MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL LABORATORY

INORGANIC CONTAMINANTS UNIT

- - - -   LOG #: 3112   - - - -

LOG # 3112	SAMPLE LOCATION	LINDEN RD. LANDFILL	MATRIX WATER
	SEND RESULTS TO	D. CUMMINS, GWQD	RECEIVED 83-10-27
	PROJECT CODE		
	LAB # 33747 TO 48	2 SAMPLES	PRIORITY III
	COMMENTS		

- - - - - 3112 -

11-08-83

MICHIGAN DEPT OF NATURAL RESOURCES --- ENVIRONMENTAL LABORATORY

INORGANIC UNIT EXAMINER.......... Nordlund

LOG NO: 3112

LAB #	PARAMETER	CODE	RESULTS	UNITS	ANALYSIS	MATRIX	RUN #
10D							
33747	CALCIUM		155.0	MG / L	TOTAL	WATER	18300
33747	CADMIUM	K	20.0	UG / L	TOTAL	WATER	00220
33747	CHROMIUM		210.0	UG / L	TOTAL	WATER	00220
33747	COPPER		150.0	UG / L	TOTAL	WATER	00220
33747	IRON		76500.0	UG / L	TOTAL	WATER	00220
33747	POTASSIUM		4.6	MG / L	TOTAL	WATER	18300
33747	MAGNESIUM		55.0	MG / L	TOTAL	WATER	18300
33747	MANGANESE		1700.0	UG / L	TOTAL	WATER	00220
33747	SODIUM		38.5	MG / L	TOTAL	WATER	18300
33747	NICKEL		140.0	UG / L	TOTAL	WATER	00220
33747	LEAD		785.0	UG / L	TOTAL	WATER	00220
33747	ZINC		54500.0	UG / L	TOTAL	WATER	00220

----- 33747 -----

LAB #	PARAMETER	CODE	RESULTS	UNITS	ANALYSIS	MATRIX	RUN #
9D							
33748	CALCIUM		53.4	MG / L	TOTAL	WATER	18300
33748	CADMIUM	K	20.0	UG / L	TOTAL	WATER	00220
33748	CHROMIUM		60.0	UG / L	TOTAL	WATER	00220
33748	COPPER		25.0	UG / L	TOTAL	WATER	00220
33748	IRON		21000.0	UG / L	TOTAL	WATER	00220
33748	POTASSIUM		3.9	MG / L	TOTAL	WATER	18300
33748	MAGNESIUM		27.0	MG / L	TOTAL	WATER	18300
33748	MANGANESE		430.0	UG / L	TOTAL	WATER	00220
33748	SODIUM		42.1	MG / L	TOTAL	WATER	18300
33748	NICKEL		60.0	UG / L	TOTAL	WATER	00220
33748	LEAD		170.0	UG / L	TOTAL	WATER	00220
33748	ZINC		7150.0	UG / L	TOTAL	WATER	00220

----- 33748 -----

----- 3112 -----

MICH DNR ENVIRONMENTAL LAB
ORGANIC RESULTS FOR LAB LOG #3112

LAB# 33747	ug/L	SCAN 1	COMMENTS
		1*1-DICHLOROETHANE	INT
	4.70	TRICHLOROETHENE	* * * *
	1.00	Detection limit this run	

LAB# 33747	ug/L	SCAN 2	COMMENTS
	5.00	Detection limit this run	

LAB# 33748	ug/L	SCAN 1	COMMENTS
		1*2-DICHLOROPROPANE	INT
		TRICHLOROETHENE	INT
	1.00	Detection limit this run	

LAB# 33748	ug/L	SCAN 2	COMMENTS
	5.00	Detection limit this run	

Unless noted above under COMMENTS, analyses were performed for all compounds on scan list 9/82.
Concentrations are rounded to 2 significant figures.

MATRIX=WATER MICHIGAN DEPT NATURAL RESOURCES ENVIRONMENTAL LABORATORY
ANALYSIS REQUEST SHEET 8/83

LAB LOG# 3112 PROJ CODE ------ COST CENTER 90126 PR II, III LOCATION SAMPLED Linden Rd LF Genesee Co

COLLECTED BY G.M. TRANSFERED TO Valocak / Mosier REC'D AT LAB SB DATE TIME 10/27/83 4:05 PM

SAMPLE REMARKS ------ SEND RESULTS TO (NAME & SECTION) D.O. Commins Lansing Dist Groundwater

LAB USE	#	FIELD ID OR DESCRIPTION	SAMPLE INFORMATION	YY/MM/DD	HH:MM
33747	01	10 D			
33748	02	9 D			
	03				
	04				
	05				
	06				
	07				
	08				
	09				
	10				

