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

Analysis Report for Login Batch: 2007402

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

Sample Lab ID#:	2007402-001	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	10/16/2007 1:20 PM
Sample Field ID#:	LT-1A	**Locator:**	Leachate Tank 1	**Collector:**	Hart, E.	**Receive Date:**	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Ammonia-N	**0.56**	mg/L	0.020	0.060	EPA 350.1	10/18/2007 10:21 AM	Approved
COD	**24 M**	mg/L	17	51	SM 5220 C	10/25/2007 12:00 PM	Approved
Nitrate/Nitrite-N	**Not Reported**	mg/L	0.02	0.06	EPA 353.1	10/18/2007 12:07 PM	Approved

Method not applicable to sample matrix.

Sample Lab ID#:	2007402-002	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	10/16/2007 1:20 PM
Sample Field ID#:	LT-1B	**Locator:**	Leachate Tank 1	**Collector:**	Hart, E.	**Receive Date:**	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Arsenic	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Barium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Cadmium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Calcium	**160**	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved
Chromium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Copper	ND	mg/L	0.40	1.2	EPA 6010B	12/11/2007 12:00 PM	Approved
Hardness	**460**	mg/L as CaCO3	0.66	2.0	SM 2340 B	12/11/2007 12:00 PM	Approved
Iron	**2.4**	mg/L	0.15	0.46	EPA 6010B	12/11/2007 12:00 PM	Approved
Lead	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Magnesium	**12**	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved
Manganese	**0.40**	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A	10/30/2007 4:00 PM	Approved
Selenium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Silver	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Sodium	ND	mg/L	1.6	4.8	EPA 6010B	12/11/2007 12:00 PM	Approved
Zinc	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

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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Contact: John Carrigan

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

Sample Lab ID#: 2007402-003 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1C **Locator:** Leachate Tank 1 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Total Cyanide	ND	mg/L	0.050	0.15	SM 4500-CN C E	10/24/2007 12:00 PM	Approved

Sample Lab ID#: 2007402-004 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1D **Locator:** Leachate Tank 1 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Alkalinity	**110**	mg/L as CaCO3	2	2	SM 2320 B	10/22/2007 12:00 PM	Approved
Chloride	**5.9**	mg/L	0.10	0.30	EPA 300.0	11/13/2007 3:00 PM	Approved
Spec Cond	**820**	umhos/cm	0.23	0.69	SM 2510 B	10/29/2007 12:00 PM	Approved
Sulfate	**400**	mg/L	0.12	0.36	EPA 300.0	11/13/2007 3:30 PM	Approved

Sample Lab ID#: 2007402-005 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1E **Locator:** Leachate Tank 1 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			Acceptance Criteria				
Dibromofluoromethane	84	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
Toluene-d8	88	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
4-bromofluorobenzene	94	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloromethane	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Vinyl chloride	ND	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromomethane	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroethane	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Acetone	ND J	ug/L	10	50	EPA 8260B	10/01/2007 12:44 PM	Approved

J = Accuracy data outside of acceptance criteria in MS.

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Estimated Value:
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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
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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#: 2007402-005	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1E	**Locator:** Leachate Tank 1	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Trichlorofluoromethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Not Analyzed							
1,1-Dichloroethene	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon disulfide	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methylene chloride	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methyl-t-butyl ether	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloroethane	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MEK	ND	ug/L	4.6	20	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobromomethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2,2-Dichloropropane	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,2-Dichloroethene	ND	ug/L	0.43	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Benzene	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Trichloroethene	ND	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MIBK	ND	ug/L	2.1	20	EPA 8260B	10/01/2007 12:44 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#: 2007402-005	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1E	**Locator:** Leachate Tank 1	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Toluene	ND	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Tetrachloroethene	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dibromochloromethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Ethylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
p,m-xylene	ND	ug/L	0.49	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
o-Xylene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromoform	ND	ug/L	0.35	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Isopropylbenzene	ND	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Propylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3,5-Trimethylbenzene	ND	ug/L	0.13	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
tert-Butylbenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trimethylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
sec-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

