APPENDIX H

Pump Test Plan and Report

GeoLogic

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June 23, 2009

R.H. Land, LLC
c/o Mr. Steve Proyect
4446 State Route 42
Monticello, New York 12701

Reference: Preliminary Findings
72-Hour Pump Test at Well PTCW-2
72-Hour Pump Test at Well TCW-1
Rock Hill, New York

Dear Mr. Proyect:

I write to convey the preliminary findings of the 72-hour pump tests completed at Well PTCW-2 and Well TCW-1 in Rock Hill, New York.

Well PTCW-2

Pumping began at 11:30 a.m. on Monday, June 1, 2009. The well was pumped at a constant rate of approximately 125 gallons per minute (gpm). The pump was turned off at 11:30 a.m. on Thursday, June 4, 2009.

Depth to water measurements were made manually with a water level indicator and with electronic data loggers in the pumping well (PTCW-2), in well TCW-1 (located 100 feet from the pumping well), in three nearby wetlands, and in well LWS-1 (located greater than 1,000 feet from the pumping well).

The depth to water in well PTCW-2 was drawn down approximately 163 feet after 72 hours of pumping at a rate of 125 gpm. Well PTCW-2 is a bedrock well installed to a depth of 600 feet below the ground surface. The preliminary data analysis for the pump test indicates that well PTCW-2 is capable of providing the proposed demand of 91 gpm.

In addition, Mr. Dale Sheeley gave GeoLogic permission to gauge a well on his property located at 8 Sheeley Lane ("Sheeley" well). Mr. Sheeley reports that the well is 325 feet deep and is not in service (that is, no pump is currently installed or used at this well). The Sheeley well is located approximately 700 feet southeast of well PTCW-2 (the pumping well). Drawdown was noted in the Sheeley well during the pump test. The depth to water in the Sheeley well was drawn down approximately 57 feet after 72 hours of pumping at well PTCW-2.

The preliminary analytical report for the groundwater sample obtained at the end of the 72-hour pump test completed at well PTCW-2 on June 4, 2009 were received. Not all of the results for this water sample were received by GeoLogic at the time this letter was prepared. A copy of the preliminary analytical report is attached.

The preliminary analytical report indicates that the following analytes had **no detectable concentrations** above the practical quantitation limit:

> Micro-Extractables, PCB and Chlorinated Pesticides, Halogenated Volatile Organics, Aromatic Volatile Organics, Antimony, ICP Metals (other than those listed below), Total Chloriform, 2,3,7,8-TCDD in Drinking Water, Color, Cyanide, or Odor.

The results for analytes that had concentrations reported above the practical quantitation limit are summarized below and compared to the published New York State Department of Health (NYSDOH) Part 5, Subpart 5-1 Public Water Systems - Maximum Contaminant Levels (MCL) and the New York State Department of Environmental Conservation (NYSDEC) water quality standards for groundwater. The lowest value for a published standard (i.e. most protective) is shown below. **No analytes were reported at concentrations above the NYSDOH MCLs or NYSDEC standards.**

Analyte	NYSDOH MCL Or NYSDEC Groundwater Standard	PTCW-2 Sampled 6/4/2009
Arsenic	0.010 mg/l	0.0069 mg/l
Barium	2.00 mg/l	0.219 mg/l
Chloride	250.0 mg/l	3.80 mg/l
Manganese	0.3 mg/l	0.0129 mg/l
Sodium	No designated limit	9.55 mg/l
Sulfate	250.0 mg/l	6.70 mg/l
Zinc	5.0 mg/l	0.0638 mg/l
Nitrate	10 (as Nitrogen) mg/l	0.056 mg/l
Turbidity NTU = Nephelometric Turbidity Units	5 NTU	0.55 NTU
pH	$\geq$ 6.5 or $\leq$ 8.5	8.0
Total Hardness (as $CaCO^3$)	No designated limit	78 mg/l
Total Alkalinity (as $CaCO^3$)	No designated limit	83 mg/l
Langelier Corrosivity	No Standard	-0.03
Total Dissolved Solids	500 mg/l	117 mg/l

Well TCW-1

Pumping began at 12:00 noon on Monday, June 15, 2009. The well was pumped at a constant rate of approximately 110 gallons per minute (gpm). The pump was turned off at 1:00 p.m. on Thursday, June 18, 2009.

Depth to water measurements were made manually with a water level indicator and with electronic data loggers in the pumping well (TCW-1), in well PTCW-2 (located 100 feet from the pumping well), in three nearby wetlands, and in well LWS-1 (located greater than 1,000 feet from the pumping well).

The depth to water in well TCW-1 was drawn down approximately 155 feet after 72 hours of pumping at a rate of 110 gpm. Well TCW-1 is a bedrock well installed to a depth of 700 feet below the ground surface. The preliminary data analysis for the pump test indicates that well PTCW-2 is capable of providing the proposed demand of 91 gpm.

Mr. Sheeley's well at 8 Sheeley Lane was gauged during the pump test at well TCW-1. The Sheeley well is located approximately 800 feet southeast of well TCW-1 (the pumping well). Drawdown was noted in the Sheeley well during the pump test. The depth to water in the Sheeley well was drawn down approximately 56 feet after 72 hours of pumping at well TCW-1. As of the date of this letter, GeoLogic was not informed of any other impacts from the pump test at well TCW-1 to the private wells located along Sheeley Lane.

The findings of the pump tests completed at wells PTCW-2 and TCW-1 will be presented in a Hydrogeologic Report.

Sincerely,

GeoLogic NY, Inc.

Sarah E. McCulloch
Senior Hydrogeologist

Forrest C. Earl
President

Enc. Preliminary Analytical Report

F:209055\cor\Prelim Findings 6-23-09