

October 21, 2011



SYDNEY TAR PONDS AGENCY
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ATTENTION: Peter Weaver, P.Eng.

***Monthly Monitoring Report – July 2011
Surface Water Compliance Monitoring at Battery Point Compliance Station
Environmental Effects Monitoring and Surface Water Compliance Monitoring
Program Sydney Tar Ponds, Sydney, Nova Scotia***

Dillon Consulting Limited's (Dillon's) Environmental Effects Monitoring and Surface Water Compliance Monitoring (EEM/SWCM) contract with the Sydney Tar Ponds Agency (STPA) requires monthly surface water quality (continuous) monitoring and compliance sampling. This letter report presents the eleventh month of the second year of construction monitoring at the Battery Point Compliance Station.

The Battery Point surface water compliance station was established to monitor surface water quality emanating from the project site, assess changes in surface water quality as it may relate to remediation activities on-site as well as to serve as an early warning system. It is Dillon's understanding that project specific discharge guidelines have been developed for use by the project remediation contractors. The Battery Point Compliance Station monitors surface water quality flowing in and out of Muggah Creek and based on discussions with the STPA, the monitoring results at Battery Point are not compared to the project specific discharge guidelines.

Sample water was collected via an intake screen located approximately 18m outside the mouth of the north pond, approximately one meter above the sea floor. Approximate total water depth at the intake location ranges from 1.3 to 2.5 meters. The intake system was replaced in June 2011 and is currently located 1.5m from the south caisson in the mouth of the North Pond. The Battery Point Compliance Station is designed to continuously monitor turbidity, pH and conductivity and electronically transfer the data to a central computer at STPA.

Sample collection is automatically triggered when turbidity concentrations above 88 NTUs¹ are detected or 10 mm of precipitation in 24 hours occurs (reset at midnight

¹ The turbidity trigger threshold concentration of 88 NTUs for automated sample collection at the Battery Point Compliance Station during Construction Monitoring was calculated as part of the Pre-Construction/Baseline component of the work.

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