

## MEMORANDUM

**To:** Joe Gay, NCES  
**From:** Paul Rydel  
**File:** 1003.06  
**Date:** October 17, 2008  
**Re:** Analysis of Site Hydrogeologic Conditions Relative to VOC Detections in Groundwater Samples from Well MW-402U

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As requested, Sanborn, Head & Associates, Inc. (SHA) prepared this memorandum to document our findings with regard to our review of site hydrogeologic conditions in the area proximate to monitoring well MW-402U, which has yielded groundwater samples in which VOCs have been reported. This review considered data and information previously provided to the New Hampshire Department of Environmental Services (NHDES), in SHA's 2008 Annual Report<sup>1</sup> and 2002 hydro study<sup>2</sup> prepared in support of the NCES Stage IV Landfill. Our findings are presented below.

Previous investigations at the site have established that the site overburden stratigraphy consists of three primary units. In descending order from the ground surface downward, these include:

- the Upper Till Unit, consisting of a poorly-sorted mixture of fine to medium sand and silt with moderate amounts of coarse-grained material and lesser amounts of clay;
- the Stratified Drift Unit, comprised of a relatively thick and heterogeneous sequence of stratified silt and fine sand (generally well sorted), commonly interfingering with "till-like" submembers; and,
- the Lower Till Unit, which is comprised chiefly of sand and gravel with lesser amounts of silt;

A number of explorations have been drilled to bedrock at the site, and have encountered the bedrock surface at depths greater than 100 feet (below the ground surface). The site monitoring well network has been developed to include locations screened within selected

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<sup>1</sup> "2008 Summary of Water Quality Monitoring" (dated September 30, 2008), prepared by SHA on behalf of NCES.

<sup>2</sup> "Hydrogeologic Study – Proposed Phase IV Expansion" (dated January 25, 2002), prepared by SHA on behalf of NCES.

intervals of the overburden stratigraphic units described above; principally the Upper Till and Stratified Drift Units, as the uppermost water-bearing units.

Monitoring well MW-402U is screened in the Upper Till Unit, and is located in an area that is generally downgradient from the westernmost portions of the Stage I lined landfill (i.e., Stage I Phases 3 and 4), and Detention Pond No. 2. As indicated on the July 2008 groundwater elevation contour plan provided with SHA's 2008 Annual Report, groundwater flow in the Upper Till Unit in this area of the site is generally toward the north or northeast, and is influenced by groundwater mounding associated with Detention Pond No. 2. These conditions are comparable to those indicated in SHA's 2002 report. Flow directions in the underlying Stratified Drift Unit in this area of the site are also to the north or northeast, as previously reported in the 2002 study.

Based on comparison of groundwater elevations measured in well MW-402U, and an adjacent well (MW-402LR) screened in the underlying Stratified Drift Unit, a consistent downward vertical gradient has been observed between the Upper Till and Stratified Drift Units in this area of the site. The observed vertical gradient is on the order of four times the horizontal gradient within the Upper Till Unit. This finding indicates that lateral groundwater flow in the Upper Till in this area of the site is limited, with groundwater occurring within the Upper Till principally "draining" to, or recharging, the underlying Stratified Drift. Thus, the Stratified Drift Unit is the principal groundwater flow unit in this area of the site, such that a potential release associated with the lined Stage I landfill upgradient of MW-402U would migrate with groundwater flow, and primarily impact groundwater quality in the Stratified Drift unit.

Well MW-402L and its 2004 replacement MW-402LR have been routinely sampled for VOCs since at least 1995. During this period of water quality monitoring, VOCs (MEK at 10 ug/l in 1996) were detected only one time in the groundwater samples collected from these wells. These data are consistent with the premise that the Stage I landfill liner system is functioning as intended.

The level of dilution that would be expected based on estimated groundwater flow rates in the Stratified Drift Unit was assessed as follows. The volume of groundwater flow within the Stratified Drift Unit in the area upgradient of well MW-402LR was estimated based on Darcy's Law and the hydrogeologic parameters developed previously as part of SHA's 2002 hydro study. This approach is summarized as follows:

$$Q = KAi$$

Where;

- Q = groundwater discharge ( $L^3/T$ );
- K = saturated hydraulic conductivity (or "permeability") ( $L/T$ );
- A = cross-sectional area through which flow occurs ( $L^2$ ); and,
- i = hydraulic gradient ( $L/L$ ).



Using the hydrogeologic parameters documented previously in the 2002 report, a permeability value of 6 ft/day was selected as generally representative of the Stratified Drift Unit in this area of the site. This value was selected based on consideration of the textural description of the Stratified Drift Unit materials penetrated at MW-402L (generally sand and gravel with some to trace silt content), and the geometric mean permeability for the Stratified Drift Unit (coarser-grained deposits) presented in the 2002 report.

The cross-sectional area through which groundwater flow occurs (A) was determined based on the saturated thickness of the Stratified Drift Unit in the area of MW-402U (about 35 feet [Section A-A' of the 2002 report]) multiplied by a horizontal distance (100 feet) approximating the width of the Stage I / Phase I landfill cell perpendicular to the prevailing groundwater flow direction. Similarly, the lateral hydraulic gradient within the Stratified Drift Unit (0.012 ft/ft) was estimated based on the groundwater elevation contour plan for this unit provided in the 2002 report. Substitution of these values into Darcy's Law yields:

$$Q = KAi;$$
$$Q = (6 \text{ ft/day}) ([35 \text{ ft}] [100 \text{ ft}]) (0.012 \text{ ft/ft});$$
$$Q = 252 \text{ ft}^3/\text{day}$$

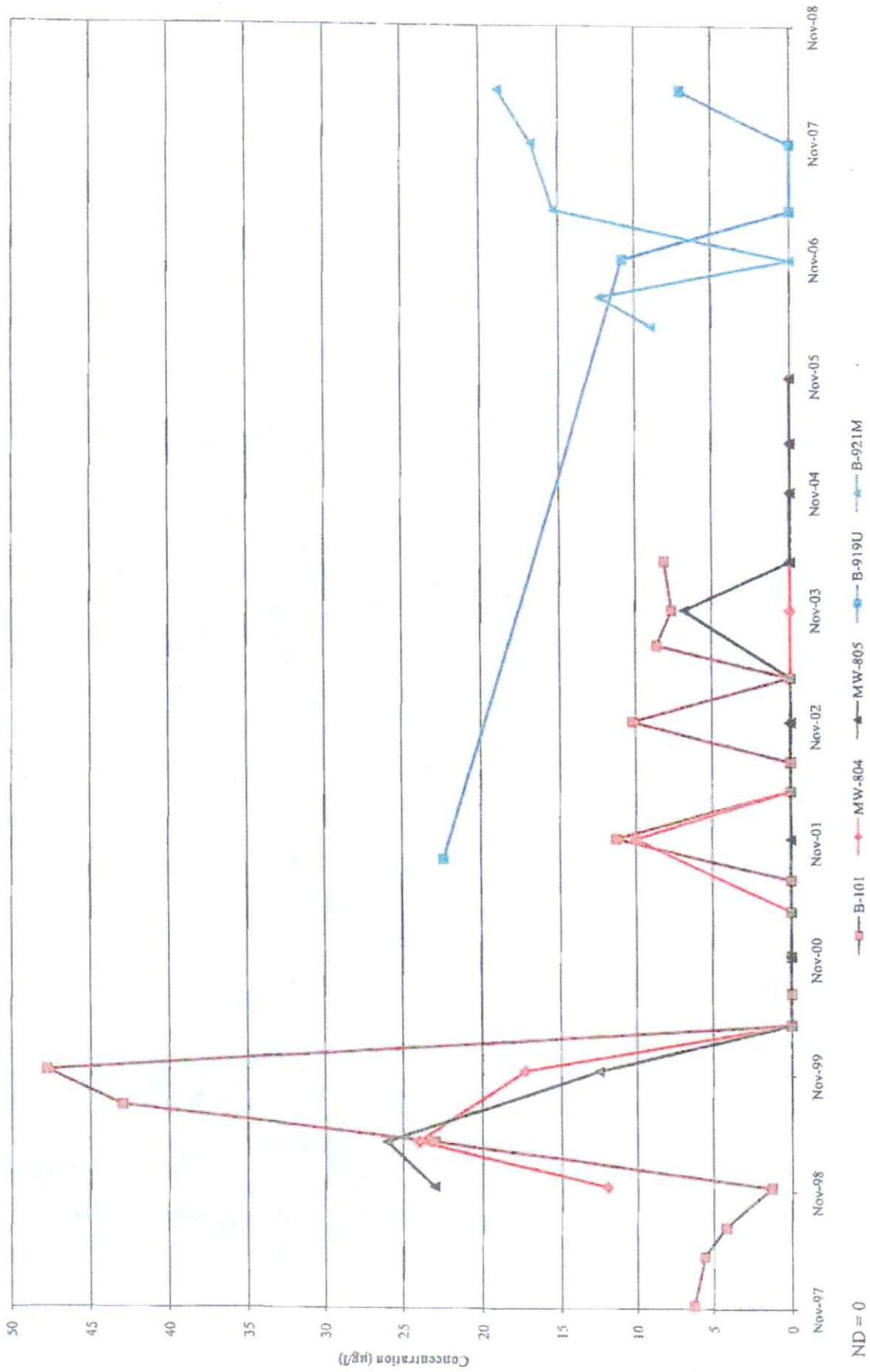
Applying the unit conversion of 7.48 gallons per  $\text{ft}^3$  yields a daily groundwater discharge through the Stratified Drift Unit of approximately 1,885 gallons (i.e., expressed in units of gallons per day [GPD]). Given the dilutive effect of this daily discharge when compared to the results of the secondary leachate collection system flow and liner leakage analysis documented in the accompanying report prepared by CMA Engineers, it is unlikely that releases of leachate from the liner system as described in the attached CMA report would result in detectable levels of VOCs in the downgradient wells.

As discussed above, there is a strong downward component to the groundwater flow direction in the Upper Till Unit to the north of the landfill. The history of VOC detections in the groundwater samples from Upper Till Unit well MW-402U (summary data plot attached) are thus consistent with a shallow, local VOC source proximate to the monitoring well (i.e., the previously-reported leachate releases associated with the leachate load-out building), and not a release from the landfill liner system.

PLR/TMW/RSS/JAC:plr

S:\CONDATA\1000s\1003.06.010\Correspondence\To NCES\2008-1017a Hydro memo.docx

Dichlorodifluoromethane in Select Wells  
 NCES Landfill  
 Bethlechem, New Hampshire



ND = 0

**EXHIBIT C**  
**LABORATORY ANALYTICAL RESULTS**  
**LEACHATE SAMPLING**

LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Gene Martin

PROJECT: NCES  
ORDER ID: 51621  
RECEIVE DATE: February 6, 2007  
REPORT DATE: February 14, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures

LABORATORY REPORT

CLIENT: Casella Waste Management, Inc.

ORDER ID: 51621

PROJECT: NCES

DATE RECEIVED: February 6, 2007

REPORT DATE: February 14, 2007

SAMPLER: DM

Ref. Number: 292271

Site: SIPI PRI

Date Sampled: February 5, 2007

Time: 2:30 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
pH	7.04	S.U.	Field Result	2/5/07	999
Temperature	14.4	°C	Field Result	2/5/07	999
pH	7.45	S.U.	EPA 150.1	2/7/07 6:00 PM	911
Chloride	2,100.	mg/L	EPA 300.0	2/9/07	168
BOD, 5 day	35.	mg/L	EPA 405.1	2/6/07 1:55 PM	903
Chemical Oxy. Demand	1,290.	mg/L	EPA 410.4	2/12/07	903
Sulfate	< 5.00	mg/L	EPA 300.0	2/7/07	168
Total Cadmium	< 0.002	mg/L	EPA 200.7	2/12/07	808
Total Chromium	0.074	mg/L	EPA 200.7	2/12/07	808
Total Iron	8.06	mg/L	EPA 200.7	2/12/07	808
Total Lead	< 0.020	mg/L	EPA 200.7	2/12/07	808
Total Manganese	0.443	mg/L	EPA 200.7	2/12/07	808

Ref. Number: 292272

Site: SIPI SEC

Date Sampled: February 5, 2007

Time: 2:30 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
pH	6.28	S.U.	Field Result	2/5/07	999
Temperature	6.9	°C	Field Result	2/5/07	999
pH	6.55	S.U.	EPA 150.1	2/7/07 6:00 PM	911
Chloride	189.	mg/L	EPA 300.0	2/7/07	168
BOD, 5 day	59.	mg/L	EPA 405.1	2/6/07 1:55 PM	903
Chemical Oxy. Demand	150.	mg/L	EPA 410.4	2/12/07	903
Sulfate	15.8	mg/L	EPA 300.0	2/7/07	168
Total Cadmium	< 0.002	mg/L	EPA 200.7	2/12/07	808
Total Chromium	< 0.020	mg/L	EPA 200.7	2/12/07	808
Total Iron	68.3	mg/L	EPA 200.7	2/12/07	808
Total Lead	< 0.020	mg/L	EPA 200.7	2/12/07	808
Total Manganese	9.92	mg/L	EPA 200.7	2/12/07	808

## LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Gene Martin

PROJECT: NCES  
ORDER ID: 51621  
RECEIVE DATE: February 6, 2007  
REPORT DATE: February 12, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

*Sample reference number 292271 was not preserved at a pH < 2.*

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

Enclosures



# LABORATORY REPORT

SW 8260B

CLIENT: Casella Waste Management, Inc.  
 PROJECT: NCES  
 SITE: SIPI PRI  
 DATE RECEIVED: February 6, 2007  
 REPORT DATE: February 12, 2007  
 ANALYSIS DATE: February 12, 2007

ORDER ID: 51621  
 REFERENCE NUMBER: 292271  
 DATE SAMPLED: February 5, 2007  
 TIME SAMPLED: 2:30 PM  
 SAMPLER: DM  
 ANALYST: 110

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	< 50.0	1,1-Dichloropropene	< 5.0
Benzene	6.2	cis-1,3-Dichloropropene	< 5.0
Bromobenzene	< 5.0	trans-1,3-Dichloropropene	< 5.0
Bromochloromethane	< 10.0	Diethyl Ether	29.1
Bromodichloromethane	< 5.0	Ethylbenzene	96.1
Bromoform	< 10.0	Hexachlorobutadiene	< 10.0
Bromomethane	< 25.0	2-Hexanone	< 50.0
2-Butanone	< 50.0	Isopropylbenzene	5.3
n-Butylbenzene	< 5.0	p-Isopropyltoluene	7.3
sec-Butylbenzene	< 5.0	Methylene Chloride	< 25.0
tert-Butylbenzene	< 5.0	4-Methyl-2-Pentanone	< 50.0
Carbon Disulfide	< 25.0	MTBE	< 10.0
Carbon Tetrachloride	< 5.0	Naphthalene	13.3
Chlorobenzene	< 5.0	n-Propylbenzene	< 5.0
Chloroethane	< 25.0	Styrene	< 5.0
2-Chloroethyl Vinyl Ether	< 100.	1,1,1,2-Tetrachloroethane	< 10.0
Chloroform	< 5.0	1,1,2,2-Tetrachloroethane	< 10.0
Chloromethane	< 15.0	Tetrachloroethene	< 5.0
4-Chlorotoluene	< 5.0	Tetrahydrofuran	950.
2-Chlorotoluene	30.3	Toluene	18.3
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0	1,2,4-Trichlorobenzene	< 10.0
1,2-Dibromoethane	< 10.0	1,1,1-Trichloroethane	< 5.0
Dibromomethane	< 10.0	1,1,2-Trichloroethane	< 5.0
1,2-Dichlorobenzene	< 5.0	Trichloroethene	< 5.0
1,3-Dichlorobenzene	< 5.0	Trichlorofluoromethane	< 10.0
1,4-Dichlorobenzene	15.2	1,2,3-Trichloropropane	< 10.0
Dichlorodifluoromethane	< 25.0	1,2,4-Trimethylbenzene	31.6
1,1-Dichloroethane	< 5.0	1,3,5-Trimethylbenzene	11.2
1,2-Dichloroethane	< 5.0	Vinyl Chloride	< 10.0
1,1-Dichloroethene	< 5.0	Xylenes, Total	250.
cis-1,2-Dichloroethene	< 5.0	Surrogate 1	98.%
trans-1,2-Dichloroethene	< 5.0	Surrogate 2	102.%
1,2-Dichloropropane	< 10.0	Surrogate 3	101.%
1,3-Dichloropropane	< 5.0	UIP's	> 10.
2,2-Dichloropropane	< 5.0		

