MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-001 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:12 AM
Sample Field ID#: LT-5C **Locator:** Leachate Tank 5 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Ammonia-N	**8.6**	mg/L	0.020	0.060	EPA 350.1	05/07/2007 11:00 AM	Approved
COD	**350**	mg/L	17	51	SM 5220 C	05/08/2007 12:00 PM	Approved
Nitrate/Nitrite-N	ND	mg/L	2.0	6.0	EPA 353.1	05/04/2007 4:00 PM	Approved

Sample Lab ID#: 2007147-002 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:15 AM
Sample Field ID#: LT-5A **Locator:** Leachate Tank 5 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Arsenic	**0.060**	mg/L	0.008	0.024	EPA 6020B	05/09/2007 2:00 PM	Approved
Barium	ND	mg/L	0.66	2.0	EPA 6010B	05/07/2007 5:00 PM	Approved
Cadmium	ND	mg/L	0.0024	0.0072	EPA 6020B	05/09/2007 2:00 PM	Approved
Calcium	**500**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Chromium	ND	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Copper	ND	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Hardness	**1700**	mg/L as CaCO3	5.3	16	SM 2340 B	05/07/2007 5:00 PM	Approved
Iron	**3.0**	mg/L	0.15	0.46	EPA 6010B	05/07/2007 5:00 PM	Approved
Lead	**0.0056 M**	mg/L	0.0024	0.0072	EPA 6020B	05/09/2007 2:00 PM	Approved
Magnesium	**110**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Manganese	**2.9**	mg/L	0.048	0.14	EPA 6010B	05/07/2007 5:00 PM	Approved
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A	05/08/2007 4:00 PM	Approved
Selenium	**0.0080 M**	mg/L	0.0032	0.0096	EPA 6020B	05/09/2007 2:00 PM	Approved
Silver	ND J	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Silver results qualified. Low recovery on LFM.							
Sodium	ND	mg/L	1.6	4.8	EPA 6010B	05/07/2007 5:00 PM	Approved
Zinc	ND	mg/L	0.072	0.22	EPA 6010B	05/07/2007 5:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < RDL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

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Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-003 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:15 AM
Sample Field ID#: LT-5B **Locator:** Leachate Tank 5 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Total Cyanide	ND	mg/L	0.13	0.39	SM 4500-CN C E	05/09/2007 10:00 AM	Approved

Sample Lab ID#: 2007147-004 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:18 AM
Sample Field ID#: LT-5D **Locator:** Leachate Tank 5 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Alkalinity	**1400**	mg/L as CaCO3	2	2	SM 2320 B	05/04/2007 12:00 PM	Approved
Chloride	**200**	mg/L	0.030	0.090	EPA 300.0	05/07/2007 5:30 PM	Approved
Spec Cond	**3600**	umhos/cm	0.23	0.69	SM 2510 B	05/07/2007 3:00 PM	Approved
Sulfate	**620**	mg/L	0.12	0.36	EPA 300.0	05/07/2007 5:30 PM	Approved

Sample Lab ID#: 2007147-005 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:20 AM
Sample Field ID#: LT-5E16 & E21 **Locator:** Leachate Tank 5 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
Dibromofluoromethane	124	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene-d8	106	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
4-bromofluorobenzene	106	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloromethane	**27**	ug/L	0.64	4.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Sample required 2x dilution; MDL/RDL reflects this dilution.							
Vinyl chloride	ND	ug/L	0.23	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromomethane	ND	ug/L	0.46	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroethane	ND	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

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Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-005	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 5/3/2007 10:20 AM
Sample Field ID#: LT-5E16 & E21	**Locator:** Leachate Tank 5	**Collector:** Hart, E.	**Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Acetone	**77 J**	ug/L	10	50	EPA 8260B	05/04/2007 12:00 PM	Approved
J = Acetone did not meet calibration check or LCS criteria. Result qualified.							
Trichlorofluoromethane	**NA**	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Compound not analyzed with calibration standards.							
1,1-Dichloroethene	ND	ug/L	0.49	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon disulfide	**0.89 M**	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Methylene chloride	ND	ug/L	0.24	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Methyl-t-butyl ether	**1.7 M**	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloroethane	**0.52 M**	ug/L	0.49	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
MEK	ND	ug/L	4.6	20	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobromomethane	ND	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
2,2-Dichloropropane	ND	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,2-Dichloroethene	**0.66 M**	ug/L	0.43	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Benzene	ND	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Trichloroethene	**1.8 M**	ug/L	0.20	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

