



North Country Environmental Services, Inc.

OCT 13 2006

October 6, 2006

3 Pitkin Court  
Montpelier, Vermont 05602

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

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

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

Dear Wayne:

Attached to this correspondence please find a letter report dated September 28, 2006 prepared by Sanborn Head and Associates of Concord, NH, documenting observations of a leachate release and clean up activities for the NCES (North Country Environmental Services, Inc.) Landfill located in Bethlehem, NH.

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

Sincerely,

NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.

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

Enclosures

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



# Sanborn, Head & Associates

*Consulting Engineers & Scientists*

September 28, 2006  
File No. 1003.05

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

OCT 13 2006

Re: August 2 and 3, 2006 Leachate Releases  
North Country Environmental Services, Inc. (NCES) Landfill  
581 Trudeau Road  
Bethlehem, New Hampshire

Dear Gene:

This letter was prepared at your request to document Sanborn, Head & Associates, Inc.'s (SHA's) observations of leachate releases that occurred at the NCES site on Wednesday, August 2 and Thursday, August 3, 2006.

On August 2, 2006 at approximately 0730 hours, Eric Baron, SHA's on-site representative, observed leachate contaminated storm water from the excavation exposing the Stage II Phase II sump overflowing the temporary leachate dam, and collecting on the liner in the Stage IV Phase I cell. At NCES' request, Eric documented the release and the efforts to clean up the affected area. Refer to the attached Figure No. 1 for the approximate location of the release.

Prior to this event, as part of the Stage IV Phase I construction project, the liner installation contractor completed a temporary connection of the new secondary liner to the existing Stage II Phase II secondary liner. The temporary connection contained the contaminated water on the primary and secondary liner systems.

Eric indicated a heavy rain event occurred during the night of August 1, 2006. CCI employees were reportedly on-site operating the storm water pumps and the Stage II Phase II leachate pumps at 0500 hours. At approximately 0530 hours the Stage II Phase II secondary leachate pump circuit breaker tripped, causing the Stage II Phase II secondary sump to overflow into the Stage IV cell. Leachate contaminated storm water entered both the primary and secondary liner systems of Stage IV. CCI pumped leachate contaminated storm water into Detention Pond 4 until approximately 0730 hours when Eric Baron arrived on-site and informed CCI that the storm water was likely contaminated with leachate. Once notified of the potential contamination, CCI began pumping the contaminated storm water from Stage IV and the Stage II Phase II sump into the Stage III leachate tanks. CCI did not record the volume of water pumped into Detention Pond 4.

On August 5, 2006 CCI excavated and stockpiled approximately 270 cubic yards of sediment from the base of Detention Pond 4. The stockpiled sediment was removed from the pond on

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

Sanborn, Head & Associates, Inc.  
20 Foundry Street ■ Concord, NH 03301  
concord@sanbornhead.com ■ www.sanbornhead.com  
Phone (603) 229-1900 ■ Fax (603) 229-1919



August 8, 2006 and transported to the active portion of the landfill for disposal. It appeared that the contractor removed the soil that was affected by the leachate release.

Sean Moran compared the Stage III leachate volumes recorded by the flow meters to the volumes in the tanks to determine the volume of leachate contaminated storm water pumped from the Stage II Phase II sump excavation and the Stage IV Phase I cell to the Stage III tanks. Based on Sean's measurements, approximately 124,000 gallons of contaminated storm water was pumped into the Stage III leachate storage tanks and hauled off-site for disposal between August 4 and 7, 2006.

Eric photographed the containment and collection efforts. Refer to the attached photos of the release area.

On August 7, 2006, SHA field personnel collected analytical samples of the liquid in the Stage IV Phase I primary and secondary sumps using the leachate collection system pumps. The secondary liquid sample indicated there was 50 parts per million (ppm) of tetrahydrofuran present (likely from the newly solvent-welded PVC pipe in the side riser building), and both samples contained low levels of chloride and select heavy metals. The analytical laboratory results are attached for reference.

Since the spill occurred liquid pumped from the Stage IV Phase I cell has been pumped into the Stage III leachate storage tanks and handled as leachate for disposal. On August 15, 2006, skrim-reinforced geomembrane was installed over the Stage IV Phase I primary sand layer to isolate storm water from infiltrating into the sumps. Storm water collected from above the skrim-reinforced geomembrane has been pumped to Detention Pond 4.

On August 29, 2006 CCI began introducing potable water to the Stage IV Phase I secondary liner system at the liner termination near the Stage II Phase II sump. Potable water was introduced to the secondary liner system to attempt to flush contaminants from the secondary liner system. The potable water was obtained from the hydrant located near the northeast corner of the site. SHA personnel collected analytical samples from the water truck. The analytical sample results detected no VOC's or metals in the potable water. Laboratory results for the August 29, 2006 water truck sample are attached for reference.

CCI introduced about 10,000 gallons of potable water into the secondary liner system between August 29<sup>th</sup> and September 1, 2006. On September 1, 2006, CCI pumped the liquid from the secondary sump to provide storage capacity in anticipation of rain over the Labor Day holiday weekend. The liquid level pressure transducer in the sump indicated the liquid level was 38 inches above the transducer before the liquid was pumped out of the sump. SHA personnel collected an analytical sample from the secondary sump pump discharge pipe sample port when the liquid level was about 12 inches above the pressure transducer. Laboratory results for the secondary liquid samples collected on September 1, 2006 are attached. The results indicate low levels of toluene and select heavy metals.

CCI introduced about 15,000 gallons of potable water into the secondary liner system between September 5<sup>th</sup> and 7<sup>th</sup>. The water level rose to an elevation where it was visible in the new liner termination for the Stage II Phase II sump. The secondary sump pressure transducer indicated the liquid level was about 46 inches above the transducer. On September 7, 2006, CCI pumped

the liquid from the secondary sump. SHA personnel collected a water sample from the secondary sump pump discharge pipe sample port. Laboratory results for the secondary liquid samples collected on September 7, 2006 are attached.

Based on the analytical results and the observations of SHA personnel, the leachate overtopping into the Stage IV Phase I cell appeared to have little, if any, impact to the environment as it was largely contained in the lined cell. The exception was the limited quantity of water pumped to Detention Pond No. 4. Detention Pond No. 4 has historically been dry between rain events. Based on historic observations, water in Pond No. 4 infiltrates into the base of the pond. The water discharged to the pond by CCI likely infiltrated into the sediment in the base of the pond, which was subsequently removed by CCI and disposed in the landfill.

In a separate, but related event, on August 3, 2006, while CCI was pumping contaminated storm water from Stage IV Phase I into Stage III Tank A, the tank was filled above the invert of the newly installed flange adaptor on the western-most manway, and the liquid pushed the sewer plug out of the flange adaptor resulting in a leachate release in an excavation surrounding the manway.

Sean Moran observed the leachate spill and informed Eric. Sean indicated that approximately 1,500 gallons of liquid was vacuumed from the excavation and disposed in one of the Stage II leachate tanks to be treated as leachate. Eric observed CCI excavate approximately 20 cubic yards of soil from the excavation surrounding the manway and dispose of the soil in the landfill. It appeared that CCI removed the soil that was affected by the leachate release. Refer to the attached Figure No. 1 for the approximate location of the release.