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Project Name: Crow Lane Landfill-Newburyport
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Sample Lab ID#: 2007402-005	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1E	**Locator:** Leachate Tank 1	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
1,3-Dichlorobenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Isopropyltoluene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	0.28	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	0.75	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Hexachlorobutadiene	ND	ug/L	0.84	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Naphthalene	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

Sample Lab ID#: 2007402-006	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1F	**Locator:** Leachate Tank 1	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
4-bromofluorobenzene	129	% Recovery	70 - 130		Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,2-dichlorobenzene-D4	129	% Recovery	70 - 130		Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,4-Dioxane	ND	ug/L		2.0	Modified EPA 524.2	10/30/2007 12:57 PM	Approved

Sample Lab ID#: 2007402-007	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1G	**Locator:** Leachate Tank 1	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
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Contact: John Carrigan

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

Sample Lab ID#: 2007402-007	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1G	**Locator:** Leachate Tank 1	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
2-Fluorophenol	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
Phenol-D6	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
2-Fluorobiphenyl	120	% Recovery	30 - 130		EPA 8270C	10/26/2007 12:54 PM	Approved
Tribromophenol	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
4-Terphenyl-D14	88	% Recovery	30 - 130		EPA 8270C	10/26/2007 12:54 PM	Approved
Phenol	ND	ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
2-Chlorophenol	ND	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
NDPA	ND	ug/L	1.8	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
2-Nitrophenol	ND	ug/L	0.81	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Dichlorophenol	ND	ug/L	0.84	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Naphthalene	ND	ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
4-Chloro-3-methylphenol	ND	ug/L	1.1	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Hexachlorcyclopentadienne	ND J	ug/L		5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.							
Trichlorophenol	ND	ug/L	0.73	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							

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LRB = Laboratory Reagent Blank
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Project Name: Crow Lane Landfill-Newburyport
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Sample Lab ID#:	2007402-007	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	10/16/2007 1:20 PM
Sample Field ID#:	LT-1G	**Locator:**	Leachate Tank 1	**Collector:**	Hart, E.	**Receive Date:**	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Dimethyl phthalate	ND J	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.							
Acenaphthylene	ND	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Acenaphthene	ND	ug/L	0.46	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
2,4-Dinitrophenol	ND	ug/L	3.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
4-Nitrophenol	ND	ug/L	1.5	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Fluorene	ND	ug/L	0.52	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Diethylphthalate	ND	ug/L	1.6	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Pentachlorophenol	ND	ug/L	0.97	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Phenanthrene	ND	ug/L	0.39	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Anthracene	ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibutylphthalate	19 J	ug/L	0.87	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (MS) outside of acceptance criteria.							
Fluoranthene	ND	ug/L	0.77	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Pyrene	ND	ug/L	0.69	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Butylbenzylphthalate	ND	ug/L	0.94	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)adipate	ND	ug/L	0.86	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(a)anthracene	ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Chrysene	ND	ug/L	0.61	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)phthalate	ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(b)fluoranthene	ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(k)fluoranthene	ND	ug/L	0.31	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

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: 2007402

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

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

Sample Lab ID#: 2007402-007 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:20 PM
Sample Field ID#: LT-1G **Locator:** Leachate Tank 1 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Benzo(a)pyrene	ND	ug/L	1.2	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibenzo(ah)anthracene	ND	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(ghi)perylene	ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved

Only PAHs analysis requested.

Sample Lab ID#: 2007402-008 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2A **Locator:** Leachate Tank 2 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Ammonia-N	1.1	mg/L	0.020	0.060	EPA 350.1	10/18/2007 10:21 AM	Approved
COD	ND	mg/L	17	51	SM 5220 C	10/25/2007 12:00 PM	Approved
Nitrate/Nitrite-N	Not Reported	mg/L	0.02	0.06	EPA 353.1	10/18/2007 12:07 PM	Approved

Method not applicable to sample matrix.

