

Water-Monitoring Report, August 26, 2005

Below is a copy of the sampling report update for Hempstead Harbor through **August 25** for the 2005 water-monitoring season. The narrative and data are provided by:



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DO

Bottom DO levels on August 25 improved from last week—they ranged from 3.72 ppm to 5.55 ppm for three of the four upper-harbor stations. Wind and choppy water conditions prevented sampling at CSHH #2, the station closest to the mouth of the harbor.

Station Information

Waves were at about 2 feet at midharbor—i.e., CSHH #1, Beacon 11. Because of wind and waves, a full survey was conducted at only three of four upper-harbor stations. Bacteriological samples were collected at only seven of the twelve usual stations—the falling tide prevented sample collection in the lower harbor.

Color and Clarity

Secchi depth in the upper harbor measured at 1 meter. Water color was pretty evenly mixed to a normal green, although there was a high level of turbidity noted in the upper area of Glen Cove Creek.

Observations

Large numbers of gulls and terns were diving into the water as a large school of bunker entered the harbor. Fish were jumping over a wide area of the harbor as fishing boats followed. The harbor was thick with baitfish, which were particularly visible in Glen Cove Creek.

Other birds noted included 4 osprey, 4 swans, 1 snowy egret, 5 great egrets, 1 night heron, 1 blue heron, two cormorants, 10 black ducks (or possible mallard-black duck mixes).

During the falling tide, the large colony of blue mussels, mixed with some oysters, were visible on the south bulkhead in Glen Cove Creek, near the STP.

(Note: On August 23, a resident whose house overlooks the harbor near Mott's Cove reported a bad odor from the harbor during low tide on August 21 and 22. The dead soft-shell clams seen on August 19 were likely the source of this odor.)



CSHH Water-Monitoring Program 2005

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				

CSHH #1 - Beacon 11

6/2/2005	16.17	14.65	19.76	20.23	8.89	6.44	8.04	14.1	5.3	8:35
6/9/2005	18.85	18.57	19.81	19.86	6.94	6.70	7.50	25.0	1.3	9:15
6/16/2005	15.78	13.71	24.64	24.98	4.17	2.84	7.45	18.6	5.2	8:40
6/23/2005	19.97	18.00	24.16	24.64	5.61	3.02	7.62	21.3	3.5	9:25
06/30/05	18.73	17.44	24.75	25.01	5.30	3.51	7.51	22.1	3.9	8:40
07/07/05	21.73	21.75	24.31	24.39	7.15	7.09	7.86	20.7	1.8	7:55
07/14/05	22.80	21.75	24.17	24.63	3.02	2.39	7.36	25.0	3.0	8:10
07/21/05	26.40	23.90	23.70	24.29	7.69	2.57	7.80	27.2	3.0	8:05
07/28/05	23.60	23.58	24.74	24.76	4.97	4.84	7.45	24.2	4.3	9:15
08/04/05	23.84	21.96	25.04	25.39	2.95	0.53	7.28	27.2	3.6	8:30
08/11/05	24.53	23.95	25.02	25.22	2.23	1.19	7.20	27.6	2.9	8:15
08/18/05	24.19	23.51	24.89	25.31	2.06	0.11	7.29	22.0	3.6	8:15
08/25/05	23.93	23.95	25.44	25.52	5.68	5.55	7.59	20.8	2.3	8:15

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				

CSHH #2 - Bell Marker 6

6/2/2005	16.15	14.32	20.08	20.45	10.59	7.77	8.29	18.2	8.6	10:55
6/9/2005	19.17	15.10	20.04	20.52	9.79	4.94	7.50	24.3	7.0	9:40
6/16/2005	17.56	13.53	24.6	25.07	8.77	3.94	8.17	20.5	8.3	10:05
06/23/05	19.10	16.69	24.63	24.92	8.30	4.49	8.10	22.0	7.2	10:10
06/30/05	19.28	17.05	24.77	25.11	8.45	4.98	7.95	24.5	8.3	9:20
7/7/2005	21.02	18.29	24.72	25.24	9.56	4.91	8.28	20.1	5.0	8:25
7/14/2005	22.39	21.10	24.26	24.79	7.19	5.34	7.90	25.2	7.3	8:40
07/21/05	25.25	20.87	24.31	24.95	9.41	1.82	8.17	28.4	7.3	9:00
07/28/05	22.82	22.51	25.09	25.12	6.85	6.27	7.81	24.0	5.5	9:45
08/04/05	24.06	21.64	25.24	25.48	6.06	1.59	7.65	28.5	7.6	9:15
08/11/05	23.78	21.52	25.49	25.79	6.37	0.23	7.68	29.0	7.4	8:45
08/18/05	24.21	23.56	25.42	25.47	5.79	4.38	7.74	22.4	8.6	10:00
08/25/05	Abandoned station because of wind and waves.									