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

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



Kelly L. Marshall  
Senior Project Engineer

KELM/JAC:kelm

Encl. Photographs  
Figure No. 1  
Analytical Test Results

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



James A. Chabot, PE  
Principal





Contaminated storm water in Phase II Stage II sump and Phase IV berm notch.



Contaminated storm water in Phase IV Stage I sump.



Contaminated storm water in Phase IV Stage I.



Contaminated storm water in Phase II Stage II sump being pumped.





**NOTES:**

1. THE BASE MAP WAS PRODUCED USING AN ELECTRONIC FILE PROVIDED TO SHA ON FEBRUARY 14, 2006 NAMED "5431XLE.DWG" CREATED BY EASTERN TOPOGRAPHICS OF WOLFBORO, NEW HAMPSHIRE FOR NORTH COUNTRY ENVIRONMENTAL SERVICES, INC. MAPPING WAS COLLECTED FROM AERIAL PHOTOGRAPHY EXPOSED ON NOVEMBER 12, 2005 AND COMPILED ON FEBRUARY 2, 2006 USING DIGITAL TERRAIN MODELING METHODS WITH KLT ATLAS SOFTWARE. ORIGINAL SCALE 1" = 40'. HORIZONTAL DATUM IS BASED ON NAD 83 (1998) SPC NH (FEET). VERTICAL DATUM IS BASED ON NAVD 88 (FEET).
2. AS-BUILT LOCATIONS OF EXISTING STAGE I LIMIT OF WASTE CONTAINMENT PROVIDED BY CASELLA CONSTRUCTION, INC.
3. THE PROPERTY LINES SHOWN WERE TAKEN FROM SHEETS 1 THROUGH 3 OF PLANS ENTITLED "BOUNDARY SURVEY PLAN FOR CASELLA WASTE SYSTEMS, INC. ON THE LANDS OF NORTH COUNTRY ENVIRONMENTAL SERVICES" PREPARED BY ALPINE LAND SURVEYING COMPANY (ALPINE) OF LITTLETON, NEW HAMPSHIRE, DATED FEBRUARY OF 2002. PLANS WERE PROVIDED ELECTRONICALLY TO SHA BY ALPINE ON MARCH 1, 2002 IN DRAFT FORMAT AND AT AN ORIGINAL SCALE OF 1" = 100'.
4. THE APPROXIMATE AREA AFFECTED SHOWN IS BASED ON PHOTOGRAPHS TAKEN ON AUGUST 2 AND 3, 2006 BY SHA PERSONNEL.

**LEGEND:**

- IRF⊙ IRON ROD FOUND
- PROPERTY LINE
- ~ TREE LINE
- B-911 EXISTING MONITORING WELL
- B-915 EXPLORATION WITH OBSERVATION WELL
- GP-5 EXISTING GAS PROBE
- - - 1390 - - - EXISTING 10-FOOT CONTOUR
- - - EXISTING 2-FOOT CONTOUR
- - - LIMIT OF WASTE CONTAINMENT
- - - PHASE LIMIT LINE
- ○ EXISTING BOULDERS
- x - x - EXISTING FENCE
- - - EDGE OF WATER
- - - EDGE OF WETLAND
- - - EDGE OF ROAD
- LDMH LEAK DETECTION MANHOLE

<p>GRAPHICAL SCALE</p> <p>100' 50' 0' 100' 200'</p> <p>SHA Sanborn, Head &amp; Associates Consulting Engineers &amp; Scientists</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN BY: KELM</td> <td style="width: 50%;">PROJECT MGR: JAC</td> </tr> <tr> <td>DESIGNED BY: JAC</td> <td>DATE: SEP 06</td> </tr> <tr> <td>CHECKED BY: JAC</td> <td></td> </tr> <tr> <td>REVIEWED BY: JAC</td> <td></td> </tr> </table>	DRAWN BY: KELM	PROJECT MGR: JAC	DESIGNED BY: JAC	DATE: SEP 06	CHECKED BY: JAC		REVIEWED BY: JAC	
DRAWN BY: KELM	PROJECT MGR: JAC								
DESIGNED BY: JAC	DATE: SEP 06								
CHECKED BY: JAC									
REVIEWED BY: JAC									
<p><b>NORTH COUNTRY ENVIRONMENTAL SERVICES, INC.</b> BETHLEHEM, NEW HAMPSHIRE</p>									
<p><b>SITE PLAN</b></p>									
<p>PROJECT NUMBER: 1003.05</p>									
<p>FIGURE NUMBER: 1</p>									

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**eastern analytical**

*professional laboratory services*

Paul Rydel

Sanborn, Head & Associates, Inc. (NH)

20 Foundry Street

Concord, NH 03301

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 56525

Client Identification: NCES Landfill | 1003.5

Date Received: 8/7/2006

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. 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 to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted

<: "less than" followed by the reporting 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).

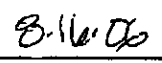
This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

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, Lab Director

  
Date

  
# of pages (excluding cover letter)





# SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 56525

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill | 1003.5

Temperature upon receipt (°C): 8.7

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

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
56525.01	Primary Leachate	8/7/06	8/7/06	aqueous		Adheres to Sample Acceptance Policy
56525.02	Secondary Leachate	8/7/06	8/7/06	aqueous		Adheres to Sample Acceptance Policy
56525.03	Trip Blank	8/7/06	7/27/06	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#: 56525

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

Client Designation: NCES Landfill | 1003.5

Sample ID:	Primary Leachate	Secondary Leachate	Trip Blank
Lab Sample ID:	56525.01	56525.02	56525.03
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/7/06	8/7/06	7/27/06
Date Received:	8/7/06	8/7/06	8/7/06
Units:	ug/l	ug/l	ug/l
Date of Analysis:	8/8/06	8/8/06	8/8/06
Analyst:	BAM	BAM	BAM
Method:	8260B	8260B	8260B
Dilution Factor:	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5
Chloromethane	< 5	< 5	< 5
Vinyl chloride	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5
Diethyl Ether	< 5	< 5	< 5
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 5	< 5	< 5
Carbon disulfide	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2
1,1-Dichloroethane	< 2	< 2	< 2
2,2-Dichloropropane	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 2	< 2	< 2
Tetrahydrofuran(THF)	< 10	50	< 10
Chloroform	< 2	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2
Carbon tetrachloride	< 2	< 2	< 2
1,1-Dichloropropene	< 2	< 2	< 2
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 2	< 2	< 2
Trichloroethene	< 2	< 2	< 2
1,2-Dichloropropane	< 2	< 2	< 2
Dibromomethane	< 2	< 2	< 2
Bromodichloromethane	< 2	< 2	< 2
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2	< 2
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2	< 2
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 2	< 2	< 2
1,3-Dichloropropane	< 2	< 2	< 2
Dibromochloromethane	< 2	< 2	< 2
1,2-Dibromoethane	< 2	< 2	< 2
Chlorobenzene	< 2	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2
Ethylbenzene	< 1	< 1	< 1





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 56525

Client: Sanborn, Head & Associates, Inc. Client Designation: NCES Landfill | 1003.5  
(NH)