Sample Lab ID#: 2007402-009 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2B **Locator:** Leachate Tank 2 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Arsenic	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Barium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Cadmium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Calcium	97	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved
Chromium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Copper	ND	mg/L	0.40	1.2	EPA 6010B	12/11/2007 12:00 PM	Approved
Hardness	290	mg/L as CaCO3	0.66	2.0	SM 2340 B	12/11/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

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: 2007402

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

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

Sample Lab ID#: 2007402-009 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2B **Locator:** Leachate Tank 2 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Iron	**12**	mg/L	0.15	0.46	EPA 6010B	12/11/2007 12:00 PM	Approved
Lead	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Magnesium	**12**	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved
Manganese	**0.45**	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A	10/30/2007 4:00 PM	Approved
Selenium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Silver	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Sodium	ND	mg/L	1.6	4.8	EPA 6010B	12/11/2007 12:00 PM	Approved
Zinc	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved

Sample Lab ID#: 2007402-010 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2C **Locator:** Leachate Tank 2 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Alkalinity	**130**	mg/L as CaCO3	2	2	SM 2320 B	10/22/2007 12:00 PM	Approved
Chloride	**7.3**	mg/L	0.10	0.30	EPA 300.0	11/13/2007 3:00 PM	Approved
Spec Cond	**550**	umhos/cm	0.23	0.69	SM 2510 B	10/29/2007 12:00 PM	Approved
Sulfate	**180**	mg/L	0.12	0.36	EPA 300.0	11/13/2007 3:30 PM	Approved

Sample Lab ID#: 2007402-011 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2D **Locator:** Leachate Tank 2 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Total Cyanide	ND	mg/L	0.050	0.15	SM 4500-CN C E	10/24/2007 12:00 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

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

Analysis Report for Login Batch: 2007402

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

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

Sample Lab ID#:	2007402-012	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	10/16/2007 1:35 PM
Sample Field ID#:	LT-2E	**Locator:**	Leachate Tank 2	**Collector:**	Hart, E.	**Receive Date:**	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			Acceptance Criteria				
Dibromofluoromethane	99	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
Toluene-d8	102	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
4-bromofluorobenzene	103	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloromethane	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Vinyl chloride	ND	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromomethane	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroethane	4.9	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Acetone	ND J	ug/L	10	50	EPA 8260B	10/01/2007 12:44 PM	Approved
J = Accuracy data outside of acceptance criteria in MS.							
Trichlorofluoromethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Not Analyzed							
1,1-Dichloroethene	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon disulfide	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methylene chloride	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methyl-t-butyl ether	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloroethane	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MEK	ND	ug/L	4.6	20	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobromomethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2,2-Dichloropropane	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,2-Dichloroethene	ND	ug/L	0.43	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

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

Analysis Report for Login Batch: 2007402

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

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

Sample Lab ID#:	2007402-012	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	10/16/2007 1:35 PM
Sample Field ID#:	LT-2E	**Locator:**	Leachate Tank 2	**Collector:**	Hart, E.	**Receive Date:**	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Benzene	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Trichloroethene	ND	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MIBK	ND	ug/L	2.1	20	EPA 8260B	10/01/2007 12:44 PM	Approved
Toluene	ND	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Tetrachloroethene	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dibromochloromethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Ethylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
p,m-xylene	ND	ug/L	0.49	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
o-Xylene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromoform	ND	ug/L	0.35	2.0	EPA 8260B	10/01/2007 12:44 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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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

MRL = Minimum Reporting Limit

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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
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WILLIAM X. WALL EXPERIMENT STATION
EPA #: MA00019

Analysis Report for Login Batch: 2007402

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

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

Sample Lab ID#: 2007402-012	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2E	**Locator:** Leachate Tank 2	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Isopropylbenzene	ND	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Propylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3,5-Trimethylbenzene	ND	ug/L	0.13	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
tert-Butylbenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trimethylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
sec-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3-Dichlorobenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Isopropyltoluene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	0.28	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	0.75	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Hexachlorobutadiene	ND	ug/L	0.84	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Naphthalene	**0.66 M**	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

Sample Lab ID#: 2007402-013	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2F	**Locator:** Leachate Tank 2	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

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

Analysis Report for Login Batch: 2007402

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

Sample Lab ID#:	2007402-013	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 1:35 PM
Sample Field ID#:	LT-2F	Locator:	Leachate Tank 2	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			Acceptance Criteria				
4-bromofluorobenzene	116	% Recovery	70 - 130		Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,2-dichlorobenzene-D4	112	% Recovery	70 - 130		Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,4-Dioxane	ND	ug/L		2.0	Modified EPA 524.2	10/30/2007 12:57 PM	Approved