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Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-005	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 5/3/2007 10:20 AM
Sample Field ID#: LT-5E16 & E21	**Locator:** Leachate Tank 5	**Collector:** Hart, E.	**Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
MIBK	**19 M**	ug/L	2.1	20	EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene	**19**	ug/L	0.29	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Tetrachloroethene	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromochloromethane	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobenzene	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Ethylbenzene	**1.0 M**	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
p,m-xylene	**2.5 M**	ug/L	0.49	4.0	EPA 8260B	05/04/2007 12:00 PM	Approved
o-Xylene	**1.4 M**	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromoform	ND	ug/L	0.35	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Isopropylbenzene	**0.64 M**	ug/L	0.20	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromobenzene	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Propylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3,5-Trimethylbenzene	ND	ug/L	0.13	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
tert-Butylbenzene	ND	ug/L	0.18	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

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Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-005	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:20 AM
Sample Field ID#:	LT-5E16 & E21	**Locator:**	Leachate Tank 5	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
1,2,4-Trimethylbenzene	**0.94 M**	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
sec-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichlorobenzene	ND	ug/L	0.18	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Isopropyltoluene	**3.4**	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	0.28	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	0.29	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	0.75	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Hexachlorobutadiene	ND	ug/L	0.84	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Naphthalene	**9.4**	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

N = Dimethyl sulfide, 2- propanethiol, dichlorofluoromethane, Camphene.

Sample Lab ID#:	2007147-007	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:25 AM
Sample Field ID#:	LT-4C	**Locator:**	Leachate Tank 4	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Ammonia-N	**310**	mg/L	0.020	0.060	EPA 350.1	05/07/2007 11:00 AM	Approved
COD	**350**	mg/L	17	51	SM 5220 C	05/08/2007 12:00 PM	Approved
Nitrate/Nitrite-N	**Not Reported**	mg/L	2.0	6.0	EPA 353.1	05/04/2007 4:00 PM	Approved

Nitrate/Nitrite low relative to ammonia (anaerobic conditons). Interferents (such as sulfide) precludes accurate measurement.

Sample Lab ID#:	2007147-008	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:25 AM
Sample Field ID#:	LT-4A	**Locator:**	Leachate Tank 4	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

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Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-008	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:25 AM
Sample Field ID#:	LT-4A	**Locator:**	Leachate Tank 4	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Arsenic	**0.013 M**	mg/L	0.008	0.024	EPA 6020B	05/09/2007 2:00 PM	Approved
Barium	**19**	mg/L	0.66	2.0	EPA 6010B	05/07/2007 5:00 PM	Approved
Cadmium	**21**	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Calcium	**510**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Chromium	**20**	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Copper	**19**	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Hardness	**1800**	mg/L as CaCO3	5.3	16	SM 2340 B	05/07/2007 5:00 PM	Approved
Iron	**23**	mg/L	0.15	0.46	EPA 6010B	05/07/2007 5:00 PM	Approved
Lead	**21**	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Magnesium	**130**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Manganese	**23**	mg/L	0.048	0.14	EPA 6010B	05/07/2007 5:00 PM	Approved
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A	05/08/2007 4:00 PM	Approved
Selenium	**0.030**	mg/L	0.0032	0.0096	EPA 6020B	05/09/2007 2:00 PM	Approved
Silver	**0.48 J**	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Silver results qualified. Low recovery on LFM.							
Sodium	**18**	mg/L	1.6	4.8	EPA 6010B	05/07/2007 5:00 PM	Approved
Zinc	**23**	mg/L	0.072	0.22	EPA 6010B	05/07/2007 5:00 PM	Approved

Sample Lab ID#:	2007147-009	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:27 AM
Sample Field ID#:	LT-4D	**Locator:**	Leachate Tank 4	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Alkalinity	**2200**	mg/L as CaCO3	2	2	SM 2320 B	05/04/2007 12:00 PM	Approved
Chloride	**500**	mg/L	0.030	0.090	EPA 300.0	05/07/2007 5:30 PM	Approved
Spec Cond	**5600**	umhos/cm	0.23	0.69	SM 2510 B	05/07/2007 3:00 PM	Approved