# LABORATORY REPORT

SW 8260B

CLIENT: Casella Waste Management, Inc.  
 PROJECT: NCES  
 SITE: SIPI SEC  
 DATE RECEIVED: February 6, 2007  
 REPORT DATE: February 12, 2007  
 ANALYSIS DATE: February 12, 2007

ORDER ID: 51621  
 REFERENCE NUMBER: 292272  
 DATE SAMPLED: February 5, 2007  
 TIME SAMPLED: 2:30 PM  
 SAMPLER: DM  
 ANALYST: 110

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	< 50.0
Benzene	7.6
Bromobenzene	< 5.0
Bromochloromethane	< 10.0
Bromodichloromethane	< 5.0
Bromoform	< 10.0
Bromomethane	< 25.0
2-Butanone	< 50.0
n-Butylbenzene	< 5.0
sec-Butylbenzene	< 5.0
tert-Butylbenzene	< 5.0
Carbon Disulfide	< 25.0
Carbon Tetrachloride	< 5.0
Chlorobenzene	< 5.0
Chloroethane	< 25.0
2-Chloroethyl Vinyl Ether	< 100.
Chloroform	< 5.0
Chloromethane	< 15.0
2-Chlorotoluene	39.3
4-Chlorotoluene	< 5.0
Dibromochloromethane	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 10.0
Dibromomethane	< 10.0
1,2-Dichlorobenzene	< 5.0
1,3-Dichlorobenzene	< 5.0
1,4-Dichlorobenzene	20.0
Dichlorodifluoromethane	< 25.0
1,1-Dichloroethane	< 5.0
1,2-Dichloroethane	< 5.0
1,1-Dichloroethene	< 5.0
cis-1,2-Dichloroethene	< 5.0
trans-1,2-Dichloroethene	< 5.0
1,2-Dichloropropane	< 10.0
1,3-Dichloropropane	< 5.0
2,2-Dichloropropane	< 5.0

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
1,1-Dichloropropene	< 5.0
cis-1,3-Dichloropropene	< 5.0
trans-1,3-Dichloropropene	< 5.0
Diethyl Ether	40.1
Ethylbenzene	138.
Hexachlorobutadiene	< 10.0
2-Hexanone	< 50.0
Isopropylbenzene	7.7
p-Isopropyltoluene	11.4
Methylene Chloride	< 25.0
4-Methyl-2-Pentanone	< 50.0
MTBE	< 10.0
Naphthalene	11.2
n-Propylbenzene	5.9
Styrene	< 5.0
1,1,1,2-Tetrachloroethane	< 10.0
1,1,2,2-Tetrachloroethane	< 10.0
Tetrachloroethene	< 5.0
Tetrahydrofuran	554.
Toluene	19.3
1,2,3-Trichlorobenzene	< 10.0
1,2,4-Trichlorobenzene	< 10.0
1,1,1-Trichloroethane	< 5.0
1,1,2-Trichloroethane	< 5.0
Trichloroethene	< 5.0
Trichlorofluoromethane	< 10.0
1,2,3-Trichloropropane	< 10.0
1,2,4-Trimethylbenzene	43.2
1,3,5-Trimethylbenzene	16.3
Vinyl Chloride	< 10.0
Xylenes, Total	316.
Surrogate 1	99.0%
Surrogate 2	101.0%
Surrogate 3	103.0%
LIP's	> 10.



**ENDYNE, INC.**  
160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4933

**CHAIN-OF-CUSTODY-RECORD**

34793

Special Reporting Instructions:

Project Name: NCES Reporting Address: 3 Park Court, Montpelier, VT Billing Address: Same  
 Endyne Order ID: 0807-1012A Company: Casella Waste mgmt Sampler Name: K-Emmons  
 (Lab Use Only) Contact Name/Phone #: Joe Gay Phone #: 603-869-3366

Ref # (Lab Use Only)	Sample Identifier	Matrix	G K A B	C O M P	Date/Time	Sample Containers		Analytes Required	Sample Preservation	Rush
						No.	Type/Size			
	S4-SEC	W	✓		7/24/08	2	8oz P	1, 2, 9		
					7:50pm	2	vac vials	10, 18, 24 Metals		
								Temp 19.5°C		
								Conductivity 760		
								PH 5.06		
								AD, CR, PE		
								Mn, Pb		

Relinquished by: K. Emmons Date/Time: 7/24/08 5:30pm Received by: J. Tucker Date/Time: 7/25/08 10:04

New York State Project: Yes No X Requested Analyses

Requested Analyses	Requested Analyses	Requested Analyses	Requested Analyses
1 pH	6 TKN	11 Total Solids	16 Sulfate
2 Chloride	7 Total P	12 TSS	17 Coliform (Specify)
3 Ammonia N	8 Total Diss. P	13 TDS	18 COD
4 Nitrite N	9 BOD	14 Turbidity	19 8021B
5 Nitrate N	10 Alkalinity	15 Conductivity	20 8010/8020
31 Metals (As Is, Total Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, V, Zn			
32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)	33		
34 Other			

Delivery: 8270 PAH  
 Temp: PP13 Metals  
RCRA8 Metals  
8260 8260B  
8270 B/N or Acid

(White - Laboratory / Yellow - Client)

LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Gene Martin

PROJECT: NCES  
ORDER ID: 51584  
RECEIVE DATE: February 2, 2007  
REPORT DATE: February 12, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures

# LABORATORY REPORT

SW 8260B

CLIENT: Casella Waste Management, Inc.  
 PROJECT: NCES  
 SITE: S1P1 Sec  
 DATE RECEIVED: February 2, 2007  
 REPORT DATE: February 12, 2007  
 ANALYSIS DATE: February 9, 2007

ORDER ID: 51584  
 REFERENCE NUMBER: 292170  
 DATE SAMPLED: February 1, 2007  
 TIME SAMPLED: 2:30 PM  
 SAMPLER: DM  
 ANALYST: 110

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	< 50.0	1,1-Dichloropropene	< 5.0
Benzene	8.0	cis-1,3-Dichloropropene	< 5.0
Bromobenzene	< 5.0	trans-1,3-Dichloropropene	< 5.0
Bromochloromethane	< 10.0	Diethyl Ether	32.6
Bromodichloromethane	< 5.0	Ethylbenzene	127.
Bromoform	< 10.0	Hexachlorobutadiene	< 10.0
Bromomethane	< 25.0	2-Hexanone	< 50.0
2-Butanone	< 50.0	Isopropylbenzene	7.7
n-Butylbenzene	< 5.0	p-Isopropyltoluene	12.0
sec-Butylbenzene	< 5.0	Methylene Chloride	< 25.0
tert-Butylbenzene	< 5.0	4-Methyl-2-Pentanone	< 50.0
Carbon Disulfide	< 25.0	MTBE	< 10.0
Carbon Tetrachloride	< 5.0	Naphthalene	< 10.0
Chlorobenzene	< 5.0	n-Propylbenzene	5.9
Chloroethane	< 25.0	Styrene	< 5.0
2-Chloroethyl Vinyl Ether	< 100.	1,1,1,2-Tetrachloroethane	< 10.0
Chloroform	< 5.0	1,1,1,2,2-Tetrachloroethane	< 10.0
Chloromethane	< 15.0	Tetrachloroethene	< 5.0
2-Chlorotoluene	37.1	Tetrahydrofuran	390.
4-Chlorotoluene	< 5.0	Toluene	14.8
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0	1,2,4-Trichlorobenzene	< 10.0
1,2-Dibromoethane	< 10.0	1,1,1-Trichloroethane	< 5.0
Dibromomethane	< 10.0	1,1,2-Trichloroethane	< 5.0
1,2-Dichlorobenzene	< 5.0	Trichloroethene	< 5.0
1,3-Dichlorobenzene	< 5.0	Trichlorofluoromethane	< 10.0
1,4-Dichlorobenzene	18.9	1,2,3-Trichloropropane	< 10.0
Dichlorodifluoromethane	< 25.0	1,2,4-Trimethylbenzene	41.2
1,1-Dichloroethane	< 5.0	1,3,5-Trimethylbenzene	15.5
1,2-Dichloroethane	< 5.0	Vinyl Chloride	< 10.0
1,1-Dichloroethene	< 5.0	Xylenes, Total	285.
cis-1,2-Dichloroethene	< 5.0	Surrogate 1	105.%
trans-1,2-Dichloroethene	< 5.0	Surrogate 2	103.%
1,2-Dichloropropane	< 10.0	Surrogate 3	101.%
1,3-Dichloropropane	< 5.0	UIP's	> 10.
2,2-Dichloropropane	< 5.0		

LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
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Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures



## LABORATORY REPORT

CLIENT: Casella Waste Management, Inc.

ORDER ID: 51584

PROJECT: NCES

DATE RECEIVED: February 2, 2007

REPORT DATE: February 13, 2007

SAMPLER: DM

Ref. Number: 292171	Site: S1P1 Sec	Date Sampled: February 1, 2007	Time: 2:30 PM
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<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Conductivity	1,410	umho/cm	Field Result	2/5/07	999
pH	6.3	S.U.	Field Result	2/5/07	999
Temperature	17.1	°C	Field Result	2/5/07	999
pH	6.48	S.U.	EPA 150.1	2/2/07 3:00 PM	911
Chloride	304.	mg/L	EPA 300.0	2/7/07	168
BOD, 5 day	15.	mg/L	EPA 405.1	2/2/07 1:45 PM	903
Chemical Oxy. Demand	320.	mg/L	EPA 410.4	2/5/07	903
Sulfate	28.6	mg/L	EPA 300.0	2/7/07	168
Total Cadmium	< 0.004	mg/L	EPA 200.7	2/12/07	808
Total Chromium	< 0.040	mg/L	EPA 200.7	2/12/07	808
Total Iron	72.2	mg/L	EPA 200.7	2/12/07	808
Total Lead	< 0.040	mg/L	EPA 200.7	2/12/07	808
Total Manganese	7.12	mg/L	EPA 200.7	2/12/07	808

LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Gene Martin

PROJECT: NCES  
ORDER ID: 51586  
RECEIVE DATE: February 2, 2007  
REPORT DATE: February 7, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

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LABORATORY REPORT

CLIENT: Casella Waste Management, Inc.

ORDER ID: 51586

PROJECT: NCES

DATE RECEIVED: February 2, 2007

REPORT DATE: February 7, 2007

SAMPLER: DM

Ref. Number: 292173	Site: S1P4 Sec	Date Sampled: February 1, 2007	Time: 2:30 PM
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<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
BOD, 5 day	20.	mg/L	EPA 405.1	2/2/07 1:45 PM	903
Chemical Oxy. Demand	300.	mg/L	EPA 410.4	2/5/07	903

LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Gene Martin

PROJECT: NCES  
ORDER ID: 51336  
RECEIVE DATE: January 23, 2007  
REPORT DATE: February 8, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

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LABORATORY REPORT

SW 8260B

CLIENT: Casella Waste Management, Inc.  
 PROJECT: NCES  
 SITE: S1P4 Sec  
 DATE RECEIVED: January 23, 2007  
 REPORT DATE: February 8, 2007  
 ANALYSIS DATE: February 2, 2007

ORDER ID: 51336  
 REFERENCE NUMBER: 291612  
 DATE SAMPLED: January 22, 2007  
 TIME SAMPLED: 2:00 PM  
 SAMPLER: DM  
 ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	< 10.0	1,1-Dichloropropene	< 1.0
Benzene	4.9	cis-1,3-Dichloropropene	< 1.0
Bromobenzene	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromochloromethane	< 2.0	Diethyl Ether	141.
Bromodichloromethane	< 1.0	Ethylbenzene	22.7
Bromoform	< 2.0	Hexachlorobutadiene	< 2.0
Bromomethane	< 5.0	2-Hexanone	< 10.0
2-Butanone	< 10.0	Isopropylbenzene	< 1.0
n-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
sec-Butylbenzene	< 1.0	Methylene Chloride	< 5.0
tert-Butylbenzene	< 1.0	4-Methyl-2-Pentanone	< 10.0
Carbon Disulfide	< 5.0	MTBE	27.3
Carbon Tetrachloride	< 1.0	Naphthalene	< 2.0
Chlorobenzene	< 1.0	n-Propylbenzene	< 1.0
Chloroethane	9.0	Styrene	< 1.0
2-Chloroethyl Vinyl Ether	< 20.0	1,1,1,2-Tetrachloroethane	< 2.0
Chloroform	< 1.0	1,1,2,2-Tetrachloroethane	< 2.0
Chloromethane	< 3.0	Tetrachloroethene	< 1.0
4-Chlorotoluene	< 1.0	Tetrahydrofuran	79.0
2-Chlorotoluene	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 2.0	1,2,3-Trichlorobenzene	< 2.0
1,2-Dibromo-3-Chloropropane	< 2.0	1,2,4-Trichlorobenzene	< 2.0
1,2-Dibromoethane	< 2.0	1,1,1-Trichloroethane	< 1.0
Dibromomethane	< 2.0	1,1,2-Trichloroethane	< 1.0
1,2-Dichlorobenzene	< 1.0	Trichloroethene	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichlorofluoromethane	< 2.0
1,4-Dichlorobenzene	3.0	1,2,3-Trichloropropane	< 2.0
Dichlorodifluoromethane	< 5.0	1,2,4-Trimethylbenzene	1.8
1,1-Dichloroethane	5.7	1,3,5-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 1.0	Vinyl Chloride	< 2.0
1,1-Dichloroethene	< 1.0	Xylenes, Total	7.1
cis-1,2-Dichloroethene	< 1.0	Surrogate 1	94.0%
trans-1,2-Dichloroethene	< 1.0	Surrogate 2	101.0%
1,2-Dichloropropane	< 2.0	Surrogate 3	96.0%
1,3-Dichloropropane	< 1.0	UIP's	> 10.
2,2-Dichloropropane	< 1.0		

# LABORATORY REPORT

SW 8260B

CLIENT: Casella Waste Management, Inc.  
 PROJECT: NCES  
 SITE: S4 Sec  
 DATE RECEIVED: January 23, 2007  
 REPORT DATE: February 8, 2007  
 ANALYSIS DATE: February 2, 2007

ORDER ID: 51336  
 REFERENCE NUMBER: 291613  
 DATE SAMPLED: January 22, 2007  
 TIME SAMPLED: 2:00 PM  
 SAMPLER: DM  
 ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	37.2	1,1-Dichloropropene	< 1.0
Benzene	4.9	cis-1,3-Dichloropropene	< 1.0
Bromobenzene	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromochloromethane	< 2.0	Diethyl Ether	38.7
Bromodichloromethane	< 1.0	Ethylbenzene	38.2
Bromoform	< 2.0	Hexachlorobutadiene	< 2.0
Bromomethane	< 5.0	2-Hexanone	< 10.0
2-Butanone	21.9	Isopropylbenzene	1.9
n-Butylbenzene	< 1.0	p-Isopropyltoluene	3.8
sec-Butylbenzene	< 1.0	Methylene Chloride	< 5.0
tert-Butylbenzene	< 1.0	4-Methyl-2-Pentanone	< 10.0
Carbon Disulfide	< 5.0	MTBE	14.0
Carbon Tetrachloride	< 1.0	Naphthalene	< 2.0
Chlorobenzene	< 1.0	n-Propylbenzene	1.1
Chloroethane	< 5.0	Styrene	< 1.0
2-Chloroethyl Vinyl Ether	< 20.0	1,1,1,2-Tetrachloroethane	< 2.0
Chloroform	< 1.0	1,1,2,2-Tetrachloroethane	< 2.0
Chloromethane	< 3.0	Tetrachloroethene	< 1.0
2-Chlorotoluene	< 1.0	Tetrahydrofuran	205.
4-Chlorotoluene	< 1.0	Toluene	11.2
Dibromochloromethane	< 2.0	1,2,3-Trichlorobenzene	< 2.0
1,2-Dibromo-3-Chloropropane	< 2.0	1,2,4-Trichlorobenzene	< 2.0
1,2-Dibromoethane	< 2.0	1,1,1-Trichloroethane	< 1.0
Dibromomethane	< 2.0	1,1,2-Trichloroethane	< 1.0
1,2-Dichlorobenzene	< 1.0	Trichloroethene	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichlorofluoromethane	< 2.0
1,4-Dichlorobenzene	3.0	1,2,3-Trichloropropane	< 2.0
Dichlorodifluoromethane	< 5.0	1,2,4-Trimethylbenzene	8.1
1,1-Dichloroethane	2.8	1,3,5-Trimethylbenzene	3.9
1,2-Dichloroethane	< 1.0	Vinyl Chloride	3.8
1,1-Dichloroethene	< 1.0	Xylenes, Total	50.1
cis-1,2-Dichloroethene	3.0	Surrogate 1	94.0%
trans-1,2-Dichloroethene	< 1.0	Surrogate 2	104.0%
1,2-Dichloropropane	< 2.0	Surrogate 3	100.0%
1,3-Dichloropropane	< 1.0	UIP's	> 10.
2,2-Dichloropropane	< 1.0		



LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Gene Martin

PROJECT: NCES  
ORDER ID: 51336  
RECEIVE DATE: January 23, 2007  
REPORT DATE: February 13, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures

## LABORATORY REPORT

CLIENT: Casella Waste Management, Inc.

