

Water-Monitoring Report, September 5, 2006

Below is a copy of the sampling report update for Hempstead Harbor through August 31 for the 2006 water-monitoring season. The narrative and data are provided by:



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The water-monitoring season for 2006 began on April 21, 2006, with a survey of all of the monitoring stations in Hempstead Harbor that have been established since the inception of the Coalition to Save Hempstead Harbor's Water-Monitoring Program in 1992. Weekly monitoring began on June 1. This year, the Hempstead Harbor Protection Committee (HHPC) took over responsibility for fully funding the program, and the Coalition to Save Hempstead Harbor will continue to coordinate the program as the HHPC's subcontractor.

AUGUST 31

Wind and waves at the mouth of the harbor prevented our sampling at CSHH #2 (Bell 6). Low tide prevented us from getting into the lower harbor. Thursday's sampling followed seven consecutive days of rain, although total rainfall for that period was less than anticipated—68.5 mm (about 2-3/4 inches).

Early Wednesday morning (August 30), there had been 3 mm of rain, which did not get in the way of Glen Cove's scheduled boat tour of the creek. Glen Cove received a grant from DOS to map discharge pipes along both sides of the creek and locate the sources of the pipes. CSHH joined city representatives and representatives from the city's consulting firms that are working on the outfall mapping/sourcing project.

On Thursday, August 31, a Nassau County DPW representative scheduled to meet us at CSHH # 8 to take additional samples at CSHH #8-10 and at other discharge areas as well, including the outfalls on the north side of the creek that were causing the discoloration of the creek water.

Temperature and DO

On *August 31*, air temperature and water temperature dropped significantly from previous weeks. Air temperature ranged between 16°C and 17°C during our sampling. Water temperature hovered around 22°C at both the surface and bottom at the three stations sampled in the upper harbor. Bottom DO was at about 3 ppm at the three stations sampled.

Color and Clarity

On August 31, harbor water was a normal green and very clear. Secchi depth was at about 1 to 1.7 meters. However, in Glen Cove Creek, outfalls on the north seawall near the Doxie and Li Tungsten sites had strong flows that were discoloring the creek with brown sand and sediment.

Observations

Wildlife

Birds observed on August 31 included 3 ospreys, 7 swans, 7 cormorants, 18 ducks, 10 geese, 5 blue herons, 1 egret. Comb jellies were observed throughout most of the harbor.

Fishing Report

Pete Emmerich reported that on Wednesday night, August 30, he caught a 21-inch fluke in the harbor; he said he knew there were more fluke around, but the bottom was loaded with calico crabs, which were stealing his bait. He also noted that there were lots of bait fish in the harbor and strong bluefishing.

Human Activities

On August 24, the usual barges were still in the lower harbor, and about 24 barges were tied up by the gravel operation. A barge mooring can was still tied close to the middle of the harbor with loose lines drifting on the surface. A tug and fuel barge were at the Mobil terminal.



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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 #1 - Beacon 11										
6/1/06	16.63	15.36	25.02	25.17	8.17	8.48	7.01	23	2.2	9:11
6/8/06	17.52	17.5	24.00	24.74	8.00	7.00	7.35	18.9	4.3	9:05
6/15/06	18.48	18.38	24.22	24.39	9.36	8.78	7.70	21.0	2.2	9:35
6/22/06	20.1	16.67	25.22	25.97	7.69	5.09	8.22	25.2	4.6	9:15
6/29/06	19.16	18.84	25.72	25.84	5.03	4.71	7.90	24.0	2.3	8:35
7/7/06	22.04	20.56	24.39	25.27	10.03	4.79	8.00	21.6	4.7	9:06
7/13/06	21.10	20.35	24.99	25.11	4.40	4.22	8.00	25.6	1.1	8:40
7/20/06	23.26	19.84	25.58	26.52	7.48	3.77	7.80	23.8	4.8	8:50
7/27/06	23.40	22.36	25.94	26.25	4.27	2.30	N/A	25.7	1.7	8:40
8/2/06	26.14	24.62	25.03	25.33	6.28	3.32	8.00	32.1	3.3	8:45
8/10/06	24.89	23.54	25.47	25.86	4.28	2.48	7.00	25.5	2.9	8:50
8/17/06	24.95	23.35	25.62	26.19	5.23	4.21	7.38	24.0	4.1	9:10
8/24/06	25.06	24.58	25.71	26.10	5.22	3.47	7.40	21.1	2.9	8:30
8/31/06	22.16	22.12	25.53	25.56	3.56	2.97	7.50	16.2	3.6	8:44

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										
6/1/06	17.09	16.27	25.89	25.95	10.99	10.53	7.47	23.0	6.5	9:45
6/8/06	17.53	17.17	25.26	25.45	8.54	7.43	7.46	18.6	6.2	10:45
6/15/06	18.47	16.48	25.01	25.73	11.02	6.12	7.86	22	6.2	10:05
6/22/06	19.85	16.63	25.59	26.07	9.97	7.23	7.93	26.3	8.6	10:20
6/29/06	18.74	18.10	26.14	26.25	8.50	7.37	7.89	23.7	6.4	9:20
7/7/06	22.25	17.57	24.82	26.12	10.06	4.50	8.00	26.0	7.9	11:26
7/13/06	19.58	17.49	25.89	26.52	6.61	5.87	7.50	26.2	6.9	9:10
7/20/06	21.54	20.03	26.34	26.56	7.90	4.62	7.80	22.6	7.4	10:05
7/27/06	22.32	19.59	26.30	26.83	7.00	0.98	7.80	27.2	7.4	9:10
8/2/06	25.20	19.71	25.49	26.20	8.74	0.14	7.90	32.3	7.5	9:40
8/10/06	23.24	22.98	26.13	26.32	6.96	2.15	7.50	28.7	8.7	10:25
8/17/06	23.80	22.30	26.10	26.48	8.75	2.27	7.95	23.4	7.5	9:50
8/24/06	23.97	22.63	26.39	26.67	6.61	3.06	7.59	21.7	6.0	9:03
8/31/06	No water sampling at this site because of high wind and waves (2-3 foot waves).									