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MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-009	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	5/3/2007 10:27 AM
Sample Field ID#:	LT-4D	Locator:	Leachate Tank 4	Collector:	Hart, E.	Receive Date:	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Sulfate	93	mg/L	0.12	0.36	EPA 300.0	05/07/2007 5:30 PM	Approved

Sample Lab ID#:	2007147-010	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	5/3/2007 10:27 AM
Sample Field ID#:	LT-4B	Locator:	Leachate Tank 4	Collector:	Hart, E.	Receive Date:	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Total Cyanide	ND J	mg/L	0.13	0.39	SM 4500-CN C E	05/09/2007 10:00 AM	Approved

pH = 9.7 ; Sample improperly preserved.

Sample Lab ID#:	2007147-011	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	5/3/2007 10:30 AM
Sample Field ID#:	LT-4E1 & E2	Locator:	Leachate Tank 4	Collector:	Hart, E.	Receive Date:	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
Dibromofluoromethane	142	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved

Recovery outside acceptance criteria. The two other surrogate standards are within acceptance criteria. Results are not qualified.

Toluene-d8	109	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
4-bromofluorobenzene	108	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloromethane	52	ug/L	3.2	20	EPA 8260B	05/04/2007 12:00 PM	Approved

Sample required 10x dilution; MDL/RDL reflects this dilution.

Vinyl chloride	ND	ug/L	0.23	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromomethane	ND	ug/L	0.46	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroethane	ND	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Acetone	ND J	ug/L	10	50	EPA 8260B	05/04/2007 12:00 PM	Approved

J = Acetone did not meet calibration check or LCS criteria. Result qualified.

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < RDL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

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WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-011	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:30 AM
Sample Field ID#:	LT-4E1 & E2	**Locator:**	Leachate Tank 4	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Trichlorofluoromethane	**NA**	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Compound not analyzed with calibration standards.							
1,1-Dichloroethene	ND	ug/L	0.49	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon disulfide	ND	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Methylene chloride	ND	ug/L	0.24	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Methyl-t-butyl ether	**2.8**	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloroethane	ND	ug/L	0.49	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
MEK	ND	ug/L	4.6	20	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobromomethane	ND	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
2,2-Dichloropropane	ND	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,2-Dichloroethene	**0.77 M**	ug/L	0.43	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Benzene	**2.3**	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Trichloroethene	ND	ug/L	0.20	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
MIBK	ND	ug/L	2.1	20	EPA 8260B	05/04/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < RDL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
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RDL = Reporting Detection Limit (equiv. MRL)

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LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-011	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:30 AM
Sample Field ID#:	LT-4E1 & E2	**Locator:**	Leachate Tank 4	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Toluene	**1.5 M**	ug/L	0.29	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Tetrachloroethene	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromochloromethane	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobenzene	**0.43 M**	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Ethylbenzene	**1.2 M**	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
p,m-xylene	**1.3 M**	ug/L	0.49	4.0	EPA 8260B	05/04/2007 12:00 PM	Approved
o-Xylene	**1.4 M**	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromoform	ND	ug/L	0.35	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Isopropylbenzene	**0.77 M**	ug/L	0.20	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromobenzene	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Propylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3,5-Trimethylbenzene	**0.33 M**	ug/L	0.13	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
tert-Butylbenzene	ND	ug/L	0.18	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,4-Trimethylbenzene	**2.3**	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
sec-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < RDL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
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MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-011 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:30 AM
Sample Field ID#: LT-4E1 & E2 **Locator:** Leachate Tank 4 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
1,3-Dichlorobenzene	ND	ug/L	0.18	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Isopropyltoluene	**0.46 M**	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	0.28	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	0.29	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	0.75	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Hexachlorobutadiene	ND	ug/L	0.84	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Naphthalene	**62**	ug/L	5.2	20	EPA 8260B	05/04/2007 12:00 PM	Approved
Sample required 10x dilution; MDL/RDL reflects this dilution.							
1,2,3-Trichlorobenzene	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

N = Trimethylsilanol, ethenylbenzene.

