

STATE OF NEW HAMPSHIRE
INTER-DEPARTMENT COMMUNICATION

DATE: November 19, 2007
AT(OFFICE): P&DRS



FROM: Wayne Wheeler, P.E.
Permitting & Design Review Section

SUBJECT: NCES

TO: Michael E. Guilfooy, P.E.
Solid Waste Management Bureau

*Stage IV permitted 2003
2,000,000 cy
10.5 years

Stage II phase II 10 year life*

The following is a brief overview NCES:

- a. On July 13, 1976 the Bethlehem Zoning Board of Adjustment (ZBA) granted a variance to Harold Brown to construct a landfill.
- b. On September 2, 1976 the State granted permission to Harold Brown to operate a 3.82 acre unlined landfill.
- c. On December 30, 1977 the Stage granted approval for a 1 acre expansion.
- d. In April 1983 the landfill was purchased by Sanco, Inc.
- e. On January 24, 1986 the ZBA approved a special exception for Sanco to expand its existing landfill.
- f. On June 30, 1987 Solid Waste Facility Permit No. DES-SW-87-022 was issued to Sanco for the construction and operation of Stage I (approximately 18 acres).
- g. On April 4, 1989 Solid Waste Facility Permit No. DES-SW-89-009 was issued to Sanco for Stage II (approximately 7.5 acres). Note: As a condition of the Stage II permit, fill material in the unlined landfill was to be relocated into the lined Stage I landfill. The relocation of waste was initiated in December 1991 and completed in October 1993.
- h. On May 15, 1989 Solid Waste Facility Permits transferred from Sanco, Inc. to Consumat Sanco, Inc.
- i. From approximately 1984 to the present, there has been a seep on the banks of the Ammonoosuc River. The seep has been routinely sampled since 1984. NCES is scheduled to clean the seep area starting in 2007.
- j. Administrative Order No. WD 93-006 issued to Consumat Sanco and Casella Waste Management on September 17, 1993 for (1) exceeding maximum allowable grades and height in Stage I/Phases I – III and (2) allowing the continued presence of excessive and

unpleasant odors at the Facility. Corrective action was taken.

- k. In April 1994 Consumat Services, Inc. was purchased by New England Waste Services, Inc.
- l. On September 14, 1994 the Permittee name changed to North Country Environmental Services, Inc. (NCES).
- m. On November 21, 1994 construction approval was issued to NCES for Stage II Phase I.
- n. On December 2, 1994 operational approval was issued to NCES for Stage I overlay.
- o. In March 1995 NCES started to investigate how to better control odors from the landfill. NCES implemented measures to minimize the odors that included installation of gas flares, use of odor neutralizers, and increase application of daily cover.
- p. On May 28, 1996 operational approval was issued to NCES for Stage II Phase II.
- q. In 1996 initial closure of Stage 1 began by capping with a geomembrane to eliminate the release of landfill gases. Twelve flares were installed as part of the construction.
- r. On September 9, 1998 a Type II permit modification was issued to NCES authorizing the construction of Stage II Phase II.
- s. On March 25, 1999 a Type II permit modification was issued to NCES authorizing the operation of Stage II Phase II.
- t. LOD No. WMD 00-11 was issued to NCES on May 23, 2000 for exceeding the hazardous waste mixture rule. An administrative fine of \$17,000 was imposed.
- u. In 2000, NCES received permission from ARD to install a 10-inch open flare to combust landfill gas and an enclosed flare to evaporate leachate.
- v. On July 26, 2000 Standard Permit No. DES-SW-SP-00-003 was issued for Stage III (approximately 6.5 acres, 3.5 years of site life).
- w. On August 8, 2000 a Type II permit modification was issued to NCES authorizing construction of Stage III.
- x. In November 2000, VOCs were detected in Groundwater Monitoring Wells 402U/403L.
- y. On December 12, 2000 a Type II permit modification was issued to NCES authorizing an interim grading plan for Stage II.

- z. On December 21, 2000 a Type II permit modification was issued to NCES authorizing the operation of Stage III.
- aa. On April 30, 2001 a leachate overflowed from the existing 1000 gallon leachate located to the north of the facility and located adjacent to the leachate evaporator. NCES estimated that approximately 76 gallons were released. The leachate and contaminated soils were removed.
- bb. A Notice of Proposed License Action No. LA 01-04 was issued to Larry Lackey of NCES in May 2001. Larry Lackey's Solid Waste Operator Certification was suspended for a period of one year.
- cc. An Administrative Fine By Consent No. AF 02-006 in the amount of \$2000 was issued to NCES on March 4, 2002 for filling on the southern side slope of Stage II beyond the permitted vertical limits.
- dd. On April 3, 2002 NCES submits a standard permit application for the Stage IV development of the landfill.
- ee. In July 2002, citizens reported a gray slime on the banks of the Ammonoosuc River. Test results confirmed that it was glacial till.
- ff. In the fall of 2002, thousands of US flags were disposed of in the landfill. Only two flags were recovered.
- gg. From 1999 through May 2002, the landfill accepted asbestos contaminated waste from the Mountain View in Whitefield.
- hh. On October 8, 2002 a public hearing was conducted for the standard permit application for the Stage IV development of the landfill.
- ii. On March 13, 2003 NCES was issued a permit for Stage IV development (consisting of 11.05 acres, a capacity of 2,050,000 cubic yards, and a life expectancy of 10.5 years.
- jj. On February 12, 2003 the leachate force main, located between the leachate consolidation building and the first leak detection manhole, split. All leachate was contained within the containment system.
- kk. On June 30, 2003 leachate overflowed the 1000 gallon leachate storage tank located to the north of the facility and located adjacent to the leachate evaporator. NCES estimated that approximately 76 gallons were released. The leachate and contaminated soils were removed.
- ll. On March 3, 2006 a leachate release occurred at the leachate consolidation building. Approximately 5,036 gallons of leachate was released. Cleanup of the leachate and

contaminated soils occurred soon after.

- mm. A Letter of Deficiency (LOD) was issued on May 3, 2006 for waste haulers parking on public roads outside the landfill gate and for leaving the gate open outside of operating hours. Private haulers were reminded of NCES operating requirements and an additional automatic gate was installed.
- nn. As shown on the table below, the number of reported odor complaints substantially increased in 2004 in comparison to previous years.

Year	Number of Odor Complaints
2001	11
2002	12
2003	17
2004	41
2005	55
2006	47
2007 (to date)	7
TOTAL	190

- oo. Since construction of Stage IV/Phase 1, secondary leachate flows in Stage I/Phases 1 & 4 have been elevated. NCES is in the process of lowering a culvert which increased the head along the Stage I anchor trench. NCES suspects that this will resolve the problem as secondary flows have been decreasing.
- pp. A leachate release occurred on May 12, 2006 near the leachate consolidation building. Approximately 550 gallons of leachate was released. Cleanup of the leachate and contaminated soils occurred soon after.