16	<1							0	2	5	6	4	NW	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 9	7/26/2021	8:04 AM	23.73	**too shallo**	23.71	25.79	**too shallo**	25.87	7.67	**too shallo**	7.66	6.06	**too shallo**	5.69	82.6	**too shallo**	77.9		1.41	22.0		32	43							2	3	5	6	3	0	0.0	3	0.0	nh	pj	pj	clear surface conditions, Secchi hit BTM before disappearing
Site 9	8/2/2021	9:53 AM	23.48	23.39	23.29	25.68	25.79	25.73	**no pH data, sensor unoperative**			5.90	5.63	5.39	80.2	76.6	73.1	1.7	3.08	21.1		2	<1							0	2	5	6	1	NW	3.7	1	0.5	nh	pj	pj	clear surface conditions
Site 9	8/9/2021	8:24 AM	22.96	23.05	23.05	25.98	25.98	26.03	7.65	7.64	7.64	6.22	5.72	5.56	83.4	77.0	74.9	1.6	1.96	22.0		52	61							1	4	5	6	4	NE	2.3	3	0.0	nh	pj	pj	clear surface conditions
Site 9	8/24/2021	8:14 AM	24.10	24.09	**too shallo**	25.34	25.50	**too shallo**	7.57	7.54	**too shallo**	5.75	5.23	**too shallo**	78.5	71.5	**too shallo**	bottom	1.65	22.7		31	10							1	4	4	6	1	W	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 9	8/31/2021	9:02AM	25.19	25.20	24.84	25.86	25.90	26.08	pH sensor broken			7.05	7.26	7.22	99.6	102.9	100.6	1.1	3.20	22.7		1	1							1	2	5	6	4	NW	5.0	3	0.0	kp	pj	pj	clear surface conditions
Site 9	9/7/2021	7:54 AM	23.10	23.10	23.11	25.32	25.31	25.33	pH sensor broken			6.09	5.89	5.74	81.9	79.3	77.7	1.7	1.98	16.1		3	1							0	4	4	6	0	W	3.0	1	0.0	es	pj	pj	clear surface conditions
Site 9	9/13/2021	9:32 AM	23.09	23.09	23.1	25.16	25.14	25.17	pH sensor broken			7.74	7.75	7.74	104	104	104.0	1.6	2.06	26.1		3	4							0	2	5	6	2	W	10.0	2	1.0	fb	pj	pj	clear surface conditions
Site 9	9/21/2021	8:45 AM	22.90	22.90	22.86	25.75	25.74	25.74	pH sensor broken			7.37	7.24	7.12	97.2	95.8	94.3	1.7	2.24	16.1		<1	1							0	4	5	6	3	N	7.0	2	0.0	fb	pj	pj	clear surface conditions
Site 9	10/4/2021	9:54 AM	20.75	20.75	20.8	25.70	25.69	25.74	pH sensor broken			7.42	7.35	7.28	96.00	95.10	94.5	1.80	4.34	18.8										1	4	5	6	4	ENE	8.0	3	1.5	es	pj	pj	clear surface conditions
Site 9	10/11/2021	9:11 AM	19.22	19.22	19.22	25.30	25.34	25.30	pH sensor broken			6.80	6.78	6.77	85.00	84.60	84.5	1.90	1.89	17.2										1	3	5	6	4	NE	16.0	3	1.5	fb	pj	pj	clear surface conditions
Site 9																																										
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Friends of the Bay 2020 Water Quality Data - Site 10, Beekman Beach

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate (NO3)	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 10	4/19/2021	9:04 AM	10.48	10.34	10.07	26.21	26.36	26.38	8.17	8.18	8.16	10.16	10.24	10.32	107.9	108.4	108.5	1.8	4.36	18.2		<1	<1							0	2	5	6	0	0	0.0	1	0.0	nh	pj	pj	clear surface conditions
Site 10	4/26/2021	8:50 AM	10.64	10.63	10.62	25.35	25.42	25.37	8.04	8.05	8.05	8.82	8.79	8.75	93.2	92.7	92.4	1.7	4.97	8.9		3	1							1	4	5	6	0	NW	3.0	1	1.0	nh	pj	pj	choppy
Site 10	5/3/2021	9:21 AM	12.26	11.97	11.82	25.64	25.81	25.86	7.96	7.97	7.97	8.59	8.58	8.57	94.2	93.9	93.5	1.7	4.20	16.9		10	4							0	2	5	6	4	E	2.0	3	0.0	nh	pj	pj	pollen on surface
Site 10	5/10/2021	8:07 AM	12.21	12.4	12.38	25.00	25.3	25.78	7.90	7.91	7.89	8.81	8.71	8.69	96.5	96.0	96.2	0.3	4.74	10.9		34	20							2	4	5	6	4	NW	3.5	3	0.5	nh	pj	pj	clear surface conditions
Site 10	5/17/2021	8:51 AM	15.05	14.91	14.64	25.93	26.25	26.24	7.83	7.84	7.85	8.17	8.19	8.2	94.3	94.2	93.9	2.4	3.80	23.6		21	1							0	2	5	6	0	0	0.0	1	0.0	nh	pj	pj	clear surface conditions
Site 10	5/24/2021	8:07 AM	18.28	18.36	18.15	25.79	26.03	26.15	7.86	7.87	7.86	8.18	8.15	8.23	100.5	100.5	101.1	1.1	5.27	18.0		79	52							0	4	5	6	4	NE	1.9	3	0.0	nh	pj	pj	clear surface conditions
Site 10	6/1/2021	9:18 AM	15.07	14.98	14.72	25.41	25.67	25.83	7.77	7.77	7.77	7.84	7.83	7.74	90.1	89.9	88.5	1.6	4.20	21.2		7	1							0	2	5	6	4	SW	0.6	3	0.0	nh	pj	pj	clear surface conditions
Site 10	6/7/2021	9:18 AM	19.09	18.67	17.80	25.66	25.90	26.09	7.92	7.92	7.81	8.39	8.72	8.46	105.6	108.9	103.2	1.5	5.87	30.2		1	6							0	4	5	6	1	S	2.4	1	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 10	6/15/2021	8:43 AM	19.76	18.72	18.37	26.29	26.42	26.54	8.19	8.07	8.00	8.97	9.37	9.01	114.5	117.2	111.6	0.9	3.86	23.3		1	<1							1	2	5	6	4	NW	1.2	3	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 10	6/21/2021	9:28 AM	21.70	21.45	21.06	25.32	26.17	26.31	8.03	8.03	8.04	7.61	7.63	7.60	101.2	101.3	100.0	1.0	6.49	24.5		31	29							0	1	5	6	4	S	2.3	4	0.5	nh	pj	pj	clear surface conditions
Site 10	6/28/2021	8:46 AM	21.79	21.66	21.14	26.41	26.50	26.46	7.73	7.73	7.71	7.00	7.00	6.94	92.5	92.1	90.0	0.9	3.55	27.0		12	3							0	2	5	6	1	S	4.0	1	0.0	nh	pj	pj	clear surface conditions
Site 10	7/6/2021	9:36 AM	21.17	21.04	20.30	26.39	26.44	26.69	**no pH data, sensor**			5.80	5.87	5.44	76.4	77.1	70.4	1.3	1.30	26.0		3	<1							0	1	5	6	1	SW	2.8	1	0.0	nh	pj	pj	clear surface conditions
Site 10	7/12/2021	8:05 AM	23.80	23.71	23.43	24.16	24.59	24.61	7.83	7.82	7.76	7.71	7.83	7.84	104.8	106.4	105.7	1.0	3.96	23.9		20	9							1	3	5	6	2	SW	1.0	1	0.0	nh	pj	pj	clear surface conditions
Site 10	7/19/2021	9:27 AM	24.90	24.76	24.41	25.58	25.82	25.98	7.65	7.64	7.62	5.23	5.27	5.05	73.3	73.5	70.0	1.1	5.64	22.0		25	11							0	2	5	6	4	NW	1.2	3	0.0	nh	pj	pj	clear surface conditions
Site 10	7/26/2021	7:52 AM	24.52	24.52	23.98	25.49	25.52	25.62	7.74	7.74	7.71	6.46	6.45	6.36	89.9	89.8	87.6	1.3	3.83	22.0		8	8							2	3	5	6	3	0	0.0	3	0.0	nh	pj	pj	clear surface conditions
Site 10	8/2/2021	9:39 AM	23.50	23.56	23.20	25.34	25.50	25.85	**no pH data, sensor**			5.33	5.46	5.38	72.9	75.2	72.6	1.3	5.65	21.1		7	3							0	2	5	6	1	NW	3.9	1	0.5	nh	pj	pj	clear surface conditions
Site 10	8/9/2021	8:07 AM	22.79	23.01	23.29	22.80	25.22	26.10	7.67	7.66	7.67	6.46	6.24	6.01	84.7	83.8	81.2	1.2	3.73	22.0		150	120							1	4	5	6	4	NE	4.2	3	0.5	nh	pj	pj	clear surface conditions
Site 10	8/24/2021	8:03 AM	24.18	24.25	24.19	24.76	24.98	25.26	7.60	7.60	7.54	5.67	5.61	5.34	78.2	77.5	73.5	1.5	3.78	22.8		33	6							1	4	4	6	1	W	5.0	1	0.0	es	pj	pj	clear surface conditions
Site 10	8/31/2021	8:48AM	25.13	25.08	24.14	25.87	25.89	26.45	pH sensor broken			6.08	6.37	6.26	85.9	90.0	84.1	1.1	5.58	22.3		3	<1							1	2	5	6	4	NW	3.0	3	0.0	KP	pj	pj	clear surface conditions
Site 10	9/7/2021	7:42 AM	22.76	22.77	23.11	24.92	24.92	25.16	pH sensor broken			6.58	6.55	6.48	88.3	88.0	87.4	1.6	4.07	17.2		11	1							0	4	4	6	0	W	3.0	1	0.0	es	pj	pj	clear surface conditions
Site 10	9/13/2021	4:19 AM	23.14	23.11	22.98	25.03	25.13	25.28	pH sensor broken			7.53	7.65	7.61	101.5	102.7	101.6	1.4	4.20	23.8		15	11							0	2	4	6	2	W	10.0	2	0.5	es	pj	pj	clear surface conditions
Site 10	9/21/2021	8:23 AM	22.60	22.77	23.04	25.33	25.44	25.67	pH sensor broken			7.48	7.53	7.27	98.7	99.6	96.4	1.1	4.23	16.1		9	1							0	4	5	6	2	N	6.0	1	0.0	fb	pj	pj	clear surface conditions
