



Sanborn, Head & Associates

Consulting Engineers & Scientists

December 6, 2001
File No. 1003.1



Mr. John Cotton
New Hampshire Department of Environmental Services
Waste Management Division
PO Box 95, 6 Hazen Drive
Concord, NH 03302-0095

Re: November 2001 Water Quality Monitoring Results
Groundwater Management Permit (GMP) No. GWP-198704033-B-003
North Country Environmental Services, Inc. (NCES)
Bethlehem, New Hampshire

Dear Mr. Cotton:

On behalf of North Country Environmental Services, Inc. (NCES), enclosed please find the analytical results for the November 2001 monitoring round at the NCES landfill in Bethlehem, New Hampshire. Sanborn, Head & Associates, Inc. (SHA) conducted water quality sampling at NCES on November 5 through 7, 2001. SHA's Groundwater Quality Field Sampling Summary forms, together with the analytical laboratory reports received to date from Endyne, Inc., which SHA received on November 26 through December 5, 2001, are enclosed.

One volatile organic compound (VOC), vinyl chloride, was detected in groundwater collected from monitoring wells B-101 and MW-804 at concentrations of 2.3 micrograms per liter ($\mu\text{g/l}$) and 3.6 $\mu\text{g/l}$, respectively, which exceeds the Ambient Groundwater Quality Standard (AGQS) of 2 $\mu\text{g/l}$ for this compound. Although vinyl chloride has not been detected in groundwater collected from either of these monitoring wells, other VOCs which degrade to vinyl chloride, including trichloroethene and dichloroethene, have been detected previously at similar concentrations. No other VOC exceedances of AGQSs were observed in the November 2001 sampling round.

Groundwater management wells B-102D, B-103S, and B103D and several release detection monitoring wells (MW-402U, MW-403L, MW-802, MW-803, MW-805, and MW-806) included as part of this sampling round continue to have low detections of one or more individual VOCs. In general, the concentrations of VOCs detected in groundwater from these monitoring wells are consistent with historical observations, except at MW-402U where the number of VOCs and associated concentrations observed in groundwater collected from this location appear elevated relative to previous sampling rounds. MW-402U is located northwest of the leachate handling area. The presence of low concentrations of VOCs in groundwater in this area may reflect

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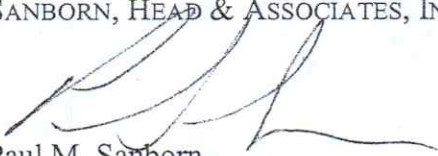
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former leachate handling practices which have been improved by the installation of additional controls and an overhead loading system associated with the leachate consolidation project.

To provide for timely submittal of these analytical data, this letter is being submitted prior to receipt from the laboratory of all the analytical data for inorganic parameters in the groundwater samples collected during the November 2001 sampling round. As of the date of this letter, the results for inorganic constituents in groundwater have been returned for 16 of the 29 monitoring wells and two surface water seeps; these data indicate concentrations of dissolved manganese in samples from monitoring wells B-102S and MW-801 exceed the groundwater standard for manganese of 840 µg/l. The dissolved manganese concentrations observed are generally consistent with levels previously detected in groundwater from these monitoring wells. No other exceedances of standards for inorganic constituents have been observed in the data returned to date. Analytical results for inorganic parameter concentrations in groundwater from the remaining sampling locations will be summarized in a second letter report following receipt of the analytical data.

If you have any questions regarding this submittal, please call me at your convenience.

Sincerely,
SANBORN, HEAD & ASSOCIATES, INC.



Paul M. Sanborn
Principal

SJR/PMS:sjr/jsb

Encl: Groundwater Quality Field Sampling Summary Forms
Analytical Laboratory Data

cc: Michael McCluskey, P.E., NHDES (w/out enclosure)
Joe Gay, NCES
Larry B. Lackey, NCES
Lenny Wing, NCES
Al Sabino, NCES
Robert Banfield, NCES