ORDER ID: 51336

PROJECT: NCES

DATE RECEIVED: January 23, 2007

REPORT DATE: February 13, 2007

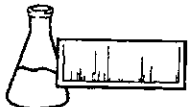
SAMPLER: DM

Ref. Number: 291612	Site: SIP4 Sec	Date Sampled: January 22, 2007	Time: 2:00 PM
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<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Conductivity	690	umho/cm	Field Result	1/23/07 3:36 PM	999
pH	7.49	S.U.	Field Result	1/23/07 3:36 PM	999
Temperature	10.5	°C	Field Result	1/23/07 3:35 PM	999
pH	6.26	S.U.	EPA 150.1	1/23/07 4:45 PM	911
Chloride	< 50.	mg/L	EPA 300.0	1/23/07	168
BOD, 5 day	39.	mg/L	EPA 405.1	1/23/07 3:35 PM	903
Chemical Oxy. Demand	160.	mg/L	EPA 410.4	1/29/07	903
Sulfate	< 10.	mg/L	EPA 300.0	1/23/07	168
Total Cadmium	< 0.002	mg/L	EPA 200.7	1/31/07	808
Total Chromium	0.024	mg/L	EPA 200.7	1/31/07	808
Total Iron	61.2	mg/L	EPA 200.7	1/31/07	808
Total Lead	< 0.001	mg/L	SM 3113B	2/8/07	999
Total Manganese	26.7	mg/L	EPA 200.7	1/31/07	808

Ref. Number: 291613	Site: S4 Sec	Date Sampled: January 22, 2007	Time: 2:00 PM
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<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Conductivity	860	umho/cm	Field Result	1/23/07 3:36 PM	999
pH	6.91	S.U.	Field Result	1/23/07 3:36 PM	999
Temperature	11.2	°C	Field Result	1/23/07 3:35 PM	999
pH	6.39	S.U.	EPA 150.1	1/23/07 4:45 PM	911
Chloride	560.	mg/L	EPA 300.0	1/23/07	168
BOD, 5 day	41.	mg/L	EPA 405.1	1/23/07 3:30 PM	903
Chemical Oxy. Demand	240.	mg/L	EPA 410.4	1/29/07	903
Sulfate	301.	mg/L	EPA 300.0	1/23/07	168
Total Cadmium	< 0.002	mg/L	EPA 200.7	1/31/07	808
Total Chromium	0.045	mg/L	EPA 200.7	1/31/07	808
Total Iron	99.4	mg/L	EPA 200.7	1/31/07	808
Total Lead	0.001	mg/L	SM 3113B	2/8/07	999
Total Manganese	18.2	mg/L	EPA 200.7	1/31/07	808



**ENDYNE, INC.**

Laboratory Services

160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
FAX 879-7103

LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Joe Gay

PROJECT: NCES Landfill  
ORDER ID: 53302  
RECEIVE DATE: April 12, 2007  
REPORT DATE: May 2, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

*P2—All samples were not preserved at a pH < 2.*

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

Enclosures



**ENDYNE, INC.**

**Laboratory Services**

160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
FAX 879-7103

**LABORATORY REPORT**  
SW 8260B

CLIENT: Casella Waste Management, Inc.  
PROJECT: NCES Landfill  
SITE: SIPI PRJ  
DATE RECEIVED: April 12, 2007  
REPORT DATE: May 2, 2007  
ANALYSIS DATE: April 19, 2007

ORDER ID: 53302  
REFERENCE NUMBER: 296225  
DATE SAMPLED: April 11, 2007  
TIME SAMPLED: 1:25 PM  
SAMPLER: CG/DP  
ANALYST: 110

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	< 50.0
Benzene	6.0
Bromobenzene	< 5.0
Bromochloromethane	< 10.0
Bromodichloromethane	< 5.0
Bromoform	< 10.0
Bromomethane	< 25.0
2-Butanone	< 50.0
n-Butylbenzene	< 5.0
sec-Butylbenzene	< 5.0
tert-Butylbenzene	< 5.0
Carbon Disulfide	< 25.0
Carbon Tetrachloride	< 5.0
Chlorobenzene	< 5.0
Chloroethane	< 25.0
2-Chloroethyl Vinyl Ether	< 100.
Chloroform	< 5.0
Chloromethane	< 15.0
4-Chlorotoluene	< 5.0
2-Chlorotoluene	23.3
Dibromochloromethane	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 10.0
Dibromomethane	< 10.0
1,2-Dichlorobenzene	< 5.0
1,3-Dichlorobenzene	< 5.0
1,4-Dichlorobenzene	13.4
Dichlorodifluoromethane	< 25.0
1,1-Dichloroethane	< 5.0
1,2-Dichloroethane	< 5.0
1,1-Dichloroethene	< 5.0
cis-1,2-Dichloroethene	< 5.0
trans-1,2-Dichloroethene	< 5.0
1,2-Dichloropropane	< 10.0
1,3-Dichloropropane	< 5.0
2,2-Dichloropropane	< 5.0

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
1,1-Dichloropropene	< 5.0
cis-1,3-Dichloropropene	< 5.0
trans-1,3-Dichloropropene	< 5.0
Diethyl Ether	< 25.0
Ethylbenzene	94.2
Hexachlorobutadiene	< 10.0
2-Hexanone	< 50.0
Isopropylbenzene	5.5
p-Isopropyltoluene	6.7
Methylene Chloride	< 25.0
4-Methyl-2-Pentanone	< 50.0
MTBE	< 10.0
Naphthalene	11.3
n-Propylbenzene	< 5.0
Styrene	< 5.0
1,1,1,2-Tetrachloroethane	< 10.0
1,1,1,2,2-Tetrachloroethane	< 10.0
Tetrachloroethene	< 5.0
Tetrahydrofuran	989.
Toluene	12.7
1,2,3-Trichlorobenzene	< 10.0
1,2,4-Trichlorobenzene	< 10.0
1,1,1-Trichloroethane	< 5.0
1,1,2-Trichloroethane	< 5.0
Trichloroethene	< 5.0
Trichlorofluoromethane	< 10.0
1,2,3-Trichloropropane	< 10.0
1,2,4-Trimethylbenzene	27.8
1,3,5-Trimethylbenzene	9.4
Vinyl Chloride	< 10.0
Xylenes, Total	222.
Surrogate 1	101.0%
Surrogate 2	101.0%
Surrogate 3	101.0%
UIP's	> 10.





**ENDYNE, INC.**

Laboratory Services

160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
FAX 879-7103

LABORATORY REPORT

SW 8260B

CLIENT: Casella Waste Management, Inc.  
PROJECT: NCES Landfill  
SITE: SIPII PRI  
DATE RECEIVED: April 12, 2007  
REPORT DATE: May 2, 2007  
ANALYSIS DATE: April 19, 2007

ORDER ID: 53302  
REFERENCE NUMBER: 296226  
DATE SAMPLED: April 11, 2007  
TIME SAMPLED: 1:15 PM  
SAMPLER: CG/DP  
ANALYST: 110

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	2,280.
Benzene	6.2
Bromobenzene	< 5.0
Bromochloromethane	< 10.0
Bromodichloromethane	< 5.0
Bromoform	< 10.0
Bromomethane	< 25.0
2-Butanone	1,850.
n-Butylbenzene	< 5.0
sec-Butylbenzene	< 5.0
tert-Butylbenzene	< 5.0
Carbon Disulfide	< 25.0
Carbon Tetrachloride	< 5.0
Chlorobenzene	< 5.0
Chloroethane	< 25.0
2-Chloroethyl Vinyl Ether	< 100.
Chloroform	< 5.0
Chloromethane	< 15.0
4-Chlorotoluene	< 5.0
2-Chlorotoluene	< 5.0
Dibromochloromethane	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0
1,2-Dibromoethane	< 10.0
Dibromomethane	< 10.0
1,2-Dichlorobenzene	< 5.0
1,3-Dichlorobenzene	< 5.0
1,4-Dichlorobenzene	10.9
Dichlorodifluoromethane	< 25.0
1,1-Dichloroethane	< 5.0
1,2-Dichloroethane	< 5.0
1,1-Dichloroethene	< 5.0
cis-1,2-Dichloroethene	< 5.0
trans-1,2-Dichloroethene	< 5.0
1,2-Dichloropropane	< 10.0
1,3-Dichloropropane	< 5.0
2,2-Dichloropropane	< 5.0

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
1,1-Dichloropropene	< 5.0
cis-1,3-Dichloropropene	< 5.0
trans-1,3-Dichloropropene	< 5.0
Diethyl Ether	85.5
Ethylbenzene	83.9
Hexachlorobutadiene	< 10.0
2-Hexanone	< 50.0
Isopropylbenzene	< 5.0
p-Isopropyltoluene	35.8
Methylene Chloride	< 25.0
4-Methyl-2-Pentanone	64.1
MTBE	< 10.0
Naphthalene	14.7
n-Propylbenzene	< 5.0
Styrene	< 5.0
1,1,1,2-Tetrachloroethane	< 10.0
1,1,2,2-Tetrachloroethane	< 10.0
Tetrachloroethene	< 5.0
Tetrahydrofuran	3,060.
Toluene	158.
1,2,3-Trichlorobenzene	< 10.0
1,2,4-Trichlorobenzene	< 10.0
1,1,1-Trichloroethane	< 5.0
1,1,2-Trichloroethane	< 5.0
Trichloroethene	< 5.0
Trichlorofluoromethane	< 10.0
1,2,3-Trichloropropane	< 10.0
1,2,4-Trimethylbenzene	22.3
1,3,5-Trimethylbenzene	7.8
Vinyl Chloride	< 10.0
Xylenes, Total	203.
Surrogate 1	102.0%
Surrogate 2	99.0%
Surrogate 3	100.0%
UIP's	> 10.





**ENDYNE, INC.**

**Laboratory Services**

160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
FAX 879-7103

**LABORATORY REPORT**

SW 8260B

CLIENT: Casella Waste Management, Inc.  
PROJECT: NCES Landfill  
SITE: SIPIII PRI  
DATE RECEIVED: April 12, 2007  
REPORT DATE: May 2, 2007  
ANALYSIS DATE: April 19, 2007

ORDER ID: 53302  
REFERENCE NUMBER: 296227  
DATE SAMPLED: April 11, 2007  
TIME SAMPLED: 1:05 PM  
SAMPLER: CG/DP  
ANALYST: 110

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Acetone	4,800.	1,1-Dichloropropene	< 5.0
Benzene	< 5.0	cis-1,3-Dichloropropene	< 5.0
Bromobenzene	< 5.0	trans-1,3-Dichloropropene	< 5.0
Bromochloromethane	< 10.0	Diethyl Ether	109.
Bromodichloromethane	< 5.0	Ethylbenzene	47.0
Bromoform	< 10.0	Hexachlorobutadiene	< 10.0
Bromomethane	< 25.0	2-Hexanone	< 50.0
2-Butanone	5,130.	Isopropylbenzene	< 5.0
n-Butylbenzene	< 5.0	p-Isopropyltoluene	7.0
sec-Butylbenzene	< 5.0	Methylene Chloride	< 25.0
tert-Butylbenzene	< 5.0	4-Methyl-2-Pentanone	106.
Carbon Disulfide	< 25.0	MTBE	15.3
Carbon Tetrachloride	< 5.0	Naphthalene	< 10.0
Chlorobenzene	< 5.0	n-Propylbenzene	< 5.0
Chloroethane	< 25.0	Styrene	< 5.0
2-Chloroethyl Vinyl Ether	< 100.	1,1,1,2-Tetrachloroethane	< 10.0
Chloroform	< 5.0	1,1,2,2-Tetrachloroethane	< 10.0
Chloromethane	< 15.0	Tetrachloroethene	< 5.0
4-Chlorotoluene	< 5.0	Tetrahydrofuran	2,170.
2-Chlorotoluene	< 5.0	Toluene	40.3
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0	1,2,4-Trichlorobenzene	< 10.0
1,2-Dibromoethane	< 10.0	1,1,1-Trichloroethane	< 5.0
Dibromomethane	< 10.0	1,1,2-Trichloroethane	< 5.0
1,2-Dichlorobenzene	< 5.0	Trichloroethene	< 5.0
1,3-Dichlorobenzene	< 5.0	Trichlorofluoromethane	< 10.0
1,4-Dichlorobenzene	< 5.0	1,2,3-Trichloropropane	< 10.0
Dichlorodifluoromethane	< 25.0	1,2,4-Trimethylbenzene	7.0
1,1-Dichloroethane	< 5.0	1,3,5-Trimethylbenzene	< 5.0
1,2-Dichloroethane	< 5.0	Vinyl Chloride	< 10.0
1,1-Dichloroethene	< 5.0	Xylenes, Total	60.7
cis-1,2-Dichloroethene	< 5.0	Surrogate 1	103.0%
trans-1,2-Dichloroethene	< 5.0	Surrogate 2	99.0%
1,2-Dichloropropane	< 10.0	Surrogate 3	101.0%
1,3-Dichloropropane	< 5.0	UIP's	> 10.
2,2-Dichloropropane	< 5.0		







ENDYNE, INC.

