



Report To: Remediation and Redevelopmen
10650 Bennett Drive
Morrice, MI 48857-9792

Lab Work Order # 0210139

Work Site ID: LINDEN RD. LANDFILL

Matrix: Water

Received: 10/22/2002

Reported: 11/6/2002

Client: RRD SHIAWASE

Number of Samples: 1

Attn: JAMES INNES

Total: \$150.00

This is an original report:

Deb Scott

Date: _____

*Copies faxed to
Bob Metcalf, GM
Babu, Weston
on 11-8-02
JI*



**MDEQ ENVIRONMENTAL LABORATORY
ANALYTICAL REPORT**

Work Order #: 0210139-01POX

Date Collected: 10/22/2002	Test Code: WPS
Date Analyzed: 10/31/2002 by PCR	Test Name: 8260 Plus - Water
	Sample ID: MW-03S

CAS #	COMPOUND	RESULTS ug/L	REMARK	REPORTING LIMIT	DILUTION FACTOR
75-71-8	Dichlorodifluoromethane	ND		5.0	1
74-87-3	Chloromethane	ND		5.0	1
75-01-4	Vinyl chloride	15		1.0	1
74-83-9	Bromomethane	ND		5.0	1
75-00-3	Chloroethane	ND		5.0	1
75-69-4	Trichlorofluoromethane	ND		1.0	1
67-64-1	Acetone	ND		20	1
60-29-7	Diethyl ether	ND		5.0	1
75-35-4	1,1-Dichloroethylene	ND		1.0	1
74-88-4	Methyl iodide	ND		1.0	1
107-13-1	Acrylonitrile	ND		5.0	1
75-09-2	Methylene chloride	ND		5.0	1
75-15-0	Carbon disulfide	ND		1.0	1
156-60-5	trans-1,2-Dichloroethylene	1.7		1.0	1
1634-04-4	Methyltertbutylether (MTBE)	ND		1.0	1
75-34-3	1,1-Dichloroethane	13		1.0	1
78-93-3	2-Butanone (MEK)	ND		5.0	1
156-59-2	cis-1,2-Dichloroethylene	22		1.0	1
67-66-3	Chloroform	ND		1.0	1
109-99-9	Tetrahydrofuran	ND		5.0	1
74-97-5	Bromochloromethane	ND		1.0	1
71-55-6	1,1,1-Trichloroethane	ND		1.0	1
107-06-2	1,2-Dichloroethane	ND		1.0	1
71-43-2	Benzene	ND		1.0	1
56-23-5	Carbon tetrachloride	ND		1.0	1
78-87-5	1,2-Dichloropropane	ND		1.0	1
79-01-6	Trichloroethylene	ND		1.0	1
74-95-3	Dibromomethane	ND		1.0	1
75-27-4	Bromodichloromethane	ND		1.0	1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	1
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	1
108-88-3	Toluene	ND		1.0	1
79-00-5	1,1,2-Trichloroethane	ND		1.0	1
591-78-6	2-Hexanone	ND		5.0	1

**MDEQ ENVIRONMENTAL LABORATORY
ANALYTICAL REPORT**

CAS #	COMPOUND	RESULTS ug/L	REMARK	REPORTING LIMIT	DILUTION FACTOR
124-48-1	Dibromochloromethane	ND		1.0	1
106-93-4	1,2-Dibromoethane	ND		1.0	1
127-18-4	Tetrachloroethene	ND		1.0	1
108-90-7	Chlorobenzene	ND		1.0	1
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	1
100-41-4	Ethylbenzene	ND		1.0	1
108383,106423	m & p-Xylene	ND		2.0	1
75-25-2	Bromoform	ND		1.0	1
100-42-5	Styrene	ND		1.0	1
95-47-6	o-Xylene	ND		1.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	1
96-18-4	1,2,3-Trichloropropane	ND		1.0	1
110-57-6	trans-1,4-Dichloro-2-butene	ND		5.0	1
98-82-8	Isopropylbenzene	ND		1.0	1
108-86-1	Bromobenzene	ND		1.0	1
103-65-1	n-Propylbenzene	ND		1.0	1
108-67-8	1,3,5-Trimethylbenzene	ND		1.0	1
98-06-6	tert-Butylbenzene	ND		1.0	1
95-63-6	1,2,4-Trimethylbenzene	ND		1.0	1
135-98-8	sec-Butylbenzene	ND		1.0	1
541-73-1	1,3-Dichlorobenzene	ND		1.0	1
106-46-7	1,4-Dichlorobenzene	ND		1.0	1
99-87-6	p-Isopropyl toluene	ND		1.0	1
95-50-1	1,2-Dichlorobenzene	ND		1.0	1
104-51-8	n-Butylbenzene	ND		1.0	1
67-72-1	Hexachloroethane	ND		5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ND		5.0	1
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	1
91-20-3	Naphthalene	ND		5.0	1
87-61-6	1,2,3-Trichlorobenzene	ND		5.0	1
91-57-6	2-Methylnaphthalene	ND		5.0	1

ND = not detected at the specified reporting limit. NM = not measured.

Reference method is 8260/624.

USEPA Methods 8260 and 624 are used to quantitate volatile organic compounds that have boiling points below 200°C.