Sample Lab ID#:	2007402-014	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 1:35 PM
Sample Field ID#:	LT-2G	Locator:	Leachate Tank 2	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			Acceptance Criteria				
2-Fluorophenol	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
Phenol-D6	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
2-Fluorobiphenyl	141	% Recovery	30 - 130		EPA 8270C	10/26/2007 12:54 PM	Approved
Surrogate recovery acceptable for detecting contaminants in sample.							
Tribromophenol	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
4-Terphenyl-D14	102	% Recovery	30 - 130		EPA 8270C	10/26/2007 12:54 PM	Approved
Phenol	ND	ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
2-Chlorophenol	ND	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
NDPA	ND	ug/L	1.8	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
2-Nitrophenol	ND	ug/L	0.81	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
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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: 2007402

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

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

Sample Lab ID#:	2007402-014	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	10/16/2007 1:35 PM
Sample Field ID#:	LT-2G	**Locator:**	Leachate Tank 2	**Collector:**	Hart, E.	**Receive Date:**	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Dichlorophenol	ND	ug/L	0.84	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Naphthalene	ND	ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
4-Chloro-3-methylphenol	ND	ug/L	1.1	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Hexachlorcyclopentadienne	ND J	ug/L		5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.							
Trichlorophenol	ND	ug/L	0.73	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Dimethyl phthalate	ND J	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.							
Acenaphthylene	ND	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Acenaphthene	ND	ug/L	0.46	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
2,4-Dinitrophenol	ND	ug/L	3.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
4-Nitrophenol	ND	ug/L	1.5	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Fluorene	**0.79 M**	ug/L	0.52	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Diethylphthalate	ND	ug/L	1.6	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Pentachlorophenol	ND	ug/L	0.97	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Phenanthrene	ND	ug/L	0.39	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Anthracene	ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibutylphthalate	**20 J**	ug/L	0.87	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (MS) outside of acceptance criteria.							

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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: 2007402

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

Sample Lab ID#: 2007402-014 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 1:35 PM
Sample Field ID#: LT-2G **Locator:** Leachate Tank 2 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Fluoranthene	ND	ug/L	0.77	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Pyrene	1.3 M	ug/L	0.69	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Butylbenzylphthalate	ND	ug/L	0.94	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)adipate	ND	ug/L	0.86	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(a)anthracene	ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Chrysene	ND	ug/L	0.61	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)phthalate	ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(b)fluoranthene	ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(k)fluoranthene	ND	ug/L	0.31	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(a)pyrene	ND	ug/L	1.2	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibenzo(ah)anthracene	ND	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(ghi)perylene	ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved

Only PAHs analysis requested.

Sample Lab ID#: 2007402-015 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 2:00 PM
Sample Field ID#: LT-5A **Locator:** Leachate Tank 5 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Ammonia-N	8.0	mg/L	0.020	0.060	EPA 350.1	10/18/2007 10:21 AM	Approved
COD	160	mg/L	17	51	SM 5220 C	10/25/2007 12:00 PM	Approved
Nitrate/Nitrite-N	Not Reported	mg/L	0.02	0.06	EPA 353.1	10/18/2007 12:07 PM	Approved

Method not applicable to sample matrix.

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Estimated Value:
M = Analyte concentration > MDL but < MRL
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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MDL = Method Detection Limit
MRL = Minimum Reporting Limit

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LB = Laboratory Blank (equiv. Method Blank)
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LFM = Laboratory Fortified Sample Matrix (equiv. MS)
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EPA #: MA00019

Analysis Report for Login Batch: 2007402

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

Sample Lab ID#:	2007402-022	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 2:30 PM
Sample Field ID#:	LT-3A	Locator:	Leachate Tank 3	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Nitrate/Nitrite-N	Not Reported	mg/L	0.02	0.06	EPA 353.1	10/18/2007 12:07 PM	Approved

Method not applicable to sample matrix.