Laboratory Services

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FAX 879-7103

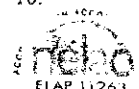
LABORATORY REPORT

SW 8260B

CLIENT: Casella Waste Management, Inc.  
PROJECT: NCES Landfill  
SITE: SIPIV PRI  
DATE RECEIVED: April 12, 2007  
REPORT DATE: May 2, 2007  
ANALYSIS DATE: April 19, 2007

ORDER ID: 53302  
REFERENCE NUMBER: 296228  
DATE SAMPLED: April 11, 2007  
TIME SAMPLED: 1:35 PM  
SAMPLER: CG/DP  
ANALYST: 110

Parameter	Result ug/L	Parameter	Result ug/L
Acetone	1,720.	1,1-Dichloropropene	< 5.0
Benzene	7.0	cis-1,3-Dichloropropene	< 5.0
Bromobenzene	< 5.0	trans-1,3-Dichloropropene	< 5.0
Bromochloromethane	< 10.0	Diethyl Ether	52.9
Bromodichloromethane	< 5.0	Ethylbenzene	125.
Bromoform	< 10.0	Hexachlorobutadiene	< 10.0
Bromomethane	< 25.0	2-Hexanone	< 50.0
2-Butanone	2,330.	Isopropylbenzene	6.4
n-Butylbenzene	< 5.0	p-Isopropyltoluene	24.6
sec-Butylbenzene	< 5.0	Methylene Chloride	34.2
tert-Butylbenzene	< 5.0	4-Methyl-2-Pentanone	64.7
Carbon Disulfide	< 25.0	MTBE	12.3
Carbon Tetrachloride	< 5.0	Naphthalene	12.3
Chlorobenzene	< 5.0	n-Propylbenzene	5.9
Chloroethane	< 25.0	Styrene	< 5.0
2-Chloroethyl Vinyl Ether	< 100.	1,1,1,2-Tetrachloroethane	< 10.0
Chloroform	< 5.0	1,1,2,2-Tetrachloroethane	< 10.0
Chloromethane	< 15.0	Tetrachloroethene	< 5.0
4-Chlorotoluene	< 5.0	Tetrahydrofuran	672.
2-Chlorotoluene	< 5.0	Toluene	105.
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0	1,2,4-Trichlorobenzene	< 10.0
1,2-Dibromoethane	< 10.0	1,1,1-Trichloroethane	< 5.0
Dibromomethane	< 10.0	1,1,2-Trichloroethane	< 5.0
1,2-Dichlorobenzene	< 5.0	Trichloroethene	5.5
1,3-Dichlorobenzene	< 5.0	Trichlorofluoromethane	< 10.0
1,4-Dichlorobenzene	11.2	1,2,3-Trichloropropane	< 10.0
Dichlorodifluoromethane	< 25.0	1,2,4-Trimethylbenzene	42.4
1,1-Dichloroethane	< 5.0	1,3,5-Trimethylbenzene	14.7
1,2-Dichloroethane	< 5.0	Vinyl Chloride	< 10.0
1,1-Dichloroethene	< 5.0	Xylenes, Total	226.
cis-1,2-Dichloroethene	5.4	Surrogate 1	101.%
trans-1,2-Dichloroethene	< 5.0	Surrogate 2	100.%
1,2-Dichloropropane	< 10.0	Surrogate 3	101.%
1,3-Dichloropropane	< 5.0	UIP's	> 10.
2,2-Dichloropropane	< 5.0		





LABORATORY REPORT  
SW 8260B

CLIENT: Casella Waste Management, Inc.  
PROJECT: NCES Landfill  
SITE: SIV COMBINED  
DATE RECEIVED: April 12, 2007  
REPORT DATE: May 2, 2007  
ANALYSIS DATE: April 19, 2007

ORDER ID: 53302  
REFERENCE NUMBER: 296229  
DATE SAMPLED: April 11, 2007  
TIME SAMPLED: 1:50 PM  
SAMPLER: CG/DP  
ANALYST: 110

Parameter	Result ug/L	Parameter	Result ug/L
Acetone	3,640.	1,1-Dichloropropene	< 5.0
Benzene	8.3	cis-1,3-Dichloropropene	< 5.0
Bromobenzene	< 5.0	trans-1,3-Dichloropropene	< 5.0
Bromochloromethane	< 10.0	Diethyl Ether	115.
Bromodichloromethane	< 5.0	Ethylbenzene	60.0
Bromoform	< 10.0	Hexachlorobutadiene	< 10.0
Bromomethane	< 25.0	2-Hexanone	< 50.0
2-Butanone	4,290.	Isopropylbenzene	< 5.0
n-Butylbenzene	< 5.0	p-Isopropyltoluene	6.5
sec-Butylbenzene	< 5.0	Methylene Chloride	< 25.0
tert-Butylbenzene	< 5.0	4-Methyl-2-Pentanone	< 50.0
Carbon Disulfide	< 25.0	MTBE	22.5
Carbon Tetrachloride	< 5.0	Naphthalene	< 10.0
Chlorobenzene	< 5.0	n-Propylbenzene	< 5.0
Chloroethane	< 25.0	Styrene	< 5.0
2-Chloroethyl Vinyl Ether	< 100.	1,1,1,2-Tetrachloroethane	< 10.0
Chloroform	< 5.0	1,1,2,2-Tetrachloroethane	< 10.0
Chloromethane	< 15.0	Tetrachloroethene	< 5.0
4-Chlorotoluene	< 5.0	Tetrahydrofuran	2,300.
2-Chlorotoluene	< 5.0	Toluene	147.
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0	1,2,4-Trichlorobenzene	< 10.0
1,2-Dibromoethane	< 10.0	1,1,1-Trichloroethane	< 5.0
Dibromomethane	< 10.0	1,1,2-Trichloroethane	< 5.0
1,2-Dichlorobenzene	< 5.0	Trichloroethene	< 5.0
1,3-Dichlorobenzene	< 5.0	Trichlorofluoromethane	< 10.0
1,4-Dichlorobenzene	< 5.0	1,2,3-Trichloropropane	< 10.0
Dichlorodifluoromethane	< 25.0	1,2,4-Trimethylbenzene	10.3
1,1-Dichloroethane	< 5.0	1,3,5-Trimethylbenzene	< 5.0
1,2-Dichloroethane	< 5.0	Vinyl Chloride	< 10.0
1,1-Dichloroethene	< 5.0	Xylenes, Total	102.
cis-1,2-Dichloroethene	< 5.0	Surrogate 1	100.0%
trans-1,2-Dichloroethene	< 5.0	Surrogate 2	100.0%
1,2-Dichloropropane	< 10.0	Surrogate 3	99.0%
1,3-Dichloropropane	< 5.0	UIP's	> 10.
2,2-Dichloropropane	< 5.0		





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FAX 879-7103

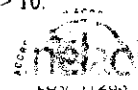
### LABORATORY REPORT

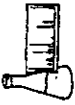
SW 8260B

CLIENT: Casella Waste Management, Inc.  
PROJECT: NCES Landfill  
SITE: SIII Pri  
DATE RECEIVED: April 12, 2007  
REPORT DATE: May 2, 2007  
ANALYSIS DATE: April 19, 2007

ORDER ID: 53302  
REFERENCE NUMBER: 296230  
DATE SAMPLED: April 11, 2007  
TIME SAMPLED: 2:10 PM  
SAMPLER: CG/DP  
ANALYST: 110

Parameter	Result ug/L	Parameter	Result ug/L
Acetone	325.	1,1-Dichloropropene	< 5.0
Benzene	5.2	cis-1,3-Dichloropropene	< 5.0
Bromobenzene	< 5.0	trans-1,3-Dichloropropene	< 5.0
Bromochloromethane	< 10.0	Diethyl Ether	50.6
Bromodichloromethane	< 5.0	Ethylbenzene	28.6
Bromoform	< 10.0	Hexachlorobutadiene	< 10.0
Bromomethane	< 25.0	2-Hexanone	< 50.0
2-Butanone	210.	Isopropylbenzene	< 5.0
n-Butylbenzene	< 5.0	p-Isopropyltoluene	7.7
sec-Butylbenzene	< 5.0	Methylene Chloride	< 25.0
tert-Butylbenzene	< 5.0	4-Methyl-2-Pentanone	< 50.0
Carbon Disulfide	< 25.0	MTBE	19.6
Carbon Tetrachloride	< 5.0	Naphthalene	10.7
Chlorobenzene	< 5.0	n-Propylbenzene	< 5.0
Chloroethane	< 25.0	Styrene	< 5.0
2-Chloroethyl Vinyl Ether	< 100.	1,1,1,2-Tetrachloroethane	< 10.0
Chloroform	< 5.0	1,1,2,2-Tetrachloroethane	< 10.0
Chloromethane	< 15.0	Tetrachloroethene	< 5.0
4-Chlorotoluene	< 5.0	Tetrahydrofuran	1,510.
2-Chlorotoluene	< 5.0	Toluene	43.2
Dibromochloromethane	< 10.0	1,2,3-Trichlorobenzene	< 10.0
1,2-Dibromo-3-Chloropropane	< 10.0	1,2,4-Trichlorobenzene	< 10.0
1,2-Dibromoethane	< 10.0	1,1,1-Trichloroethane	< 5.0
Dibromomethane	< 10.0	1,1,2-Trichloroethane	< 5.0
1,2-Dichlorobenzene	< 5.0	Trichloroethene	< 5.0
1,3-Dichlorobenzene	< 5.0	Trichlorofluoromethane	< 10.0
1,4-Dichlorobenzene	6.8	1,2,3-Trichloropropane	< 10.0
Dichlorodifluoromethane	< 25.0	1,2,4-Trimethylbenzene	9.1
1,1-Dichloroethane	< 5.0	1,3,5-Trimethylbenzene	< 5.0
1,2-Dichloroethane	< 5.0	Vinyl Chloride	< 10.0
1,1-Dichloroethene	< 5.0	Xylenes, Total	65.5
cis-1,2-Dichloroethene	< 5.0	Surrogate 1	104.%
trans-1,2-Dichloroethene	< 5.0	Surrogate 2	100.%
1,2-Dichloropropane	< 10.0	Surrogate 3	101.%
1,3-Dichloropropane	< 5.0	UIP's	> 10.
2,2-Dichloropropane	< 5.0		





**ENDYNE, INC.**  
160 James Brown Drive  
Williston, Vermont 05485  
(802) 879-4333

**CHAIN-OF-CUSTODY-RECORD**

92657

Special Reporting Instructions: *Please send complete results to Joe Gay (Casella) and Paul Ryde (SHA)*

Project Name: *NCEES Carl-f-11 Bethlehem, NH*  
 Reporting Address: *Casella Waste Systems Inc. 20 Fowley St. Seicond, NH 03301*  
 Billing Address: *NCEES/Casella Waste Systems Inc.*  
 Endyne Order ID: *53302*  
 Company: *Casella Waste Systems Inc.*  
 Contact Name/Phone #: *Joe Gay (802) 223-7221*  
 Sampler Name: *Cona Gill and Dennis Parro*  
 Phone #: *(603) 229-1900*

Lab Use Only	Sample Identification	Matrix	C R A B	Date/Time	Sample Containers		Field Results/Remarks	Analysis Prepared	Sample Preservation	Reab
					No.	Type/Size				
	Stage I Primary Leachate	Leachate	X	4-11-06/1325	2	9		2, 6, 7, 13, 14, 18, 24, 31	100% - 60% Hobas	
	Stage II Primary Leachate			/1315						
	Stage III Primary Leachate			/1305						
	Stage IV Primary Leachate			/1335						
	Stage Combined Primary Leachate			/1350						
	Stage III Primary Leachate			/1410						

Relinquished by: *Dennis A. Parro* Date/Time: *4-11-07/1530*  
 Received by: *John Sullivan* Date/Time: *4/12/07 12:15*

New York State Project: Yes  No  Requested Analyses

1	pH	TKN	Total Solids	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7 Total P	TSS	17 Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8 Total Diss. P	TDS	18 COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9 BOD	Turbidity	19 8021B	24	8260 8260B	29	
5	Nitrate N	10 Alkalinity	Conductivity	20 8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total) Diss.: Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, V, Zn							
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)							
34	Other							

Delivery: *4/15/07*  
 Temp: *0.8°C*  
 Comment:

(White, Yellow - Laboratory / Pink - Client)



**ENDYNE, INC.**

Laboratory Services

160 James Brown Drive  
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(802) 879-4333  
FAX 879-7103

LABORATORY REPORT

Casella Waste Management, Inc.  
3 Pitkin Court  
Montpelier, VT 05602  
Attn: Joe Gay

PROJECT: NCES Landfill  
ORDER ID: 53302  
RECEIVE DATE: April 12, 2007  
REPORT DATE: May 2, 2007

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures





**ENDYNE, INC.**

Laboratory Services

160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
FAX 879-7103

LABORATORY REPORT

CLIENT: Casella Waste Management, Inc.

ORDER ID: 53302

PROJECT: NCES Landfill

DATE RECEIVED: April 12, 2007

REPORT DATE: May 2, 2007

SAMPLER: CG/DP

Ref. Number: 296225

Site: SIPI PRI

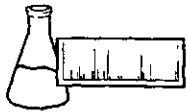
Date Sampled: April 11, 2007

Time: 1:25 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chloride	1,540.	mg/L	EPA 300.0	4/16/07	168
Nitrogen, T. Kjeldahl	462.	mg/L	EPA 351.2	5/1/07	101
BOD, 5 day	35.	mg/L	EPA 405.1	4/12/07	903
Chemical Oxy. Demand	600.	mg/L	EPA 410.4	4/26/07	903
Solids, Total Susp.	45.	mg/L	EPA 160.2	4/17/07	903
Sulfate	< 10.	mg/L	EPA 300.0	4/16/07	168
Total Arsenic	0.058	mg/L	SM 3113B	4/20/07	503
Total Cadmium	< 0.010	mg/L	EPA 200.7	4/19/07	808
Total Chromium	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Copper	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Iron	20.9	mg/L	EPA 200.7	4/19/07	808
Total Lead	< 0.005	mg/L	SM 3113B	4/25/07	316
Total Manganese	2.24	mg/L	EPA 200.7	4/19/07	808
Total Mercury	< 0.001	mg/L	EPA 245.1	4/25/07	503
Total Molybdenum	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Nickel	0.107	mg/L	EPA 200.7	4/19/07	808
Total Selenium	< 0.010	mg/L	SM 3113B	4/26/07	503
Total Zinc	< 0.100	mg/L	EPA 200.7	4/19/07	808







**ENDYNE, INC.**

**Laboratory Services**

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FAX 879-7103  
Time: 1:15 PM

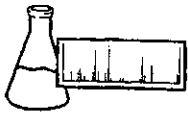
Ref. Number: 296226

Site: SIPII PRI

Date Sampled: April 11, 2007

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chloride	1,770.	mg/L	EPA 300.0	4/16/07	168
Nitrogen, T. Kjeldahl	656.	mg/L	EPA 351.2	5/1/07	101
BOD, 5 day	410.	mg/L	EPA 405.1	4/12/07	903
Chemical Oxy. Demand	2,980.	mg/L	EPA 410.4	4/26/07	903
Solids, Total Susp.	96.	mg/L	EPA 160.2	4/17/07	903
Sulfate	< 10.	mg/L	EPA 300.0	4/16/07	168
Total Arsenic	0.018	mg/L	SM 3113B	4/20/07	503
Total Cadmium	< 0.010	mg/L	EPA 200.7	4/19/07	808
Total Chromium	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Copper	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Iron	36.8	mg/L	EPA 200.7	4/19/07	808
Total Lead	< 0.005	mg/L	SM 3113B	4/25/07	316
Total Manganese	0.830	mg/L	EPA 200.7	4/19/07	808
Total Mercury	< 0.001	mg/L	EPA 245.1	4/25/07	503
Total Molybdenum	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Nickel	0.178	mg/L	EPA 200.7	4/19/07	808
Total Selenium	< 0.010	mg/L	SM 3113B	4/26/07	503
Total Zinc	< 0.100	mg/L	EPA 200.7	4/19/07	808





ENDYNE, INC.

Laboratory Services

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Ref. Number: 296227

Site: SIPIII PRI

Date Sampled: April 11, 2007

Time: 1:05 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chloride	3,100.	mg/L	EPA 300.0	4/16/07	168
Nitrogen, T. Kjeldahl	726.	mg/L	EPA 351.2	5/1/07	101
BOD, 5 day	2,900.	mg/L	EPA 405.1	4/12/07	903
Chemical Oxy. Demand	3,000.	mg/L	EPA 410.4	4/26/07	903
Solids, Total Susp.	260.	mg/L	EPA 160.2	4/17/07	903
Sulfate	< 10.	mg/L	EPA 300.0	4/16/07	168
Total Arsenic	0.016	mg/L	SM 3113B	4/20/07	503
Total Cadmium	< 0.010	mg/L	EPA 200.7	4/19/07	808
Total Chromium	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Copper	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Iron	71.1	mg/L	EPA 200.7	4/19/07	808
Total Lead	< 0.005	mg/L	SM 3113B	4/25/07	316
Total Manganese	1.04	mg/L	EPA 200.7	4/19/07	808
Total Mercury	< 0.001	mg/L	EPA 245.1	4/25/07	503
Total Molybdenum	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Nickel	0.170	mg/L	EPA 200.7	4/19/07	808
Total Selenium	< 0.010	mg/L	SM 3113B	4/26/07	503
Total Zinc	< 0.100	mg/L	EPA 200.7	4/19/07	808





# ENDYNE, INC.

## Laboratory Services

160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333

Ref. Number: 296228

Site: SIPIV PRI

Date Sampled: April 11, 2007 Time: 1:35 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chloride	3,360.	mg/L	EPA 300.0	4/16/07	168
Nitrogen, T. Kjeldahl	816.	mg/L	EPA 351.2	5/1/07	101
BOD, 5 day	550.	mg/L	EPA 405.1	4/12/07	903
Chemical Oxy. Demand	1,720.	mg/L	EPA 410.4	4/26/07	903
Solids, Total Susp.	69.	mg/L	EPA 160.2	4/17/07	903
Sulfate	29.0	mg/L	EPA 300.0	4/16/07	168
Total Arsenic	0.028	mg/L	SM 3113B	4/20/07	503
Total Cadmium	< 0.010	mg/L	EPA 200.7	4/19/07	808
Total Chromium	0.167	mg/L	EPA 200.7	4/19/07	808
Total Copper	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Iron	15.6	mg/L	EPA 200.7	4/19/07	808
Total Lead	< 0.005	mg/L	SM 3113B	4/25/07	316
Total Manganese	2.01	mg/L	EPA 200.7	4/19/07	808
Total Mercury	< 0.001	mg/L	EPA 245.1	4/25/07	503
Total Molybdenum	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Nickel	0.167	mg/L	EPA 200.7	4/19/07	808
Total Selenium	< 0.010	mg/L	SM 3113B	4/26/07	503
Total Zinc	< 0.100	mg/L	EPA 200.7	4/19/07	808





ENDYNE, INC.

