

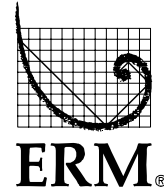
**Environmental  
Resources  
Management**

5788 Widewaters Parkway  
Dewitt, NY 13214  
(315) 445-2554  
(315) 445-2543 (fax)

30 January 2006

VIA E-mail: [tssuozzo@gw.dec.state.ny.us](mailto:tssuozzo@gw.dec.state.ny.us)

Mr. Tom Suozzo, P.E.  
NYSDEC - Region 7  
1679 Route 11  
Kirkwood, NY 13795-9772



RE: Soil Vapor Sampling Work Plan  
Former Robintech/Compudyne Site (NYSDEC Site 7-54-007)

Dear Mr. Suozzo:

As requested, and on behalf of Sanmina-SCI, Environmental Resources Management (ERM) has prepared this scope of work to implement a focused soil vapor survey south of the Former Robintech/Compudyne Site (Robintech). The survey is designed to evaluate whether chlorinated volatile organic compounds (CVOC) are present in soil vapor notably south of identified on-site affected areas.

The Robintech property is located on Taylor Road in Owego, New York. The area of concern is the area south of the Former Robintech Building. To evaluate soil gas concentrations, ERM proposes to install five soil vapor points south and west of the site as shown in Figure 1. The five locations will be evenly spaced on approximately 150-foot centers beginning approximately 750-feet west of Barnes Creek. In general, one ground water sample and two soil vapor samples will be collected at each sample location. ERM will coordinate with the third-party, which may be the New York State Department of Environmental Conservation (NYSDEC), conducting sampling to the immediate east towards Barnes Creek. To the extent possible, testing will be completed simultaneously.

All sample points will be installed with direct-push technology such as a Geoprobe™, where possible. If direct push techniques are not adequate, hollow stem auger techniques will be employed.

The soil vapor investigation will be performed in general accordance with the New York State Department of Health (NYSDOH) "Guidance for evaluating Soil Vapor Intrusion in New York State" (Public Comment Draft,

*February 2005*). Two soil vapor probes will be installed at each sample location. The soil vapor implants will be installed at 1-foot above the water table, and at 8-feet below grade. If the water table is located less than 15-feet below grade, one sample only will be collected from approximately 8-feet below grade.

Discrete ground water samples will be collected by advancing the protected Geoprobe™ well screen to the desired depth below the water table and retracting the push rod allowing ground water to enter the exposed well screen. Ground water samples will be pumped to the surface with a peristaltic pump through small-diameter polyethylene tubing. The ground water will be purged from the well point until clear. Purge water will be discharged to the ground away from the sample point. Prior to discharge, the purge water will be screened for odors and volatile organic compounds (VOCs) with a photoionization detector (PID). If odors or VOCs are present in the water, the water will be staged in an appropriate container for disposal. The sample will be analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method 8260 analytical methods.

Soil vapor points will be constructed in a separate boring from the ground water sample with a stainless-steel implant connected to the surface with dedicated polyethylene tubing. All implants will have a screen-pore diameter of 0.0057-inches or less. The annular space around the implant will be filled with glass beads from the bottom of the boring to 6-inches above the top of the implant. The remaining annular space will be filled with hydrated bentonite pellets and a cement/bentonite grout to the ground surface. The annular space will be enlarged at the ground surface to a minimum 1-foot diameter. The cement/bentonite grout will be used to fill the enlarged annular space to ensure a tight ground seal.

All sample points will be left to equilibrate for 24-hours prior to purging and sampling. Prior to vapor sample collection, all sample points will be purged of at least one and not more than five sample point volumes with a flow-rate not to exceed 0.2 liters per minute. At two locations, a tracer gas study will be conducted evaluate whether ambient air is being drawn into the vapor probe.

All soil vapor samples will be collected with 6-liter SUMMA cans with calibrated flow regulators to draw the sample over a two hour interval. All samples will be shipped under chain of custody to Spectrum Analytical

Mr. Tom Suozzo, P.E.

NYSDEC

30 January 2006

Page - 3

Environmental Resources Management

Laboratory of Agawam Massachusetts, a New York State ELAP approved laboratory. Samples will be analyzed for CVOCs by USEPA TO-15 methods. The analyses will achieve a minimum detection limit of 1.0 ug/m<sup>3</sup> for all parameters except when sample dilution is required. As specified in the Division of Environmental Remediation, Draft Technical Guidance for Site Investigation and Remediation (DER-10), all samples used "final delineation" will conform to Analytical Services Protocol (ASP) Category B deliverables. All laboratory data be validated and a Data Usability Summary Report (DUSR) will be prepared for Department review.

In addition to the five soil vapor and ground water samples collected at the locations specified on Figure 1, ERM will collect one soil vapor duplicate on the day of vapor collection.

All data will be compiled into a short letter report and provided to the NYSDEC within 30 days of receipt of data.

Please call me if you have any questions or comments.

Sincerely,



Edward Hinchey, P.G.

Partner In Charge

Attachment

ATTACHMENT A  
(Site Figure)



Soil Vapor  
Sample Point

● Soil Vapor Point

## Soil Vapor Sample Points

PREPARED FOR: Sanmina-SCI



**ERM**

SCALE  
As Shown

DATE  
January 2006

FIGURE

1