Site 10	10/4/2021	9:42 AM	20.51	20.51	20.69	25.28	25.31	25.63	pH sensor broken			7.28	7.31	7.22	93.6	94.2	93.0	1.6	6.12	18.8										1	4	5	6	4	ENE	8.0	3	1.5	es	pj	pj	clear surface conditions
Site 10	10/11/2021	8:59 AM	19.12	19.19	19.26	24.57	24.92	25.37	pH sensor broken			6.96	6.79	6.72	86.1	84.5	84.1	1.3	4.17	17.2										1	2	5	6	4	NE	16.0	3	1.0	fb	pj	pj	clear surface conditions
Site 10																																										
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Friends of the Bay 2020 Water Quality Data - Site 11, West Harbor

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia	Nitrate (NO	Nitrit (N	Total Kjeldal	Organic Nitro	Total Nitro	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTION	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 11	4/19/2021	8:33 AM	10.68	10.74	10.26	26.04	26.07	26.18	8.16	8.15	8.16	10.08	10.19	10.37	107.4	108.5	109.4	1.6	3.13	18.2		<1	<1							0	2	5	6	1	0	0.0	1	0.0	nh	pj	pj	clear surface conditions
Site 11	4/26/2021	8:26 AM	10.92	10.89	10.86	25.23	25.28	25.31	8.04	8.04	8.03	8.85	8.83	8.83	94	93.7	93.7	2	3.38	6.9		2	<1							1	4	5	6	0	NW	6.0	1	1.0	nh	pj	pj	choppy
Site 11	5/3/2021	8:55 AM	12.92	12.84	11.79	25.72	25.75	25.88	7.95	7.95	7.96	8.66	8.69	8.66	96.9	97.1	94.5	1.8	3.30	15.1		<1	<1							0	2	5	6	4	SE	2.4	3	0.5	nh	pj	pj	clear surface conditions
Site 11	5/10/2021	7:37 AM	12.80	12.80	12.8	25.82	25.80	25.74	8.29	8.30	8.30	8.59	8.50	8.47	95.7	95	94.5	1.8	3.00	9.7		<1	<1							2	4	5	6	4	E	1.3	3	0.5	nh	pj	pj	clear surface conditions
Site 11	5/17/2021	8:23 AM	16.16	16.02	15.68	26.10	26.11	26.22	7.86	7.86	7.84	8.44	8.47	8.59	99.6	99.9	100.2	2.2	2.60	16.6		1	<1							0	2	5	6	0	0	0.0	1	0.0	nh	pj	pj	jellyfish
Site 11	5/24/2021	7:45 AM	18.23	18.23	18.23	26.20	26.16	26.18	7.84	7.83	7.83	8.30	8.29	8.29	102.1	101.9	101.9	1.3	3.78	17.8		2	<1							0	4	5	6	4	SE	2.7	3	0.5	nh	pj	pj	clear surface conditions
Site 11	6/1/2021	8:42 AM	15.44	15.34	14.9	25.46	25.56	25.72	7.88	7.86	7.76	8.58	8.76	8.42	99.7	101.5	96.4	1.3	3.07	18.2		5	<1							0	2	5	6	4	NE	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 11	6/7/2021	8:46 AM	19.30	18.66	18.44	25.96	25.01	26.10	7.95	7.90	7.87	8.74	9.06	8.72	111.1	112.2	108.0	0.9	4.07	25.3		1	1							0	4	5	6	1	0	0.0	1	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 11	6/15/2021	8:17 AM	19.81	19.69	19.51	26.02	26.05	26.15	8.08	8.08	8.09	8.68	8.86	8.97	110.9	112.8	114.1	0.8	2.72	22.9		7	<1							1	2	5	6	3	NW	1.5	3	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 11	6/21/2021	9:06 AM	21.52	21.49	21.29	26.17	26.24	26.21	8.03	8.03	8.02	7.53	7.65	7.64	100.3	101.8	101.0	1.1	4.46	25.9		17	9							0	1	5	6	4	S	2.4	2	0.5	nh	pj	pj	clear surface conditions
Site 11	6/28/2021	8:12 AM	23.46	23.45	23.34	26.17	26.22	26.23	7.75	7.75	7.74	6.75	6.90	6.97	91.9	93.2	94.4	0.9	2.15	26.3		<1	<1							0	2	5	6	1	SW	3.0	1	0.0	nh	pj	pj	clear surface conditions
Site 11	7/6/2021	9:12 AM	21.28	21.26	21.22	26.40	26.39	26.47	**no pH data, senso**			6.91	6.93	6.93	91.0	91.2	91.1	1.4	4.20	25.0		<1	<1							0	4	5	6	1	SW	3.4	1	0.5	nh	pj	pj	clear surface conditions
Site 11	7/12/2021	7:51 AM	23.82	23.74	23.40	24.03	24.21	24.68	7.66	7.67	7.62	7.14	7.16	7.17	96.9	97.1	96.7	0.9	2.27	22.8		28	5							1	3	5	6	2	SW	1.0	1	0.0	nh	pj	pj	clear surface conditions
Site 11	7/19/2021	9:06 AM	25.11	25.08	24.44	25.78	25.86	26.00	7.76	7.74	7.65	6.07	6.15	5.83	85.5	86.5	80.9	1.0	4.28	22.0		1	<1							0	2	5	6	4	NW	2.0	3	0.0	nh	pj	pj	clear surface conditions
Site 11	7/26/2021	7:25 AM	24.72	24.72	24.67	25.57	25.55	25.65	7.69	7.68	7.67	6.37	6.32	6.26	89.9	88.3	87.2	1.1	2.28	22.0		5	<1							2	3	5	6	3	W	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 11	8/2/2021	9:12 AM	23.62	23.61	23.56	25.70	25.73	25.71	**no pH data, senso**			6.09	5.96	5.81	83.2	81.5	79.3	1.4	4.04	20.0		1	1							0	2	5	6	0	NW	3.4	1	0.5	nh	pj	pj	clear surface conditions
Site 11	8/9/2021	7:44 AM	23.40	23.40	23.41	26.02	26.07	26.10	7.59	7.59	7.59	5.94	5.61	5.40	80.4	75.9	73.4	1.3	2.43	22.0		<1	<1							1	3	5	6	4	N	3.5	4	0.5	nh	pj	pj	clear surface conditions
Site 11	8/24/2021	7:33 AM	24.30	24.30	24.31	24.58	24.64	25.21	7.63	7.60	7.56	5.32	5.00	4.79	72.4	68.6	66.1	1.4	2.21	22.2		42	17							1	4	4	6	1	W	5.0	1	0.0	es	pj	pj	clear surface conditions
Site 11	8/31/2021	8:22AM	25.51	25.50	24.12	25.64	25.72	26.51	pH sensor broken			6.58	7.01	6.24	93.5	99.6	84.8	1.0	4.08	22.7		1	<1							1	2	5	6	4	NW	3.0	3	0.0	kp	pj	pj	clear surface conditions
Site 11	9/7/2021	7:30 AM	23.00	22.98	23.17	24.81	24.78	25.05	pH sensor broken			5.60	5.52	5.44	75.4	74.3	73.5	1.2	2.40	16.1		20	3							0	4	4	3	0	W	4.0	1	0.0	es	pj	pj	Foam
Site 11	9/13/2021	8:48 AM	23.19	23.18	23.17	24.92	24.91	24.85	pH sensor broken			7.80	8.06	8.26	105.7	108.9	110.9	0.7	3.06	23.8		1	<1							0	2	4	6	3	W	10.0	2	0.5	es	pj	pj	clear surface conditions
Site 11	9/21/2021	7:58 AM	22.86	22.83	22.88	25.25	25.24	25.27	pH sensor broken			7.41	7.38	7.38	97.6	97.6	97.6	1.3	2.58	13.9		7	<1							0	4	5	6	0	N	5.0	1	0.0	fb	pj	pj	clear surface conditions
Site 11	10/4/2021	9:16 AM	20.66	20.66	20.71	25.60	25.59	25.63	pH sensor broken			7.25	7.16	7.08	93.2	92.3	91.5	1.9	4.89	18.8										1	4	5	6	4	NE	8.0	3	0.5	es	pj	pj	clear surface conditions
Site 11	10/11/2021	8:28 AM	19.36	19.36	19.36	25.51	25.57	25.55	pH sensor broken			6.97	6.82	6.68	86.8	85.2	83.8	1.6	2.94	17.7										1	2	5	6	4	NE	16.0	3	1.0	fb	pj	pj	clear surface conditions
Site 11																																										
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Friends of the Bay 2020 Water Quality Data - Site 12, Turtle Cove

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl	Organic Nitrogen	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 12	4/19/2021	8:41 AM	12.30	11.80	11.69	26.14	26.06	26.25	7.98	8.06	7.96	9.11	9.11	9.15	99.7	99.5	99.1	1.6	2.29	16.3		3	1							0	2	5	6	0	0	0.0	1	0.0	nh	pj	pj	clear surface conditions
Site 12	4/26/2021	12:30 PM	11.29	11.27	11.27	25.54	25.5	25.56	8.08	8.07	8.07	8.95	8.95	8.94	95.9	95.9	95.8	1.1	3.52	9.8		<1	<1							1	1	5	6	0	NW	5.2	1	1.0	nh	pj	pj	choppy
Site 12	5/3/2021	9:06 AM	13.31	13.25	13.1	25.73	25.78	25.76	7.9	7.91	7.91	8.47	8.5	8.50	95.5	95.6	95.5	0.9	2.40	16.9		16	<1							0	2	5	6	4	E	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 12	5/10/2021	7:49 AM	13.40	13.43	13.4	25.73	25.75	25.72	7.68	7.67	7.67	7.28	7.08	7.00	81.8	80	79.1	0.8	2.31	10.3		1	<1							2	4	5	6	4	NE	4.2	3	0.5	nh	pj	pj	clear surface conditions
Site 12	5/17/2021	8:32 AM	17.68	17.45	**too shallo**	26.15	26.14	**too shallo**	7.69	7.74	**too sha**	7.52	7.39	**too shallo**	91.3	89.4	**too shall**	1.2	1.80	19.7		1	1							0	2	5	6	0	N	0.4	1	0.0	nh	pj	pj	clear surface conditions
Site 12	5/24/2021	7:54 AM	18.16	18.24	18.03	26.13	26.09	26.08	7.75	7.76	7.69	7.49	7.44	7.30	91.8	91.4	89.3	1.3	3.05	18.4		<1	1							0	4	5	6	4	E	2.2	3	0.0	nh	pj	pj	clear surface conditions