Sample Lab ID#: 2007147-012 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 11:45 AM
Sample Field ID#: LS1 C **Locator:** Leachate Seep 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Ammonia-N	**9.6**	mg/L	0.020	0.060	EPA 350.1	05/07/2007 11:00 AM	Approved
COD	**3500**	mg/L	17	51	SM 5220 C	05/08/2007 12:00 PM	Approved
Nitrate/Nitrite-N	ND	mg/L	2.0	6.0	EPA 353.1	05/04/2007 4:00 PM	Approved

Sample Lab ID#: 2007147-013 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 11:45 AM
Sample Field ID#: LS1 D **Locator:** Leachate Seep 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Alkalinity	**1600**	mg/L as CaCO3	2	2	SM 2320 B	05/04/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < RDL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
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MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-013 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 11:45 AM
Sample Field ID#: LS1 D **Locator:** Leachate Seep 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Chloride	**99**	mg/L	0.030	0.090	EPA 300.0	05/07/2007 5:30 PM	Approved
Spec Cond	**3800**	umhos/cm	0.23	0.69	SM 2510 B	05/07/2007 3:00 PM	Approved
Sulfate	**1200**	mg/L	0.12	0.36	EPA 300.0	05/07/2007 5:30 PM	Approved

Sample Lab ID#: 2007147-014 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 11:48 AM
Sample Field ID#: LS1 A **Locator:** Leachate Seep 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Arsenic	**0.065**	mg/L	0.008	0.024	EPA 6020B	05/09/2007 2:00 PM	Approved
Barium	**2.0**	mg/L	0.66	2.0	EPA 6010B	05/07/2007 5:00 PM	Approved
Cadmium	**0.013**	mg/L	0.0024	0.0072	EPA 6020B	05/09/2007 2:00 PM	Approved
Calcium	**900**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Chromium	**0.38**	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Copper	**0.34 B**	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Hardness	**3000**	mg/L as CaCO3	5.3	16	SM 2340 B	05/07/2007 5:00 PM	Approved
Iron	**430**	mg/L	0.15	0.46	EPA 6010B	05/07/2007 5:00 PM	Approved
Lead	**2.6**	mg/L	0.0024	0.0072	EPA 6020B	05/09/2007 2:00 PM	Approved
Magnesium	**190**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Manganese	**6.1**	mg/L	0.048	0.14	EPA 6010B	05/07/2007 5:00 PM	Approved
Mercury	**0.0011**	mg/L	0.0002	0.0006	EPA 7470A	05/08/2007 4:00 PM	Approved
Selenium	ND	mg/L	0.0032	0.0096	EPA 6020B	05/09/2007 2:00 PM	Approved
Silver	ND J	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Silver results qualified. Low recovery on LFM.							
Sodium	ND	mg/L	1.6	4.8	EPA 6010B	05/07/2007 5:00 PM	Approved
Zinc	**2.8**	mg/L	0.072	0.22	EPA 6010B	05/07/2007 5:00 PM	Approved

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Estimated Value:
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H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

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WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-015 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 11:50 AM
Sample Field ID#: LS1 B **Locator:** Leachate Seep 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Total Cyanide	ND J	mg/L	0.20	0.60	SM 4500-CN C E	05/09/2007 10:00 AM	Approved
pH = 9.8 ; Sample improperly preserved.							