Sample ID:	Primary Leachate	Secondary Leachate	Trip Blank
Lab Sample ID:	56525.01	56525.02	56525.03
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	8/7/06	8/7/06	7/27/06
Date Received:	8/7/06	8/7/06	8/7/06
Units:	ug/l	ug/l	ug/l
Date of Analysis:	8/8/06	8/8/06	8/8/06
Analyst:	BAM	BAM	BAM
Method:	8260B	8260B	8260B
Dilution Factor:	1	1	1
mp-Xylene	<1	<1	<1
o-Xylene	<1	<1	<1
Styrene	<1	<1	<1
Bromoform	<2	<2	<2
IsoPropylbenzene	<1	<1	<1
Bromobenzene	<2	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2	<2
1,2,3-Trichloropropane	<2	<2	<2
n-Propylbenzene	<1	<1	<1
2-Chlorotoluene	<2	<2	<2
4-Chlorotoluene	<2	<2	<2
1,3,5-Trimethylbenzene	<1	<1	<1
tert-Butylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
sec-Butylbenzene	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1
p-Isopropyltoluene	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1
n-Butylbenzene	<1	<1	<1
1,2-Dibromo-3-chloropropane	<2	<2	<2
1,2,4-Trichlorobenzene	<1	<1	<1
Hexachlorobutadiene	<1	<1	<1
Naphthalene	<5	<5	<5
1,2,3-Trichlorobenzene	<1	<1	<1





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 56525

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

Client Designation: NCES Landfill | 1003.5

Sample ID:	Primary Leachate	Secondary Leachate	Analysis				
			Units	Date	Time	Method Analyst	
Lab Sample ID:	56525.01	56525.02					
Matrix:	aqueous	aqueous					
Date Sampled:	8/7/06	8/7/06					
Date Received:	8/7/06	8/7/06					
Solids Suspended	34	260	mg/L	8/08/06	10:00	160.2	SEL
Chloride	6	53	mg/L	8/08/06	13:30	325.2	EAS
TKN	< 0.5	3.0	mg/L	8/09/06	15:50	351.4	KJP
COD	< 10	30	mg/L	8/08/06	11:00	H8000	LO
pH	5.7	6.5	SU	8/07/06	14:40	150.1	JL
BOD	< 6	7	mg/L	8/09/06	8:30	5210B	SEL





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 56525

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill | 1003.5

Sample ID:	Primary Leachate	Secondary Leachate				
Lab Sample ID:	56525.01	56525.02				
Matrix:	aqueous	aqueous				
Date Sampled:	8/7/06	8/7/06				
Date Received:	8/7/06	8/7/06				
				Date of		
			Units	Analysis	Method	Analyst
Arsenic	0.003	0.013	mg/L	8/8/06	200.8	DS
Cadmium	< 0.001	< 0.001	mg/L	8/8/06	200.8	DS
Chromium	< 0.001	0.010	mg/L	8/8/06	200.8	DS
Copper	0.007	0.033	mg/L	8/8/06	200.8	DS
Lead	0.004	0.014	mg/L	8/8/06	200.8	DS
Mercury	< 0.0001	< 0.0001	mg/L	8/8/06	200.8	DS
Molybdenum	< 0.001	0.011	mg/L	8/8/06	200.8	DS
Nickel	0.006	0.013	mg/L	8/8/06	200.8	DS
Selenium	< 0.001	< 0.001	mg/L	8/8/06	200.8	DS
Zinc	0.011	0.036	mg/L	8/8/06	200.8	DS









**eastern analytical**

*professional laboratory services*

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

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 56968  
Client Identification: NCES Landfill / 1003.5  
Date Received: 8/29/2006

SEP 07 2006

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*

*9-6-06*

*10*

Lorraine Olashaw, Lab Director

Date

# of pages (excluding cover letter)





# SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 56968

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Temperature upon receipt (°C): 10

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

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
56968.01	Water Truck	8/29/06	8/29/06	aqueous		Adheres to Sample Acceptance Policy
56968.02	Trip Blank	8/29/06	8/18/06	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#: 56968

Client: Sanborn, Head & Associates, Inc. Client Designation: NCES Landfill / 1003.5  
(NH)

Sample ID: Water Truck Trip Blank

Lab Sample ID:	56968.01	56968.02
Matrix:	aqueous	aqueous
Date Sampled:	8/29/06	8/18/06
Date Received:	8/29/06	8/29/06
Units:	ug/l	ug/l
Date of Analysis:	8/30/06	8/30/06
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1

Dichlorodifluoromethane	< 5	< 5
Chloromethane	< 5	< 5
Vinyl chloride	< 2	< 2
Bromomethane	< 2	< 2
Chloroethane	< 5	< 5
Trichlorofluoromethane	< 5	< 5
Diethyl Ether	< 5	< 5
Acetone	< 10	< 10
1,1-Dichloroethene	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 5	< 5
Carbon disulfide	< 5	7
Methyl-t-butyl ether(MTBE)	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2
1,1-Dichloroethane	< 2	< 2
2,2-Dichloropropane	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 2	< 2
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2
Carbon tetrachloride	< 2	< 2
1,1-Dichloropropene	< 2	< 2
Benzene	< 1	< 1
1,2-Dichloroethane	< 2	< 2
Trichloroethene	< 2	< 2
1,2-Dichloropropane	< 2	< 2
Dibromomethane	< 2	< 2
Bromodichloromethane	< 2	< 2
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2
2-Hexanone	< 10	< 10
Tetrachloroethene	< 2	< 2
1,3-Dichloropropane	< 2	< 2
Dibromochloromethane	< 2	< 2
1,2-Dibromoethane	< 2	< 2
Chlorobenzene	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2
Ethylbenzene	< 1	< 1





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 56968

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Sample ID: Water Truck Trip Blank

Sample ID:	Water Truck	Trip Blank
Lab Sample ID:	56968.01	56968.02
Matrix:	aqueous	aqueous
Date Sampled:	8/29/06	8/18/06
Date Received:	8/29/06	8/29/06
Units:	ug/l	ug/l
Date of Analysis:	8/30/06	8/30/06
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 2	< 2
4-Chlorotoluene	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 1	< 1
Naphthalene	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1
4-Bromofluorobenzene (surr)	89 %R	88 %R
1,2-Dichlorobenzene-d4 (surr)	109 %R	113 %R

A low level of carbon disulfide was found in the Trip Blank and was confirmed by the analysis of the duplicate vial. There is no impact to the data since no carbon disulfide was found in the samples.