Site 12	6/1/2021	9:04 AM	15.27	15.28	15.33	25.46	25.48	25.65	7.88	7.85	7.78	8.58	8.67	8.45	99.2	100.2	97.7	1.4	2.04	17.7		5	1							0	2	5	6	4	N	1.3	3	0.0	nh	pj	pj	clear surface conditions
Site 12	6/7/2021	8:59 AM	22.65	22.55	21.66	25.60	25.74	25.88	7.86	7.89	7.86	7.44	7.53	8.08	99.7	100.8	106.6	1.0	3.37	30.3		2	4							0	4	5	6	1	SE	1.3	1	0.0	nh	pj	pj	clear surface conditions
Site 12	6/15/2021	8:30 AM	20.59	20.38	19.94	26.02	26.14	26.26	7.87	8.08	8.00	7.31	7.36	7.70	94.4	97.2	98.5	1.0	1.90	23.3		7	5							1	2	5	6	3	SW	1.3	3	0.0	nh	pj	pj	clear surface conditions
Site 12	6/21/2021	9:15 AM	23.75	23.75	23.70	26.13	26.13	26.13	7.79	7.79	7.71	6.08	5.95	5.75	83.5	82.2	79.2	1.0	3.67	24.8		7	9							0	1	5	6	4	S	3.2	3	0.5	nh	pj	pj	clear surface conditions
Site 12	6/28/2021	8:22 AM	24.79	**too shallo**	24.69	26.09	**too shallo**	26.13	7.46	**too sha**	7.46	5.01	**too shallo**	5.02	69.5	**too shall**	69.6	0.7	1.33	28.4		20	20							0	2	5	6	1	SW	1.2	1	0.0	nh	pj	pj	clear surface conditions
Site 12	7/6/2021	9:22 AM	22.64	22.64	22.62	25.99	26.05	26.11	**no pH data, sensor un**			5.81	5.81	5.80	78.3	78.2	78.1	0.9	3.20	26.0		14	6							0	4	5	6	1	SW	2.4	1	0.0	nh	pj	pj	clear surface conditions
Site 12	7/12/2021	10:22 AM	24.14	23.83	23.44	24.48	24.76	24.93	7.68	7.59	7.45	5.92	5.98	5.62	81.2	81.1	75.3	0.7	2.34	25.0		5	1							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 12	7/19/2021	9:16 AM	26.13	26.12	25.91	25.60	25.59	25.61	7.69	7.68	7.54	5.31	5.34	4.96	76.0	76.4	70.7	0.7	3.43	22.0		18	5							0	2	5	6	4	NW	2.2	3	0.0	nh	pj	pj	clear surface conditions
Site 12	7/26/2021	7:39 AM	25.00	25.00	**too shallo**	25.41	25.55	**too shallo**	7.45	7.46	**too sha**	5.45	5.26	**too shallo**	76.2	73.5	**too shall**	0.6	1.43	22.0		21	46							2	3	5	6	3	0	0.0	3	0.0	nh	pj	pj	clear surface conditions
Site 12	8/2/2021	9:21 AM	23.84	23.80	23.67	25.66	25.65	25.60	**no pH data, sensor un**			6.14	5.82	5.59	83.7	79.7	76.2	0.8	3.20	21.1		4	1							0	2	5	6	1	NW	2.8	1	0.5	nh	pj	pj	clear surface conditions
Site 12	8/9/2021	7:53 AM	23.24	23.23	**too shallo**	26.04	26.11	**too shallo**	7.46	7.46	**too sha**	5.44	4.85	**too shallo**	73.1	65.1	**too shall**	1.4	1.63	22.0		1	3							1	4	5	6	4	N	1.5	4	0.0	nh	pj	pj	clear surface conditions
Site 12	8/24/2021	7:49 AM	23.84	24.17	NA	24.13	24.86	NA	7.42	7.35	NA	4.84	4.55	NA	65.9	61.7	NA	1.3	2.40	22.7		39	16							1	4	4	6	1	W	5.0	1	0.0	es	pj	pj	clear surface conditions, top of hypoxic range at top and 1m depths
Site 12	8/31/2021	8:31AM	26.17	26.17	25.69	25.54	25.59	25.67	pH sensor broken			6.29	6.37	5.87	90.2	91.3	83.1	1.0	2.98	22.7		6	11							1	2	5	6	4	NW	3.0	3	0.0	kp	pj	pj	clear surface conditions
Site 12	9/7/2021	10:25 AM	22.77	22.76	22.73	24.78	24.78	24.80	pH sensor broken			7.05	6.82	6.73	93.3	91.5	90.3	1.0	3.68	21.1		10	<1							0	4	4	6	0	W	7.0	1	0.0	es	pj	pj	clear surface conditions
Site 12	9/13/2021	8:59 AM	23.31	23.31	23.26	24.88	24.9	24.90	pH sensor broken			7.70	7.77	7.75	103.9	104.8	104	0.8	2.14	23.8		3	<1							0	2	4	6	3	W	10.0	2	0.5	es	pj	pj	clear surface conditions
Site 12	9/21/2021	8:09 AM	22.46	22.49	22.45	25.28	25.28	25.27	pH sensor broken			7.02	6.86	6.79	92	90.1	88.3	0.6	1.93	16.1		3	<1							0	4	5	6	1	N	6.0	1	0.0	fb	pj	pj	clear surface conditions
Site 12	10/4/2021	9:26 AM	20.58	20.58	20.44	25.25	25.26	25.29	pH sensor broken			7.5	7.59	7.36	96.7	97.9	94.3	1.4	4.11	18.8										1	4	5	6	4	NE	8.0	3	0.5	es	pj	pj	clear surface conditions
Site 12	10/11/2021	8:42 AM	19.24	19.24	19.24	25.47	25.49	25.49	pH sensor broken			6.63	6.48	6.30	82.4	80.6	78.5	1.5	2.10	17.7										1	2	5	6	4	NE	17.0	3	1.0	fb	pj	pj	clear surface conditions
Site 12																																										
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Friends of the Bay **2021** Water Quality Data - **Site 13, Mill Neck Creek East**

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitr	Organic Nitrogen	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 13	4/19/2021	8:07 AM	11.48	11.26	11.12	25.34	25.9	26.04	8.09	8.09	8.09	9.75	9.83	9.84	105.2	105.8	105.7	1.6	3.02	13.7		1	2							0	2	5	6	1	NE	0.4	1	0.0	nh	pj	pj	dead bunker jellyfish
Site 13	4/26/2021	**strong wind and waves**																																								
Site 13	5/3/2021	8:33 AM	13.6	13.41	12.87	24.57	25.05	25.65	7.83	7.84	7.88	8.09	8.01	8.07	90.9	89.9	90.1	1.6	3.25	14.8		2	5							0	2	5	6	4	E	2.1	3	0.0	nh	pj	pj	clear surface conditions
Site 13	5/10/2021	11:40 AM	13.05	13.11	13.02	25.58	25.61	25.57	7.9	7.9	7.91	8.53	8.54	8.53	95.8	95.7	95.6	2.3	4.21	21.1		1	2							2	1	5	6	3	E	0.5	2	0.0	nh	pj	pj	clear surface conditions
Site 13	5/17/2021	8:07 AM	16.49	16.43	16.35	25.34	25.5	25.84	7.69	7.7	7.74	7.67	7.49	7.44	90.3	88.4	88.3	1.6	2.39	18.0		4	2							0	2	5	6	0	W	0.5	1	0.0	nh	pj	pj	clear surface conditions
Site 13	5/24/2021	11:42 AM	18.57	18.57	18.44	26.07	26.18	26.08	7.89	7.89	7.86	7.82	7.94	7.99	97.1	98.4	98.7	1.2	4.15	23.4		13	2							0	1	5	6	4	W	1.2	3	0.0	nh	pj	pj	clear surface conditions
Site 13	6/1/2021	8:12 AM	15.03	15.1	15.10	23.51	25.14	25.13	7.7	7.71	7.72	8.00	7.76	7.63	90.4	89	87.6	1.0	3.09	16.3		24	5							0	2	5	6	4	W	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 13	6/7/2021	8:02 AM	19.93	19.83	19.76	25.62	25.68	25.74	7.85	7.86	7.86	8.43	8.47	8.47	107.5	107.6	107.5	1.1	3.31	22.3		12	3							0	4	5	6	2	S	2.4	1	0.0	nh	pj	pj	clear surface conditions, comb jellyfish, % SAT near top of range at all depths
Site 13	6/15/2021	7:49 AM	20.28	20.26	20.11	25.35	25.59	25.90	7.88	7.91	7.99	7.61	7.51	7.76	97.3	96.3	99.5	0.9	2.55	20.7		45	32							1	2	5	6	4	W	1.4	3	0.0	nh	pj	pj	clear surface conditions
Site 13	6/21/2021	7:52 AM	22.54	22.45	22.37	25.95	25.98	25.58	7.96	7.97	7.98	7.28	7.28	7.32	98.5	98.3	98.8	0.8	4.19	25.6		32	17							0	4	5	6	2	S	2.3	2	0.5	nh	pj	pj	clear surface conditions
Site 13	6/28/2021	7:46 AM	23.66	23.53	23.49	25.56	25.67	25.76	7.35	7.41	7.44	5.16	4.82	4.98	68.8	65.5	67.5	0.8	2.05	25.4		63	36							0	2	5	6	1	SW	2.0	1	0.0	nh	pj	pj	clear surface conditions
Site 13	7/6/2021	8:04 AM	22.56	22.55	22.49	25.70	25.72	25.72	**no pH data, ser**		-	7.27	7.24	7.20	97.5	97.2	96.5	1.0	3.55	24.0		4	<1							0	4	5	6	4	SW	3.8	3	0.5	nh	pj	pj	clear suface conditions
Site 13	7/12/2021	10:47 AM	24.14	23.97	23.87	23.80	23.99	24.09	7.76	7.72	7.69	7.25	7.36	7.16	99.0	99.8	96.8	0.8	3.02	26.1		37	5							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 13	7/19/2021	7:51 AM	25.25	25.27	25.29	25.51	25.52	25.55	7.62	7.61	7.60	5.76	5.61	5.36	80.6	78.7	75.5	1.2	4.18	21.0		10	6							0	1	5	6	4	NW	1.5	3	0.0	nh	pj	pj	clear surface conditions
Site 13	7/26/2021	10:28 AM	25.11	24.99	24.91	25.07	25.12	25.17	7.68	7.67	7.66	6.30	6.21	5.94	88.0	86.7	82.9	1.2	2.69	26.0		44	36							2	4	5	6	1	W	2.0	1	0.0	nh	pj	pj	clear surface conditions