Laboratory Services

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Williston, Vermont 05495  
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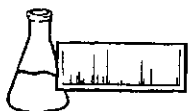
Ref. Number: 296229

Site: SIV COMBINED

Date Sampled: April 11, 2007 Time: 1:50 PM

FAX 879-7103

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chloride	1,880.	mg/L	EPA 300.0	4/16/07	168
Nitrogen, T. Kjeldahl	318.	mg/L	EPA 351.2	5/1/07	101
BOD, 5 day	2,100.	mg/L	EPA 405.1	4/12/07	903
Chemical Oxy. Demand	2,300.	mg/L	EPA 410.4	4/26/07	903
Solids, Total Susp.	160.	mg/L	EPA 160.2	4/17/07	903
Sulfate	157.	mg/L	EPA 300.0	4/16/07	168
Total Arsenic	0.057	mg/L	SM 3113B	4/20/07	503
Total Cadmium	< 0.010	mg/L	EPA 200.7	4/19/07	808
Total Chromium	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Copper	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Iron	27.9	mg/L	EPA 200.7	4/19/07	808
Total Lead	< 0.005	mg/L	SM 3113B	4/25/07	316
Total Manganese	43.0	mg/L	EPA 200.7	4/19/07	808
Total Mercury	< 0.001	mg/L	EPA 245.1	4/25/07	503
Total Molybdenum	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Nickel	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Selenium	< 0.010	mg/L	SM 3113B	4/26/07	503
Total Zinc	< 0.100	mg/L	EPA 200.7	4/19/07	808



# ENDYNE, INC.

## Laboratory Services

160 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
FAX: 879-7103

Ref. Number: 296230

Site: SIII Pri

Date Sampled: April 11, 2007 Time: 2:10 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chloride	2,300.	mg/L	EPA 300.0	4/18/07	168
Nitrogen, T. Kjeldahl	877.	mg/L	EPA 351.2	5/1/07	101
BOD, 5 day	220.	mg/L	EPA 405.1	4/12/07	903
Chemical Oxy. Demand	920.	mg/L	EPA 410.4	4/26/07	903
Solids, Total Susp.	57.	mg/L	EPA 160.2	4/17/07	903
Sulfate	168.	mg/L	EPA 300.0	4/18/07	168
Total Arsenic	0.219	mg/L	SM 3113B	4/20/07	503
Total Cadmium	< 0.010	mg/L	EPA 200.7	4/19/07	808
Total Chromium	0.246	mg/L	EPA 200.7	4/19/07	808
Total Copper	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Iron	2.85	mg/L	EPA 200.7	4/19/07	808
Total Lead	< 0.005	mg/L	SM 3113B	4/25/07	316
Total Manganese	1.26	mg/L	EPA 200.7	4/19/07	808
Total Mercury	< 0.001	mg/L	EPA 245.1	4/25/07	503
Total Molybdenum	< 0.100	mg/L	EPA 200.7	4/19/07	808
Total Nickel	0.147	mg/L	EPA 200.7	4/19/07	808
Total Selenium	< 0.020	mg/L	SM 3113B	4/26/07	503
Total Zinc	< 0.100	mg/L	EPA 200.7	4/19/07	808



## Laboratory Report

Casella Waste Management Inc. 070338  
 3 Pitkin Court  
 Montpelier, VT 05602  
 Atten: Joe Gay

PROJECT: NCES LF Quarterly Leachate  
 WORK ORDER: 0807-10429  
 DATE RECEIVED: July 25, 2008  
 DATE REPORTED: August 07, 2008  
 SAMPLER: KE

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Randolph, VT facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.  
 Laboratory Director

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 ELAP 11203 160 James Brown Dr., Williston, VT 05495  
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nelac  
 NH2037

**CHAIN-OF-CUSTODY-RECORD**

92657

Special Reporting Instructions: Please send complete results to Joe Gay (Caselle) and Paul Ryle (SHA).

Project Name: **NEES Carl-F-11**  
 Reporting Address: **Casella Waste Systems Inc. 3 Searborn Head Assoc. 20 Foundry St. Concord, NH 03301**  
 Billing Address: **NEES/Casella Waste Systems Inc.**

Endyne Order ID: **53302**  
 Company: **Casella Waste Systems Inc.**  
 Sampler Name: **Conan Gill and Dennis Peard**  
 (Lab Use Only) **1-0** Matrix: **Leachate**  
**1-1** Date/Time: **4-11-06/1325**  
**-S** Contact Name/Phone #: **Joe Gay (802) 223-7221**  
 Phone #: **(603) 229-1900**

Key # (Lab Use Only)	Sample Identification	Matrix	Date/Time	Sample Containers		Field Re-Auth. Remarks	Analysis Required	Sample Preservation	Result
				No.	Type/Size				
	stage I Primary Leachate	Leachate	4-11-06/1325	2	500 ml		2, 6, 9, 12, 16, 18, 24, 31	100% - 100% 100% - 100%	
	stage II Primary Leachate		/1315						
	stage III Primary Leachate		/1305						
	stage IV Primary Leachate		/1335						
	stage Combined Primary Leachate		/1350						
	stage III Primary Leachate		4-11-06/1410						

Relinquished by: **Dennis R. Peard** Date/Time: **4-11-07/1530**  
 Received by: **John Sullivan** Date/Time: **4/12/07 12:45**

New York State Project: Yes  No  Requested Analyses

Requested Analyses	Date/Time	Received by:
1 pH	11	Total Solids
2 Chloride	12	TSS
3 Ammonia N	13	Total Diss. P
4 Nitrite N	14	BOD
5 Nitrate N	15	Alkalinity
6 TKN	16	Sulfate
7 Total P	17	Coliform (Specify)
8 Total Diss. P	18	COD
9 BOD	19	8021B
10 Alkalinity	20	8010/8020
11 Total Solids	21	1664 TPH/FOG
12 TSS	22	8015 GRO
13 Total Diss. P	23	8015 DRO
14 BOD	24	8260/8260B
15 Alkalinity	25	8270 B/N or Acid
16 Sulfate	26	8270 PAH
17 Coliform (Specify)	27	PP13 Metals
18 COD	28	RCRA8 Metals
19 8021B	29	
20 8010/8020	30	
21 1664 TPH/FOG		
22 8015 GRO		
23 8015 DRO		
24 8260/8260B		
25 8270 B/N or Acid		
26 8270 PAH		
27 PP13 Metals		
28 RCRA8 Metals		
29		
30		
31 Metals (As Is, Total) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, V, Zn		
32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)	33	
34 Other		

Delivery: **YFS**  
 Temp: **0, 5, C**  
 Comment:

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/7/2008

WORK ORDER: 0807-10429  
 DATE RECEIVED: 07/25/2008

001	Site: S4-Sec	Date Sampled: 7/24/08		Time: 13:50				
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date</u>		<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
BOD-5day	< 140	mg/L	EPA 405.1	7/25/08	16:50	W SAL	A	
Chloride	200	mg/L	EPA 300.0	7/29/08		W KMB	A	
COD	250	mg/L	Hach 8000	7/31/08		N CAL	A	
pH	5.94	SU	EPA 150.1	7/25/08	17:00	W SAL	N	
Sulfate	320	mg/L	EPA 300.0	7/29/08		W KMB	A	
Cadmium, Total	0.002	mg/L	EPA 200.7	8/6/08		W ATH	A	
Chromium, Total	< 0.020	mg/L	EPA 200.7	8/6/08		W ATH	A	
Iron, Total	96	mg/L	EPA 200.7	8/6/08		W ATH	A	
Lead, Total	0.019	mg/L	SM18 3113B	8/6/08		W MGT	A	
Manganese, Total	8.6	mg/L	EPA 200.7	8/6/08		W ATH	A	



## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCS LF Quarterly Leachate  
 REPORT DATE: 8/7/2008

WORK ORDER: 0807-10429  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

001 Site: S4-Sec Date/Time Sampled: 7/24/08 13:50 Analysis Date: 7/30/08 W DAW

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	< 25.0	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	204	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	483	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	103	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	52.5	ug/L	U		Surr 1 (Dibromofluoromethane)	101	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropene	< 5.0	ug/L	N		Benzene	< 5.0	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	< 5.0	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N	
Surr 2 (Toluene d8)	103	%	A		Toluene	11.6	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	34.7	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	47.8	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	N	
Surr 3 (4-Bromofluorobenzene)	100	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	< 5.0	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	< 5.0	ug/L	U	
1,3,5-Trimethylbenzene	< 5.0	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	11.4	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	6.5	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	8.9	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidentified Peaks	> 10		U	



## Laboratory Report

Casella Waste Management Inc. 070338  
 3 Pitkin Court  
 Montpelier, VT 05602  
 Atten: Joe Gay

PROJECT: NCES LF Quarterly Leachate  
 WORK ORDER: 0807-10400  
 DATE RECEIVED: July 25, 2008  
 DATE REPORTED: August 16, 2008  
 SAMPLER: DP

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Randolph, VT facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.  
 Laboratory Director

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nel c  
 ELAP11263

160 James Brown Dr., Williston, VT 05495  
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P.O. Box 405, Randolph, VT 05060  
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nel c  
 NH2037

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

001 Site: Stage I Phase I Primary Leachate Date Sampled: 7/24/08 Time: 8:07

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 300	mg/L	EPA 405.1	7/25/08 12:00	W SAL	A	
Chloride	4900	mg/L	EPA 300.0	7/29/08	W KMB	A	
COD	2,100	mg/L	Hach 8000	7/31/08	N CAL	A	
TKN	430	mg/L	EPA 351.2	8/12/08	W KJS	N	
Solids, Total Suspended	4	mg/L	EPA 160.2	7/30/08	W KJS	A	
Sulfate	< 10	mg/L	EPA 300.0	7/29/08	W KMB	A	
Arsenic, Total	0.045	mg/L	SM18 3113B	8/12/08	W MGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/6/08	W ATH	A	
Chromium, Total	0.054	mg/L	EPA 200.7	8/6/08	W ATH	A	
Copper, Total	0.044	mg/L	EPA 200.7	8/6/08	W ATH	A	
Iron, Total	6.6	mg/L	EPA 200.7	8/6/08	W ATH	A	
Lead, Total	< 0.001	mg/L	SM18 3113B	7/31/08	W MGT	A	
Manganese, Total	0.90	mg/L	EPA 200.7	8/6/08	W ATH	A	
Mercury, Total	< 0.001	mg/L	EPA 245.1	7/31/08	W CM	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	N	
Nickel, Total	0.083	mg/L	EPA 200.7	8/6/08	W ATH	A	
Selenium, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	A	

002 Site: Stage I Phase II Primary Leachate Date Sampled: 7/24/08 Time: 8:05

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	340	mg/L	EPA 405.1	7/25/08 12:05	W SAL	A	
Chloride	2300	mg/L	EPA 300.0	7/29/08	W KMB	A	
COD	2,300	mg/L	Hach 8000	7/31/08	N CAL	A	
TKN	570	mg/L	EPA 351.2	8/12/08	W KJS	N	
Solids, Total Suspended	56	mg/L	EPA 160.2	7/30/08	W KJS	A	
Sulfate	22	mg/L	EPA 300.0	7/29/08	W KMB	A	
Arsenic, Total	0.013	mg/L	SM18 3113B	8/7/08	W MGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/6/08	W ATH	A	
Chromium, Total	0.026	mg/L	EPA 200.7	8/6/08	W ATH	A	
Copper, Total	0.62	mg/L	EPA 200.7	8/6/08	W ATH	A	
Iron, Total	31	mg/L	EPA 200.7	8/6/08	W ATH	A	
Lead, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	
Manganese, Total	0.50	mg/L	EPA 200.7	8/6/08	W ATH	A	
Mercury, Total	< 0.001	mg/L	EPA 245.1	7/31/08	W CM	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	N	
Nickel, Total	0.12	mg/L	EPA 200.7	8/6/08	W ATH	A	
Selenium, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	
Zinc, Total	0.049	mg/L	EPA 200.7	8/6/08	W ATH	A	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

003 Site: Stage I Phase III Primary Leachate Date Sampled: 7/24/08 Time: 8:02

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 300	mg/L	EPA 405.1	7/25/08 12:10	W SAL	A	
Chloride	3300	mg/L	EPA 300.0	7/29/08	W KMB	A	
COD	2,000	mg/L	Hach 8000	7/31/08	N CAL	A	
TKN	670	mg/L	EPA 351.2	8/12/08	W KJS	N	
Solids, Total Suspended	9	mg/L	EPA 160.2	7/30/08	W KJS	A	
Sulfate	51	mg/L	EPA 300.0	7/29/08	W KMB	A	
Arsenic, Total	0.013	mg/L	SM18 3113B	8/7/08	W MGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/6/08	W ATH	A	
Chromium, Total	0.087	mg/L	EPA 200.7	8/6/08	W ATH	A	
Copper, Total	0.052	mg/L	EPA 200.7	8/6/08	W ATH	A	
Iron, Total	6.2	mg/L	EPA 200.7	8/6/08	W ATH	A	
Lead, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	
Manganese, Total	0.24	mg/L	EPA 200.7	8/6/08	W ATH	A	
Mercury, Total	< 0.001	mg/L	EPA 245.1	7/31/08	W CM	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	N	
Nickel, Total	0.16	mg/L	EPA 200.7	8/6/08	W ATH	A	
Selenium, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	A	

004 Site: Stage I Phase IV Primary Leachate Date Sampled: 7/24/08 Time: 8:10

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	680	mg/L	EPA 405.1	7/25/08 12:15	W SAL	A	
Chloride	3800	mg/L	EPA 300.0	7/29/08	W KMB	A	
COD	3,500	mg/L	Hach 8000	7/31/08	N CAL	A	
TKN	660	mg/L	EPA 351.2	8/12/08	W KJS	N	
Solids, Total Suspended	25	mg/L	EPA 160.2	7/30/08	W KJS	A	
Sulfate	< 10	mg/L	EPA 300.0	7/29/08	W KMB	A	
Arsenic, Total	0.021	mg/L	SM18 3113B	8/7/08	W MGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/6/08	W ATH	A	
Chromium, Total	0.15	mg/L	EPA 200.7	8/6/08	W ATH	A	
Copper, Total	0.043	mg/L	EPA 200.7	8/6/08	W ATH	A	
Iron, Total	18	mg/L	EPA 200.7	8/6/08	W ATH	A	
Lead, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	
Manganese, Total	1.0	mg/L	EPA 200.7	8/6/08	W ATH	A	
Mercury, Total	< 0.001	mg/L	EPA 245.1	7/31/08	W CM	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	N	
Nickel, Total	0.12	mg/L	EPA 200.7	8/6/08	W ATH	A	
Selenium, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	A	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

