

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A

625 Broadway, 12th Floor, Albany, NY 12233-7015

P: (518) 402-9625 | F: (518) 402-9627

www.dec.ny.gov

January 19, 2016

Richard Passariello, Superintendent
Roslyn Water District
24 West Shore Road
Roslyn, NY 11576-1448
Via Email

RE: Request for Investigation of Freon-22
Christopher Morley Rink, Site No. 130218

Dear Mr. Passariello:

The New York State Department of Environmental Conservation (NYSDEC) has undertaken an investigation into the contamination in the groundwater in the Roslyn Water District specifically Diana's Trail Well 4 (N-04623) as reported in the Roslyn Water District letter dated January 2, 2014 and Searingtown Wells 1 and 2 as reported by Nassau County Department of Health (NCDH). Groundwater from Diana's Trail supply well exhibited 4.2 ug/L of Freon 22 in October 2013. Although not above the standard (5 ug/L), the well was taken out of service. Historically, Searingtown wells 1 and 2, located 1500 ft northwest of Diana's Trail, also exhibited Freon-22 at concentrations of 8.5 ug/L and 10.9 ug/L respectively in 2009 at which point they were shut down.

Initially the DEC investigated the Christopher Morley Ice Rink. The site was listed as a P-site (potential site – in consideration of listing on the Registry of Inactive Hazardous Waste Disposal Sites) on 4/15/2014. The rink is located approximately 2000 ft south of the Diana's Trail. During this investigation, the DEC inspected the chiller system for the rink and installed two temporary groundwater probes. While advancing these probes, it became apparent that the groundwater that was found initially was a perched water table. This indicates that any Freon contamination from the chiller system would have contaminated the perched zone rather than the Upper Glacial or Magothy aquifer (where the Diana's Trail well is screened). Groundwater sampled from the perched water table contained no Freon-22 at detectable concentrations. In addition, the chiller for the ice rink, in the past, used Freon-22 and switched to a saltwater brine for cooling of the ice in 2006. This system and piping is housed in an underground vault which precluded leakage into the unsaturated zone below the ground surface.

Ruling out Christopher Morley Ice Rink as a source, the investigation focused on the Americana Manhasset Mall. This site previously had geothermal wells screened within the Magothy aquifer within the source water area for Searingtown Wells 1 and 2. The geothermal wells were closed at an unknown point in time, therefore the Department could not sample them. The Department installed one vertical profile boring from the top of the water table to the 300 ft below ground surface (bgs), which was the termination point of the geothermal well, sampling the groundwater every 25 ft. Two groundwater monitoring wells were installed, one at the top of the water table and one approximately 300 ft bgs. Freon-22 was only detected at 0.3 ppb at the top of the water table well. This concentration indicates that the Americana Manhasset mall is not the source of

the Freon-22 contamination. The attached letter report documents the Americana Manhasset Mall investigation.

The NYSDEC consulted Sanborn Maps, Historical Aerial photos, and spoke with Mr. Joseph DeFranco of the NCDH. Mr. DeFranco indicated that the Lakeville Road Hospital may be a source of the Freon-22 contamination in groundwater. There is currently an on-going investigation by the Department into the Lakeville Road Hospital (site name - 400 Lakeville Road) in New Hyde Park that does have Freon-22 contamination in the groundwater. However, that investigation to date has only discovered contamination in the Upper Glacial aquifer and the site is two miles from the supply wells indicating that this is not likely the source of contamination.

Based on the investigations and lack of Freon-22 contamination at Morley Rink and Americana Manhasset Mall and significant distance to the Lakeville Road Hospital, it is not likely that any of these installations are the sources of Freon-22 contamination found at Diana's Trail Public Supply well. No other possible source of contamination can be identified at this time. Therefore the site will be reclassified from P to N (not a site) and the investigation closed.

Should you have any questions please contact me at (518) 402-9614 or at melissa.sweet@dec.ny.gov.

Thank You,



Melissa L. Sweet
Environmental Engineer
Bureau A, Section C
Division of Environmental Remediation

ec: J. Swartwout, NYSDEC
J. Harrington, NYSDEC
W. Parish, NYSDEC
Joe DeFranco, NCDH