

10 December 2008

Girish Desai, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
Region 1 Office
Loop Road Building 40
Stony Brook, New York 12180-2216



RE: 400 Lakeville Road
Order on Consent Index Number D1-0501-06-12
Work Plan Addendum for Installation of Off-Site Vertical Profile
Borings

Dear Mr. Desai:

This addendum is submitted in response to the New York State Department of Environmental Conservation (NYSDEC) 9 September 2008 comment letter on the Environmental Resources Management's (ERM) 400 Lakeville Road Draft Preliminary Site Assessment Report. NYSDEC Comment No. 1 indicates that the NYSDEC considers installation of off-Site monitoring wells necessary to define the extent of the groundwater plume. In response, ERM proposes the installation of two additional vertical profile borings and subsequent monitoring wells to address the NYSDEC's concerns.

As indicated in the Approved Preliminary Site Assessment (PSA) Work Plan, installation of off-Site monitoring wells was to be evaluated at three locations: adjacent to Nassau County Department of Public Works (NCDPW) Monitoring Well N-10290 (see attached figure), at Lockheed Martin Corporation (LMC) Cluster 37 (Lakeville Jewish Center) and at LMC Cluster 38 (Great Neck Public School). Based on the groundwater monitoring data collected by ERM and Arcadis, Inc (on behalf of LMC), ERM agrees with the NYSDEC regarding the lack of plume definition in the latter two locations, i.e., the Lakeville Jewish Center and Great Neck Public School. The highest concentration of Freon 22 detected during the PSA was observed in Upper Glacial well (MW-18GL) located in LMC Cluster 18 (Northern State Parkway exit ramp), which is the nearest well cluster upgradient of LMC Clusters 37 and 38. The center of the screen

zone in monitoring well MW-18GL is at an elevation of -16.15-feet mean sea level (msl). The shallowest well at Cluster 37 is screened at -68.21-feet msl and at Cluster 38 the shallowest monitoring well is screened at -51.39-feet msl. Therefore, there are no monitoring wells at either of these clusters (LMC 37 and LMC 38) with shallow enough screen zones to monitor movement of Freon downgradient of LMC Cluster 18. ERM therefore agrees with the NYSDEC that installation of appropriately screened monitoring wells at these locations is warranted.

The middle of the screen zone of the NCDPW monitoring well N-10290 is -9.5-feet msl. The middle of the screen zone of monitoring well ERM-MW-04, located immediately upgradient of N-10290, is -33.12-feet msl. The concentration of Freon 22 detected in ERM-MW-04 during the PSA was 109 micrograms per liter [ppb]). The highest concentration of Freon 22 detected in N-10290 during the PSA was 24.3 ppb. There are only 100-feet separating the locations of N-10290 and ERM-MW-04. Therefore given that ERM-MW-04 and N-10290 are screened in the same relative portion of the aquifer system and are in close proximity, ERM does not believe that installation of a shallow monitoring well at the location of N-10290 is warranted nor will installation of a vertical profile provide sufficient supplemental data on the vertical distribution of Freon 22 in the location of N-10290 to justify the expense of the installation.

In summary, ERM proposes to install two vertical profile borings and subsequent at the locations of LMC Clusters 37 and 38 to define the Freon 22 plume in those locations in the shallow portion of the aquifer system. The vertical profiles at each location will be advanced to approximately 290-feet below ground surface (bgs), which corresponds to the screen zone of the former air conditioning system supply well (N-7560) at 400 Lakeville Road. After completion of the vertical profile borings, a permanent monitoring well will be installed and developed at each location in the zone of the highest observed Freon 22 concentration. The vertical elevation and horizontal location of each newly installed monitoring well will be surveyed to within 0.01 feet, +/- 0.01 feet, respectively by a New York State licensed surveyor. As least two week after development of the new monitoring wells, a complete round of groundwater sampling will be conducted. The round of groundwater sampling will also include NCDPW wells N-10290 and LMC monitoring well MW-18GL.

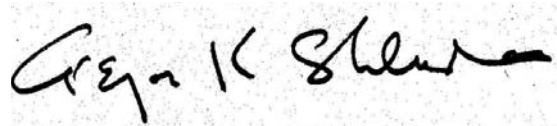
ERM is proposing instillation of vertical profile borings, rather than just monitoring well to allow better definition of the distribution of Freon 22

in the shallow portion of the aquifer. All work will be carried out using Standard Operating Procedures Numbers 1, 4, 5, 6, and 7 of Appendix A to the NYSDEC approved Preliminary Site Assessment Work Plan – 400 Lakeville Road, New Hyde Park, New York dated July 2007.

The vertical profiling subcontractor has informed ERM that they will be able to start installation of the vertical profiles borings in the latter half of January 2009. ERM is currently seeking access to the Lakeville Jewish Center and Great Neck School properties. Once access is obtained, a formal schedule for installation of the well will be submitted to the NYSDEC.

If you have any question, or need further clarification, please call me at 631.756.8947.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg K Shkuda", is written over a light gray rectangular background.

Gregory K. Shkuda, PhD
Senior Consultant

enclosures:

c: M. LaBonne/ NS-LIJ Health System
M Villani / Farrel Fritz, LLC
P. Lerner/ NS-LIJ Health System



TITLE

PROPOSED OFF-SITE
WELL LOCATIONS
400 LAKEVILLE ROAD

PREPARED FOR

LIJ MEDICAL CENTER



Environmental Resources Management

DRAWN:

EMF

JOB NO.:

0030777.01

FILE NAME:

0030777-01-012

SCALE

1"=175'

DATE

12/10/08

FIGURE

Greg Shkuda

From: Girish Desai [gvdesai@gw.dec.state.ny.us]
Sent: Wednesday, February 25, 2009 11:32 AM
To: Greg Shkuda
Cc: Nick Valkenburg
Subject: 400 Lakeville Road Site

Greg: The monitoring well cluster 44 for the Unisys site showed Freon 22 at 5 ppb level in the intermediate Magothy well. Please check with Nick Valkenburg about vertical profile boring data for upper glacial aquifer. I just spoke with Nick and Doug. Please use the data and install a monitoring well to detect Freon-22 levels in the upper aquifer.

If you have any questions, please contact me.

Girish Desai, P.E.
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Greg Shkuda

From: Girish Desai [gvdesai@gw.dec.state.ny.us]
Sent: Tuesday, February 03, 2009 3:09 PM
To: Greg Shkuda; mlabonne@nshs.edu
Cc: Walter Parish
Subject: 400 Lakeville Road Site

Greg: The Department has reviewed the December 10, 2008 Work Addendum for Installation of Off-site Vertical profile Borings (VPBs) and Monitoring Wells at two locations and find it acceptable. However, based on the results from these two proposed monitoring wells, the Department may require LIJ to install additional monitoring wells to define the extent of groundwater plume. Please start installation of the VPBs by March 3, 2009.

Maurice: Please provide me an update on access to both locations. Please let me know if you need any assistance, please contact me.

Girish Desai, P.E.
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