005		Site: Stage IV Combined Leachate			Date Sampled: 7/24/08		Time: 9:00	
Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.	
BOD-5day	4700	mg/L	EPA 405.1	7/25/08 12:20	W SAL	A		
Chloride	1200	mg/L	EPA 300.0	7/29/08	W KMB	A		
COD	7,700	mg/L	Hach 8000	7/31/08	N CAL	A		
TKN	200	mg/L	EPA 351.2	8/12/08	W KJS	N		
Solids, Total Suspended	490	mg/L	EPA 160.2	7/30/08	W KJS	A		
Sulfate	260	mg/L	EPA 300.0	7/29/08	W KMB	A		
Arsenic, Total	0.043	mg/L	SM18 3113B	8/12/08	W MGT	A		
Cadmium, Total	0.005	mg/L	EPA 200.7	8/6/08	W ATH	A		
Chromium, Total	0.047	mg/L	EPA 200.7	8/6/08	W ATH	A		
Copper, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	A		
Iron, Total	160	mg/L	EPA 200.7	8/6/08	W ATH	A		
Lead, Total	0.002	mg/L	SM18 3113B	7/31/08	W MGT	A		
Manganese, Total	42	mg/L	EPA 200.7	8/6/08	W ATH	A		
Mercury, Total	< 0.001	mg/L	EPA 245.1	7/31/08	W CM	A		
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	N		
Nickel, Total	0.080	mg/L	EPA 200.7	8/6/08	W ATH	A		
Selenium, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A		
Zinc, Total	0.24	mg/L	EPA 200.7	8/6/08	W ATH	A		

006		Site: Stage III Primary Leachate			Date Sampled: 7/24/08		Time: 9:10	
Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.	
BOD-5day	< 300	mg/L	EPA 405.1	7/25/08 12:25	W SAL	A		
Chloride	3700	mg/L	EPA 300.0	7/29/08	W KMB	A		
COD	3,900	mg/L	Hach 8000	7/31/08	N CAL	A		
TKN	850	mg/L	EPA 351.2	8/12/08	W KJS	N		
Solids, Total Suspended	17	mg/L	EPA 160.2	7/30/08	W KJS	A		
Sulfate	88	mg/L	EPA 300.0	7/29/08	W KMB	A		
Arsenic, Total	0.243	mg/L	SM18 3113B	8/12/08	W MGT	A		
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/6/08	W ATH	A		
Chromium, Total	0.21	mg/L	EPA 200.7	8/6/08	W ATH	A		
Copper, Total	0.44	mg/L	EPA 200.7	8/6/08	W ATH	A		
Iron, Total	3.6	mg/L	EPA 200.7	8/6/08	W ATH	A		
Lead, Total	0.009	mg/L	SM18 3113B	8/11/08	W MGT	A		
Manganese, Total	0.58	mg/L	EPA 200.7	8/6/08	W ATH	A		
Mercury, Total	< 0.001	mg/L	EPA 245.1	7/31/08	W CM	A		
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	N		
Nickel, Total	0.12	mg/L	EPA 200.7	8/6/08	W ATH	A		
Selenium, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A		
Zinc, Total	0.062	mg/L	EPA 200.7	8/6/08	W ATH	A		

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

007	Site: Consolidation Tank Leachate			Date Sampled: 7/24/08		Time: 9:25	
Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	770	mg/L	EPA 405.1	7/25/08 12:30	W SAL	A	
Chloride	2300	mg/L	EPA 300.0	7/29/08	W KMB	A	
COD	3,200	mg/L	Hach 8000	7/31/08	N CAL	A	
TKN	430	mg/L	EPA 351.2	8/12/08	W KJS	N	
Solids, Total Suspended	170	mg/L	EPA 160.2	7/30/08	W KJS	A	
Sulfate	96	mg/L	EPA 300.0	7/29/08	W KMB	A	
Arsenic, Total	0.082	mg/L	SM18 3113B	8/7/08	W MGT	A	
Cadmium, Total	0.002	mg/L	EPA 200.7	8/6/08	W ATH	A	
Chromium, Total	0.088	mg/L	EPA 200.7	8/6/08	W ATH	A	
Copper, Total	0.053	mg/L	EPA 200.7	8/6/08	W ATH	A	
Iron, Total	42	mg/L	EPA 200.7	8/6/08	W ATH	A	
Lead, Total	< 0.001	mg/L	SM18 3113B	8/11/08	W MGT	A	
Manganese, Total	7.4	mg/L	EPA 200.7	8/6/08	W ATH	A	
Mercury, Total	< 0.001	mg/L	EPA 245.1	7/31/08	W CM	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	8/6/08	W ATH	N	
Nickel, Total	0.084	mg/L	EPA 200.7	8/6/08	W ATH	A	
Selenium, Total	< 0.002	mg/L	SM18 3113B	8/11/08	W MGT	A	M-
Zinc, Total	0.069	mg/L	EPA 200.7	8/6/08	W ATH	A	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

001 Site: Stage I Phase I Primary Leachate Date/Time Sampled: 7/24/08 8:07 Analysis Date: 7/25/08 W DAW

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	27.0	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	51.3	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	1,470	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	50.8	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,630	ug/L	U		Surr. 1 (Dibromofluoromethane)	103	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropene	< 5.0	ug/L	N		Benzene	< 5.0	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	< 5.0	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N	
Surr. 2 (Toluene d8)	102	%	A		Toluene	8.3	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	85.9	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	199	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	5.9	ug/L	N	
Surr. 3 (4-Bromofluorobenzene)	103	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	5.2	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	20.2	ug/L	U	
1,3,5-Trimethylbenzene	9.8	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	26.7	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	5.5	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	13.9	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	15.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidentified Peaks	> 10		U	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

002 Site: Stage I Phase II Primary Leachate Date/Time Sampled: 7/24/08 8:05 Analysis Date: 7/25/08 W DAW

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	99.6	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	1,430	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	1,810	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	614	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	3,070	ug/L	U		Surr. 1 (Dibromofluoromethane)	104	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropane	< 5.0	ug/L	N		Benzene	6.0	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	< 5.0	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N	
Surr. 2 (Toluene d8)	104	%	A		Toluene	107	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	91.1	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	234	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	5.1	ug/L	N	
Surr. 3 (4-Bromofluorobenzene)	101	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	< 5.0	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	< 5.0	ug/L	U	
1,3,5-Trimethylbenzene	9.9	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	25.7	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	36.8	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	12.8	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	19.6	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidentified Peaks	> 10		U	



## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

003 Site: Stage I Phase III Primary Leachate Date/Time Sampled: 7/24/08 8:02 Analysis Date: 7/25/08 W DAW

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	113	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	227	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	1,530	ug/L	N	
Methyl-t-butyl ether (MTBE)	15.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	195	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,400	ug/L	U		Surr. 1 (Dibromofluoromethane)	106	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropene	< 5.0	ug/L	N		Benzene	< 5.0	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	< 5.0	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N	
Surr. 2 (Toluene d8)	101	%	A		Toluene	15.8	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	16.1	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	34.1	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	N	
Surr. 3 (4-Bromofluorobenzene)	101	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	< 5.0	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	< 5.0	ug/L	U	
1,3,5-Trimethylbenzene	< 5.0	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	< 5.0	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	7.1	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	< 5.0	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidentified Peaks	> 10		U	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

004 Site: Stage I Phase IV Primary Leachate Date/Time Sampled: 7/24/08 8:10 Analysis Date: 7/25/08 W DAW

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	98.3	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	1,710	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	814	ug/L	N	
Methyl-t-butyl ether (MTBE)	21.8	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	2,010	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,970	ug/L	U		Surr. 1 (Dibromofluoromethane)	107	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropene	< 5.0	ug/L	N		Benzene	6.5	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	< 5.0	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N	
Surr. 2 (Toluene d8)	102	%	A		Toluene	114	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	54.4	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	86.8	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	N	
Surr. 3 (4-Bromofluorobenzene)	102	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	< 5.0	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	< 5.0	ug/L	U	
1,3,5-Trimethylbenzene	< 5.0	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	8.3	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	< 5.0	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	< 5.0	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidentified Peaks	> 10		U	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

005 Site: Stage IV Combined Leachate Date/Time Sampled: 7/24/08 9:00 Analysis Date: 7/25/08 W DAW

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	57.3	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	6,470	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	38.0	ug/L	A		t-Butanol	565	ug/L	N	
Methyl-t-butyl ether (MTBE)	10.5	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	8,380	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	940	ug/L	U		Surr. 1 (Dibromofluoromethane)	104	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropene	< 5.0	ug/L	N		Benzene	< 5.0	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	5.1	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	135	ug/L	N	
Surr. 2 (Toluene d8)	101	%	A		Toluene	118	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethane	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	47.4	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	95.0	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	N	
Surr. 3 (4-Bromofluorobenzene)	100	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	< 5.0	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	< 5.0	ug/L	U	
1,3,5-Trimethylbenzene	6.4	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	17.1	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	10.1	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	6.2	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidenti. 1 Peaks	> 10		U	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

006 Site: Stage III Primary Leachate Date/Time Sampled: 7/24/08 9:10 Analysis Date: 7/25/08 W DAW

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	38.5	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	92.5	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	< 25.0	ug/L	A		t-Butanoi	1,730	ug/L	N	
Methyl-t-butyl ether (MTBE)	14.9	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	< 50.0	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,750	ug/L	U		Surr. 1 (Dibromofluoromethane)	105	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropene	< 5.0	ug/L	N		Benzene	5.7	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	< 5.0	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N	
Surr. 2 (Toluene d8)	100	%	A		Toluene	53.7	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	35.9	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	84.3	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	N	
Surr. 3 (4-Bromofluorobenzene)	98	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	< 5.0	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	< 5.0	ug/L	U	
1,3,5-Trimethylbenzene	< 5.0	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	11.3	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	10.6	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	7.7	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	13.6	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidentified Peaks	> 10		U	

## Laboratory Report

CLIENT: Casella Waste Management Inc.  
 PROJECT: NCES LF Quarterly Leachate  
 REPORT DATE: 8/16/2008

WORK ORDER: 0807-10400  
 DATE RECEIVED: 07/25/2008

TEST METHOD: EPA 8260B

007 Site: Consolidation Tank Leachate Date/Time Sampled: 7/24/08 9:25 Analysis Date: 7/25/08 W DAW

Parameter	Result	Unit	Nclac	Qual	Parameter	Result	Unit	Nclac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	A	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	N	
Diethyl ether	39.5	ug/L	U		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	4,510	ug/L	N		Carbon disulfide	< 25.0	ug/L	N	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	1,250	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	4,570	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,350	ug/L	U		Surr. 1 (Dibromofluoromethane)	104	%	A	
1,1,1-Trichloroethane	< 5.0	ug/L	A		Carbon tetrachloride	< 5.0	ug/L	A	
1,1-Dichloropropene	< 5.0	ug/L	N		Benzene	< 5.0	ug/L	A	
t-Amylmethyl ether (TAME)	< 10.0	ug/L	N		1,2-Dichloroethane	< 5.0	ug/L	A	
Trichloroethene	< 5.0	ug/L	A		1,2-Dichloropropane	< 10.0	ug/L	A	
Dibromomethane	< 10.0	ug/L	N		Bromodichloromethane	< 2.5	ug/L	A	
cis-1,3-Dichloropropene	< 5.0	ug/L	A		4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N	
Surr. 2 (Toluene d8)	100	%	A		Toluene	39.8	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	N		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	27.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	N	
Xylenes, Total	62.3	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	N	
Surr. 3 (4-Bromofluorobenzene)	97	%	A		1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A	
Bromobenzene	< 5.0	ug/L	U		n-Propylbenzene	< 5.0	ug/L	A	
1,2,3-Trichloropropane	< 10.0	ug/L	N		2-Chlorotoluene	< 5.0	ug/L	U	
1,3,5-Trimethylbenzene	< 5.0	ug/L	A		4-Chlorotoluene	< 5.0	ug/L	U	
t-Butylbenzene	< 5.0	ug/L	A		1,2,4-Trimethylbenzene	8.8	ug/L	A	
s-Butylbenzene	< 5.0	ug/L	A		4-Isopropyltoluene	6.7	ug/L	A	
1,3-Dichlorobenzene	< 5.0	ug/L	A		1,4-Dichlorobenzene	5.5	ug/L	A	
n-Butylbenzene	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 5.0	ug/L	A	
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	N		1,2,4-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Unidentified Peaks	> 10		U	

## Laboratory Report

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CLIENT: Casella Waste Management Inc.  
PROJECT: NCES LF Quarterly Leachate  
REPORT DATE: 8/16/2008

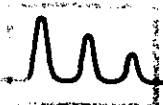
WORK ORDER: 0807-10400  
DATE RECEIVED: 07/25/2008

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### Report Summary of Qualifiers and Notes

P2: The sample was not preserved to a pH < 2.

M - : The laboratory fortified matrix (LFM) analysis indicates a potential negative bias in the reported value.



# eastern analytical

Paul Rydel  
Sanborn, Head & Associates, Inc. (NH)  
20 Foundry Street  
Concord, NH 03301



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 72940  
Client Identification: NCES Landfill | 1003.06  
Date Received: 9/12/2008

Dear Mr. Rydel :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. (EAI) certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at [www.eailabs.com](http://www.eailabs.com) for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply throughout all EAI reports:

- Solid samples are reported on a dry weight basis, unless otherwise noted
- <: "less than" followed by the detection limit
- TNR: Testing Not Requested
- ND: None Detected, no established detection limit
- RL: Reporting Limits
- %R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

### Analytical Deviation & QA/QC Documentation:

Quality Control Samples associated with this project are included in this report. At a minimum, a Method Blank and Laboratory Control Sample (LCS) are reported. Matrix Spikes and Duplicates are reported where applicable. Deviations are narrated on the QC pages.

If you have any questions regarding the results contained within, please feel free to directly contact me, or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw  
Lorraine Olashaw, Lab Director

9.26.08  
Date

17  
# of pages (excluding cover letter)



## SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 72940

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill | 1003.06

Temperature upon receipt (°C): 3

Received on ice or cold packs (Yes/No): Y

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
72940.01	Stage I Phase I Secondary Leachate	9/12/08	9/11/08	aqueous		Adheres to Sample Acceptance Policy
72940.02	Stage I Phase II Secondary Leachate	9/12/08	9/11/08	aqueous		Adheres to Sample Acceptance Policy
72940.03	Stage I Phase III Secondary Leachate	9/12/08	9/11/08	aqueous		Adheres to Sample Acceptance Policy
72940.04	Stage I Phase IV Secondary Leachate	9/12/08	9/11/08	aqueous		Adheres to Sample Acceptance Policy
72940.05	Stage III Secondary Leachate	9/12/08	9/11/08	aqueous		Adheres to Sample Acceptance Policy
72940.06	Stage IV Secondary Leachate	9/12/08	9/11/08	aqueous		Adheres to Sample Acceptance Policy
72940.07	Trip Blank	9/12/08	9/2/08	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill | 1003.06