CSHH Water-Monitoring Program 2005

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				

CSHH #3 - Glen Cove Creek, Red Marker

6/2/2005	16.63	14.50	19.66	20.42	9.43	5.88	8.16	18.3	4.4	11:25
6/9/2005	19.52	17.70	20.10	20.24	11.05	7.22	8.00	25.5	3.5	10:20
06/16/05	17.57	15.26	24.41	24.85	7.45	5.07	7.99	20.1	4.0	10:30
06/23/05	19.13	17.95	20.52	24.83	6.95	5.64	7.91	23.1	4.6	10:40
06/30/05	19.25	17.07	24.58	25.06	6.34	3.47	7.63	24.6	4.4	9:45
07/07/05	20.56	20.33	24.50	24.89	7.95	7.14	8.05	19.8	3.6	9:00
07/14/05	22.50	21.23	23.05	24.80	5.70	3.30	7.64	26.3	3.8	9:00
07/21/05	25.71	22.23	24.06	24.62	9.23	2.24	8.07	28.9	4.0	9:20
07/28/05	23.29	22.68	24.35	24.97	5.83	4.47	7.61	24.3	3.3	10:20
08/04/05	23.94	21.92	25.18	25.43	5.51	1.77	7.57	28.8	4.9	9:55
08/11/05	24.47	22.31	24.81	25.70	6.51	0.68	7.70	28.2	3.2	9:10
08/18/05	24.22	23.44	24.83	25.40	4.65	2.18	7.46	22.6	5.5	10:35
08/25/05	23.99	23.96	25.57	26.15	4.58	4.00	7.54	21.5	3.1	8:50

Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				

CSHH #8 - (Glen Cove Sewage Treatment Plant)

6/2/2005	16.97	16.50	17.31	20.00	7.92	8.24	7.76	19.0	1.9	11:45
6/9/2005	20.15	19.50	17.02	19.99	8.99	8.81	7.90	28.0	1.7	10:50
6/16/2005	Cleanup of oil spill (6/15/05) in Glen Cove Creek prevented sampling by STP.									
06/23/05	19.39	19.11	23.83	24.39	7.00	6.38	7.91	23.1	3.3	11:05
06/30/05	20.19	19.38	24.29	24.63	5.10	4.97	7.44	24.8	2.4	10:05
07/07/05	20.62	20.57	24.70	24.78	6.25	6.16	7.79	20.7	2.0	9:30
07/14/05	22.62	22.31	23.85	24.29	5.10	3.92	7.60	26.5	2.0	9:20
07/21/05	25.45	25.39	23.19	23.97	8.35	7.75	7.97	29.2	3.1	9:50
07/28/05	24.16	23.45	21.60	24.95	4.61	4.07	7.41	25.4	1.5	10:50
08/04/05	24.51	23.33	21.74	25.23	5.44	2.97	7.43	31.2	3.2	10:20
08/11/05	25.38	24.13	23.69	25.09	7.95	4.40	7.48	30.6	1.5	9:35
08/18/05	24.26	24.12	22.05	25.02	3.31	2.72	7.34	24.4	3.8	11:05
08/25/05	24.63	24.22	25.81	25.95	3.61	3.72	7.41	22.4	1.4	9:30



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Date	Water Temp (°C)		Salinity (ppt)		DO (ppm)		pH	Air Temp (°C)	Depth (m) (bottom)	Time
	Surface	Bottom	Surface	Bottom	Surface	Bottom				
CSHH #4 - Bar Beach Spit										
06/02/05	15.77	15.20	20.05	20.21	7.88	6.77	7.90	17.4	3.2	10:35
08/04/05	25.25	22.40	24.90	25.33	7.23	1.53	7.72	30.6	6.1	11:15
CSHH #5 - Mott's Cove										
06/02/05	16.26	15.30	19.61	19.94	7.66	6.61	7.88	16.5	1.6	10:15
08/04/05	24.42	23.38	25.06	25.19	4.45	2.45	7.37	29.9	2.0	11:40
Clam kill between CSHH #5 and CSHH #6							1.50			
CSHH #6 - East of Former Incinerator Site										
6/2/2005	16.52	15.78	19.72	20.04	7.75	6.48	7.90	16.5	1.9	10:00
08/04/05	25.23	24.66	24.85	25.02	4.73	4.76	7.40	31.4	1.9	11:55
CSHH #7 - West of Bryant Landing (formerly site of oil dock)										
06/02/05	16.92	16.22	19.49	19.89	7.05	6.41	7.75	16.3	1.6	9:55
8/4/2004	26.39	25.62	24.49	24.67	8.35	7.19	7.79	30.9	1.9	12:00