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										
6/1/06	18.07	15.16	25.20	25.96	10.66	9.10	7.60	24.0	3.2	10:15
6/8/06	17.67	17.17	24.25	25.22	8.23	8.5	7.46	19.4	4.79	11:10
6/15/06	18.69	18.65	24.74	24.74	9.95	11.94	7.89	23.0	2.6	10:30
6/22/06	19.81	17.00	25.43	25.97	9.23	5.11	7.92	25.1	4.9	10:45
6/29/06	19.18	18.85	25.95	26.09	7.62	7.10	7.88	25.4	2.9	9:55
7/7/06	22.46	20.46	24.34	25.39	10.31	5.72	8.00	25.3	4.2	11:44
7/14/06	21.01	19.87	23.72	25.49	7.48	5.24	7.50	25.7	2.9	9:35
7/20/06	20.56	19.00	26.01	26.69	7.39	2.93	7.80	22.9	5.0	10:30
7/27/06	23.40	21.94	25.90	26.35	7.65	4.14	7.80	27.1	3.4	9:35
8/2/06	26.89	23.31	24.89	25.48	8.64	4.85	7.70	34.7	3.3	10:06
8/10/06	24.23	22.91	25.79	26.21	6.64	3.90	7.00	29.0	4.9	11:45
8/17/06	23.95	23.39	25.50	26.27	7.74	7.44	7.76	25.5	1.8	10:16
8/24/06	24.13	24.38	26.02	26.31	7.53	7.08	7.70	21.9	3.9	9:23
8/31/06	21.71	21.95	25.75	26.38	3.69	2.37	7.50	16.2	3.8	9:30

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										
6/1/06	18.52	17.30	22.89	25.41	9.44	10.16	7.51	26.0	1.4	10:35
6/8/06	17.79	17.43	20.91	24.73	8.22	7.67	7.44	19.6	3.2	11:30
6/15/06	19.83	18.30	22.98	24.94	11.09	10.36	7.96	24.0	1.4	10:50
6/22/06	20.68	18.90	21.49	25.62	8.07	6.62	7.90	26.0	3.2	11:05
6/29/06	19.61	19.12	21.42	25.64	6.19	5.08	7.83	27.0	1.0	10:30



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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				
7/7/06	22.76	21.79	22.09	24.79	8.45	7.75	8.00	26.0	2.5	12:06
7/14/06	22.37	20.90	20.58	24.60	7.25	5.17	7.50	25.8	1.4	9:50
7/20/06	22.36	20.41	24.91	26.45	6.64	4.18	8.00	25.2	2.9	10:55
7/27/06	23.83	22.62	23.90	26.21	6.84	3.22	N/A	28.3	2.2	10:00
8/2/06	25.88	25.49	22.39	25.23	10.34	7.90	7.60	34.3	1.6	10:40
8/10/06	23.92	24.15	22.40	25.43	7.08	6.66	7.50	28.0	3.7	11:20
8/17/06	24.26	24.10	24.95	25.96	7.23	6.60	7.65	24.0	2.2	10:45
8/24/06	24.52	24.12	23.23	26.25	7.03	4.92	7.61	22.6	2.7	9:55
8/31/06	21.73	22.15	24.25	25.69	3.81	3.17	7.50	17.0	1.9	10:00

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



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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										
6/8/06	17.75	17.49	23.83	24.59	8.14	7.17	7.36	18.8	3.6	10:30
7/7/06	23.29	18.79	24.67	25.67	7.58	2.90	8.00	24.3	6.6	11:02
8/24/06	24.48	24.28	26.14	26.22	4.93	3.96	7.49	24.9	2.9	10:38
CSHH #5 - Mott's Cove										
6/8/06	17.60	17.50	23.69	24.00	7.87	7.43	7.39	20.0	1.7	9:40
7/7/06	22.55	22.52	24.12	24.32	7.12	7.11	8.00	23.6	1.5	9:43
8/24/06	25.27	25.05	25.60	25.90	4.48	4.10	7.36	24.8	1.6	10:52
CSHH #6 - East of Former Incinerator Site										
6/8/06	17.71	17.46	23.02	23.75	7.42	7.17	7.37	19.5	2.0	9:55
7/7/06	22.65	22.67	23.80	24.09	7.88	7.41	8.00	24.4	1.7	10:05
8/24/06	no sampling because of osprey rescue									
CSHH #7 - West of Bryant Landing (formerly site of oil dock)										
6/8/06	16.69	17.42	16.75	22.99	6.85	6.59	7.23	19.0	1.9	10:10
7/7/06	22.70	22.63	23.10	23.93	9.55	5.92	8.00	25.1	1.6	10:30
8/24/06	no sampling because of osprey rescue									

