

Sampling Plan for Importation of Fill from NYSDOT Niskayuna Project to the former ALCO Site – Schenectady, NY

Introduction

This sampling plan has been prepared to describe the rationale and procedures for performing sampling and analysis at the ride-widening project to be undertaken by the New York State Department of Transportation (NYSDOT) in Niskayuna, New York to allow soils to be taken from this site to the former ALCO site in Schenectady. The former ALCO site has been accepted into the New York State Department of Environmental Conservation (NYSDEC) Brownfields Cleanup Program (BCP), and fill soils brought to the site must meet the criteria provided in NYSDEC DER-10. The Niskayuna site is located on the east side of Balltown Road, south of the Rexford Bridge. The site location is shown on Figure 1.

Initial Sampling of Clean Fill Source

An initial round of soil sampling will be conducted per DER-10, which will consist of collection of seven samples for the analysis of Target Compound List (TCL) volatile organic compounds (VOCs) and two composite samples for the analysis of TCL semivolatile organic compounds (SVOCs), TCL pesticides, TCL Pesticides and polychlorinated biphenyls (Pest/PCBs) and Target Analyte List (TAL) inorganics. Preliminary sample locations are shown on Figure 1, and were based on the anticipated construction starting areas; actual sample locations will be determined in consultation with NYSDEC. At each location, a Macro Core sampler will be used to advance the borehole to a depth of roughly 15 feet. The depth at which samples will be collected will be determined based on visual observation and in consultation with NYSDEC. A total of eight (8) borings will be advanced, and VOC samples will be collected from seven of these borings; a subsample will be collected from each of the eight borings that will be used to form the two composite samples to be analyzed for SVOCs, Pest/PCBs and TAL inorganics (four subsamples will be used to form each composite sample). Geotechnical samples will also be collected at selected sample locations, to be analyzed for grain size, bulk density, Atterberg Limits, and percent moisture.

Sample collection, cleaning of sampling equipment, compositing of samples and sample chain of custody will be performed in accordance with DER-10. A letter report will be prepared and submitted to NYSDEC to present the findings.

Follow-up Sampling of Clean Fill Source

Assuming that the results of the initial sampling indicate that the clean fill source is acceptable to NYSDEC, subsequent soil sampling would be on a reduced frequency; during the initial meeting, NYSDEC indicated a subsequent sample frequency in the range of every 5,000-10,000 yd³ of soil. Follow-up samples will be collected at different occasions as the soil is removed over the course of the DOT project, and follow-up samples can be collected by hand and will consist of two VOC grab samples and one composite sample to be analyzed for SVOCs, Pest/PCBs and TAL inorganics. Given the large amount of soil that will be generated by the DOT project (estimated to be 80,000-120,000 yd³), we will consult with NYSDEC on potential further reductions in sample frequency, assuming that the first few samples establish the suitability of the fill soil per DER-10 requirements and changes in the soil being excavated are not evident.

Comments are acceptable and will be attached as an addendum to the work plan

Andrew J. Barber

Barton & Loguidice, P.C.

From: John Strang [mailto:jrstrang@gw.dec.state.ny.us]
Sent: Wednesday, June 15, 2011 2:46 PM
To: Andrew Barber
Cc: Christopher O'Neill; Keith Goertz; ajd03@health.state.ny.us
Subject: Re: ALCO - Niskayuna DOT Site

Andrew, the Region Four office (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed the attached soil sampling work plan and we provide the following comments:

1. Plan on taking samples from the top two feet and bottom two feet from each boring, but adjustments may be made based on field observations (soil type, odor, etc.) and the geotechnical samples.
2. Have available additional composite and VOC soil sampling containers (we reserve the right to ask for an 8th VOC sample to match the planned eight soil borings).
3. Have available a hand-auger or shovel for possible shallow soil sampling along the side of the lower slope.

With Barton and Loguidice's acceptance of these comments, the NYSDEC and NYSDOH approve the Sampling Plan for Importation of Fill from NYSDOT Niskayuna Project to the former ALCO Site. Attach this email as an addendum to the work plan.

Contact me if you have any questions. I plan to be at the DOT site on Friday June 17, 2011.

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>>> Andrew Barber <ABarber@bartonandloguidice.com> 6/14/2011 4:01 PM >>>
John " attached is the sampling plan for the DOT site in Niskayuna - have put
the borings towards the top of the site, as that is where Maloy plans on
starting -Andy

Andrew J. Barber
Sr. Environmental Consultant

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