ANS
ENVIRONMENTAL

Preliminary
Corrective Action Plan Addendum
Off-Site Groundwater Investigation Report

Location:

Spill No. 0207599
Vacant Property
Far Rockaway Boulevard and Beach 32nd Street
Edgemere, New York

Date: March 07, 2007

Prepared for:

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Executive Summary

The Corrective Action Plan (CAP) Addendum dated October 26, 2006, and approved by New York State Department of Environmental Conservation. describes an "Off-Site Groundwater Investigation Work Plan". The work plan identifies 15 specific boring locations where groundwater samples will be collected at approximately 10-feet below grade surface. Two sampling locations are along the western boundary of the LDS vacant property. eight are on the adjoining property west of the LDS vacant property. and five are located along the western side of Beach Channel Drive (Figure 1).

This off-site investigation is an extension of the on-site groundwater investigation of the LDS vacant property performed in 2006 that uncovered a source of contamination near at the southwest corner of the site.

On January 24-25. 2007. Anson Environmental Ltd. (AEL) collected the 15 aforementioned groundwater samples and delivered them to EcoTest Laboratories. North Babylon, NY where they were analyzed for volatile organic compounds (VOCs) and semi- volatile organic compounds (SVOCs) using EPA Methods 8260 and 8270. A copy of the laboratory analytical report for each collected groundwater sample is presented in Attachment 1 of this summary.

According to the laboratory analytical reports. the five groundwater samples collected along the western side of Beach Channel Drive (B63 through B67) contained concentrations of carbon disulfide and MTBE that are below NYSDEC groundwater standards (5 micrograms per liter). Carbon disulfide is a compound used to produce pesticides, and MTBE is a gasoline additive that is no longer used in New York State.

The three groundwater samples collected in the area adjacent to the northern boundary of the adjoining property west of the LDS property (B60. B61 and B62) contained no concentrations of VOCs or SVOCs that exceed NYSDEC standards for groundwater (Table 1).

The groundwater sample collected at approximately the center of the property located west of the LDS property (B58) also contained no concentrations of VOCs or SVOCs that exceed NYSDEC standards for groundwater (Table 1).

The two groundwater sampling locations along the western boundary of the LDS property (B59 and B53) contain concentrations of VOCs or SVOCs that exceed NYSDEC standards for groundwater (Table 1). The most significant detected compound is vinyl chloride. Vinyl chloride is a breakdown product of many organic compounds and is an indicator that decomposition of the original source contaminants is occurring.

The remaining four groundwater samples collected on the property west of the LDS property (B54 through B57) also contain concentrations of VOCs or SVOCs that exceed NYSDEC standards for groundwater (Table 1). And again. the most significant detected compound is vinyl chloride.

Attachment 1

Laboratory Analytical Reports for Off-Site Groundwater Samples

Sample Dates: January 24-25. 2007

(see offsite gw data - .pdf file attached)

Table 1

LDS Vacant Property
Off-Site Groundwater Sampling Summary

Sample Date: January 25, 2007

Compound	B53 (ug/L)	B54 (ug/L)	B55 (ug/L)	B56 (ug/L)	B57 (ug/L)	B58 (ug/L)	B59 (ug/L)	B60 (ug/L)	B61 (ug/L)	B62 (ug/L)
Vinyl Chloride	**4800**	**2800**	**1700**	**100**	**650**	**	**19**	**	1	**
Methylene Chloride	**20**	**	**	**	**	**	**	**	**	**
1,1 Dichloroethene	**73**	**280**	**610**	**9**	**	**	2	**	**	**
t-1,2 Dichloroethene	**97**	**1200**	**	13	**540**	**	3	1	**	**
Trichloroethene	**650**	**	**	**48**	**	**	**	**	**	**
124 Trimethylbenzene	**39**	**	**	**	**	**	4	**	**	**
Xylenes	**22**	**	**	**	**	**	6	**	**	**
Naphthalene	**20**	**	**	**	**	**	**	**	**	**
Aceaphthene	2.2	**	**	**	**	**	**	**	**	**
Fluorene	1.7	**	**	**	**	**	**	**	**	**
Benzene	**	**	**35**	3.5	**35**	**	**	**	**	**
Carbon Disulfide	**	**	**	**	**	1	**	**	**	**

** = not detected

BOLD concentrations exceed NYSDEC groundwater standard