# LABORATORY REPORT

Eastern Analytical, Inc. ID#:56968

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		
				Units	Method	
Dichlorodifluoromethane	< 5			ug/l	8/30/06	8260B
Chloromethane	< 5			ug/l	8/30/06	8260B
Vinyl chloride	< 2			ug/l	8/30/06	8260B
Bromomethane	< 2			ug/l	8/30/06	8260B
Chloroethane	< 5			ug/l	8/30/06	8260B
Trichlorofluoromethane	< 5			ug/l	8/30/06	8260B
Diethyl Ether	< 5			ug/l	8/30/06	8260B
Acetone	< 10			ug/l	8/30/06	8260B
1,1-Dichloroethene	< 1	20 (100 %R)	20 (101 %R) (1 RPD)	ug/l	8/30/06	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	8/30/06	8260B
Methylene chloride	< 5			ug/l	8/30/06	8260B
Carbon disulfide	< 5			ug/l	8/30/06	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	8/30/06	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	8/30/06	8260B
Isopropyl ether(DIPE)	< 5			ug/l	8/30/06	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	8/30/06	8260B
trans-1,2-Dichloroethene	< 2			ug/l	8/30/06	8260B
1,1-Dichloroethane	< 2			ug/l	8/30/06	8260B
2,2-Dichloropropane	< 2			ug/l	8/30/06	8260B
cis-1,2-Dichloroethene	< 2			ug/l	8/30/06	8260B
2-Butanone(MEK)	< 10			ug/l	8/30/06	8260B
Bromochloromethane	< 2			ug/l	8/30/06	8260B
Tetrahydrofuran(THF)	< 10			ug/l	8/30/06	8260B
Chloroform	< 2			ug/l	8/30/06	8260B
1,1,1-Trichloroethane	< 2			ug/l	8/30/06	8260B
Carbon tetrachloride	< 2			ug/l	8/30/06	8260B
1,1-Dichloropropene	< 2			ug/l	8/30/06	8260B
Benzene	< 1	21 (107 %R)	22 (111 %R) (4 RPD)	ug/l	8/30/06	8260B
1,2-Dichloroethane	< 2			ug/l	8/30/06	8260B
Trichloroethene	< 2	21 (106 %R)	22 (110 %R) (4 RPD)	ug/l	8/30/06	8260B
1,2-Dichloropropane	< 2			ug/l	8/30/06	8260B
Dibromomethane	< 2			ug/l	8/30/06	8260B
Bromodichloromethane	< 2			ug/l	8/30/06	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	8/30/06	8260B
cis-1,3-Dichloropropene	< 2			ug/l	8/30/06	8260B
Toluene	< 1	21 (107 %R)	22 (110 %R) (3 RPD)	ug/l	8/30/06	8260B
trans-1,3-Dichloropropene	< 2			ug/l	8/30/06	8260B
1,1,2-Trichloroethane	< 2			ug/l	8/30/06	8260B
2-Hexanone	< 10			ug/l	8/30/06	8260B
Tetrachloroethene	< 2			ug/l	8/30/06	8260B
1,3-Dichloropropane	< 2			ug/l	8/30/06	8260B
Dibromochloromethane	< 2			ug/l	8/30/06	8260B
1,2-Dibromoethane	< 2			ug/l	8/30/06	8260B
Chlorobenzene	< 2	21 (107 %R)	22 (111 %R) (4 RPD)	ug/l	8/30/06	8260B





# LABORATORY REPORT

Eastern Analytical, Inc. ID#:56968

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		Method
				Units		
1,1,1,2-Tetrachloroethane	< 2			ug/l	8/30/06	8260B
Ethylbenzene	< 1			ug/l	8/30/06	8260B
mp-Xylene	< 1			ug/l	8/30/06	8260B
o-Xylene	< 1			ug/l	8/30/06	8260B
Styrene	< 1			ug/l	8/30/06	8260B
Bromoform	< 2			ug/l	8/30/06	8260B
IsoPropylbenzene	< 1			ug/l	8/30/06	8260B
Bromobenzene	< 2			ug/l	8/30/06	8260B
1,1,2,2-Tetrachloroethane	< 2			ug/l	8/30/06	8260B
1,2,3-Trichloropropane	< 2			ug/l	8/30/06	8260B
n-Propylbenzene	< 1			ug/l	8/30/06	8260B
2-Chlorotoluene	< 2			ug/l	8/30/06	8260B
4-Chlorotoluene	< 2			ug/l	8/30/06	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	8/30/06	8260B
tert-Butylbenzene	< 1			ug/l	8/30/06	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	8/30/06	8260B
sec-Butylbenzene	< 1			ug/l	8/30/06	8260B
1,3-Dichlorobenzene	< 1			ug/l	8/30/06	8260B
p-Isopropyltoluene	< 1			ug/l	8/30/06	8260B
1,4-Dichlorobenzene	< 1			ug/l	8/30/06	8260B
1,2-Dichlorobenzene	< 1			ug/l	8/30/06	8260B
n-Butylbenzene	< 1			ug/l	8/30/06	8260B
1,2-Dibromo-3-chloropropane	< 2			ug/l	8/30/06	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	8/30/06	8260B
Hexachlorobutadiene	< 1			ug/l	8/30/06	8260B
Naphthalene	< 5			ug/l	8/30/06	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	8/30/06	8260B
4-Bromofluorobenzene (surr)	90 %R	104 %R	104 %R	% Rec	8/30/06	8260B
1,2-Dichlorobenzene-d4 (surr)	109 %R	100 %R	100 %R	% Rec	8/30/06	8260B





# LABORATORY REPORT

Eastern Analytical, Inc. ID#:56968

Batch ID:

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

Client Designation: NCES Landfill / 1003.5

## Volatile Organic Compounds QC limits and Narrative Summary

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

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#: 56968

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

Client Designation: NCES Landfill / 1003.5

Sample ID: Water Truck

Lab Sample ID: 56968.01

Matrix: aqueous

Date Sampled: 8/29/06

Date Received: 8/29/06

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Arsenic	< 0.0005	AqTot	mg/L	9/1/06	200.8	DS
Cadmium	< 0.001	AqTot	mg/L	9/1/06	200.8	DS
Chromium	< 0.001	AqTot	mg/L	9/1/06	200.8	DS
Copper	< 0.001	AqTot	mg/L	9/1/06	200.8	DS
Lead	< 0.001	AqTot	mg/L	9/1/06	200.8	DS
Mercury	< 0.0001	AqTot	mg/L	9/1/06	200.8	DS
Molybdenum	< 0.001	AqTot	mg/L	9/1/06	200.8	DS
Nickel	< 0.001	AqTot	mg/L	9/1/06	200.8	DS
Selenium	< 0.001	AqTot	mg/L	9/1/06	200.8	DS
Zinc	< 0.005	AqTot	mg/L	9/1/06	200.8	DS





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 56968

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		
				Units	Method	
Arsenic	< 0.0005	1.0 (100 %R)		mg/L	9/1/06	200.8
Cadmium	< 0.001	0.99 (99 %R)		mg/L	9/1/06	200.8
Chromium	< 0.001	1.0 (101 %R)		mg/L	9/1/06	200.8
Copper	< 0.001	0.99 (99 %R)		mg/L	9/1/06	200.8
Lead	< 0.001	1.0 (100 %R)		mg/L	9/1/06	200.8
Mercury	< 0.0001	0.001 (113 %R)		mg/L	9/1/06	200.8
Molybdenum	< 0.001	1.0 (100 %R)		mg/L	9/1/06	200.8
Nickel	< 0.001	1.0 (102 %R)		mg/L	9/1/06	200.8
Selenium	< 0.001	1.0 (104 %R)		mg/L	9/1/06	200.8
Zinc	< 0.005	1.0 (101 %R)		mg/L	9/1/06	200.8

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	Matrix Spike Duplicate
Arsenic	56976.02	< 0.001	1.0 (102 %R)	1.0 (101 %R) (1 RPD)
Cadmium	56976.02	< 0.001	0.99 (99 %R)	1.0 (100 %R) (1 RPD)
Chromium	56976.02	< 0.001	1.0 (101 %R)	1.0 (103 %R) (2 RPD)
Copper	56976.02	0.23	1.2 (100 %R)	1.3 (103 %R) (3 RPD)
Lead	56976.02	< 0.001	1.0 (102 %R)	1.0 (101 %R) (1 RPD)
Mercury	56976.02	< 0.0001	0.011 (108 %R)	0.011 (108 %R) (0 RPD)
Molybdenum	56976.02	< 0.001	1.0 (103 %R)	1.0 (100 %R) (0 RPD)
Nickel	56976.02	0.001	1.0 (101 %R)	1.0 (104 %R) (3 RPD)
Selenium	56976.02	< 0.001	1.1 (106 %R)	1.0 (105 %R) (1 RPD)
Zinc	56976.02	0.022	1.0 (102 %R)	1.1 (104 %R) (2 RPD)





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 56968

Batch ID:

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

Client Designation: NCES Landfill / 1003.5

## Metals QA/QC and Narrative Report

QA/QC:	LCS		MS		MSD	
	Aqueous	%	Aqueous	%	Aqueous	%
Matrix:	200.7/200.8		200.7/200.8		200.7/200.8	
Units:						
EPA Method:						
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.



