

Endothall Monitoring Minimum Sampling Schedule - Summer 2013

Application Begins

Cayuga Lake and Inlet, Ithaca NY

New York State Department of Health (NYSDOH) Maximum Contaminant Level (MCL) for endothall in drinking water: MCL = 50 ppb. Results below are in ppb.

Site	Location	Application Begins																	
		Background	Day 1	24 hrs	Day 3	ELAP split	Day 4	Day 5	ELAP split	Day 7	ELAP Split	Day 10	ELAP Split	Day 14	ELAP split	Day 17	ELAP split	Day 21*	
		ELAP Lab 6/26/2013	7/11/2013	7/16/2013	7/17/2013	7/18/2013	7/19/2013	7/20/2013	7/22/2013	7/25/2013	7/29/2013	8/1/2013	8/5/2013						
NYSDEC Required Sampling - bottom of water column																			
S12-CC	Shoreline - 0.5 mile upstream on Cascadilla Creek				22	32	nd		nd		nd			nd					
S12-I	Shoreline - 0.5 mile upstream on East Side of Inlet				12	24	7		7					nd					
S12-89W	Shoreline - 0.5 mile on west lakeshore close to Rt 89				18	17	nd		8					nd					
S12-SM	Shoreline - 0.5 mile upstream on Sixmile Creek				12	11	9		nd					nd					
S12-SP	Shoreline - 0.5 mile on east lakeshore at Stewart Park				nd	9	nd		nd					nd					
TCHD Required Sampling - middle of water column																			
BP-I	Bolton Point intake ~70' below lake surface	nd				42†	nd		nd	nd	9†			nd	nd	34†	nd	nd	nd
BP-D	Bolton Point distribution system entry point						nd		nd	nd				8	nd	34†	nd		
B-ET	Shoreline - End of treatment area		nd	1993**		1803**					<70				9			nd	
B-AHT	Shoreline - Treman Park Marina application area		nd	2076**		1834**					130				nd			nd	
B-Mouth	Shoreline- Northern edge of application area		nd	nd		612					86				nd			nd	
B-SM	Shoreline - Six Mile Creek in application area		nd	1324		460					<70				12			nd	
Total number of samples collected		2	4	4	5	10	2	5	2	2	10	2	1		10	2	1		4

* See TCHD sampling notes below

** Estimated, based on linear calibration curve.

nd = less than the level of quantification (LOQ) of 7 ppb unless otherwise indicated

Note that endothall application concentration level of 3 ppm (parts per million) = 3,000 ppb (parts per billion)

Additional samples may be required depending on concentrations detected. Archived samples will be analyzed as warranted by other results.

ELAP means the lab used has been certified by the NYSDOH Environmental Laboratory Approval Program to conduct the analytical procedure used.

† The Health Department suspects there is some type of interference affecting the ELISA results and is looking into it further. The GC/MS method of the ELAP lab results in non-detections.

NYSDEC

If concentrations are found above detectable limit at any NYSDEC site, an increased sampling protocol of 0.25 mile intervals, as well as notification of the riparian owners and users will be required as determined by the Department until concentrations are below detectable limits.

TCHD

B-SM, B-AHT, B-ET and B-Mouth: Sampling should continue through Day 3, 7, 10, 14 or until there are two consecutive samples where all concentrations are <50ppb

Bolton Point Intake: Sampling should continue through Day 3, 7, 10, 14, 21...until there are two consecutive samples <10ppb after a detection of ≥10ppb, or until day 14, whichever comes later.

Bolton Point Distribution System Entry: Sampling and archiving should continue on the same schedule as intake sampling. Two consecutive samples at the distribution system entry point will be analyzed if there is a detection ≥10ppb at the Bolton Point Intake.