Site 13	8/2/2021	8:43 AM	23.76	23.76	23.72	25.39	25.44	25.45	**no pH data, sensor ur**			6.31	6.15	5.99	86.3	84.3	81.9	1.2	3.84	18.9		2	<1							0	2	5	6	0	NW	2.4	1	0.5	nh	pj	pj	clear surface conditions
Site 13	8/9/2021	11:21 AM	23.45	23.45	23.44	25.85	25.86	25.88	7.69	7.68	7.67	6.31	6.08	5.84	85.3	82.3	79.3	1.6	4.23	23.0		9	5							1	4	5	6	4	NE	4.5	3	0.0	nh	pj	pj	clear surface conditions
Site 13	8/24/2021	10:50 AM						sonde started malfunctioning, out of order										0.9	NA	26.6		36	2							1	4	4	6	0	w	8.0	1	0.0	es	pj	pj	clear surface conditions
Site 13	8/31/2021	7:54AM	25.37	25.36	25.40	25.42	25.41	25.55	pH sensor broken			6.51	6.35	6.39	91.8	89.4	90.3	1.0	3.94	22.2		10	1							1	2	5	6	4	NW	2.0	3	0.0	kp	pj	pj	clear surface conditions
Site 13	9/7/2021	11:05 AM	23.24	23.24	23.25	24.93	24.94	24.98	pH sensor broken			6.55	6.47	6.37	88.6	87.5	86.4	1.3	4.50	22.2		14	<1							0	4	4	6	0	w	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 13	9/13/2021	8:20 AM	23.06	23.06	23.11	23.94	24.12	24.55	pH sensor broken			6.85	6.74	6.57	90.9	89.6	87.9	0.7	2.96	23.8		24	9							0	2	4	6	3	w	9.0	3	0.5	es	pj	pj	clear surface conditions
Site 13	9/21/2021	11:27 AM	23.05	23.06	23.01	25.23	25.22	25.27	pH sensor broken			7.60	7.8	7.91	101.3	104	104.8	1.1	4.57	21.1		7	<1							0	4	5	6	1	E	8.0	1	0.0	fb	pj	pj	clear surface conditions
Site 13	10/4/2021	7:51 AM	20.57	20.57	20.57	25.11	25.13	25.19	pH sensor broken			7.12	7.03	6.96	91.4	90.2	89.7	1.2	3.73	20.0										>1	4	5	6	4	E	6.0	3	0.5	es	pj	pj	clear surface conditions
Site 13	10/11/2021	7:59 AM	18.54	18.67	18.79	24.37	24.47	24.67	pH sensor broken			6.38	6.13	6.01	77.5	75.0	74.2	1.0	2.87	17.2										1	2	5	6	4	NE	15.0	3	1.0	fb	pj	pj	clear surface conditions
Site 13																																										
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Friends of the Bay 2020 Water Quality Data - Site 14, Mill Neck Creek West

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meter	Air Temp (°C)	H2O Temp	Fecal Coliform	Enterococci	Ammonia (NH	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen	Organic Nitrogen	Total Nitrogen	Rain fall in 24 hour	Tidal Stage	Water Color	Surface Conditio	Cloud Cover	Wind DIRECT	Wind SPEED	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 14	4/19/2021	8:15 AM	11.76	11.82	11.76	24.97	25.54	25.54	8.02	8.06	8.07	9.57	9.43	9.64	103	102.7	104.7	1.9	1.87	17.9		11	2							0	2	5	6	0	0	0.0	1	0.0	nh	pj	pj	clear surface conditions
Site 14	4/26/2021	**strong wind and waves**																																								
Site 14	5/3/2021	8:15 AM	13.61	13.58	12.91	24.70	25.11	25.61	7.82	7.83	7.87	8.15	8.02	8.10	91.8	90.4	90.5	1.5	2.6	15.0		5	6							0	2	5	6	4	E	2.0	3	0.0	nh	pj	pj	clear surface conditions
Site 14	5/10/2021	11:32 AM	13.42	13.23	13.04	25.23	25.44	25.48	7.88	7.89	7.90	8.56	8.53	8.52	96.4	95.9	95.6	2.1	3.69	22.3		5	2							2	1	5	6	3	E	3.5	2	0.0	nh	pj	pj	clear surface conditions
Site 14	5/17/2021	7:57 AM	16.12	16.13	**too shallo**	25.09	25.09	**too shallo**	7.65	7.65	**too sha**	7.34	7.04	**too sha**	85.7	82.6	**too shallow**		1.44	18.6		16	4							0	2	5	6	0	0	0.0	1	0.0	nh	pj	pj	clear surface conditions, Secchi hit bottom before disappearing
Site 14	5/24/2021	11:34 AM	18.97	18.96	18.44	25.55	25.57	26.10	7.88	7.87	7.87	8.00	8.01	8.04	99.5	99.6	99.2	1.1	3.07	21.9		42	7							0	1	5	6	4	SE	1.4	3	0.0	nh	pj	pj	clear surface conditions
Site 14	6/1/2021	8:00 AM	15.10	15.18	15.17	23.64	23.81	24.93	7.69	7.70	7.68	7.88	7.78	7.68	89.5	88.8	88.1	1.5	2.57	17.3		13	5							0	2	5	6	4	W	0.5	3	0.0	nh	pj	pj	clear surface conditions, 2 osprey
Site 14	6/7/2021	8:12 AM	20.10	19.97	19.84	25.64	25.70	25.77	7.84	7.86	7.86	8.20	8.33	8.36	104.9	106.4	106.3	1.1	2.78	22.7		10	3							0	4	5	6	2	W	1.0	1	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 14	6/15/2021	7:35 AM	20.34	20.42	20.41	24.66	25.35	25.34	7.82	7.81	7.81	6.83	6.71	6.66	87.0	86.0	85.4	0.9	1.91	21.7		76	48							1	2	5	6	4	W	1.2	3	0.0	nh	pj	pj	clear surface conditions
Site 14	6/21/2021	8:01 AM	22.58	22.56	22.47	25.94	26.03	25.96	7.98	7.97	7.94	7.24	7.27	7.27	98.1	98.5	98.1	0.7	2.79	23.2		20	7							0	4	5	6	4	S	4.5	3	0.5	nh	pj	pj	clear surface conditions
Site 14	6/28/2021	7:36 AM	23.82	**too shallo**	**too shallo**	24.87	**too shallo**	**too shallo**	7.06	**too shallo**	**too sha**	4.29	**too sha**	**too sha**	52.7	**too sha**	**too sha**	0.6	0.71	25.3		110	65							0	2	5	6	1	SW	1.4	1	0.0	nh	pj	pj	clear surface conditions
Site 14	7/6/2021	8:14 AM	23.07	23.02	22.86	25.36	25.40	25.52	**no pH data, sensor unoperati**			6.66	6.68	6.70	90.1	90.4	90.2	0.8	2.15	24.0		6	3							0	4	5	6	4	SW	3.2	3	0.0	nh	pj	pj	clear surface conditions
Site 14	7/12/2021	10:55 AM	24.11	24.11	24.09	23.55	23.50	23.52	7.70	7.70	7.69	7.13	7.15	7.11	97.0	97.3	96.4	0.8	2.18	26.1		58	17							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 14	7/19/2021	7:59 AM	25.39	25.41	25.28	25.37	25.42	25.58	7.60	7.58	7.61	5.50	5.42	5.31	77.2	76.3	74.7	1.2	3.42	21.0		15	8							0	1	5	4	4	NW	1.0	3	0.0	nh	pj	pj	1 dead fish, 1 dead crab
Site 14	7/26/2021	10:19 AM	25.13	25.06	**too shallo**	24.41	24.62	**too shallo**	7.59	7.56	**too sha**	6.03	5.97	**too sha**	84.3	82.3	**too sha**	1.2	1.79	26.0		510	76							2	4	5	6	1	0	0	1	0.0	nh	pj	pj	clear surface conditions
Site 14	8/2/2021	8:28 AM	23.72	23.73	23.78	25.17	25.24	25.28	**no pH data, sensor unoperati**			5.71	5.49	5.40	77.7	75.0	74.1	0.9	3.43	17.8		6	7							0	1	5	6	0	NW	3.5	1	0.5	nh	pj	pj	clear surface conditions
Site 14	8/9/2021	11:30 AM	23.46	23.44	23.44	25.92	25.91	25.90	7.69	7.69	7.68	6.38	6.08	5.96	86.7	82.4	80.9	1.4	3.53	23.0		8	7							1	4	5	6	4	NE	2.0	3	0.0	nh	pj	pj	clear surface conditions
Site 14	8/24/2021	sonde out of order																																					es	pj	pj	clear surface conditions
Site 14	8/31/2021	7:47 AM	25.41	25.42	25.43	24.80	24.87	25.51	pH sensor broken			5.56	5.14	5.04	77.3	72.0	71.5	0.8	2.97	22.2		15	5							1	2	5	6	4	NW	2.0	3	0.0	kp	pj	pj	clear surface conditions
Site 14	9/7/2021	11:17 AM	23.34	23.33	23.25	25.03	25.03	25.02	pH sensor broken			6.87	6.83	6.73	93.2	92.7	90.9	1.3	4.05	22.2		9	<1							0	4	4	6	0	W	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 14	9/13/2021	8:04 AM	23.05	23.06	23.09	24.15	24.03	24.23	pH sensor broken			6.60	6.41	6.21	87.5	84.9	82.7	0.6	2.65	22.7		23	9							0	2	4	6	3	W	11.0	3	0.0	es	pj	pj	clear surface conditions
Site 14	9/21/2021	11:37 AM	23.08	23.06	23.03	25.35	25.33	25.35	pH sensor broken			7.68	7.92	7.92	102.4	105.3	105.1	1.0	3.67	21.1		6	<1							0	4	5	6	1	E	8.0	1	0.0	fb	pj	pj	clear surface conditions
Site 14	10/4/2021	7:59 AM	20.57	20.57	20.57	25.20	25.20	25.23	pH sensor broken			7.09	7.01	6.59	91.1	89.9	89.4	1.2	3.20	20.0										<1	4	5	6	3	E	6.0	3	0.5	es	pj	pj	clear surface conditions