Sample Lab ID#:	2007402-023	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 2:30 PM
Sample Field ID#:	LT-3B	Locator:	Leachate Tank 3	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Alkalinity	510	mg/L as CaCO3	2	2	SM 2320 B	10/22/2007 12:00 PM	Approved
Chloride	37	mg/L	0.10	0.30	EPA 300.0	11/13/2007 3:00 PM	Approved
Spec Cond	1400	umhos/cm	0.23	0.69	SM 2510 B	10/29/2007 12:00 PM	Approved
Sulfate	390	mg/L	0.12	0.36	EPA 300.0	11/13/2007 3:30 PM	Approved

Sample Lab ID#:	2007402-024	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 2:30 PM
Sample Field ID#:	LT-3C	Locator:	Leachate Tank 3	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Arsenic	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Barium	0.098 M	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Cadmium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Calcium	410	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved
Chromium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Copper	ND	mg/L	0.40	1.2	EPA 6010B	12/11/2007 12:00 PM	Approved
Hardness	1300	mg/L as CaCO3	0.66	2.0	SM 2340 B	12/11/2007 12:00 PM	Approved
Iron	1.2	mg/L	0.15	0.46	EPA 6010B	12/11/2007 12:00 PM	Approved
Lead	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Magnesium	72	mg/L	0.80	2.4	EPA 6010B	12/11/2007 12:00 PM	Approved

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

NA = Not applicable

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N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation
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MDL = Method Detection Limit
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LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab) - acceptance limits as per method or interlaboratory proficiency study

Analysis Report for Login Batch: 2007402

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

Sample Lab ID#: 2007402-024 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3C **Locator:** Leachate Tank 3 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Manganese	0.43	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Mercury	ND	mg/L	0.0002	0.0006	EPA 7470A	10/30/2007 4:00 PM	Approved
Selenium	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Silver	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved
Sodium	ND	mg/L	1.6	4.8	EPA 6010B	12/11/2007 12:00 PM	Approved
Zinc	ND	mg/L	0.080	0.24	EPA 6010B	12/11/2007 12:00 PM	Approved

Sample Lab ID#: 2007402-025 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3D **Locator:** Leachate Tank 3 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Total Cyanide	ND	mg/L	0.050	0.15	SM 4500-CN C E	10/24/2007 12:00 PM	Approved

Sample Lab ID#: 2007402-026 **Site:** Crow Lane Landfill **Matrix:** LL **Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3E **Locator:** Leachate Tank 3 **Collector:** Hart, E. **Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
Dibromofluoromethane	89	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
Toluene-d8	105	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
4-bromofluorobenzene	99	% Recovery	70 - 130		EPA 8260B	10/01/2007 12:44 PM	Approved
Dichlorodifluoromethane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloromethane	4.2 J	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
J = Accuracy data outside of acceptance criteria in MS.							
Vinyl chloride	ND	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromomethane	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
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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
MRL = Minimum Reporting Limit

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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

Analysis Report for Login Batch: 2007402

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

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

Sample Lab ID#: 2007402-026	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3E	**Locator:** Leachate Tank 3	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Chloroethane	**0.62 M**	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Acetone	ND J	ug/L	10	50	EPA 8260B	10/01/2007 12:44 PM	Approved
J = Accuracy data outside of acceptance criteria in MS.							
Trichlorofluoromethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Not Analyzed							
1,1-Dichloroethene	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon disulfide	**2.0 M**	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methylene chloride	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Freon-113	ND	ug/L	0.46	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,2-Dichloroethene	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Methyl-t-butyl ether	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloroethane	ND	ug/L	0.49	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MEK	ND	ug/L	4.6	20	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobromomethane	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2,2-Dichloropropane	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,2-Dichloroethene	ND	ug/L	0.43	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chloroform	ND	ug/L	0.41	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,1-Trichloroethane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Carbon tetrachloride	ND	ug/L	0.25	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1-Dichloropropene	ND	ug/L	0.23	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Benzene	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloroethane	ND	ug/L	0.34	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Trichloroethene	**0.34 M**	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichloropropane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dibromomethane	ND	ug/L	0.32	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

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Analysis Report for Login Batch: 2007402