Sample Lab ID#: 2007147-016 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 11:55 AM
Sample Field ID#: LS1 E1 & E2 **Locator:** Leachate Seep 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
Dibromofluoromethane	115	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene-d8	108	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
4-bromofluorobenzene	96	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Dichlorodifluoromethane	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloromethane	**12**	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Vinyl chloride	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromomethane	ND	ug/L	2.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroethane	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Acetone	**82 J, M**	ug/L	50	250	EPA 8260B	05/04/2007 12:00 PM	Approved
J = Acetone did not meet calibration check or LCS criteria. Result qualified.							
Trichlorofluoromethane	**NA**	ug/L	2.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Compound not analyzed with calibration standards.							
1,1-Dichloroethene	ND	ug/L	2.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon disulfide	**2.8 M**	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Methylene chloride	ND	ug/L	1.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Freon-113	ND	ug/L	2.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Methyl-t-butyl ether	ND	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < RDL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-016	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 11:55 AM
Sample Field ID#:	LS1 E1 & E2	**Locator:**	Leachate Seep 1	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
1,1-Dichloroethane	ND	ug/L	2.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
MEK	ND	ug/L	23	100	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobromomethane	ND	ug/L	2.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
2,2-Dichloropropane	ND	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,2-Dichloroethene	ND	ug/L	2.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroform	**2.5 M**	ug/L	2.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	1.9	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon tetrachloride	ND	ug/L	1.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloropropene	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Benzene	ND	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloroethane	ND	ug/L	1.7	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Trichloroethene	ND	ug/L	1.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloropropane	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromomethane	ND	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromodichloromethane	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	2.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
MIBK	**27 M**	ug/L	11	100	EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene	**21**	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	2.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	1.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Tetrachloroethene	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.70	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromochloromethane	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromoethane	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobenzene	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < RDL
H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LB, LRB, and/or trip blank or no trip blank was collected
N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-016 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 11:55 AM
Sample Field ID#: LS1 E1 & E2 **Locator:** Leachate Seep 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
1,1,1,2-Tetrachloroethane	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Ethylbenzene	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
p,m-xylene	ND	ug/L	2.5	20	EPA 8260B	05/04/2007 12:00 PM	Approved
o-Xylene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Styrene	ND	ug/L	0.80	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromoform	ND	ug/L	1.8	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Isopropylbenzene	ND	ug/L	1.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromobenzene	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	1.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	1.9	10	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Propylbenzene	ND	ug/L	0.70	10	EPA 8260B	05/04/2007 12:00 PM	Approved
2-Chlorotoluene	ND	ug/L	0.35	10	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Chlorotoluene	ND	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3,5-Trimethylbenzene	ND	ug/L	0.65	10	EPA 8260B	05/04/2007 12:00 PM	Approved
tert-Butylbenzene	ND	ug/L	0.90	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,4-Trimethylbenzene	ND	ug/L	0.70	10	EPA 8260B	05/04/2007 12:00 PM	Approved
sec-Butylbenzene	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichlorobenzene	ND	ug/L	0.90	10	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Isopropyltoluene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Butylbenzene	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	3.8	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Hexachlorobutadiene	ND	ug/L	4.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved

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Estimated Value:
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H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

NA = Not applicable

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
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MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-016	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	5/3/2007	11:55 AM
Sample Field ID#:	LS1 E1 & E2	Locator:	Leachate Seep 1	Collector:	Hart, E.	Receive Date:	5/3/2007	2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Naphthalene	**8.1 M**	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved

Sample required 5x dilution; MDLs/RDLs reflect this dilution. N = Dimethyl sulfide, Propanethiol.

Sample Lab ID#:	2007147-017	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	5/3/2007	12:10 PM
Sample Field ID#:	LS2 C	Locator:	Leachate Seep 2	Collector:	Hart, E.	Receive Date:	5/3/2007	2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Ammonia-N	**42**	mg/L	0.020	0.060	EPA 350.1	05/07/2007 11:00 AM	Approved
COD	**13000**	mg/L	17	51	SM 5220 C	05/08/2007 12:00 PM	Approved
Nitrate/Nitrite-N	**Not Reported**	mg/L	2.0	6.0	EPA 353.1	05/04/2007 4:00 PM	Approved

Nitrate/Nitrite results low relative to ammonia (anaerobic conditions). Interferents (such as sulfide) preclude accurate measurement.

Sample Lab ID#:	2007147-018	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	5/3/2007	12:35 PM
Sample Field ID#:	LS2 B	Locator:	Leachate Seep 2	Collector:	Hart, E.	Receive Date:	5/3/2007	2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Total Cyanide	**0.39 M, J**	mg/L	0.20	0.60	SM 4500-CN C E	05/09/2007 10:00 AM	Approved

pH = 9.8 ; Sample improperly preserved.