**CHAIN-OF-CUSTODY RECORD**  
REQUESTED ANALYSIS

ITEM # FOR LAB USE ONLY	SAMPLE ID.	SAMPLING DATE/TIME	MATRIX	VOC	SVOC	TEL/P METALS	INORGANICS	OTHER	NOTES			
	Water Tank TIP Blank	8/21/06 1335	<input type="checkbox"/> A-Air, S-Sex <input type="checkbox"/> SW-Storm Water <input type="checkbox"/> SW-Street Wash <input type="checkbox"/> SW-Drainage Wash <input type="checkbox"/> SW-Other Water <input type="checkbox"/> SW-Other	<input type="checkbox"/> 0101 <input type="checkbox"/> 0102 <input type="checkbox"/> 0103 <input type="checkbox"/> 0104 <input type="checkbox"/> 0105 <input type="checkbox"/> 0106 <input type="checkbox"/> 0107 <input type="checkbox"/> 0108 <input type="checkbox"/> 0109 <input type="checkbox"/> 0110 <input type="checkbox"/> 0111 <input type="checkbox"/> 0112 <input type="checkbox"/> 0113 <input type="checkbox"/> 0114 <input type="checkbox"/> 0115 <input type="checkbox"/> 0116 <input type="checkbox"/> 0117 <input type="checkbox"/> 0118 <input type="checkbox"/> 0119 <input type="checkbox"/> 0120 <input type="checkbox"/> 0121 <input type="checkbox"/> 0122 <input type="checkbox"/> 0123 <input type="checkbox"/> 0124 <input 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**Project Manager:** Paul Ryndel  
**Company:** SARGENT & HEARD  
**Address:** 20 Foundry ST  
**City:** Concord NH **State:** NH **Zip:** 03301  
**Phone:** (603) 229-1900  
**Fax:** (603) 228-1919  
**E-Mail:** PRYDEL@SARGENTHEARD.COM  
**Site Name:** NICES LANDFILL  
**Project #:** 1003\_5  
**State:** NH **City:** Concord **Other:**  
**Site Investigation:**  Date Reproduction  
**Waste Characterization/Phone:**  Date Reproduction

**Other Metals:** CB RCRA METALS, CDF, MN, Q13 PP METALS  
**Notes:** (ie Special Detection Limits, Billing Info, if different)  
 1. TERNAL METALS TO INCLUDE:  
 AS, Cd, Cu, Cs, Pb, Hg, Mo, Ni,  
 Se, Zn  
 , 5 Ppb detection on AS

**Results Needed By (with units and):** ASAP  
**QA/QC Reporting Level:** REPORTING OPTIONS  
**DA:** CB **DC:** M-Hand Copy/Fax  
**CM:** Dual (Electron/Print) **RE:** MAIL CDISK  
**Quote #:**  
**PO #:**  
**SAMPLED BY:** EB  
**DATE:** 8-29-06  
**RECEIVED BY:** [Signature]  
**DATE:** [Signature]  
**REINQUISHED BY:** [Signature]  
**DATE:** [Signature]



**eastern analytical, inc.**  
 25 CHARBELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMER\_SERVICE@EAL.ABS.COM | WWW.EAL.ABS.COM  
 (WHITE: ORIGINAL GREEN: PROJECT MANAGER)



**eastern analytical**

*professional laboratory services*

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

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 57064  
Client Identification: NCES Landfill / 1003.5  
Date Received: 9/5/2006

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, Lab Director

9.8.06

Date

10

# of pages (excluding cover letter)





# SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 57064

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Temperature upon receipt (°C): 9.7

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

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
57064.01	Secondary Leachate	9/5/06	9/1/06	aqueous		Adheres to Sample Acceptance Policy
57064.02	Trip Blank	9/5/06	8/28/06	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#: 57064

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Sample ID: Secondary Leachate Trip Blank

Lab Sample ID:	57064.01	57064.02
Matrix:	aqueous	aqueous
Date Sampled:	9/1/06	8/28/06
Date Received:	9/5/06	9/5/06
Units:	ug/l	ug/l
Date of Analysis:	9/5/06	9/5/06
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1

Dichlorodifluoromethane	< 5	< 5
Chloromethane	< 5	< 5
Vinyl chloride	< 2	< 2
Bromomethane	< 2	< 2
Chloroethane	< 5	< 5
Trichlorofluoromethane	< 5	< 5
Diethyl Ether	< 5	< 5
Acetone	< 10	< 10
1,1-Dichloroethene	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 5	< 5
Carbon disulfide	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2
1,1-Dichloroethane	< 2	< 2
2,2-Dichloropropane	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 2	< 2
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2
Carbon tetrachloride	< 2	< 2
1,1-Dichloropropene	< 2	< 2
Benzene	< 1	< 1
1,2-Dichloroethane	< 2	< 2
Trichloroethene	< 2	< 2
1,2-Dichloropropane	< 2	< 2
Dibromomethane	< 2	< 2
Bromodichloromethane	< 2	< 2
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2
Toluene	4	< 1
trans-1,3-Dichloropropene	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2
2-Hexanone	< 10	< 10
Tetrachloroethene	< 2	< 2
1,3-Dichloropropane	< 2	< 2
Dibromochloromethane	< 2	< 2
1,2-Dibromoethane	< 2	< 2
Chlorobenzene	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2
Ethylbenzene	< 1	< 1





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 57064

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Sample ID:	Secondary Leachate	Trip Blank
Lab Sample ID:	57064.01	57064.02
Matrix:	aqueous	aqueous
Date Sampled:	9/1/06	8/28/06
Date Received:	9/5/06	9/5/06
Units:	ug/l	ug/l
Date of Analysis:	9/5/06	9/5/06
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1
mp-Xylene	<1	<1
o-Xylene	<1	<1
Styrene	<1	<1
Bromoform	<2	<2
IsoPropylbenzene	<1	<1
Bromobenzene	<2	<2
1,1,2,2-Tetrachloroethane	<2	<2
1,2,3-Trichloropropane	<2	<2
n-Propylbenzene	<1	<1
2-Chlorotoluene	<2	<2
4-Chlorotoluene	<2	<2
1,3,5-Trimethylbenzene	<1	<1
tert-Butylbenzene	<1	<1
1,2,4-Trimethylbenzene	<1	<1
sec-Butylbenzene	<1	<1
1,3-Dichlorobenzene	<1	<1
p-Isopropyltoluene	<1	<1
1,4-Dichlorobenzene	<1	<1
1,2-Dichlorobenzene	<1	<1
n-Butylbenzene	<1	<1
1,2-Dibromo-3-chloropropane	<2	<2
1,2,4-Trichlorobenzene	<1	<1
Hexachlorobutadiene	<1	<1
Naphthalene	<5	<5
1,2,3-Trichlorobenzene	<1	<1
4-Bromofluorobenzene (surr)	87 %R	88 %R
1,2-Dichlorobenzene-d4 (surr)	113 %R	112 %R