Sample ID:	Stage I Phase I Secondary Leachate	Stage I Phase II Secondary Leachate	Stage I Phase III Secondary	Stage I Phase IV Secondary Leachate	Stage III Secondary Leachate	Stage IV Secondary Leachate	Trip Blank
Lab Sample ID:	72940.01	72940.02	72940.03	72940.04	72940.05	72940.06	72940.07
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/11/08	9/11/08	9/11/08	9/11/08	9/11/08	9/11/08	9/2/08
Date Received:	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/17/08	9/18/08	9/18/08	9/18/08	9/22/08	9/18/08	9/17/08
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	10	1	10	1	2	2	1
Dichlorodifluoromethane	< 50	< 5	< 50	< 5	< 10	< 10	< 5
Chloromethane	< 20	< 2	< 20	< 2	< 4	< 4	< 2
Vinyl chloride	< 20	< 2	< 20	< 2	5	5	< 2
Bromomethane	< 20	< 2	< 20	< 2	< 4	< 4	< 2
Chloroethane	< 50	< 5	< 50	< 5	< 10	< 10	< 5
Trichlorofluoromethane	< 50	< 5	< 50	< 5	< 10	< 10	< 5
Diethyl Ether	< 50	73	180	57	30	30	< 5
Acetone	< 100	30	100	< 10	< 20	130	< 10
1,1-Dichloroethene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
tert-Butyl Alcohol (TBA)	1100	360	500	< 30	2700	1900	< 30
Methylene chloride	< 50	< 5	< 50	< 5	< 10	10	< 5
Carbon disulfide	< 20	< 5	< 20	< 5	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 10	7	20	15	7	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 50	< 5	< 50	< 5	< 10	< 10	< 5
Isopropyl ether(DIPE)	< 50	< 5	< 50	< 5	< 10	< 10	< 5
tert-amyl methyl ether(TAME)	< 50	< 5	< 50	< 5	< 10	< 10	< 5
trans-1,2-Dichloroethene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,1-Dichloroethane	< 10	< 2	< 10	7	3	< 2	< 2
2,2-Dichloropropane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 10	< 2	< 10	< 2	2	3	< 2
2-Butanone(MEK)	< 100	< 10	< 100	< 10	< 20	50	< 10
Bromochloromethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Tetrahydrofuran(THF)	1400	300	1400	< 10	210	320	< 10
Chloroform	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Carbon tetrachloride	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,1-Dichloropropene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Benzene	< 10	2	< 10	2	8	5	< 1
1,2-Dichloroethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Trichloroethene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,2-Dichloropropane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Dibromomethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Bromodichloromethane	< 5	< 0.5	< 5	< 0.5	< 1	< 1	< 0.5
4-Methyl-2-pentanone(MIBK)	< 100	< 10	< 100	< 10	< 20	< 20	< 10
cis-1,3-Dichloropropene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Toluene	< 10	4	60	< 1	5	24	< 1
trans-1,3-Dichloropropene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
2-Hexanone	< 100	< 10	< 100	< 10	< 20	< 20	< 10
Tetrachloroethene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,3-Dichloropropane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Dibromochloromethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,2-Dibromoethane(EDB)	< 20	< 2	< 20	< 2	< 4	< 4	< 2
Chlorobenzene	< 10	< 2	< 10	< 2	2	2	< 2
1,1,1,2-Tetrachloroethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
Ethylbenzene	110	9	150	< 1	86	45	< 1

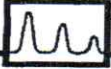


# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill | 1003.06

Sample ID:	Stage I Phase I Secondary Leachate	Stage I Phase II Secondary Leachate	Stage I Phase III Secondary Leachate	Stage I Phase IV Secondary Leachate	Stage III Secondary Leachate	Stage IV Secondary Leachate	Trip Blank
Lab Sample ID:	72940.01	72940.02	72940.03	72940.04	72940.05	72940.06	72940.07
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/11/08	9/11/08	9/11/08	9/11/08	9/11/08	9/11/08	9/2/08
Date Received:	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	9/17/08	9/18/08	9/18/08	9/18/08	9/22/08	9/18/08	9/17/08
Analyst:	VG	VG	VG	VG	VG	VG	VG
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	10	1	10	1	2	2	1
mp-Xylene	60	8	110	< 1	13	43	< 1
o-Xylene	30	9	40	< 1	20	24	< 1
Styrene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
Bromoform	< 20	< 2	< 20	< 2	< 4	< 4	< 2
IsoPropylbenzene	< 10	< 1	< 10	< 1	4	3	< 1
Bromobenzene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,2,3-Trichloropropane	< 10	< 2	< 10	< 2	< 2	< 2	< 2
n-Propylbenzene	< 10	< 1	< 10	< 1	3	< 2	< 1
2-Chlorotoluene	20	< 2	< 10	< 2	< 2	< 2	< 2
4-Chlorotoluene	< 10	< 2	< 10	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene	< 10	< 1	< 10	< 1	5	5	< 1
tert-Butylbenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
1,2,4-Trimethylbenzene	30	1	10	< 1	6	12	< 1
sec-Butylbenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
1,3-Dichlorobenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
p-Isopropyltoluene	< 10	< 1	30	< 1	2	7	< 1
1,4-Dichlorobenzene	20	4	< 10	< 1	8	14	< 1
1,2-Dichlorobenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
n-Butylbenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
1,2-Dibromo-3-chloropropane	< 20	< 2	< 20	< 2	< 4	< 4	< 2
1,3,5-Trichlorobenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
1,2,4-Trichlorobenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
Hexachlorobutadiene	< 5	< 0.5	< 5	< 0.5	< 1	< 1	< 0.5
Naphthalene	< 50	< 5	< 50	< 5	< 10	< 10	< 5
1,2,3-Trichlorobenzene	< 10	< 1	< 10	< 1	< 2	< 2	< 1
4-Bromofluorobenzene (surr)	93 %R	94 %R	93 %R	92 %R	97 %R	96 %R	93 %R
1,2-Dichlorobenzene-d4 (surr)	101 %R	99 %R	100 %R	103 %R	100 %R	100 %R	102 %R
Toluene-d8 (surr)	96 %R	97 %R	95 %R	95 %R	97 %R	93 %R	96 %R



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		
				Units	Method	
Dichlorodifluoromethane	< 5			ug/l	9/17/08	8260B
Chloromethane	< 2			ug/l	9/17/08	8260B
Vinyl chloride	< 2			ug/l	9/17/08	8260B
Bromomethane	< 2			ug/l	9/17/08	8260B
Chloroethane	< 5			ug/l	9/17/08	8260B
Trichlorofluoromethane	< 5			ug/l	9/17/08	8260B
Diethyl Ether	< 5			ug/l	9/17/08	8260B
Acetone	< 10			ug/l	9/17/08	8260B
1,1-Dichloroethene	< 1	25 (125 %R)	24 (119 %R) (5 RPD)	ug/l	9/17/08	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	9/17/08	8260B
Methylene chloride	< 5			ug/l	9/17/08	8260B
Carbon disulfide	< 5			ug/l	9/17/08	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	9/17/08	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	9/17/08	8260B
Isopropyl ether(DIPE)	< 5			ug/l	9/17/08	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	9/17/08	8260B
trans-1,2-Dichloroethene	< 2			ug/l	9/17/08	8260B
1,1-Dichloroethane	< 2			ug/l	9/17/08	8260B
2,2-Dichloropropane	< 2			ug/l	9/17/08	8260B
cis-1,2-Dichloroethene	< 2			ug/l	9/17/08	8260B
2-Butanone(MEK)	< 10			ug/l	9/17/08	8260B
Bromochloromethane	< 2			ug/l	9/17/08	8260B
Tetrahydrofuran(THF)	< 10			ug/l	9/17/08	8260B
Chloroform	< 2			ug/l	9/17/08	8260B
1,1,1-Trichloroethane	< 2			ug/l	9/17/08	8260B
Carbon tetrachloride	< 2			ug/l	9/17/08	8260B
1,1-Dichloropropene	< 2			ug/l	9/17/08	8260B
Benzene	< 1	22 (112 %R)	22 (110 %R) (2 RPD)	ug/l	9/17/08	8260B
1,2-Dichloroethane	< 2			ug/l	9/17/08	8260B
Trichloroethene	< 2	22 (112 %R)	22 (111 %R) (1 RPD)	ug/l	9/17/08	8260B
1,2-Dichloropropane	< 2			ug/l	9/17/08	8260B
Dibromomethane	< 2			ug/l	9/17/08	8260B
Bromodichloromethane	< 0.5			ug/l	9/17/08	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	9/17/08	8260B
cis-1,3-Dichloropropene	< 2			ug/l	9/17/08	8260B
Toluene	< 1	22 (110 %R)	22 (108 %R) (2 RPD)	ug/l	9/17/08	8260B
trans-1,3-Dichloropropene	< 2			ug/l	9/17/08	8260B
1,1,2-Trichloroethane	< 2			ug/l	9/17/08	8260B
2-Hexanone	< 10			ug/l	9/17/08	8260B
Tetrachloroethene	< 2			ug/l	9/17/08	8260B
1,3-Dichloropropane	< 2			ug/l	9/17/08	8260B
Dibromochloromethane	< 2			ug/l	9/17/08	8260B
1,2-Dibromoethane(EDB)	< 2			ug/l	9/17/08	8260B
Chlorobenzene	< 2	23 (117 %R)	24 (118 %R) (1 RPD)	ug/l	9/17/08	8260B



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		
				Units	Method	
1,1,1,2-Tetrachloroethane	< 2			ug/l	9/17/08	8260B
Ethylbenzene	< 1			ug/l	9/17/08	8260B
mp-Xylene	< 1			ug/l	9/17/08	8260B
o-Xylene	< 1			ug/l	9/17/08	8260B
Styrene	< 1			ug/l	9/17/08	8260B
Bromoform	< 2			ug/l	9/17/08	8260B
IsoPropylbenzene	< 1			ug/l	9/17/08	8260B
Bromobenzene	< 2			ug/l	9/17/08	8260B
1,1,2,2-Tetrachloroethane	< 2			ug/l	9/17/08	8260B
1,2,3-Trichloropropane	< 2			ug/l	9/17/08	8260B
n-Propylbenzene	< 1			ug/l	9/17/08	8260B
2-Chlorotoluene	< 2			ug/l	9/17/08	8260B
4-Chlorotoluene	< 2			ug/l	9/17/08	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	9/17/08	8260B
tert-Butylbenzene	< 1			ug/l	9/17/08	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	9/17/08	8260B
sec-Butylbenzene	< 1			ug/l	9/17/08	8260B
1,3-Dichlorobenzene	< 1			ug/l	9/17/08	8260B
p-Isopropyltoluene	< 1			ug/l	9/17/08	8260B
1,4-Dichlorobenzene	< 1			ug/l	9/17/08	8260B
1,2-Dichlorobenzene	< 1			ug/l	9/17/08	8260B
n-Butylbenzene	< 1			ug/l	9/17/08	8260B
1,2-Dibromo-3-chloropropane	< 2			ug/l	9/17/08	8260B
1,3,5-Trichlorobenzene	< 1			ug/l	9/17/08	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	9/17/08	8260B
Hexachlorobutadiene	< 0.5			ug/l	9/17/08	8260B
Naphthalene	< 5			ug/l	9/17/08	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	9/17/08	8260B
4-Bromofluorobenzene (surr)	91 %R	98 %R	97 %R	% Rec	9/17/08	8260B
1,2-Dichlorobenzene-d4 (surr)	100 %R	99 %R	99 %R	% Rec	9/17/08	8260B
Toluene-d8 (surr)	95 %R	97 %R	96 %R	% Rec	9/17/08	8260B



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		Method
				Units		
Dichlorodifluoromethane	< 5			ug/l	9/18/08	8260B
Chloromethane	< 2			ug/l	9/18/08	8260B
Vinyl chloride	< 2			ug/l	9/18/08	8260B
Bromomethane	< 2			ug/l	9/18/08	8260B
Chloroethane	< 5			ug/l	9/18/08	8260B
Trichlorofluoromethane	< 5			ug/l	9/18/08	8260B
Diethyl Ether	< 5			ug/l	9/18/08	8260B
Acetone	< 10			ug/l	9/18/08	8260B
1,1-Dichloroethene	< 1	26 (129 %R)	24 (121 %R) (6 RPD)	ug/l	9/18/08	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	9/18/08	8260B
Methylene chloride	< 5			ug/l	9/18/08	8260B
Carbon disulfide	< 5			ug/l	9/18/08	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	9/18/08	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	9/18/08	8260B
Isopropyl ether(DIPE)	< 5			ug/l	9/18/08	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	9/18/08	8260B
trans-1,2-Dichloroethene	< 2			ug/l	9/18/08	8260B
1,1-Dichloroethane	< 2			ug/l	9/18/08	8260B
2,2-Dichloropropane	< 2			ug/l	9/18/08	8260B
cis-1,2-Dichloroethene	< 2			ug/l	9/18/08	8260B
2-Butanone(MEK)	< 10			ug/l	9/18/08	8260B
Bromochloromethane	< 2			ug/l	9/18/08	8260B
Tetrahydrofuran(THF)	< 10			ug/l	9/18/08	8260B
Chloroform	< 2			ug/l	9/18/08	8260B
1,1,1-Trichloroethane	< 2			ug/l	9/18/08	8260B
Carbon tetrachloride	< 2			ug/l	9/18/08	8260B
1,1-Dichloropropene	< 2			ug/l	9/18/08	8260B
Benzene	< 1	23 (117 %R)	22 (110 %R) (6 RPD)	ug/l	9/18/08	8260B
1,2-Dichloroethane	< 2			ug/l	9/18/08	8260B
Trichloroethene	< 2	24 (118 %R)	22 (111 %R) (6 RPD)	ug/l	9/18/08	8260B
1,2-Dichloropropane	< 2			ug/l	9/18/08	8260B
Dibromomethane	< 2			ug/l	9/18/08	8260B
Bromodichloromethane	< 0.5			ug/l	9/18/08	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	9/18/08	8260B
cis-1,3-Dichloropropene	< 2			ug/l	9/18/08	8260B
Toluene	< 1	23 (113 %R)	22 (109 %R) (4 RPD)	ug/l	9/18/08	8260B
trans-1,3-Dichloropropene	< 2			ug/l	9/18/08	8260B
1,1,2-Trichloroethane	< 2			ug/l	9/18/08	8260B
2-Hexanone	< 10			ug/l	9/18/08	8260B
Tetrachloroethene	< 2			ug/l	9/18/08	8260B
1,3-Dichloropropane	< 2			ug/l	9/18/08	8260B
Dibromochloromethane	< 2			ug/l	9/18/08	8260B
1,2-Dibromoethane(EDB)	< 2			ug/l	9/18/08	8260B
Chlorobenzene	< 2	25 (123 %R)	24 (120 %R) (2 RPD)	ug/l	9/18/08	8260B



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		Method
				Units		
1,1,1,2-Tetrachloroethane	< 2			ug/l	9/18/08	8260B
Ethylbenzene	< 1			ug/l	9/18/08	8260B
mp-Xylene	< 1			ug/l	9/18/08	8260B
o-Xylene	< 1			ug/l	9/18/08	8260B
Styrene	< 1			ug/l	9/18/08	8260B
Bromoform	< 2			ug/l	9/18/08	8260B
IsoPropylbenzene	< 1			ug/l	9/18/08	8260B
Bromobenzene	< 2			ug/l	9/18/08	8260B
1,1,1,2-Tetrachloroethane	< 2			ug/l	9/18/08	8260B
1,2,3-Trichloropropane	< 2			ug/l	9/18/08	8260B
n-Propylbenzene	< 1			ug/l	9/18/08	8260B
2-Chlorotoluene	< 2			ug/l	9/18/08	8260B
4-Chlorotoluene	< 2			ug/l	9/18/08	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	9/18/08	8260B
tert-Butylbenzene	< 1			ug/l	9/18/08	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	9/18/08	8260B
sec-Butylbenzene	< 1			ug/l	9/18/08	8260B
1,3-Dichlorobenzene	< 1			ug/l	9/18/08	8260B
p-Isopropyltoluene	< 1			ug/l	9/18/08	8260B
1,4-Dichlorobenzene	< 1			ug/l	9/18/08	8260B
1,2-Dichlorobenzene	< 1			ug/l	9/18/08	8260B
n-Butylbenzene	< 1			ug/l	9/18/08	8260B
1,2-Dibromo-3-chloropropane	< 2			ug/l	9/18/08	8260B
1,3,5-Trichlorobenzene	< 1			ug/l	9/18/08	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	9/18/08	8260B
Hexachlorobutadiene	< 0.5			ug/l	9/18/08	8260B
Naphthalene	< 5			ug/l	9/18/08	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	9/18/08	8260B
4-Bromofluorobenzene (surr)	91 %R	97 %R	99 %R	% Rec	9/18/08	8260B
1,2-Dichlorobenzene-d4 (surr)	103 %R	101 %R	101 %R	% Rec	9/18/08	8260B
Toluene-d8 (surr)	96 %R	98 %R	96 %R	% Rec	9/18/08	8260B



