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STATE OF NEW HAMPSHIRE  
INTER-DEPARTMENT COMMUNICATION

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MAY 27 1999  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
SOLID WASTE COMPLIANCE SECTION

DATE: May 27, 1999



AT(OFFICE): Permitting and Design Review Section

FROM: JC John Cotton, Hydrogeologist  
through John Regan, Supervisor  
Hazardous Waste Remediation Bureau

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PER DOJ / AMY MILLS  
MM 1.25.02

SUBJECT: BETHLEHEM - North Country Environmental Services (NCES), Trudeau Road Facility; Review of Groundwater and Leachate Quality Monitoring (DES #198704033)

TO: P&DRS File through Pamela H. Sprague, Supervisor  
Permitting and Design Review Section

Richard S. Reed, Administrator  
Solid Waste Management Bureau

My intra department Memo 87043325.jec, dated March 12, 1999, summarized the status of water quality monitoring at this site and commented on five submittals from NCES received by the Department between November 1998 and March 1999. My letter to NCES, dated March 23, 1999, requested responses to seven items selected from that memo. I have reviewed the responses prepared for NCES by Sanborn, Head & Associates and received from NCES on May 14, 1999.

- Item 1. Discussion of recent occurrence of arsenic in the 100 series monitor wells is adequate based on available data.
- Item 2. Discussion of dichlorodifluoromethane and trichloroflouromethane, detected in 1998 at low levels in monitor well MW-404U, is adequate based on available data.
- Item 3. Continued investigation of the source(s) of VOCs in monitor wells MW-406U&L is still inconclusive. The Department must request increased assessment monitoring of this well couplet as well as wells MW-405U&L.
- Item 4. Discussion on past and recent occurrence of methylene chloride needs more review by NCES. This VOC is not presently included in the "VOC signature" found in degraded groundwater caused by the former unlined landfill, but is present in monitor wells MW-405U, MW-406U&L, and the first sample from the new monitor well MW-805. This distribution of methylene chloride supports the conclusion that the source of VOCs in these wells is not a "residual" from the former unlined landfill.

TOWN: Bethlehem  
 PROJECT: NCES Stage II  
 LETTER/DATA/PERMIT/FA/OTHER: CONF.

Bethlehem, NCES, Groundwater and Leachate Quality Monitoring  
DES #198704033  
May 26, 1999  
Page 2

- Item 5. Bromide will be used as a tracer in Stage II/Phase II.
- Item 6. Leachate will be analyzed for bromide by two methods (EPA 300 and EPA 320.1).
- Item 7. Subsurface data for the new 800 series wells will be incorporated in revised cross sections to be included with the Stage III Hydrogeologic Report, which should be submitted by August 1999.

Following review of the April 1999 monitoring results, appropriate follow up questions will be sent to NCES with responses scheduled to be included in the annual summary report due in September 1999.

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cc: HWRB PM File