Site 14	10/11/2021	7:49 AM	18.42	18.49	18.52	24.26	24.54	24.56	pH sensor broken			6.25	5.92	6.06	75.2	72.5	74.6	1.1	2.17	17.0										1	2	5	6	4	NE	16.0	3	1.0	fb	pj	pj	clear surface conditions
Site 14																																										
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Friends of the Bay 2020 Water Quality Data - Site 15, Mill Neck Creek South

Site	Date	Time	H20 Temp TOP	H20 Temp 1.0 m	H20 Temp 0.5 m	Salinity TOP	Salinity 1.0	Salinity BTM	PH Top	PH 1.0	Ph .5 m from	Top DO	DO 1.0	BTM DO	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp	Fecal Colif	Enterococci	Ammonia	Nitrite	Total Nitrogen	Ortho	Total	Rain fall in 24	Tidal Stage	Water Color	Surface Con	Cloud Cov	Wind DIR	Wind SPE	Weather	Wave Heig	Data Entered	Captain	Sampling Lea	Notes
Site 15	4/19/2021	**tide falling, too shallow**						tide falling, too shallow							tide falling, too shallow																										
Site 15	4/26/2021	**strong wind and waves**																																							
Site 15	5/3/2021	8:04 AM	14.04	13.41	**too shall**	24.75	25.42	**too shall**	7.80	7.84	**too sh**	7.92	7.90	**too sh**	89.8	88.9	**too shall**	1.1	1.4	15.1		13	10						0	2	5	6	4	E	1.6	3	0.0	nh	pj	pj	clear surface conditions, shallow
Site 15	5/10/2021	11:03 AM	13.48	13.48	13.46	24.37	24.36	24.39	7.89	7.89	7.89	8.64	8.62	8.63	97	96.9	96.9	1.6	2.16	17.6		22	2						2	4	5	6	4	E	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 15	5/17/2021	**too shallow, low tide**																																							
Site 15	5/24/2021	11:24 AM	19.04	18.49	18.43	24.89	26.20	26.20	7.84	7.89	7.89	7.64	7.71	7.99	95.2	95.5	98.9	1.0	2.09	21.3		112	31						0	1	5	6	4	SE	2.0	3	0.0	nh	pj	pj	clear surface conditions
Site 15	6/1/2021	7:36 AM	15.35	15.47	**too shall**	23.58	24.27	**too shall**	7.83	7.81	**too sh**	7.84	8.73	**too sh**	89.50	89.00	**too shallow**		1.32	16.8		22	4						0	2	5	6	4	0	0.0	3	0.0	nh	pj	pj	clear surface conditions, Secchi hit bottom before disappearing
Site 15	6/7/2021	**too shallow**						**too shallow**						**too shallow**																											
Site 15	6/15/2021	**too shallow, low tide**						**too shallow, low tide**						**too shallow, low tide**																											
Site 15	6/21/2/1	8:33 AM	23.22	23.14	22.88	25.18	25.77	25.86	7.85	7.89	7.89	6.74	6.68	6.68	91.7	91.3	90.7	0.6	2.22	23.6		390	210						0	4	5	6	4	S	3.3	3	0.5	nh	pj	pj	clear surface conditions
Site 15	6/28/2021	**too shallow, low tide**						**too shallow, low tide**						**too shallow, low tide**																											
Site 15	7/6/2021	8:48 AM	23.65	23.57	23.53	24.60	24.72	24.71	**no pH data, sensor un**			6.32	6.19	6.00	85.8	83.7	81.3	0.7	1.83	25.0		22	16						0	4	5	6	1	SW	1.2	1	0.0	nh	pj	pj	clear surface conditions
Site 15	7/12/2021	**too shallow, low tide**						**too shallow, low tide**							**too shallow, low tide**																										
Site 15	7/19/2021	8:36 AM	25.81	25.80	25.63	25.10	25.20	25.32	7.50	7.50	7.52	5.32	5.07	4.82	75.0	71.4	67.9	0.8	1.95	21.0		300	71						0	2	5	6	4	NW	0.0	3	0.0	nh	pj	pj	clear surface conditions
Site 15	7/26/2021	**too shallow, low tide**																																							
Site 15	8/2/2021	8:17 AM	23.64	23.64	**too shall**	24.51	24.72	**too shall**	**no pH data, sensor un**			4.60	4.24	**too sh**	62.0	57.4	**too shall**	0.6	1.84	17.8		33	14						0	1	5	6	0	NW	2.8	1	0.5	nh	pj	pj	clear surface conditions
Site 15	8/9/2021	11:41 AM	23.55	23.49	23.46	24.29	24.48	24.85	7.64	7.56	7.52	6.39	6.34	5.87	86.2	85.2	78.8	1.9	2.26	23.0		380	170						1	4	5	4	4	NE	3.2	3	0.0	nh	pj	pj	2 dead fish
Site 15	8/24/2021													sonde out of order			sonde out of order, sonde out of order																					es	pj	pj	clear surface conditions
Site 15	8/31/2021	7:37 AM	25.51	25.65	25.67	23.98	24.76	24.83	pH sensor broken			**4.70**	**4.07**	**3.60**	65.3	56.5	50.3	0.8	1.96	22.2		43	14						1	2	5	6	4	NW	2.0	3	0.0	kp	pj	pj	clear surface conditions, DO in hypoxic range at all depths
Site 15	9/7/2021	11:28 AM	23.43	23.44	23.33	24.35	24.37	24.46	pH sensor broken			6.26	6.04	5.77	84.5	81.5	77.6	1.0	2.52	22.2		40	11						0	4	4	6	0	w	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 15	9/13/2021	7:54 AM	23.18	23.32	too shall	23.28	23.99	too shall	pH sensor broken			6.34	5.87	too sh	84.0	77.8	too shall	0.7	too shall	22.7		48	21						0	2	4	6	4	w	11.0	13	0.5	es	pj	pj	clear surface conditions
Site 15	9/21/2021	11:50 AM	22.89	22.91	23.06	24.54	24.70	24.91	pH sensor broken			7.44	7.42	7.42	98.0	98.0	98.6	0.9	2.38	21.1		46	<1						0	4	5	6	2	E	8.0	2	0.0	fb	pj	pj	clear surface conditions
Site 15	10/4/2021	8:10 AM	20.73	20.73	20.71	24.55	24.57	24.66	pH sensor broken			6.43	6.13	5.73	81.9	77.5	73.4	0.6	1.93	20.0									<1	4	5	6	3	E	6.0	3	0.5	es	pj	pj	clear surface conditions
Site 15	10/11/2021	**too shallow**						**too shallow**						**too shallow**																									fb	pj	pj	
Site 15																																									
Site 15																																									
Site 15																																									
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Friends of the Bay 2021 Water Quality Data - Site 16, Mill Neck Creek North

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 16	4/19/2021	**tide falling, too shallow**								tide falling, too shallow							tide falling, too shallow																									
Site 16	4/26/2021	**strong wind and waves**																																								
Site 16	5/3/2021	7:55 AM	13.32	13.20	**too shal**	25.42	25.52	**too shal**	7.84	7.85	**too shal**	8.25	8.21	**too shal**	92.6	92.0	**too shal**	1.7	1.7	15.1		1	<1							0	2	5	6	4	E	2.0	3	0.0	nh	pj	pj	clear surface conditions, shallow
Site 16	5/10/2021	11:13 AM	13.37	13.29	13.13	25.07	25.09	25.48	7.90	7.90	7.90	8.70	8.65	8.61	97.8	97.3	96.6	2.0	2.35	20.4		10	11							2	4	5	6	4	N	2.5	3	0.0	nh	pj	pj	clear surface conditions
Site 16	5/17/2021	**too shallow, low tide**																																								
Site 16	5/24/2021	11:12 AM	18.92	18.88	18.72	25.70	25.73	26.00	7.87	7.87	7.88	8.06	7.98	7.96	100.0	99.1	98.6	1.2	2.31	19.1		46	5							0	1	5	6	4	S	1.3	3	0.0	nh	pj	pj	clear surface conditions
Site 16	6/1/2021	7:50 AM	15.17	15.21	**too shal**	24.06	24.46	**too shal**	7.67	7.66	**too shal**	8.11	7.88	**too shal**	92.5	90.1	**too shallow**		1.4	16.0		34	8							0	2	5	6	4	0	0.0	3	0.0	nh	pj	pj	clear surface conditions, Secchi hit bottom before disappearing, bald eagle
Site 16	6/7/2021	8:25 AM	20.66	20.61	**too shal**	25.58	25.57	**too shal**	7.82	7.82	**too shal**	7.87	7.95	**too shal**	101.7	102.6	**too shal**	1.0	1.69	22.6		18	7							0	4	5	6	2	S	0.5	1	0.0	nh	pj	pj	clear surface conditions, 2 osprey
Site 16	6/15/2021	**too shallow, low tide**						**too shallow, low tide**						**too shallow, low tide**																												
