



North Country Environmental Services, Inc.

JUN 30 2006

3 Pitkin Court
Montpelier, Vermont 05602

(802) 223-7221
(802) 223-7128 Fax

June 26, 2006

Wayne Wheeler, P.E.
New Hampshire Department of Environmental Services
Solid Waste Compliance Section
6 Hazen Drive
Concord, NH 03301-0509

**RE: North Country Environmental Services, Inc.
Landfill Facility - Bethlehem, NH
Leachate Release**

Dear Wayne:

Attached to this correspondence please find a letter report dated June 15, 2006 prepared by Sanborn Head and Associates of Concord, NH, documenting observations of a leachate release and clean up activities for the NCES (North Country Environmental Services, Inc.) Landfill located in Bethlehem, NH.

If you have any questions please do not hesitate to call me at (802) 223-7221. My email address is gene.martin@casella.com.

Sincerely,

NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.

Eugene J. Martin, Senior Project Manager
Permits Compliance & Engineering

Enclosures

John Gay, North Country Environmental Services, Inc. (via email, w/o encl.)
Larry Lackey, North Country Environmental Services, Inc. (via email, w/o encl.)
Donald Wallgren, North Country Environmental Services, Inc. (via email, w/o encl.)
John Schwalbe, North Country Environmental Services, Inc. (via email, w/o encl.)
Kevin Roy, North Country Environmental Services, Inc. (via email, w/o encl.)
Al Sabino, North Country Environmental Services, Inc. (via email, w/o encl.)
Robert Banfield, North Country Environmental Services, Inc. (via email, w/o encl.)
Donald Monahan, North Country Environmental Services, Inc. (via email, w/o encl.)
Sean Moran, North Country Environmental Services, Inc. (via email, w/o encl.)
Bryan Gould, BOG
Jim Chaboff, SHA



SHA
Sanborn, Head & Associates
Consulting Engineers & Scientists



June 15, 2006
File No. 1003.05

Mr. Eugene Martin
North Country Environmental Services, Inc.
3 Pitkin Court
Montpelier, VT 05602

Re: May 12, 2006 Leachate Release
North Country Environmental Services, Inc. (NCES) Landfill
581 Trudeau Road
Bethlehem, New Hampshire

Dear Gene:

This letter was prepared at your request to document Sanborn, Head & Associates, Inc.'s (SHA's) observations of a leachate release that occurred at the NCES site on Friday May 12, 2006.

At approximately 0730 hours Donald Monahan of NCES informed SHA's on-site representative, Dennis Porter, that a leachate spill had occurred near the Leachate Consolidation Building on the north side of Stage I of the landfill. At NCES' request, Dennis documented the release and the efforts to clean up the affected area.

Dennis observed that the release occurred from the loadout arm of the Leachate Consolidation Building between the landfill perimeter road and the toe of the northern Stage I slope. The leachate spilled onto the concrete loadout pad and flowed off the east end on the pad, across the perimeter road to the north, and into the storm water swale north of the perimeter road. Refer to the attached Figure No. 1 for the approximate location of the release.

The storm water swale conveys the storm water flow from Detention Pond No. 3 to the long treatment swale from Detention Pond No. 2. Dennis observed that CCI had constructed a soil dam in the swale near the down stream junction with the long treatment swale to confine the leachate while the truck vacuumed it out. CCI also spread sand on the perimeter road to help absorb leachate. Dennis photographed the containment and collection efforts. Refer to the attached photos of the release area.

When Dennis arrived there was a vacuum truck on the opposite side of the perimeter road from the Leachate Consolidation Building vacuuming leachate from the storm water swale located north of the temporary construction field trailer.

*Charles L. Head ■ R. Scott Shillaber ■ Charles A. Crocetti ■ James A. Chabot
Mathew A. DiPilato ■ Daniel B. Carr ■ Duncan W. Wood ■ Joseph G. Engels ■ Vernon R. Kokosa*

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The totalizing flow meter at the load out pump control panel indicated that 1,049-gallons had been pumped through the leachate consolidation building. The vacuum truck driver estimated that 550-gallons of leachate was collected in the vacuum truck from the swale. An on-site contractor excavated the banks and bottom of the swale where the leachate collected, as well as the layer of the soil where the leachate flowed across the road. The soils were transported to the active portion of the landfill for disposal. It appeared that the on-site contractor removed the soil that was impacted by the leachate release.

Sean Moran of NCES observed the clean up. Sean explained that the Leachate Loadout pump had unexpectedly turned on sometime around 0715 hours. The pump was not manually turned on. It was determined that an electric relay switch failed, which unexpectedly energized the pump. Sean indicated that he would be in contact with personnel from EOS Research, Ltd., the provider of the pump control system, to try to determine the cause of the problem and would turn the electric circuit breaker for the pump to the "off" position in the meantime.