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
Dichlorodifluoromethane	< 5			ug/l	9/23/08	8260B
Chloromethane	< 2			ug/l	9/23/08	8260B
Vinyl chloride	< 2			ug/l	9/23/08	8260B
Bromomethane	< 2			ug/l	9/23/08	8260B
Chloroethane	< 5			ug/l	9/23/08	8260B
Trichlorofluoromethane	< 5			ug/l	9/23/08	8260B
Diethyl Ether	< 5			ug/l	9/23/08	8260B
Acetone	< 10			ug/l	9/23/08	8260B
1,1-Dichloroethene	< 1	25 (123 %R)	23 (116 %R) (6 RPD)	ug/l	9/23/08	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	9/23/08	8260B
Methylene chloride	< 5			ug/l	9/23/08	8260B
Carbon disulfide	< 5			ug/l	9/23/08	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	9/23/08	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	9/23/08	8260B
Isopropyl ether(DIPE)	< 5			ug/l	9/23/08	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	9/23/08	8260B
trans-1,2-Dichloroethene	< 2			ug/l	9/23/08	8260B
1,1-Dichloroethane	< 2			ug/l	9/23/08	8260B
2,2-Dichloropropane	< 2			ug/l	9/23/08	8260B
cis-1,2-Dichloroethene	< 2			ug/l	9/23/08	8260B
2-Butanone(MEK)	< 10			ug/l	9/23/08	8260B
Bromochloromethane	< 2			ug/l	9/23/08	8260B
Tetrahydrofuran(THF)	< 10			ug/l	9/23/08	8260B
Chloroform	< 2			ug/l	9/23/08	8260B
1,1,1-Trichloroethane	< 2			ug/l	9/23/08	8260B
Carbon tetrachloride	< 2			ug/l	9/23/08	8260B
1,1-Dichloropropene	< 2			ug/l	9/23/08	8260B
Benzene	< 1	22 (110 %R)	22 (108 %R) (2 RPD)	ug/l	9/23/08	8260B
1,2-Dichloroethane	< 2			ug/l	9/23/08	8260B
Trichloroethene	< 2	22 (110 %R)	21 (106 %R) (4 RPD)	ug/l	9/23/08	8260B
1,2-Dichloropropane	< 2			ug/l	9/23/08	8260B
Dibromomethane	< 2			ug/l	9/23/08	8260B
Bromodichloromethane	< 0.5			ug/l	9/23/08	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	9/23/08	8260B
cis-1,3-Dichloropropene	< 2			ug/l	9/23/08	8260B
Toluene	< 1	22 (110 %R)	21 (106 %R) (4 RPD)	ug/l	9/23/08	8260B
trans-1,3-Dichloropropene	< 2			ug/l	9/23/08	8260B
1,1,2-Trichloroethane	< 2			ug/l	9/23/08	8260B
2-Hexanone	< 10			ug/l	9/23/08	8260B
Tetrachloroethene	< 2			ug/l	9/23/08	8260B
1,3-Dichloropropane	< 2			ug/l	9/23/08	8260B
Dibromochloromethane	< 2			ug/l	9/23/08	8260B
1,2-Dibromoethane(EDB)	< 2			ug/l	9/23/08	8260B
Chlorobenzene	< 2	24 (119 %R)	23 (116 %R) (3 RPD)	ug/l	9/23/08	8260B



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		
				Units	Method	
1,1,1,2-Tetrachloroethane	< 2			ug/l	9/23/08	8260B
Ethylbenzene	< 1			ug/l	9/23/08	8260B
mp-Xylene	< 1			ug/l	9/23/08	8260B
o-Xylene	< 1			ug/l	9/23/08	8260B
Styrene	< 1			ug/l	9/23/08	8260B
Bromoform	< 2			ug/l	9/23/08	8260B
IsoPropylbenzene	< 1			ug/l	9/23/08	8260B
Bromobenzene	< 2			ug/l	9/23/08	8260B
1,1,1,2-Tetrachloroethane	< 2			ug/l	9/23/08	8260B
1,2,3-Trichloropropane	< 2			ug/l	9/23/08	8260B
n-Propylbenzene	< 1			ug/l	9/23/08	8260B
2-Chlorotoluene	< 2			ug/l	9/23/08	8260B
4-Chlorotoluene	< 2			ug/l	9/23/08	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	9/23/08	8260B
tert-Butylbenzene	< 1			ug/l	9/23/08	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	9/23/08	8260B
sec-Butylbenzene	< 1			ug/l	9/23/08	8260B
1,3-Dichlorobenzene	< 1			ug/l	9/23/08	8260B
p-Isopropyltoluene	< 1			ug/l	9/23/08	8260B
1,4-Dichlorobenzene	< 1			ug/l	9/23/08	8260B
1,2-Dichlorobenzene	< 1			ug/l	9/23/08	8260B
n-Butylbenzene	< 1			ug/l	9/23/08	8260B
1,2-Dibromo-3-chloropropane	< 2			ug/l	9/23/08	8260B
1,3,5-Trichlorobenzene	< 1			ug/l	9/23/08	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	9/23/08	8260B
Hexachlorobutadiene	< 0.5			ug/l	9/23/08	8260B
Naphthalene	< 5			ug/l	9/23/08	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	9/23/08	8260B
4-Bromofluorobenzene (surr)	87 %R	96 %R	96 %R	% Rec	9/23/08	8260B
1,2-Dichlorobenzene-d4 (surr)	102 %R	101 %R	102 %R	% Rec	9/23/08	8260B
Toluene-d8 (surr)	96 %R	99 %R	99 %R	% Rec	9/23/08	8260B





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: NCES Landfill | 1003.06

## Volatile Organic Compounds QC limits and Narrative Summary

Matrix:	Solid	RPD	Aqueous	RPD
Units:	%	%	%	%
EPA Method	8260B		8260B	
<b>Surrogate Recovery</b>				
4-Bromofluorobenzene	74-121		86-115	
1,2-Dichlorobenzene-D4	80-120		80-120	
Toluene-d8	70-130		70-130	
<b>Matrix Spike Recovery</b>				
1,1-Dichloroethene	59-172	30	61-145	20
Trichloroethene	62-137	30	71-120	20
Benzene	66-142	30	76-127	20
Toluene	59-139	30	76-125	20
Chlorobenzene	60-133	30	75-130	20

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.



# LABORATORY REPORT

**Eastern Analytical, Inc. ID#: 72940**

**Client: Sanborn, Head & Associates, Inc. Client Designation: NCES Landfill | 1003.06 (NH)**

Sample ID:	Stage I Phase I Secondary Leachate	Stage I Phase II Secondary Leachate	Stage I Phase III Secondary Leachate	Stage I Phase IV Secondary Leachate		Analysis			
Lab Sample ID:	72940.01	72940.02	72940.03	72940.04	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/11/08	9/11/08	9/11/08	9/11/08					
Date Received:	9/12/08	9/12/08	9/12/08	9/12/08					
Bromide	6.9	0.3	3.2	0.2	mg/L	09/22/08	17:53	300.0	KL

Sample ID:	Stage III Secondary Leachate	Stage IV Secondary Leachate		Analysis			
Lab Sample ID:	72940.05	72940.06	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous					
Date Sampled:	9/11/08	9/11/08					
Date Received:	9/12/08	9/12/08					
Bromide	5.5	3.0	mg/L	09/22/08	16:50	300.0	KL



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		Method
				Units		
Bromide	< 0.1	2.0 (102 %R)	1.8 (91 %R) (11 RPD)	mg/L	9/23/08	300.0

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	Matrix Spike Duplicate
Bromide	72940.05	5.5	7.5 (104 %R)	NA



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Client: Sanborn, Head & Associates, Inc. Client Designation: NCES Landfill | 1003.06

### Wet Chemistry QA/QC and Narrative Report

QA/QC: Matrix: Units:	LCS Aqueous % Recovery	MS/MSD Aqueous % Recovery	Duplicates Aqueous RPD	Method
Fluoride	90-110	85-120	20	EPA 300.0
Chloride	90-110	90-110	20	EPA 300.0
Nitrate	90-110	90-110	20	EPA 300.0
Sulfate	90-110	89-120	20	EPA 300.0
Bromide	90-110	80-120	20	EPA 300.0
Chloride	90-110	80-120	20	EPA 325.2/SM4500CIE
Nitrite	90-110	80-120	20	EPA 353.2
Nitrate	90-110	80-120	20	EPA 353.2
Alkalinity, Total	90-110	80-120	20	EPA 310.1/SM2320B
Alkalinity (all forms)	90-110	80-120	20	SM2320B
Ortho Phosphate	90-110	80-120	20	EPA 365.3
Total Phosphorus	85-115	80-120	20	EPA 365.3
Ammonia	90-110	80-120	20	EPA 350.3/SM4500NH3D
TKN	90-110	80-120	20	EPA 351.4/SM4500NorgC/NH3D
Cyanide, Total	85-115	80-120	20	EPA 335.2/SM4500CN-E
Cyanide, Weak & Dissociable	85-115	80-120	20	SM 4500CN-I
BOD	84-115	75-125	20	EPA 405.1/SM5210B
CBOD	84-115	75-125	20	SM 5210B
COD	85-115	80-120	20	HACH 8000
TOC/DOC	90-110	80-120	20	SM5310C
Oil & Grease	78-114	78-114	18	EPA 1664A
Total Petroleum Hydrocarbons	64-132	64-132	34	EPA 1664A
Phenols, Total	85-115	80-120	20	EPA 420.1
MBAS	80-120	80-120	20	EPA 425.1
Specific Conductance	90-110	NA	20	EPA 120.1/SM2510B
pH	5.93-6.06 SU	NA	20	EPA 150.1/SM4500H+B
pH	7.81-8.12 SU	NA	20	EPA 150.1SM4500H+B
Solids, Total	90-110*	NA	20	EPA 160.3/SM2540G
Solids, Suspended	90-110*	NA	20	EPA 160.2/SM2540D
Solids, Dissolved	90-110*	NA	20	EPA 160.1/SM2540C
Sulfide	80-120	NA	20	EPA 376.2
Sulfite	80-120	NA	20	EPA 377.1
Residual Chlorine	80-120	NA	20	EPA 330.5/SM4500CI-G
Turbidity	90-110	NA	20	EPA 180.1
Ferrous Iron	90-110	80-120	20	Hach 8146

\* or manufacturer's limits

Samples were analyzed within holding times unless noted on the sample results page.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria unless otherwise stated.

Exceptions are noted on the QC results page.



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: NCES Landfill | 1003.06

Sample ID:	Stage I Phase I Secondary Leachate	Stage I Phase II Secondary Leachate	Stage I Phase III Secondary Leachate						
Lab Sample ID:	72940.01	72940.02	72940.03						
Matrix:	aqueous	aqueous	aqueous						
Date Sampled:	9/11/08	9/11/08	9/11/08						
Date Received:	9/12/08	9/12/08	9/12/08						
				Analytical Matrix	Units	Date of Analysis	Method	Analyst	
Arsenic	0.040	0.0028	0.013	AqTot	mg/L	9/17/08	200.8	DS	
Barium	0.77	0.28	0.51	AqTot	mg/L	9/17/08	200.8	DS	
Cadmium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/17/08	200.8	DS	
Chromium	0.046	0.001	0.017	AqTot	mg/L	9/17/08	200.8	DS	
Iron	26	61	63	AqTot	mg/L	9/17/08	200.8	DS	
Lead	0.002	< 0.001	< 0.001	AqTot	mg/L	9/17/08	200.8	DS	
Manganese	3.3	4.2	4.2	AqTot	mg/L	9/17/08	200.8	DS	
Mercury	0.0002	< 0.0001	0.0001	AqTot	mg/L	9/17/08	200.8	DS	
Selenium	0.017	< 0.001	0.007	AqTot	mg/L	9/17/08	200.8	DS	
Silver	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/17/08	200.8	DS	

Sample ID:	Stage I Phase IV Secondary Leachate	Stage III Secondary Leachate	Stage IV Secondary Leachate						
Lab Sample ID:	72940.04	72940.05	72940.06						
Matrix:	aqueous	aqueous	aqueous						
Date Sampled:	9/11/08	9/11/08	9/11/08						
Date Received:	9/12/08	9/12/08	9/12/08						
				Analytical Matrix	Units	Date of Analysis	Method	Analyst	
Arsenic	0.0008	0.0024	0.038	AqTot	mg/L	9/17/08	200.8	DS	
Barium	0.14	0.096	0.15	AqTot	mg/L	9/17/08	200.8	DS	
Cadmium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/17/08	200.8	DS	
Chromium	< 0.001	0.029	0.007	AqTot	mg/L	9/17/08	200.8	DS	
Iron	47	370	66	AqTot	mg/L	9/17/08	200.8	DS	
Lead	< 0.001	0.044	0.004	AqTot	mg/L	9/17/08	200.8	DS	
Manganese	10	36	23	AqTot	mg/L	9/17/08	200.8	DS	
Mercury	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/17/08	200.8	DS	
Selenium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/17/08	200.8	DS	
Silver	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/17/08	200.8	DS	



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill | 1003.06

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		Method
				Units		
Arsenic	< 0.0005	1.0 (104 %R)		mg/L	9/17/08	200.8
Barium	< 0.001	1.0 (101 %R)		mg/L	9/17/08	200.8
Cadmium	< 0.001	0.96 (96 %R)		mg/L	9/17/08	200.8
Chromium	< 0.001	0.97 (97 %R)		mg/L	9/17/08	200.8
Iron	< 0.05	11 (103 %R)		mg/L	9/17/08	200.8
Lead	< 0.001	1.0 (100 %R)		mg/L	9/17/08	200.8
Manganese	< 0.005	0.98 (98 %R)		mg/L	9/17/08	200.8
Mercury	< 0.0001	0.0011 (111 %R)		mg/L	9/17/08	200.8
Selenium	< 0.001	1.0 (101 %R)		mg/L	9/17/08	200.8
Silver	< 0.001	0.11 (111 %R)		mg/L	9/17/08	200.8

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	Matrix Spike Duplicate
Arsenic	72983.02	0.002	1.0 (105 %R)	1.1 (106 %R) (1 RPD)
Barium	72983.02	0.043	1.1 (103 %R)	1.1 (106 %R) (3 RPD)
Cadmium	72983.02	< 0.001	0.99 (99 %R)	1.0 (102 %R) (3 RPD)
Chromium	72983.02	< 0.001	0.91 (91 %R)	0.91 (91 %R) (0 RPD)
Iron	72983.02	0.08	10 (93 %R)	10 (92 %R) (1 RPD)
Lead	72983.02	< 0.001	0.97 (97 %R)	0.97 (97 %R) (0 RPD)
Manganese	72983.02	0.023	0.94 (91 %R)	0.93 (91 %R) (0 RPD)
Mercury	72983.02	< 0.0001	0.0011 (108 %R)	0.0011 (107 %R) (1 RPD)
Selenium	72983.02	< 0.001	0.96 (96 %R)	0.94 (94 %R) (2 RPD)
Silver	72983.02	< 0.001	1.0 (101 %R)	1.0 (103 %R) (2 RPD)



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 72940

Batch ID:

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: NCES Landfill | 1003.06

QA/QC:	Metals QA/QC and Narrative Report		
	LCS	MS	MSD
Matrix:	Aqueous	Aqueous	Aqueous
Units:	%	%	%
EPA Method:	200.7/200.8	200.7/200.8	200.7/200.8
Aluminum	85-115	70-130	70-130
Antimony	85-115	70-130	70-130
Arsenic	85-115	70-130	70-130
Barium	85-115	70-130	70-130
Beryllium	85-115	70-130	70-130
Boron	85-115	70-130	70-130
Cadmium	85-115	70-130	70-130
Calcium	85-115	70-130	70-130
Chromium	85-115	70-130	70-130
Cobalt	85-115	70-130	70-130
Copper	85-115	70-130	70-130
Iron	85-115	70-130	70-130
Lead	85-115	70-130	70-130
Magnesium	85-115	70-130	70-130
Manganese	85-115	70-130	70-130
Mercury	85-115	70-130	70-130
Molybdenum	85-115	70-130	70-130
Nickel	85-115	70-130	70-130
Phosphorus	85-115	70-130	70-130
Potassium	85-115	70-130	70-130
Selenium	85-115	70-130	70-130
Silicon	85-115	70-130	70-130
Silver	85-115	70-130	70-130
Sodium	85-115	70-130	70-130
Thallium	85-115	70-130	70-130
Tin	85-115	70-130	70-130
Titanium	85-115	70-130	70-130
Vanadium	85-115	70-130	70-130
Zinc	85-115	70-130	70-130

Samples were analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.

There were no exceptions in the analyses, unless noted below.