Sample Lab ID#:	2007147-019	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	5/3/2007	12:15 PM
Sample Field ID#:	LS2 D	Locator:	Leachate Seep 2	Collector:	Hart, E.	Receive Date:	5/3/2007	2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Alkalinity	**7600**	mg/L as CaCO3	2	2	SM 2320 B	05/04/2007 12:00 PM	Approved
Chloride	**370**	mg/L	0.030	0.090	EPA 300.0	05/07/2007 5:30 PM	Approved
Spec Cond	**7500**	umhos/cm	0.23	0.69	SM 2510 B	05/07/2007 3:00 PM	Approved

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J = Other QC criteria not met (see comments)

NA = Not applicable

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MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-019 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 12:15 PM
Sample Field ID#: LS2 D **Locator:** Leachate Seep 2 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Sulfate	220	mg/L	0.12	0.36	EPA 300.0	05/07/2007 5:30 PM	Approved

Sample Lab ID#: 2007147-020 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 12:20 PM
Sample Field ID#: LS2 A **Locator:** Leachate Seep 2 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Arsenic	0.15	mg/L	0.008	0.024	EPA 6020B	05/09/2007 2:00 PM	Approved
Barium	15	mg/L	0.66	2.0	EPA 6010B	05/07/2007 5:00 PM	Approved
Cadmium	0.095	mg/L	0.0024	0.0072	EPA 6020B	05/09/2007 2:00 PM	Approved
Calcium	3300	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Chromium	2.6	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Copper	4.9	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Hardness	12000	mg/L as CaCO3	5.3	16	SM 2340 B	05/07/2007 5:00 PM	Approved
Iron	1100	mg/L	0.15	0.46	EPA 6010B	05/07/2007 5:00 PM	Approved
Lead	22	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Magnesium	990	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Manganese	27	mg/L	0.048	0.14	EPA 6010B	05/07/2007 5:00 PM	Approved
Mercury	0.028	mg/L	0.0040	0.012	EPA 7470A	05/08/2007 4:00 PM	Approved
Selenium	0.0066 M	mg/L	0.0032	0.0096	EPA 6020B	05/09/2007 2:00 PM	Approved
Silver	ND J	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Silver results qualified. Low recovery on LFM.							
Sodium	15	mg/L	1.6	4.8	EPA 6010B	05/07/2007 5:00 PM	Approved
Zinc	27	mg/L	0.072	0.22	EPA 6010B	05/07/2007 5:00 PM	Approved

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QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

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DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-021	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 5/3/2007 12:45 PM
Sample Field ID#: LS2 E1 & E2	**Locator:** Leachate Seep 2	**Collector:** Hart, E.	**Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
Dibromofluoromethane	117	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene-d8	106	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
4-bromofluorobenzene	96	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Dichlorodifluoromethane	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloromethane	**9.1 M**	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Vinyl chloride	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromomethane	ND	ug/L	2.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroethane	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Acetone	**1500 J**	ug/L	50	250	EPA 8260B	05/04/2007 12:00 PM	Approved
J = Acetone did not meet calibration check or LCS criteria. Result qualified.							
Trichlorofluoromethane	**NA**	ug/L	2.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Compound not analyzed with calibration standards.							
1,1-Dichloroethene	ND	ug/L	2.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon disulfide	**6.0 M**	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Methylene chloride	ND	ug/L	1.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Freon-113	ND	ug/L	2.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Methyl-t-butyl ether	**2.2 M**	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloroethane	ND	ug/L	2.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
MEK	**400**	ug/L	46	200	EPA 8260B	05/04/2007 12:00 PM	Approved
Sample required 10x dilution; MDL/RDL reflects this dilution.							
Chlorobromomethane	ND	ug/L	2.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
2,2-Dichloropropane	ND	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,2-Dichloroethene	ND	ug/L	2.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved

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DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-021	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 5/3/2007 12:45 PM
Sample Field ID#: LS2 E1 & E2	**Locator:** Leachate Seep 2	**Collector:** Hart, E.	**Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Chloroform	ND	ug/L	2.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	1.9	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon tetrachloride	ND	ug/L	1.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloropropene	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Benzene	ND	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloroethane	ND	ug/L	1.7	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Trichloroethene	ND	ug/L	1.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloropropane	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromomethane	ND	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromodichloromethane	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	2.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
MIBK	**71 M**	ug/L	11	100	EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene	**5.3 M**	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	2.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	1.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Tetrachloroethene	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.70	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromochloromethane	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromoethane	ND	ug/L	1.5	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobenzene	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Ethylbenzene	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
p,m-xylene	ND	ug/L	2.5	20	EPA 8260B	05/04/2007 12:00 PM	Approved
o-Xylene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Styrene	ND	ug/L	0.80	10	EPA 8260B	05/04/2007 12:00 PM	Approved