NCES has instituted a standard operating procedure that mandates all that valves on the Leachate Loadout discharge pipes be manually closed when the loadout is not in use.

If you have any questions, or require further information, please contact the undersigned.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.

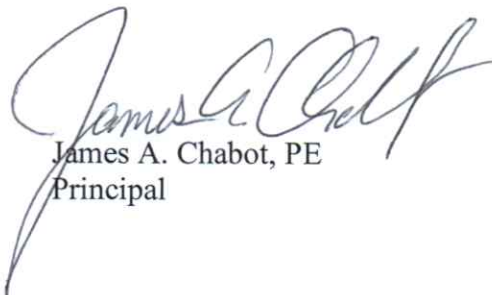


Kelly L. Marshall
Senior Project Engineer

KELM/JAC:kelm

Encl. Figure No. 1
Photographs

cc: Kevin Roy, NCES Bethlehem
Sean Moran, NCES Bethlehem



James A. Chabot, PE
Principal



Loading tanker from contained leachate.



Source of leachate release (Truck loadout arm shown in the background).



Leachate flow path across the perimeter road.



Storm water swale where leachate was contained as excavation was being completed.

NOTES:

- THE BASE MAP WAS PRODUCED USING AN AEC TITANIC FILE PROVIDED TO SHA ON FEBRUARY 14, 2006 NAMED "5431XLE.DWG" CREATED BY EASTERN TOPOGRAPHICS OF WOLFBORO, NEW HAMPSHIRE FOR NORTH COUNTRY ENVIRONMENTAL SERVICES, INC. MAPPING WAS COLLECTED FROM AERIAL PHOTOGRAPHY EXPOSED ON NOVEMBER 12, 2005 AND COMPILED ON FEBRUARY 2, 2006 USING DIGITAL TERRAIN MODELING METHODS WITH KLT ATLAS SOFTWARE. ORIGINAL SCALE 1" = 40'. HORIZONTAL DATUM IS BASED ON NAD 83 (1996) SPC NH (FEET). VERTICAL DATUM IS BASED ON NAVD 88 (FEET).
- AS-BUILT LOCATIONS OF EXISTING STAGE I LIMIT OF WASTE CONTAINMENT PROVIDED BY CASELLA CONSTRUCTION, INC.
- THE PROPERTY LINES SHOWN WERE TAKEN FROM SHEETS 1 THROUGH 3 OF PLANS ENTITLED "BOUNDARY SURVEY PLAN FOR CASELLA WASTE SYSTEMS, INC. ON THE LANDS OF NORTH COUNTRY ENVIRONMENTAL SERVICES" PREPARED BY ALPINE LAND SURVEYING COMPANY (ALPINE) OF LITTLETON, NEW HAMPSHIRE, DATED FEBRUARY OF 2002. PLANS WERE PROVIDED ELECTRONICALLY TO SHA BY ALPINE ON MARCH 1, 2002 IN DRAFT FORMAT AND AT AN ORIGINAL SCALE OF 1" = 100'.
- THE APPROXIMATE AREA AFFECTED SHOWN IS BASED ON PHOTOGRAPHS TAKEN ON MAY 12, 2006 BY SHA PERSONNEL.

LEGEND:

- I.R.F. @ IRON ROD FOUND
- PROPERTY LINE
- TREE LINE
- B-911 EXISTING MONITORING WELL
- B-915 EXPLORATION WITH OBSERVATION WELL
- GP-6 EXISTING GAS PROBE
- - - 1390 - - - EXISTING 10-FOOT CONTOUR
- - - - - EXISTING 2-FOOT CONTOUR
- - - - - LIMIT OF WASTE CONTAINMENT
- - - - - PHASE LIMIT LINE
- ○ EXISTING BOULDERS
- X - X - EXISTING FENCE
- - - - - EDGE OF WATER
- - - - - EDGE OF WETLAND
- - - - - EDGE OF ROAD
- LDMH LEAK DETECTION MANHOLE



<p>GRAPHICAL SCALE</p> <p>100' 50' 0' 100' 200'</p>	
<p>SHA Sanborn, Head & Associates Consulting Engineers & Scientists</p>	
<p>DRAWN BY: TWR/KEIM DESIGNED BY: JAC CHECKED BY: REVIEWED BY: PROJECT MGR: JAC PIC: JAC DATE: MAY 06</p>	<p>NO. DATE DESCRIPTION</p>
<p>NORTH COUNTRY ENVIRONMENTAL SERVICES, INC. BETHLEHEM, NEW HAMPSHIRE</p>	
<p>SITE PLAN</p>	
<p>PROJECT NUMBER: 1003.05 FIGURE NUMBER: 1</p>	