Site 16	6/21/2021	8:21 AM	22.56	22.62	22.52	25.92	25.97	25.96	7.97	7.96	7.98	7.29	7.32	7.32	98.9	99.0	99.1	0.8	2.35	24.2		33	18							0	4	5	6	4	S	2.2	3	0.5	nh	pj	pj	clear surface conditions
Site 16	6/28/2021	**too shallow, low tide**						**too shallow, low tide**						**too shallow, low tide**																												
Site 16	7/6/2021	8:21 AM	23.34	23.32	23.31	25.05	25.15	25.09	**no pH data, sensor unope**			6.80	6.69	6.43	92.0	90.4	86.8	0.7	1.84	24.0		11	5							0	4	5	6	3	SW	1.5	3	0.0	nh	pj	pj	clear surface conditions
Site 16	7/12/2021	**too shallow, low tide**						**too shallow, low tide**									**too shallow, low tide**																									
Site 16	7/19/2021	8:24 AM	25.39	25.38	25.37	25.46	25.45	25.51	7.57	7.57	7.58	5.39	5.28	5.21	75.7	74.4	73.2	0.8	2.25	21.0		47	19							0	2	5	6	4	NW	1.3	3	0.0	nh	pj	pj	clear surface conditions
Site 16	7/26/2021	**too shallow, low tide**																																								
Site 16	8/2/2021	8:05 AM	23.77	23.77	23.76	25.06	25.07	25.10	**no pH data, sensor unope**			5.63	5.39	5.20	76.7	73.2	71.2	0.9	2.09	17.8		5	4							0	1	5	6	0	NW	3.7	1	0.5	nh	pj	pj	clear surface conditions
Site 16	8/9/2021	11:53 AM	23.68	23.54	23.46	24.98	25.60	25.90	7.62	7.67	7.68	6.34	6.17	6.00	86.1	83.6	81.5	1.2	2.49	23.0		90	47							1	4	5	6	4	NE	1.8	3	0.0	nh	pj	pj	clear surface conditions
Site 16	8/24/2021	sonde out of order, sonde out of order																																					es	pj	pj	clear surface conditions
Site 16	8/31/2021	7:28 AM	25.37	25.50	25.5	24.76	24.94	25.34	pH sensor broken			5.81	5.49	5.35	81.4	77.1	75.6	0.7	2.14	22.2		13	4							1	2	6	0	4	NW	2.0	3	0.0	kp	pj	pj	oil slick, debris, bubbles
Site 16	9/7/2021	11:38 AM	23.41	23.30	23.23	24.91	24.94	24.98	pH sensor broken			6.85	6.81	6.63	93.0	92.1	89.4	1.1	2.75	23.8		13	<1							0	4	4	6	0	W	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 16	9/13/2021	7:41 AM	23.16	23.16	too shal	24.73	24.93	too shal	pH sensor broken			5.91	5.81	too shal	79.0	77.9	too shal	0.7	1.49	22.7		15	8							0	2	4	6	4	W	10.0	3	0.5	es	pj	pj	clear surface conditions
Site 16	9/21/2021	12:02 PM	23.21	23.17	23.15	25.11	25.25	25.24	pH sensor broken			7.79	7.92	8.14	104.0	106.0	108.4	0.9	2.61	22.2		10	<1							0	4	5	6	2	E	8.0	2	0.0	fb	pj	pj	clear surface conditions
Site 16	10/4/2021	8:21 AM	20.61	20.62	20.62	24.83	24.91	24.99	pH sensor broken			6.90	6.72	6.59	88.5	86.1	84.8	1.0	2.22	20.0										<1	4	5	6	4	ENE	5.0	3	0.5	es	pj	pj	clear surface conditions
Site 16	10/11/2021	**too shallow**						**too shallow**						**too shallow**																									fb	pj	pj	
Site 16																																										
Site 16																																										
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Site 16																																										

Friends of the Bay 2020 Water Quality Data - Site 17, The Birches STP

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTION	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 17	4/19/2021	**tide too low, too shallow**					tide too low, too shallow						**tide too low, too shallow**																													
Site 17	4/26/2021	**strong wind and waves**																																								
Site 17	5/3/2021	**too shallow**					too shallow						too shallow																													
Site 17	5/10/2021	11:23 AM	13.47	13.45	13.29	24.39	24.57	25.18	7.87	7.88	7.89	8.72	8.7	8.66	97.9	97.7	97.4	1.8	1.98	28.3		13	1							2	4	5	6	4	E	3.0	3	0.0	nh	pj	pj	clear surface conditions
Site 17	5/17/2021	**too shallow, low tide**																																								
Site 17	5/24/2021	11:04 AM	19.41	19.43	**too shall**	25.55	25.67	**too shal**	7.76	7.75	**too sha**	7.28	7.18	**too sha**	91.1	90.1	**too sha**	1.3	1.58	20.8		78	17							0	1	5	6	4	E	2.4	3	0.0	nh	pj	pj	clear surface conditions
Site 17	6/1/2021	**too shallow**																																								
Site 17	6/7/2021	**too shallow**						**too shallow**									**too shallow**																									
Site 17	6/15/2021	**too shallow, low tide**						**too shallow, low tide**									**too shallow, low tide**																									
Site 17	6/21/2021	8:12 AM	23.21	23.18	**too shall**	25.60	25.70	**too shal**	7.74	7.75	**too sha**	5.86	5.77	**too sha**	79.7	78.6	**too sha**	0.7	1.63	23.3		260	280							0	4	5	6	1	S	1.6	3	0.5	nh	pj	pj	clear surface conditions
Site 17	6/28/2021	**too shallow, low tide**						**too shallow, low tide**									**too shallow, low tide**																									
Site 17	7/6/2021	8:31 AM	23.67	23.62	**too shall**	24.54	24.66	**too shal**	**no pH data, sensor unop**			5.84	5.77	**too sha**	79.3	78.3	**too sha**	0.4	1.57	24.0		12	7							0	4	5	6	2	SW	1.5	2	0.0	nh	pj	pj	clear surface conditions
Site 17	7/12/2021	**too shallow, low tide**						**too shallow, low tide**									**too shallow, low tide**																									
Site 17	7/19/2021	8:09 AM	25.40	25.44	25.60	24.95	24.99	25.14	7.44	7.44	7.46	4.77	4.58	4.44	66.7	64.3	62.7	0.7	2.15	21.0		49	64							0	1	5	6	4	NW	1.8	3	0.0	nh	pj	pj	clear surface conditions
Site 17	7/26/2021	**too shallow, low tide**																																								
Site 17	8/2/2021	7:46 AM	23.49	23.52	**too shall**	24.69	24.81	**too shal**	**no pH data, sensor unop**			4.76	4.35	**too sha**	64.1	58.9	**too sha**	0.6	1.83	17.8		9	5							0	1	5	6	0	NW	2.5	1	0.5	nh	pj	pj	clear surface conditions
Site 17	8/9/2021	12:02 PM	23.64	23.58	23.56	24.69	25.05	25.06	7.60	7.59	7.59	6.14	6.05	5.85	83.1	81.7	79.0	0.8	2.16	23.0		190	58							1	4	5	6	4	NE	2.4	3	0.0	nh	pj	pj	clear surface conditions
Site 17	8/24/2021														sound out of order			sonde out of order																					es	pj	pj	clear surface conditions
Site 17	8/31/2021	7:17 AM	25.52	25.59	no data -	24.54	24.63	too shal	pH sensor broken			**4.02**	**3.67**	too shal	56.1	51.1	too shal	0.7	1.18	22.2		16	7							1	2	5	6,5,2	4	NW	2.0	2	0.0	kp	pj	pj	oil slick, debris, bubbles, turtle sighting, DO in hypoxic range at top and 1m depths
Site 17	9/7/2021	11:48 AM	23.47	23.41	23.24	24.54	24.61	24.93	pH sensor broken			6.49	6.24	6.06	87.5	83.9	82.2	1.0	2.44	22.7		54	2							0	4	4	6	0	w	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 17	9/13/2021																too shallow																						es	pj	pj	clear surface conditions
Site 17	9/21/2021	12:12 PM	23.08	23.05	22.97	24.8	24.77	24.93	pH sensor broken			7.60	7.69	7.69	100.8	101.8	101.6	0.8	2.29	22.2		24	<1							0	4	5	6	2	E	7.0	2	0.0	fb	pj	pj	clear surface conditions
Site 17	10/4/2021	8:38 AM	20.61	20.62	20.61	24.67	24.7	24.71	pH sensor broken			6.81	6.67	6.65	87.3	85.3	85.4	0.7	2.24	20.0										<1	4	5	6	4	ENE	5.0	4	0.5	es	pj	pj	clear surface conditions
Site 17	10/11/2021	**too shallow**						**too shallow**						**too shallow**																									fb	pj	pj	
Site 17																																										
Site 17																																										