# LABORATORY REPORT

Eastern Analytical, Inc. ID#:57064

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		
				Units	Method	
Dichlorodifluoromethane	< 5			ug/l	9/5/06	8260B
Chloromethane	< 5			ug/l	9/5/06	8260B
Vinyl chloride	< 2			ug/l	9/5/06	8260B
Bromomethane	< 2			ug/l	9/5/06	8260B
Chloroethane	< 5			ug/l	9/5/06	8260B
Trichlorofluoromethane	< 5			ug/l	9/5/06	8260B
Diethyl Ether	< 5			ug/l	9/5/06	8260B
Acetone	< 10			ug/l	9/5/06	8260B
1,1-Dichloroethene	< 1	21 (107 %R)	21 (107 %R) (0 RPD)	ug/l	9/5/06	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	9/5/06	8260B
Methylene chloride	< 5			ug/l	9/5/06	8260B
Carbon disulfide	< 5			ug/l	9/5/06	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	9/5/06	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	9/5/06	8260B
Isopropyl ether(DIPE)	< 5			ug/l	9/5/06	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	9/5/06	8260B
trans-1,2-Dichloroethene	< 2			ug/l	9/5/06	8260B
1,1-Dichloroethane	< 2			ug/l	9/5/06	8260B
2,2-Dichloropropane	< 2			ug/l	9/5/06	8260B
cis-1,2-Dichloroethene	< 2			ug/l	9/5/06	8260B
2-Butanone(MEK)	< 10			ug/l	9/5/06	8260B
Bromochloromethane	< 2			ug/l	9/5/06	8260B
Tetrahydrofuran(THF)	< 10			ug/l	9/5/06	8260B
Chloroform	< 2			ug/l	9/5/06	8260B
1,1,1-Trichloroethane	< 2			ug/l	9/5/06	8260B
Carbon tetrachloride	< 2			ug/l	9/5/06	8260B
1,1-Dichloropropene	< 2			ug/l	9/5/06	8260B
Benzene	< 1	23 (117 %R)	23 (116 %R) (1 RPD)	ug/l	9/5/06	8260B
1,2-Dichloroethane	< 2			ug/l	9/5/06	8260B
Trichloroethene	< 2	23 (114 %R)	23 (115 %R) (1 RPD)	ug/l	9/5/06	8260B
1,2-Dichloropropane	< 2			ug/l	9/5/06	8260B
Dibromomethane	< 2			ug/l	9/5/06	8260B
Bromodichloromethane	< 2			ug/l	9/5/06	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	9/5/06	8260B
cis-1,3-Dichloropropene	< 2			ug/l	9/5/06	8260B
Toluene	< 1	22 (112 %R)	22 (111 %R) (1 RPD)	ug/l	9/5/06	8260B
trans-1,3-Dichloropropene	< 2			ug/l	9/5/06	8260B
1,1,2-Trichloroethane	< 2			ug/l	9/5/06	8260B
2-Hexanone	< 10			ug/l	9/5/06	8260B
Tetrachloroethene	< 2			ug/l	9/5/06	8260B
1,3-Dichloropropane	< 2			ug/l	9/5/06	8260B
Dibromochloromethane	< 2			ug/l	9/5/06	8260B
1,2-Dibromoethane	< 2			ug/l	9/5/06	8260B
Chlorobenzene	< 2	23 (113 %R)	22 (112 %R) (1 RPD)	ug/l	9/5/06	8260B





# LABORATORY REPORT

Eastern Analytical, Inc. ID#:57064

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis	
				Units	Method
1,1,1,2-Tetrachloroethane	< 2			ug/l 9/5/06	8260B
Ethylbenzene	< 1			ug/l 9/5/06	8260B
mp-Xylene	< 1			ug/l 9/5/06	8260B
o-Xylene	< 1			ug/l 9/5/06	8260B
Styrene	< 1			ug/l 9/5/06	8260B
Bromoform	< 2			ug/l 9/5/06	8260B
IsoPropylbenzene	< 1			ug/l 9/5/06	8260B
Bromobenzene	< 2			ug/l 9/5/06	8260B
1,1,2,2-Tetrachloroethane	< 2			ug/l 9/5/06	8260B
1,2,3-Trichloropropane	< 2			ug/l 9/5/06	8260B
n-Propylbenzene	< 1			ug/l 9/5/06	8260B
2-Chlorotoluene	< 2			ug/l 9/5/06	8260B
4-Chlorotoluene	< 2			ug/l 9/5/06	8260B
1,3,5-Trimethylbenzene	< 1			ug/l 9/5/06	8260B
tert-Butylbenzene	< 1			ug/l 9/5/06	8260B
1,2,4-Trimethylbenzene	< 1			ug/l 9/5/06	8260B
sec-Butylbenzene	< 1			ug/l 9/5/06	8260B
1,3-Dichlorobenzene	< 1			ug/l 9/5/06	8260B
p-Isopropyltoluene	< 1			ug/l 9/5/06	8260B
1,4-Dichlorobenzene	< 1			ug/l 9/5/06	8260B
1,2-Dichlorobenzene	< 1			ug/l 9/5/06	8260B
n-Butylbenzene	< 1			ug/l 9/5/06	8260B
1,2-Dibromo-3-chloropropane	< 2			ug/l 9/5/06	8260B
1,2,4-Trichlorobenzene	< 1			ug/l 9/5/06	8260B
Hexachlorobutadiene	< 1			ug/l 9/5/06	8260B
Naphthalene	< 5			ug/l 9/5/06	8260B
1,2,3-Trichlorobenzene	< 1			ug/l 9/5/06	8260B
4-Bromofluorobenzene (surr)	88 %R	106 %R	104 %R	% Rec 9/5/06	8260B
1,2-Dichlorobenzene-d4 (surr)	112 %R	99 %R	100 %R	% Rec 9/5/06	8260B



# LABORATORY REPORT

Eastern Analytical, Inc. ID#:57064

Batch ID:

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

Client Designation: NCES Landfill / 1003.5

## Volatile Organic Compounds QC limits and Narrative Summary

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

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#: 57064

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Sample ID: Secondary Leachate

Lab Sample ID: 57064.01

Matrix: aqueous

Date Sampled: 9/1/06

Date Received: 9/5/06

Arsenic	0.013
Cadmium	< 0.001
Chromium	0.014
Copper	0.041
Lead	0.029
Mercury	< 0.0001
Molybdenum	0.004
Nickel	0.017
Selenium	< 0.001
Zinc	0.061

Units	Date of Analysis	Method	Analyst
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS
mg/L	9/7/06	200.8	DS