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

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

Sample Lab ID#: 2007402-026	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3E	**Locator:** Leachate Tank 3	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Bromodichloromethane	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
cis-1,3-Dichloropropene	ND	ug/L	0.40	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
MIBK	ND	ug/L	2.1	20	EPA 8260B	10/01/2007 12:44 PM	Approved
Toluene	**1.4 M**	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
trans-1,3-Dichloropropene	ND	ug/L	0.44	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2-Trichloroethane	ND	ug/L	0.24	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Tetrachloroethene	**0.32 M**	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3-Dichloropropane	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Dibromochloromethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromoethane	ND	ug/L	0.30	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Chlorobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,1,2-Tetrachloroethane	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Ethylbenzene	**0.42 M**	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
p,m-xylene	**1.3 M**	ug/L	0.49	4.0	EPA 8260B	10/01/2007 12:44 PM	Approved
o-Xylene	**0.93 M**	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Styrene	ND	ug/L	0.16	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromoform	ND	ug/L	0.35	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Isopropylbenzene	ND	ug/L	0.20	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Bromobenzene	ND	ug/L	0.22	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,1,2,2-Tetrachloroethane	ND	ug/L	0.26	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichloropropane	ND	ug/L	0.37	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Propylbenzene	ND	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
2-Chlorotoluene	ND	ug/L	0.070	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Chlorotoluene	ND	ug/L	0.33	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3,5-Trimethylbenzene	**1.5 M**	ug/L	0.13	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

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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

Analysis Report for Login Batch: 2007402

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

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

Sample Lab ID#: 2007402-026	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3E	**Locator:** Leachate Tank 3	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
tert-Butylbenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trimethylbenzene	**3.5**	ug/L	0.14	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
sec-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,3-Dichlorobenzene	ND	ug/L	0.18	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
4-Isopropyltoluene	**1.0 M**	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,4-Dichlorobenzene	ND	ug/L	0.28	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dichlorobenzene	ND	ug/L	0.29	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
n-Butylbenzene	ND	ug/L	0.17	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2-Dibromo-3-chloropropane	ND	ug/L	0.75	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,4-Trichlorobenzene	ND	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Hexachlorobutadiene	ND	ug/L	0.84	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
Naphthalene	**1.2 M**	ug/L	0.52	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved
1,2,3-Trichlorobenzene	ND	ug/L	0.27	2.0	EPA 8260B	10/01/2007 12:44 PM	Approved

N = Dichlorofluoromethane, propanethiol, methylthio propane, ethyl methyl benzene, 1,2,3-trimethyl benzene, methyl propyl benzene, methyl-methyl benzene.

Sample Lab ID#: 2007402-027	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3F	**Locator:** Leachate Tank 3	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
4-bromofluorobenzene	113	% Recovery	70 - 130		Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,2-dichlorobenzene-D4	119	% Recovery	70 - 130		Modified EPA 524.2	10/30/2007 12:57 PM	Approved
1,4-Dioxane	ND	ug/L		2.0	Modified EPA 524.2	10/30/2007 12:57 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)

Estimated Value:
- M = Analyte concentration > MDL but < MRL
- 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

MRL = Minimum Reporting Limit

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: 2007402

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

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

Sample Lab ID#:	2007402-028	**Site:**	Crow Lane Landfill	**Matrix:**	LL	**Collect Date:**	10/16/2007 2:30 PM
Sample Field ID#:	LT-3G	**Locator:**	Leachate Tank 3	**Collector:**	Hart, E.	**Receive Date:**	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Surrogate			**Acceptance Criteria**				
2-Fluorophenol	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
Phenol-D6	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
2-Fluorobiphenyl	76	% Recovery	30 - 130		EPA 8270C	10/26/2007 12:54 PM	Approved
Tribromophenol	0.0	% Recovery	15 - 110		EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed							
4-Terphenyl-D14	112	% Recovery	30 - 130		EPA 8270C	10/26/2007 12:54 PM	Approved
Phenol	ND	ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
2-Chlorophenol	ND	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
NDPA	ND	ug/L	1.8	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
2-Nitrophenol	ND	ug/L	0.81	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Dichlorophenol	ND	ug/L	0.84	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Naphthalene	**2.3 M**	ug/L	0.29	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
4-Chloro-3-methylphenol	ND	ug/L	1.1	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Hexachlorcyclopentadienne	ND J	ug/L		5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.							
Trichlorophenol	ND	ug/L	0.73	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