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NA = Not applicable

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N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies
MDL = Method Detection Limit
RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-021	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 12:45 PM
Sample Field ID#:	LS2 E1 & E2	**Locator:**	Leachate Seep 2	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Bromoform	ND	ug/L	1.8	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Isopropylbenzene	ND	ug/L	1.0	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromobenzene	ND	ug/L	1.1	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	1.3	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	1.9	10	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Propylbenzene	ND	ug/L	0.70	10	EPA 8260B	05/04/2007 12:00 PM	Approved
2-Chlorotoluene	ND	ug/L	0.35	10	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Chlorotoluene	ND	ug/L	1.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3,5-Trimethylbenzene	ND	ug/L	0.65	10	EPA 8260B	05/04/2007 12:00 PM	Approved
tert-Butylbenzene	ND	ug/L	0.90	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,4-Trimethylbenzene	ND	ug/L	0.70	10	EPA 8260B	05/04/2007 12:00 PM	Approved
sec-Butylbenzene	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichlorobenzene	ND	ug/L	0.90	10	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Isopropyltoluene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Butylbenzene	ND	ug/L	0.85	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	3.8	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Hexachlorobutadiene	ND	ug/L	4.2	10	EPA 8260B	05/04/2007 12:00 PM	Approved
Naphthalene	ND	ug/L	2.6	10	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	1.4	10	EPA 8260B	05/04/2007 12:00 PM	Approved

Sample required 5x dilution; MDLs/RDLs reflect this dilution. N = Dimethyl sulfide.

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Estimated Value:
M = Analyte concentration > MDL but < RDL
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J = Other QC criteria not met (see comments)

NA = Not applicable

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DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-022 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:35 AM
Sample Field ID#: WT1 C **Locator:** East Wetland 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Ammonia-N	**6.5**	mg/L	0.020	0.060	EPA 350.1	05/07/2007 11:00 AM	Approved
COD	**350**	mg/L	17	51	SM 5220 C	05/08/2007 12:00 PM	Approved
Nitrate/Nitrite-N	ND	mg/L	2.0	6.0	EPA 353.1	05/04/2007 4:00 PM	Approved

Sample Lab ID#: 2007147-023 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:37 AM
Sample Field ID#: WT1 B **Locator:** East Wetland 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Total Cyanide	ND	mg/L	0.20	0.60	SM 4500-CN C E	05/09/2007 10:00 AM	Approved

Sample Lab ID#: 2007147-024 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:40 AM
Sample Field ID#: WT1 A **Locator:** East Wetland 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Arsenic	**0.084**	mg/L	0.008	0.024	EPA 6020B	05/09/2007 2:00 PM	Approved
Barium	ND	mg/L	0.66	2.0	EPA 6010B	05/07/2007 5:00 PM	Approved
Cadmium	ND	mg/L	0.0024	0.0072	EPA 6020B	05/09/2007 2:00 PM	Approved
Calcium	**390**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Chromium	ND	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Copper	ND	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Hardness	**1400**	mg/L as CaCO3	5.3	16	SM 2340 B	05/07/2007 5:00 PM	Approved
Iron	**33**	mg/L	0.15	0.46	EPA 6010B	05/07/2007 5:00 PM	Approved
Lead	**0.0090**	mg/L	0.0024	0.0072	EPA 6020B	05/09/2007 2:00 PM	Approved
Magnesium	**110**	mg/L	0.80	2.4	EPA 6010B	05/07/2007 5:00 PM	Approved
Manganese	**3.6**	mg/L	0.048	0.14	EPA 6010B	05/07/2007 5:00 PM	Approved
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A	05/08/2007 4:00 PM	Approved

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J = Other QC criteria not met (see comments)