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 57064

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	Date of Analysis		
			Units		Method
Arsenic	< 0.0005	1.0 (103 %R)	mg/L	9/7/06	200.8
Cadmium	< 0.001	1.0 (103 %R)	mg/L	9/7/06	200.8
Chromium	< 0.001	1.1 (107 %R)	mg/L	9/7/06	200.8
Copper	< 0.001	1.0 (104 %R)	mg/L	9/7/06	200.8
Lead	< 0.001	1.1 (110 %R)	mg/L	9/7/06	200.8
Mercury	< 0.0001	0.001 (100 %R)	mg/L	9/7/06	200.8
Molybdenum	< 0.001	1.0 (102 %R)	mg/L	9/7/06	200.8
Nickel	< 0.001	1.1 (106 %R)	mg/L	9/7/06	200.8
Selenium	< 0.001	1.0 (101 %R)	mg/L	9/7/06	200.8
Zinc	< 0.005	1.0 (104 %R)	mg/L	9/7/06	200.8

Parameter Name	Matrix Spike	Matrix Spike Duplicate
Arsenic	1.0 (104 %R)	1.1 (105 %R) (1 RPD)
Cadmium	1.0 (102 %R)	1.0 (104 %R) (2 RPD)
Chromium	1.0 (102 %R)	1.0 (105 %R) (3 RPD)
Copper	0.99 (98 %R)	1.0 (99 %R) (1 RPD)
Lead	0.96 (95 %R)	0.99 (99 %R) (4 RPD)
Mercury	0.010 (96 %R)	0.010 (97 %R) (1 RPD)
Molybdenum	1.0 (104 %R)	1.1 (105 %R) (1 RPD)
Nickel	0.99 (99 %R)	1.0 (101 %R) (2 RPD)
Selenium	1.0 (104 %R)	1.0 (103 %R) (1 RPD)
Zinc	1.1 (99 %R)	1.1 (102 %R) (3 RPD)





# LABORATORY REPORT

Eastern Analytical, Inc. ID#:57064

Batch ID:

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

Client Designation: NCES Landfill / 1003.5

## Metals QA/QC and Narrative Report

QA/QC:	LCS		MS		MSD	
	Matrix:	Aqueous	Matrix:	Aqueous	Matrix:	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.







# eastern analytical

professional laboratory services

Paul Rydel

Sanborn, Head & Associates, Inc. (NH)

20 Foundry Street

Concord, NH 03301

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 57121

Client Identification: NCES Landfill / 1003.5

Date Received: 9/7/2006

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, Lab Director

9.13.06

Date

10

# of pages (excluding cover letter)



# SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 57121

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Temperature upon receipt (°C): 9

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

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
57121.01	Secondary Leachate	9/7/06	9/7/06	aqueous		Adheres to Sample Acceptance Policy
57121.02	Trip Blank	9/7/06	8/18/06	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#: 57121

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Sample ID: Secondary Leachate Trip Blank

Lab Sample ID:	57121.01	57121.02
Matrix:	aqueous	aqueous
Date Sampled:	9/7/06	8/18/06
Date Received:	9/7/06	9/7/06
Units:	ug/l	ug/l
Date of Analysis:	9/11/06	9/11/06
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1

Dichlorodifluoromethane	< 5	< 5
Chloromethane	< 5	< 5
Vinyl chloride	< 2	< 2
Bromomethane	< 2	< 2
Chloroethane	< 5	< 5
Trichlorofluoromethane	< 5	< 5
Diethyl Ether	< 5	< 5
Acetone	< 10	< 10
1,1-Dichloroethene	< 1	< 1
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 5	< 5
Carbon disulfide	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5
Ethyl-t-butyl ether(ETBE)	< 5	< 5
Isopropyl ether(DIPE)	< 5	< 5
tert-amyl methyl ether(TAME)	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2
1,1-Dichloroethane	< 2	< 2
2,2-Dichloropropane	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 2	< 2
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2
Carbon tetrachloride	< 2	< 2
1,1-Dichloropropene	< 2	< 2
Benzene	< 1	< 1
1,2-Dichloroethane	< 2	< 2
Trichloroethene	< 2	< 2
1,2-Dichloropropane	< 2	< 2
Dibromomethane	< 2	< 2
Bromodichloromethane	< 2	< 2
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 2	< 2
Toluene	23	< 1
trans-1,3-Dichloropropene	< 2	< 2
1,1,2-Trichloroethane	< 2	< 2
2-Hexanone	< 10	< 10
Tetrachloroethene	< 2	< 2
1,3-Dichloropropane	< 2	< 2
Dibromochloromethane	< 2	< 2
1,2-Dibromoethane	< 2	< 2
Chlorobenzene	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2
Ethylbenzene	< 1	< 1





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 57121

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Sample ID:	Secondary Leachate	Trip Blank
Lab Sample ID:	57121.01	57121.02
Matrix:	aqueous	aqueous
Date Sampled:	9/7/06	8/18/06
Date Received:	9/7/06	9/7/06
Units:	ug/l	ug/l
Date of Analysis:	9/11/06	9/11/06
Analyst:	BAM	BAM
Method:	8260B	8260B
Dilution Factor:	1	1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 2	< 2
4-Chlorotoluene	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 1	< 1
Naphthalene	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1
4-Bromofluorobenzene (surr)	94 %R	99 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	102 %R



# LABORATORY REPORT

Eastern Analytical, Inc. ID#:57121

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis	
				Units	Method
Dichlorodifluoromethane	< 5			ug/l	9/11/06 8260B
Chloromethane	< 5			ug/l	9/11/06 8260B
Vinyl chloride	< 2			ug/l	9/11/06 8260B
Bromomethane	< 2			ug/l	9/11/06 8260B
Chloroethane	< 5			ug/l	9/11/06 8260B
Trichlorofluoromethane	< 5			ug/l	9/11/06 8260B
Diethyl Ether	< 5			ug/l	9/11/06 8260B
Acetone	< 10			ug/l	9/11/06 8260B
1,1-Dichloroethene	< 1	22 (111 %R)	23 (113 %R) (2 RPD)	ug/l	9/11/06 8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	9/11/06 8260B
Methylene chloride	< 5			ug/l	9/11/06 8260B
Carbon disulfide	< 5			ug/l	9/11/06 8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	9/11/06 8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	9/11/06 8260B
Isopropyl ether(DIPE)	< 5			ug/l	9/11/06 8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	9/11/06 8260B
trans-1,2-Dichloroethene	< 2			ug/l	9/11/06 8260B
1,1-Dichloroethane	< 2			ug/l	9/11/06 8260B
2,2-Dichloropropane	< 2			ug/l	9/11/06 8260B
cis-1,2-Dichloroethene	< 2			ug/l	9/11/06 8260B
2-Butanone(MEK)	< 10			ug/l	9/11/06 8260B
Bromochloromethane	< 2			ug/l	9/11/06 8260B
Tetrahydrofuran(THF)	< 10			ug/l	9/11/06 8260B
Chloroform	< 2			ug/l	9/11/06 8260B
1,1,1-Trichloroethane	< 2			ug/l	9/11/06 8260B
Carbon tetrachloride	< 2			ug/l	9/11/06 8260B
1,1-Dichloropropene	< 2			ug/l	9/11/06 8260B
Benzene	< 1	25 (124 %R)	25 (124 %R) (0 RPD)	ug/l	9/11/06 8260B
1,2-Dichloroethane	< 2			ug/l	9/11/06 8260B
Trichloroethene	< 2	25 (123 %R)	25 (124 %R) (1 RPD)	ug/l	9/11/06 8260B
1,2-Dichloropropane	< 2			ug/l	9/11/06 8260B
Dibromomethane	< 2			ug/l	9/11/06 8260B
Bromodichloromethane	< 2			ug/l	9/11/06 8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	9/11/06 8260B
cis-1,3-Dichloropropene	< 2			ug/l	9/11/06 8260B
Toluene	< 1	23 (117 %R)	23 (117 %R) (0 RPD)	ug/l	9/11/06 8260B
trans-1,3-Dichloropropene	< 2			ug/l	9/11/06 8260B
1,1,2-Trichloroethane	< 2			ug/l	9/11/06 8260B
2-Hexanone	< 10			ug/l	9/11/06 8260B
Tetrachloroethene	< 2			ug/l	9/11/06 8260B
1,3-Dichloropropane	< 2			ug/l	9/11/06 8260B
Dibromochloromethane	< 2			ug/l	9/11/06 8260B
1,2-Dibromoethane	< 2			ug/l	9/11/06 8260B
Chlorobenzene	< 2	24 (118 %R)	23 (117 %R) (1 RPD)	ug/l	9/11/06 8260B



