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Stantec

May 7, 2007

Ms. Charlotte Theobald
New York State Department of Environmental Conservation
Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, New York 14414-9519

RE: Perimeter Soil Vapor Sampling Work Plan
Former Davidson Collision Site
399 Gregory Street
Site No. C828091
City of Rochester, Monroe County

Dear Charlotte:

On behalf of the City of Rochester (City), please find enclosed the Perimeter Soil Vapor Survey Work Plan prepared by Stantec Consulting Services Inc. (Stantec) for the former Davidson Collision Site located at 399 Gregory Street, in the City of Rochester, Monroe County, New York.

Background

It is understood that a perimeter soil vapor sampling survey for 399 Gregory Street has been requested by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH).

For the purpose of conducting the perimeter soil vapor survey, site background information (i.e. geology, hydrogeology, identified environmental contamination, etc.) will be obtained from the existing site database which is presented in the September 2006 Remedial Investigation Report.

Scope of Services

The objective of the perimeter soil vapor survey is to evaluate the potential for current on-site or off-site volatile organic vapor exposures along the site's perimeter. The former Davidson Collision building at 399 Gregory was demolished by the City in 2005 and the property is now vacant. Therefore, a pre-sampling building inspection will not be required.

Soil vapor sampling will follow the protocols outlined in the October 2006 New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York. A total of five (5) of the soil implants are proposed to be installed along property lines. As discussed with NYSDEC, the proposed sampling locations are focused on Remedial Area of Concern 1 (RAOC 1) and RAOC 2. Tentatively proposed sampling locations are shown on Figure 1. It is understood that the final sampling locations will be approved by the NYSDEC and NYSDOH.

The soil implants will be constructed using a hollow 1.5-inch stainless steel probe using direct push methods by Nothnagle Drilling. Once a target depth of 6.0 ft. below ground surface is reached, a vapor probe consisting of a stainless steel 6- inch screen attached to soil gas tubing (i.e. ¼ I.D. laboratory grade HDPE) will be installed. The borehole annulus will then be backfilled around the sample screen with glass beads to form the sampling zone. The sampling zone will be sealed with non-shrinking bentonite cement grout. The tubing will be capped and the grout will be allowed to set for approximately 24 hours.

Prior to sample collection, one to three soil vapor volumes (the volume of the sample probe and tube) will be purged to ensure that the sample is representative of the sub-soil vapor environment. The sample will be collected over a period of approximately two hours. The flow rates for both purging and collecting will not exceed 0.2 liters per minute.

Five (5) samples (GR-SG2-A to GR–SG6-A) will be collected using laboratory-certified clean, one-liter Summa-canisters and analyzed for volatile organic compounds (VOCs) by Paradigm Environmental Services using EPA Method TO-15.

Stantec will also collect one (1) outdoor background air sample (GR-BK2-A) simultaneous with the sub-surface vapor samples. This sample will be collected using the same procedures as the subsurface samples except it will be collected at an upwind location at a height 3 – 5 ft. above ground surface to represent the breathing zone.

Reporting

Following receipt of the laboratory data, a letter report will be prepared. The report will describe the field observations, the sampling procedures followed, and the analytical results. Copies of laboratory analytical reports will be appended. Copies of the report will be submitted to the NYSDEC, NYSDOH and MCDOH.

Schedule

Following receipt of NYSDEC and NYSDOH comments, we will finalize the work plan. The fieldwork will be scheduled contingent on receipt of approval to proceed from the NYSDEC; coordination of a suitable date with the City, NYSDEC, NYSDOH, and MCDOH; and drilling contractor availability. It is understood the NYSDEC would like 10 days advance notice of the fieldwork. The fieldwork is expected to take two days to complete and will be conducted consecutively with the Remedial Design Investigation for RAOC 3; the Work Plan for which is presented under separate cover. The laboratory results are expected to take approximately two weeks. The letter report will be prepared and forwarded to the NYSDEC and other agencies within approximately two weeks of receipt of the laboratory data.

Should you have any questions, or require further information, I would welcome your calls.

Sincerely,

Stantec Consulting Services Inc.

Michael P. Storonsky
Senior Associate

Attachment:
Figure 1 – Proposed Soil Vapor Sampling Locations

cc: Melissa Menetti (NYSDOH – Troy)
Joseph Albert (MCDOH – Rochester)
Mark Gregor (City of Rochester)
File

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