NA = Not applicable

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DIVISION OF ENVIRONMENTAL ANALYSIS
WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan
Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#: 2007147-024 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:40 AM
Sample Field ID#: WT1 A **Locator:** East Wetland 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Selenium	**0.0068 M**	mg/L	0.0032	0.0096	EPA 6020B	05/09/2007 2:00 PM	Approved
Silver	ND J	mg/L	0.080	0.24	EPA 6010B	05/07/2007 5:00 PM	Approved
Silver results qualified. Low recovery on LFM.							
Sodium	ND	mg/L	1.6	4.8	EPA 6010B	05/07/2007 5:00 PM	Approved
Zinc	ND	mg/L	0.072	0.22	EPA 6010B	05/07/2007 5:00 PM	Approved

Sample Lab ID#: 2007147-025 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:30 AM
Sample Field ID#: WT1 D **Locator:** East Wetland 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Alkalinity	**1300**	mg/L as CaCO3	2	2	SM 2320 B	05/04/2007 12:00 PM	Approved
Chloride	**230**	mg/L	0.030	0.090	EPA 300.0	05/07/2007 5:30 PM	Approved
Spec Cond	**3200**	umhos/cm	0.23	0.69	SM 2510 B	05/07/2007 3:00 PM	Approved
Sulfate	**470**	mg/L	0.12	0.36	EPA 300.0	05/07/2007 5:30 PM	Approved

Sample Lab ID#: 2007147-026 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 5/3/2007 10:45 AM
Sample Field ID#: WT1 E1 & E2 **Locator:** East Wetland 1 **Collector:** Hart, E. **Receive Date:** 5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Surrogate			Acceptance Criteria				
Dibromofluoromethane	106	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene-d8	112	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
4-bromofluorobenzene	106	% Recovery	70 - 130		EPA 8260B	05/04/2007 12:00 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloromethane	**13**	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Vinyl chloride	ND	ug/L	0.23	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

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J = Other QC criteria not met (see comments)
NA = Not applicable

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EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-026	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:45 AM
Sample Field ID#:	WT1 E1 & E2	**Locator:**	East Wetland 1	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Bromomethane	ND	ug/L	0.46	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroethane	ND	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Acetone	**63 J**	ug/L	10	50	EPA 8260B	05/04/2007 12:00 PM	Approved
J = Acetone did not meet calibration check or LCS criteria. Result qualified.							
Trichlorofluoromethane	**NA**	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Compound not analyzed with calibration standards.							
1,1-Dichloroethene	ND	ug/L	0.49	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon disulfide	**1.1 M**	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Methylene chloride	ND	ug/L	0.24	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Methyl-t-butyl ether	**0.94 M**	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloroethane	ND	ug/L	0.49	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
MEK	ND	ug/L	4.6	20	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobromomethane	ND	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
2,2-Dichloropropane	ND	ug/L	0.52	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,2-Dichloroethene	ND	ug/L	0.43	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Benzene	ND	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Trichloroethene	**0.58 M**	ug/L	0.20	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

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WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007147

Prepared For: NERO BUREAU OF WASTE PREVENTION
Contact: John Carrigan

Project Name: Crow Lane Landfill-Newburyport
Project Coordinator: John Carrigan

Sample Lab ID#:	2007147-026	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	5/3/2007 10:45 AM
Sample Field ID#:	WT1 E1 & E2	**Locator:**	East Wetland 1	**Collector:**	Hart, E.	**Receive Date:**	5/3/2007 2:40 PM

Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
MIBK	**9.4 M**	ug/L	2.1	20	EPA 8260B	05/04/2007 12:00 PM	Approved
Toluene	**6.4**	ug/L	0.29	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Tetrachloroethene	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Dibromochloromethane	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Chlorobenzene	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Ethylbenzene	**0.30 M**	ug/L	0.17	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
p,m-xylene	**0.83 M**	ug/L	0.49	4.0	EPA 8260B	05/04/2007 12:00 PM	Approved
o-Xylene	**0.44 M**	ug/L	0.27	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromoform	ND	ug/L	0.35	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Isopropylbenzene	ND	ug/L	0.20	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
Bromobenzene	ND	ug/L	0.22	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
n-Propylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 8260B	05/04/2007 12:00 PM	Approved

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