2-Methylnaphthalene and naphthalene are compounds with boiling points above 200°C and are better suited to quantitation by USEPA Methods 8270 or 625 as semivolatile organic compounds.

DEQ

MICHIGAN DEPT. OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY
ANALYSIS REQUEST SHEET

White

LAB ORDER # 02-10-139

SUBMITTER DIVISION: ERD Shiawassee; DISTRICT OR OFFICE: Jones; MDEQ PROJECT MANAGER & PHONE: 517-625-4693; MATRIX=WATER; ACCEPT HT CODES? YES/NO

LOCATION SAMPLED / SITE ID NUMBER: Linden Rd Landfill 25000016; INDEX: 47971; PCA: 30719; PROJECT: 452223; PH: 65

COLLECTED BY: Jones; PHONE: 517-625-4693

OVERFLOW CONTRACT LAB (Required for ERD & CMI) 1ST CHOICE: Trace; 2ND CHOICE: ; PRIMARY CONTACT & PHONE: ; ADDITIONAL REPORT TO ATTENTION OF: ; AT (ADDRESS) (If different than above office):

**** SAFETY INFORMATION REQUIRED ****
SEE BACK OF FORM

Table with 4 columns: LAB USE ONLY, SAMPLE IDENTIFICATION, SAMPLE COLLECTED DATE/TIME, COMMENTS. Row 1: MW-035, 10-22-02, 11:40.

ORGANIC VOLATILES (624/8260) GENERAL CHEMISTRY INORGANIC

Table listing various chemical tests and their selection status (1-10). Includes categories like DO, GN, BOD, CA, GA, S, GG, GP, GB, MA, MAD, MD, MICH TEN METALS, and OG.

Chain-of-Custody table with columns: RELEASED BY / AFFILIATION, RECEIVED BY / AFFILIATION, DATE & TIME. Includes signatures of James Jones, Kim Szwedzi, and Bryan Feldpausch.

See Safety Section "Back of Form"



MICHIGAN DEPT. OF ENVIRONMENTAL QUALITY
 ENVIRONMENTAL LABORATORY
 ANALYSIS REQUEST SHEET

SAFETY INFORMATION

(MUST BE COMPLETED PRIOR TO SAMPLE SUBMITTAL)

- 1 Are samples expected to contain cyanide (CN)? YES NO
 If yes, at what level? _____
- 2 Are samples expected to be flammable? YES NO
- 3 Are samples acidic prior to preservation (pH < 2)? YES NO
- 4 Are samples caustic prior to preservation (pH > 12)? YES NO
- 5 Are samples expected to be a Biohazard? YES NO
- 6 Are samples expected to be reactive with water or acid? YES NO
- 7 Are samples expected to be radioactive? YES NO
- 8 Are samples expected to contain dioxin? YES NO
- 9 Are samples expected to be explosive? YES NO
- 10 List additional suspected hazard information.

PRESERVATIVE TRACKING NUMBERS

BOTTLE CODE	PRESERVATIVE	PRESERVATIVE TRACKING NUMBER (FL NUMBER)	BOTTLE CODE	PRESERVATIVE	PRESERVATIVE TRACKING NUMBER (FL NUMBER)
VOA	HCl	FL -	S	ZnAC	FL -
DO	DO-1	FL -	S	NaOH	FL -
DO	DO-2	FL -	CA	MgCO ₃	FL -
DO	H ₂ SO ₄	FL -	MA/MAD	HNO ₃	FL -
GA/GG	H ₂ SO ₄	FL -	OG	H ₂ SO ₄	FL -
GB	NaOH	FL -			FL -

SUBJECT: Laboratory Result Remark Codes

EFFECTIVE DATE: May 2001

- A value reported is the mean of two or more determinations.
- C value calculated from other independent parameters.
- J estimated value or value not accurate.
- K actual value is known to be less than the value given, i.e., substance, if present, is below Reporting Limit (RL).
- L actual value is known to be greater than the value given.
- T value reported is less than Reporting Limit (RL).
- W value observed is less than lowest value reportable under "T" code.
- DL sample analyzed using a dilution(s).
- DM dilution required due to matrix problems.
- HT recommended laboratory holding time was exceeded before analysis.
- LH QC indicated possible low recovery. Actual level may be higher.
- LL QC indicated possible high recovery. Actual level may be lower.
- MM analytical method or matrix is not within SOP of this laboratory.
- NC no confirmation by a second technique.
- NH non-homogeneous sample made analysis of a representative sample questionable.
- PI possible interference may have affected the accuracy of the laboratory result.
- QC quality control problems exist.
- RB reagent blank. The level of reagent blank contamination is reported in the comment column and may be subtracted from the analyte value by the user.
- ST recommended sample collection/preservation technique not used.
- ACC laboratory accident resulted in no obtainable value.
- FCN free cyanide was not analyzed due to low level of total cyanide.
- INT interference encountered during analysis resulted in no obtainable value.
- IST improper sample collection/preservation. Sample not suitable for analysis.
- NAV requested analysis not available.
- QNS quantity not sufficient to perform requested analysis.
- STR settleable residue was not analyzed due to low suspended solids.

Approved by:


Bob Avery, Laboratory Services Section Chief 5/03/2001
Date