Site 17																																										
Site 17																																										

Friends of the Bay 2020 Water Quality Data - Site 18, Mill Neck Cove

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate NO3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTION	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 18	4/19/2021	7:53 AM	10.97	11.00	10.96	26.00	26.12	26.00	8.12	8.13	8.13	9.83	9.98	10.06	105.8	107	107.7	0.9	2.03	12.3		<1	<1							0	2	5	6	1	NE	1.3	1	0.0	nh	pj	pj	clear surface conditions, common tern sighting
Site 18	4/26/2021	**strong wind and waves**																																								
Site 18	5/3/2021	7:42 AM	12.76	12.76	12.76	25.68	25.64	25.65	7.86	7.88	7.89	8.24	8.22	8.21	91.6	91.4	91.4	1.7	2.72	15.1		<1	1							0	1	5	6	4	W	0.9	3	0.0	nh	pj	pj	clear surface conditions
Site 18	5/10/2021	11:50 AM	13.58	13.37	13.05	25.48	25.44	25.57	7.9	7.91	7.92	8.58	8.56	8.62	96.9	96.6	96.6	2.4	3.16	25.1		1	1							2	1	5	6	3	W	2.1	2	0.0	nh	pj	pj	clear surface conditions
Site 18	5/17/2021	7:43 AM	15.71	15.73	**too sha**	26	26.1	**too sha**	7.76	7.77	**too shallow**	8.07	7.94	**too shall**	94.3	92.9	**too shallow**		1.54	17.5		3	2							0	2	5	6	0	NW	1.4	1	0.0	nh	pj	pj	clear surface conditions, Secchi hit bottom before disappearing
Site 18	5/24/2021	11:52 AM	18.54	18.53	18.54	26.05	26.03	26.13	7.84	7.84	7.86	8.03	8.00	7.87	99.3	98.8	97.3	1.3	2.77	21.7		2	<1							0	1	5	6	4	S	1.2	3	0.0	nh	pj	pj	clear surface conditions
Site 18	6/1/2021	8:24 AM	15.12	15.10	15.08	25.18	25.36	25.3	7.73	7.74	7.75	7.87	7.76	7.76	90.4	89.2	89.2	1.5	1.90	18.3		9	4							0	2	5	6	4	SW	0.4	3	0.0	nh	pj	pj	clear surface conditions
Site 18	6/7/2021	7:50 AM	20.75	20.10	20.03	25.44	25.76	25.83	7.77	7.80	7.80	7.87	7.94	7.99	101.7	101.5	102.1	1.0	2.19	23.6		13	5							0	4	5	6	1	E	1.1	1	0.0	nh	pj	pj	clear surface conditions, % SAT closer to normal range but high for location
Site 18	6/15/2021	8:02 AM	19.78	**too sha**	19.76	25.90	**too sha**	25.94	7.91	**too sha**	7.95	7.70	**too shall**	7.69	97.9	**too shall**	97.9	0.6	1.43	21.7		49	38							1	2	5	6	4	W	1.0	3	0.0	nh	pj	pj	clear surafce conditions, water churned up from engine prop stayed in area
Site 18	6/21/2021	7:41 AM	22.50	22.49	22.48	26.00	26.03	25.99	7.96	7.96	7.96	7.29	7.32	7.32	98.7	98.9	99.0	0.7	3.11	23.6		30	31							0	4	5	6	2	S	2.3	2	0.5	nh	pj	pj	clear surface conditions
Site 18	6/28/2021	**too shallow, low tide**								**too shallow, low tide**								**too shallow, low tide**																								
Site 18	7/6/2021	7:51 AM	22.74	22.63	22.54	25.33	25.57	25.69	**no pH data, sensor unopera**			6.97	6.92	7.04	93.3	93.0	94.6	0.9	2.49	24.0		8	6							0	4	5	6	4	SW	3.0	3	0.0	nh	pj	pj	clear surface conditions
Site 18	7/12/2021	10:38 AM	24.42	23.93	**too sha**	23.06	24.06	**too sha**	7.78	7.75	**too shallow**	7.58	7.64	**too shall**	103.6	103.5	**too shall**	0.7	1.80	26.1		54	5							1	4	5	6	4	SW	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 18	7/19/2021	7:42 AM	25.17	25.20	25.18	25.39	25.47	25.62	7.59	7.59	7.62	5.71	5.45	5.39	79.3	76.3	75.7	0.9	3.20	21.0		15	16							0	1	5	6	4	NW	0.5	3	0.0	nh	pj	pj	clear surface conditions
Site 18	7/26/2021	10:42 AM	25.44	25.17	**too sha**	24.96	25.19	**too sha**	7.73	7.74	**too shallow**	6.79	6.81	**too shall**	95.7	95.7	**too shall**	1.1	1.79	26.0		82	24							2	4	5	6	1	NW	1.5	1	0.0	nh	pj	pj	clear surface conditions
Site 18	8/2/2021	8:53 AM	23.7	23.72	23.73	25.39	25.41	25.44	**no pH data, sensor unopera**			6.24	6.05	5.95	85.2	82.7	81.6	1.3	2.81	20.0		1	1							0	2	5	6	0	NW	1.2	1	0.5	nh	pj	pj	clear surface conditions
Site 18	8/9/2021	11:06 AM	23.49	23.49	23.43	25.81	25.81	25.83	7.69	7.69	7.67	6.39	6.24	6.05	86.5	84.6	82.0	1.2	2.96	23.0		17	9							1	4	5	6	4	NE	1.5	3	0.0	nh	pj	pj	clear surface conditions
Site 18	8/24/2021	10:34 AM	24.84	24.57	NA	23.39	24.41	NA	7.39	7.45	NA	5.02	4.80	NA	69.9	66.1	NA	0.9	2.02	26.1		43	9							1	4	4	6	0	w	8.0	1	0.0	es	pj	pj	clear surface conditions
Site 18	8/31/2021	8:10 AM	25.33	25.32	25.35	25.52	25.53	25.59	pH sensor broken			6.41	6.44	6.44	90.4	90.9	90.9	1.1	2.83	22.2		12	1							1	2	5	6	4	NW	2.0	3	0.0	kp	pj	pj	clear surface conditions
Site 18	9/7/2021	10:50 AM	23.26	23.20	23.21	24.92	24.96	24.94	pH sensor broken			6.70	6.51	6.37	90.6	89.1	86.0	1.1	3.30	21.1		18	<1							0	4	4	6	0	w	6.0	1	0.0	es	pj	pj	clear surface conditions
Site 18	9/13/2021	8:34 AM	`23.07	23.06	23.05	24.76	24.75	24.75	pH sensor broken			7.36	7.39	7.40	98.5	98.9	99.0	0.8	1.84	23.8		7	1							0	2	4	6	4	w	10.0	3	0.5	es	pj	pj	clear surface conditions
Site 18	9/21/2021	12:31 PM	23.17	23.16	23.12	25.39	25.4	25.46	pH sensor broken			8.01	8.18	8.27	107.4	109.5	109.8	1.1	3.55	22.2		4	<1							0	4	5	6	3	E	8.0	2	0.0	fb	pj	pj	clear surface conditions
Site 18	10/4/2021	12:14 PM	20.51	20.57	20.57	24.66	25.19	25.21	pH sensor broken			7.22	7.08	7.02	92.3	91	90.3	1.2	2.61	20.0										<1	4	5	6	4	E	6.0	3	0.5	es	pj	pj	clear surface conditions
Site 18	10/11/2021	8:15 AM	19.01	19.03	too shal	25.21	25.25	too shal	pH sensor broken			6.91	6.82	too shall	85.5	84.7	too shall	1.7	1.70	16.1										1	2	5	6	3	NE	16.0	2	1.0	fb	pj	pj	clear surface conditions
Site 18																																										
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Friends of the Bay 2020 Water Quality Data - Site 19, Flowers Oyster Hatchery

Site	Date	Time	H20 Temp TOP (0.5m)	H20 Temp 1.0 m	H20 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	% Sat Top	% Sat 1.0	%Sat BTM	Secchi m	Seafloor Depth (meters)	Air Temp (°C)	H2O Temp BTM monthly AVG	Fecal Coliform Bacteria	Enterococci	Ammonia (NH3)	Nitrate N O3	Nitrite (NO2)	Total Kjeldahl Nitrogen (TKN)	Organic Nitrogen (N)	Total Nitrogen	Rainfall in 24 hours	Tidal Stage	Water Color	Surface Condition	Cloud Cover	Wind DIRECTON	Wind SPEED m/s	Weather	Wave Height	Data Entered by	Captain	Sampling Leader	Notes
Site 19	4/19/2021	7:45 AM	10.9	10.91	10.91	26.04	26.12	26.07	8.11	8.12	8.11	10.17	10.17	10.17	108.7	108.8	108.8	1.6	4.96	11.6		<1	<1							0	2	5	6	1	NE	2.2	1	0.0	nh	pj	pj	surface water-possible discharge, jellyfish
Site 19	4/26/2021	**strong wind and waves**																																								
Site 19	5/3/2021	7:30 AM	12.82	12.79	12.72	25.62	25.66	25.74	8.09	8.09	8.08	8.24	8.24	8.26	91.8	91.7	91.8	1.5	4.99	14.8		<1	<1							0	1	5	6	4	SE	1.0	3	0.0	nh	pj	pj	clear surface conditions
Site 19	5/10/2021	12:00 PM	13.18	13.35	12.84	25.53	25.52	25.86	7.90	7.91	7.92	8.57	8.60	8.67	96.6	96.9	96.9	2.2	5.23	22.3		<1	2							2	1	5	6	3	W	2.5	2	0.0	nh	pj	pj	clear surface conditions
Site 19	5/17/2021	7:30 AM	15.8	15.77	15.69	25.90	25.98	25.96	7.82	7.81	7.77	7.98	7.97	7.92	93.4	93.2	92.6	1.6	4.27	15.2		2	1							0	2	5	6	0	W	1.2	1	0.0	nh	pj	pj	clear surface conditions