# LABORATORY REPORT

Eastern Analytical, Inc. ID#:57121

Batch ID:

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		
				Units	Method	
1,1,1,2-Tetrachloroethane	< 2			ug/l	9/11/06	8260B
Ethylbenzene	< 1			ug/l	9/11/06	8260B
mp-Xylene	< 1			ug/l	9/11/06	8260B
o-Xylene	< 1			ug/l	9/11/06	8260B
Styrene	< 1			ug/l	9/11/06	8260B
Bromoform	< 2			ug/l	9/11/06	8260B
IsoPropylbenzene	< 1			ug/l	9/11/06	8260B
Bromobenzene	< 2			ug/l	9/11/06	8260B
1,1,2,2-Tetrachloroethane	< 2			ug/l	9/11/06	8260B
1,2,3-Trichloropropane	< 2			ug/l	9/11/06	8260B
n-Propylbenzene	< 1			ug/l	9/11/06	8260B
2-Chlorotoluene	< 2			ug/l	9/11/06	8260B
4-Chlorotoluene	< 2			ug/l	9/11/06	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	9/11/06	8260B
tert-Butylbenzene	< 1			ug/l	9/11/06	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	9/11/06	8260B
sec-Butylbenzene	< 1			ug/l	9/11/06	8260B
1,3-Dichlorobenzene	< 1			ug/l	9/11/06	8260B
p-Isopropyltoluene	< 1			ug/l	9/11/06	8260B
1,4-Dichlorobenzene	< 1			ug/l	9/11/06	8260B
1,2-Dichlorobenzene	< 1			ug/l	9/11/06	8260B
n-Butylbenzene	< 1			ug/l	9/11/06	8260B
1,2-Dibromo-3-chloropropane	< 2			ug/l	9/11/06	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	9/11/06	8260B
Hexachlorobutadiene	< 1			ug/l	9/11/06	8260B
Naphthalene	< 5			ug/l	9/11/06	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	9/11/06	8260B
4-Bromofluorobenzene (surr)	97 %R	103 %R	104 %R	% Rec	9/11/06	8260B
1,2-Dichlorobenzene-d4 (surr)	103 %R	98 %R	101 %R	% Rec	9/11/06	8260B





# LABORATORY REPORT

Eastern Analytical, Inc. ID#:57121

Batch ID:

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

Client Designation: NCES Landfill / 1003.5

## Volatile Organic Compounds QC limits and Narrative Summary

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

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.

The laboratory control samples for trichloroethene did not meet the acceptance criteria. The high bias has no impact on the data reported as no trichloroethene was found in any of the samples.



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 57121

Client: Sanborn, Head & Associates, Inc. (NH) Client Designation: NCES Landfill / 1003.5

Sample ID: Secondary Leachate

Lab Sample ID: 57121.01

Matrix: aqueous

Date Sampled: 9/7/06

Date Received: 9/7/06

Arsenic 0.003  
Cadmium < 0.001  
Chromium 0.002  
Copper 0.007  
Lead 0.006  
Mercury < 0.0001  
Molybdenum 0.001  
Nickel 0.004  
Selenium < 0.001  
Zinc 0.016

	Units	Date of Analysis	Method	Analyst
Arsenic	mg/L	9/11/06	200.8	DS
Cadmium	mg/L	9/11/06	200.8	DS
Chromium	mg/L	9/11/06	200.8	DS
Copper	mg/L	9/11/06	200.8	DS
Lead	mg/L	9/11/06	200.8	DS
Mercury	mg/L	9/11/06	200.8	DS
Molybdenum	mg/L	9/11/06	200.8	DS
Nickel	mg/L	9/11/06	200.8	DS
Selenium	mg/L	9/11/06	200.8	DS
Zinc	mg/L	9/11/06	200.8	DS



# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 57121

Client: Sanborn, Head & Associates, Inc.

Client Designation: NCES Landfill / 1003.5

## QC Report

Parameter Name	Blank	LCS	LCS Dup	Date of Analysis		Method
				Units		
Arsenic	< 0.0005	0.98 (98 %R)		mg/L	9/11/06	200.8
Cadmium	< 0.001	0.98 (98 %R)		mg/L	9/11/06	200.8
Chromium	< 0.001	0.97 (97 %R)		mg/L	9/11/06	200.8
Copper	< 0.001	0.90 (90 %R)		mg/L	9/11/06	200.8
Lead	< 0.001	1.1 (112 %R)		mg/L	9/11/06	200.8
Mercury	< 0.0001	< 0.001 (94 %R)		mg/L	9/11/06	200.8
Molybdenum	< 0.001	0.99 (99 %R)		mg/L	9/11/06	200.8
Nickel	< 0.001	0.96 (96 %R)		mg/L	9/11/06	200.8
Selenium	< 0.001	1.0 (102 %R)		mg/L	9/11/06	200.8
Zinc	< 0.005	0.96 (96 %R)		mg/L	9/11/06	200.8

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	Matrix Spike Duplicate
Arsenic	57152.05	< 0.0005	0.97 (97 %R)	0.97 (97 %R) (0 RPD)
Cadmium	57152.05	< 0.001	0.99 (99 %R)	1.0 (100 %R) (1 RPD)
Chromium	57152.05	< 0.001	0.96 (96 %R)	0.97 (97 %R) (1 RPD)
Copper	57152.05	0.009	0.90 (89 %R)	0.91 (90 %R) (1 RPD)
Lead	57152.05	< 0.001	1.2 (118 %R)	1.2 (116 %R) (2 RPD)
Mercury	57152.05	< 0.0001	0.010 (101 %R)	0.010 (104 %R) (3 RPD)
Molybdenum	57152.05	0.011	1.0 (98 %R)	1.0 (99 %R) (1 RPD)
Nickel	57152.05	< 0.001	0.93 (93 %R)	0.95 (95 %R) (2 RPD)
Selenium	57152.05	< 0.001	0.99 (99 %R)	1.0 (101 %R) (2 RPD)
Zinc	57152.05	0.007	1.0 (99 %R)	1.0 (100 %R) (1 RPD)





# LABORATORY REPORT

Eastern Analytical, Inc. ID#: 57121

Batch ID:

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

Client Designation: NCES Landfill / 1003.5

## Metals QA/QC and Narrative Report

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