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

Analysis Report for Login Batch: 2007402

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

Sample Lab ID#: 2007402-028	**Site:** Crow Lane Landfill	**Matrix:** LL	**Collect Date:** 10/16/2007 2:30 PM
Sample Field ID#: LT-3G	**Locator:** Leachate Tank 3	**Collector:** Hart, E.	**Receive Date:** 10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Dimethyl phthalate	ND J	ug/L	1.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (LCS & MS) outside of acceptance criteria.							
Acenaphthylene	**2.3 M**	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Acenaphthene	ND	ug/L	0.46	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
2,4-Dinitrophenol	ND	ug/L	3.0	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
4-Nitrophenol	ND	ug/L	1.5	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Fluorene	**1.0 M**	ug/L	0.52	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Diethylphthalate	ND	ug/L	1.6	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Pentachlorophenol	ND	ug/L	0.97	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Not Analyzed.							
Phenanthrene	**1.8 M**	ug/L	0.39	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Anthracene	ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibutylphthalate	**22 J**	ug/L	0.87	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
J = Accuracy data (MS) outside of acceptance criteria.							
Fluoranthene	ND	ug/L	0.77	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Pyrene	ND	ug/L	0.69	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Butylbenzylphthalate	ND	ug/L	0.94	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)adipate	ND	ug/L	0.86	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(a)anthracene	ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Chrysene	ND	ug/L	0.61	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Bis(2-ethylhexyl)phthalate	ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(b)fluoranthene	ND	ug/L	1.3	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(k)fluoranthene	ND	ug/L	0.31	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
MRL = Minimum Reporting Limit

LRB = Laboratory Reagent Blank
LB = Laboratory Blank (equiv. Method Blank)
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Analysis Report for Login Batch: 2007402

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

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

Sample Lab ID#:	2007402-028	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 2:30 PM
Sample Field ID#:	LT-3G	Locator:	Leachate Tank 3	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Benzo(a)pyrene	ND	ug/L	1.2	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.54	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Dibenzo(ah)anthracene	ND	ug/L	0.63	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved
Benzo(ghi)perylene	ND	ug/L	0.48	5.0	EPA 8270C	10/26/2007 12:54 PM	Approved

Only PAHs analysis requested. N= Cyclic octaatomic sulfur.

Sample Lab ID#:	2007402-029	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 3:00 PM
Sample Field ID#:	LT-4A	Locator:	Leachate Tank 4	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Ammonia-N	570	mg/L	0.020	0.060	EPA 350.1	10/18/2007 10:21 AM	Approved
COD	280	mg/L	17	51	SM 5220 C	10/25/2007 12:00 PM	Approved
Nitrate/Nitrite-N	Not Reported	mg/L	0.02	0.06	EPA 353.1	10/18/2007 12:07 PM	Approved

Method not applicable to method matrix.

Sample Lab ID#:	2007402-030	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 3:00 PM
Sample Field ID#:	LT-4B	Locator:	Leachate Tank 4	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

Analyte/Compound	Result	Units	MDL	MRL	Method	Analysis Date	Status
Alkalinity	2200	mg/L as CaCO3	2	2	SM 2320 B	10/22/2007 12:00 PM	Approved
Chloride	440	mg/L	0.10	0.30	EPA 300.0	11/13/2007 3:00 PM	Approved
Spec Cond	5200	umhos/cm	0.23	0.69	SM 2510 B	10/29/2007 12:00 PM	Approved
Sulfate	180	mg/L	0.12	0.36	EPA 300.0	11/13/2007 3:30 PM	Approved

Sample Lab ID#:	2007402-031	Site:	Crow Lane Landfill	Matrix:	LL	Collect Date:	10/16/2007 3:00 PM
Sample Field ID#:	LT-4C	Locator:	Leachate Tank 4	Collector:	Hart, E.	Receive Date:	10/16/2007 5:25 PM

ND = Analyzed for, but not detected above MDL (equiv. U)
Estimated Value:
M = Analyte concentration > MDL but < MRL
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
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LRB = Laboratory Reagent Blank
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