Site 19	5/24/2021	7:30 AM	18.97	18.88	18.44	25.64	25.80	25.84	7.70	7.71	7.72	7.58	7.51	7.48	94.1	93.3	92.2	1.2	4.71	17.4		15	7							0	4	5	6	4	NE	2.4	3	0.0	nh	pj	pj	clear surface conditions
Site 19	6/1/2021	11:40 AM	16.17	15.9	15.29	24.18	24.46	24.94	7.78	7.80	7.77	8.02	8.26	8.15	94.0	95.9	93.8	1.4	3.27	28.2		14	3							0	3	5	6	3	NE	0.5	2	0.0	nh	pj	pj	clear surface conditions
Site 19	6/7/2021	7:30 AM	20.97	20.80	19.94	25.42	25.47	25.67	7.80	7.79	7.78	7.76	7.99	8.04	101.0	103.4	102.5	1.1	4.70	21.4		33	3							0	4	5	6	1	W	2.2	1	0.0	nh	pj	pj	clear surface conditions, % SAT closer to normal range but still higher than avg. for location
Site 19	6/15/2021	11:24 AM	20.43	20.24	19.80	25.74	25.98	26.23	8.01	8.02	8.04	8.90	9.02	9.18	115.2	115.3	116.9	0.9	4.20	24.4		29	2							1	3	5	6	3	S	1.2	2	0.0	nh	pj	pj	clear surface conditions, % SAT near top of range at all depths
Site 19	6/21/2021	7:30 AM	22.83	22.67	22.46	25.76	25.92	26.02	7.82	7.87	7.91	6.76	6.70	6.84	91.7	90.5	92.7	0.7	5.40	24.7		150	64							0	4	5	6	2	S	1.9	2	0.5	nh	pj	pj	clear surface conditions
Site 19	6/28/2021	12:00 PM	25.95	25.24	23.64	25.72	26.07	26.21	7.73	7.74	7.69	7.31	7.49	7.19	103.9	104.7	97.6	0.8	3.53	31.0		4	1							0	4	5	6	1	W	2.0	1	0.0	nh	pj	pj	clear surface conditions
Site 19	7/6/2021	7:33 AM	22.99	22.99	22.76	24.72	24.76	25.48	**no pH data, sensor unoperative**			6.35	6.32	6.46	85.3	85.0	86.9	0.8	5.36	23.0		36	15							0	4	5	6	4	SW	3.2	3	0.5	nh	pj	pj	clear surface conditions
Site 19	7/12/2021	7:35 AM	24.12	24.11	23.69	22.56	22.72	24.31	7.49	7.50	7.54	6.72	6.70	6.65	90.8	90.6	89.9	0.8	3.72	23.3		90	26							1	3	5	6	2	SW	1.0	1	0.0	nh	pj	pj	clear surface conditions
Site 19	7/19/2021	7:24 AM	25.28	25.27	25.26	25.48	25.48	25.51	7.68	7.67	7.64	5.45	5.38	5.35	76.6	75.6	75.3	0.9	5.71	21.0		24	10							0	1	5	6	4	NW	1.5	3	0.0	nh	pj	pj	clear surface conditions
Site 19	7/26/2021	10:52 AM	25.40	25.42	24.78	24.77	24.95	25.37	7.76	7.75	7.68	6.65	6.97	6.86	94.2	98.7	95.2	1.2	4.65	26.0		120	25							2	4	5	6	1	0	0.0	1	0.0	nh	pj	pj	clear surface conditions
Site 19	8/2/2021	12:28 PM	24.50	24.25	24.14	25.55	25.48	25.48	**no pH data, sensor unoperative**			6.81	6.85	6.82	94.9	95.1	94.1	1.2	4.05	23.9		<1	<1							0	2	5	6	2	NW	4.1	2	0.5	nh	pj	pj	clear surface conditions
Site 19	8/9/2021	7:29 AM	23.42	23.48	23.50	25.18	25.29	25.61	7.62	7.60	7.60	5.69	5.23	5.07	76.2	70.6	68.8	1.2	3.59	21.0		65	52							1	3	5	6	4	N	2.5	4	0.0	nh	pj	pj	clear surface conditions
Site 19	8/24/2021	sonde out of order, sonde out of order																																					es	pj	pj	clear surface conditions
Site 19	8/31/2021	11:13 AM	26.05	26.01	25.46	24.88	24.94	25.64	pH sensor broken			7.03	7.11	7.10	100.0	100.7	100.3	1.1	3.99	26.1		16	<1							1	2	5	6	4	NW	4.0	1	0.0	kp	pj	pj	clear surface conditions
Site 19	9/7/2021	12:10 PM	23.33	23.36	23.29	24.71	24.80	24.93	pH sensor broken			6.78	6.56	6.50	91.5	88.8	88.1	1.2	6.89	23.8		17	<1							0	4	4	6	0	WNW	8.0	1	0.0	es	pj	pj	clear surface conditions
Site 19	9/13/2021	12:25 PM	23.87	23.85	23.21	24.50	24.59	24.80	pH sensor broken			7.69	8.32	8.19	106.7	113.4	107.4	0.7	4.60	27.1		6	1							0	4	5	6	0	NW	10.0	1	0.5	fb	pj	pj	clear surface conditions
Site 19	9/21/2021	7:41 AM	22.77	22.91	22.96	24.73	24.97	25.13	pH sensor broken			6.83	6.78	6.74	89.9	89.5	89.2	1.3	4.07	13.9		20	3							0	4	5	6	0	E	5.0	1	0.0	fb	pj	pj	clear surface conditions
Site 19	10/4/2021	7:29 AM	20.64	20.65	20.60	24.76	24.84	25.09	pH sensor broken			6.98	6.83	6.76	89.2	87.7	87.0	1.3	5.23	18.8										<1	4	5	6	4	E	5.0	3	0.5	es	pj	pj	clear surface conditions
Site 19	10/11/2021	11:36 AM	19.17	19.18	19.21	25.24	25.24	25.32	pH sensor broken			7.23	7.17	7.17	90.0	89.6	89.5	1.5	4.59	18.8										1	4	5	6	4	NE	16.0	3	0.5	fb	pj	pj	clear surface conditions
Site 19																																										
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GENERAL TRIP NOTES

DATE	SITE	
4/19/2021	13-19	water clarity-very green, murky in Mill Neck creek
4/26/2021		anchor loop broke left side, winch slipping at rope anchor connection point, notification tag on anchor line, more bumpers and lines
6/1/2021		anchor line frayed, may need winch adjustment
6/7/2021		anchor line frayed at anchor chain, needs fixing ASAP
6/7/2021	ALL Locations	Air Temp excessive - data sheets have most locations mid to high 30's (converts to 90's - 100 F) *accuweather.com shows a high of 82 on 6/7
6/7/2021	1-11,13,14	% SAT either at top of or exceeding range at top and 1m levels, ocassionally bottom (top of range is 120%)
6/7/2021	12,16,18,19	Closer to normal (avg. around 100%) but high for locations compared to other dates this season and time of year
6/7/2021	15,17	No data recorded due to tide being too low and shallow depths
6/7/2021	ALL Locations	** % SAT very high and untypical for most locations
6/15/2021	9,10,11,19	% SAT at top of range at (top of range is 120%)
6/15/2021	15,16,17	No data recorded due to tide being too low and shallow depths
6/28/2021	Inner Cold Spring	dead fish!
6/28/2021	7,8, 15-18	No data recorded due to tide being too low and shallow depths
7/6/2021		winch is slipping on rope, pH sensor unoperative
7/12/2021		2 x CO2 canisters for life vests
7/12/2021	15-17	No data recorded due to tide being too low and shallow depths
7/19/2021	14	observed one dead fish, one dead crab
7/19/2021	2,15	Dissolved Oxygen is in the mid-4 mg/l range at the bottom water level at one site in CSH & one site In MNC
7/19/2021	17	Dissolved Oxygen is in the mid-4 mg/l range at all water levels at one site In MNC
		* DO in the 2-4 mg/l range is harmful to marine life
7/26/2021		bunker schooling at surface Oyster Bay, mostly Cold Spring Harbor)
8/2/2021		pH unreliable, consistently read same value
8/9/2021		pH seems to be working, still iffy
8/9/2021	1	DO in hypoxic range at all depths
8/9/2021	2	DO in hypoxic range at all depths
8/9/2021	3	DO in hypoxic range at bottom depth
8/9/2021	15	observed two dead fish
8/9/2021		**bacteria levels extremely high after rainfall in previous 24 hrs. Lab sheets have asterisks next to some enterococci. I think some of highest numbers we've seen. I don't know what they symbolize but I have to ask David.**
8/16/2021	NO SAMPLING	**Engine Troubleshooting**
8/24/2021	1,2,5	DO is in top of hypoxic range at all depths
8/24/2021	3,6	DO is in top of hypoxic range at Btm. Depth
8/24/2021	12	DO is in top of hypoxic range at top and 1m depths
8/24/2021	9,18	No Btm. Depth data recorded due to shallow depths
8/24/2021	13-17, 19	Sonde started malfunctioning at site 13 and thru 17 & 19
8/31/2021	2,15	DO is in hypoxic range at all depths
8/31/2021	17	DO is in hypoxic range at top and 1m depths; No Btm. Depth data recorded due to shallow depths
9/7/2021	2	DO is at top of hypoxic range at all depths
		pH sensor sent for repair - still being serviced