ORGANIC CONTAMINANTS III

*P01 #1 HALOCARBONS.......A 1 2 3 4 5 6 7 8 9 10
*P02 #2 AROMATIC HYDROCAR A 1 2 3 4 5 6 7 8 9 10

*OBN #3 CHLOR HYDROCARBON.A 1 2 3 4 5 6 7 8 9 10
#4 PCB & OC PEST.....A 1 2 3 4 5 6 7 8 9 10
#5 BROM HYDROCARBONS.A 1 2 3 4 5 6 7 8 9 10
#6 PHTHALATES........A 1 2 3 4 5 6 7 8 9 10
#7 PNA...............A 1 2 3 4 5 6 7 8 9 10
#9 AROMATIC AMINES...A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10

OA #8 PHENOLS...........A 1 2 3 4 5 6 7 8 9 10

OG OIL & GREASE-IR......A 1 2 3 4 5 6 7 8 9 10
OIL & GREASE-GRAV....A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10

ENVIRONMENTAL QUALITY II

DO DISSOLVED OXYGEN.....A 1 2 3 4 5 6 7 8 9 10

EN PH, CONDUCTANCE......A 1 2 3 4 5 6 7 8 9 10
ORTHO-P, NO2-,SI.....A 1 2 3 4 5 6 7 8 9 10
DIS O-P, NO2, SI.....A 1 2 3 4 5 6 7 8 9 10
CR6+ ....A 1 2 3 4 5 6 7 8 9 10
FLUORIDE.............A 1 2 3 4 5 6 7 8 9 10
CL, SO4, TOT ALK.....A 1 2 3 4 5 6 7 8 9 10
HCO3-, CO3=..........A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10

EA COD..................A 1 2 3 4 5 6 7 8 9 10
TOC..................A 1 2 3 4 5 6 7 8 9 10
NO3+NO2, NH3.........A 1 2 3 4 5 6 7 8 9 10
KJELDAHL N, TOT P....A 1 2 3 4 5 6 7 8 9 10
PHENOLICS............A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10

EP PHENOLICS (DECHLO)...A 1 2 3 4 5 6 7 8 9 10

EB TOTAL CYANIDE........A 1 2 3 4 5 6 7 8 9 10
FREE CYANIDE.........A 1 2 3 4 5 6 7 8 9 10

*S * SULFIDE..............A 1 2 3 4 5 6 7 8 9 10

INORGANIC CONTAMINANTS III

MT HARDNESS..........A 1 2 3 4 5 6 7 8 9 10
MD CA MG NA K ....A 1 2 3 4 5 6 7 8 9 10
CD CR CU NI PB ZN.A 1 2 3 4 5 6 7 8 9 10
HG MERCURY........A 1 2 3 4 5 6 7 8 9 10
AS ARSENIC........A 1 2 3 4 5 6 7 8 9 10
SE SELENIUM.......A 1 2 3 4 5 6 7 8 9 10
SB ANTIMONY.......A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10
OTHERS (CIRCLE)
AG AL BA CO FE....A 1 2 3 4 5 6 7 8 9 10
LI MN MO TI V.....A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10
FURNACE- CD.......A 1 2 3 4 5 6 7 8 9 10
" CR CU NI PB....A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10
LAB FILTRATION....A 1 2 3 4 5 6 7 8 9 10

MB BRINE- CL.........A 1 2 3 4 5 6 7 8 9 10
" - SO4 BR.....A 1 2 3 4 5 6 7 8 9 10
" - ALK........A 1 2 3 4 5 6 7 8 9 10
" - HCO3-,CO3=.A 1 2 3 4 5 6 7 8 9 10
..................A 1 2 3 4 5 6 7 8 9 10

PHYSICAL & BIOLOGICAL

PS RES-NF (SS).......A 1 2 3 4 5 6 7 8 9 10
RES-TF (TDS).......A 1 2 3 4 5 6 7 8 9 10
RES-SET (SET-SOL).A 1 2 3 4 5 6 7 8 9 10
TS (SS+DS)...A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10
..................A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10
BOD TOTAL-5 DAY...A 1 2 3 4 5 6 7 8 9 10
BOD CARB- 5 DAY...A 1 2 3 4 5 6 7 8 9 10
BOD CARB-20 DAY...A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10

CA CHLOROPHYLL A.....A 1 2 3 4 5 6 7 8 9 10
PHEOPHYTIN A......A 1 2 3 4 5 6 7 8 9 10

BC FECAL COLI.........A 1 2 3 4 5 6 7 8 9 10
TOTAL COLI.........A 1 2 3 4 5 6 7 8 9 10
FECAL STREP........A 1 2 3 4 5 6 7 8 9 10
...................A 1 2 3 4 5 6 7 8 9 10

MATRIX=WATER

MICHIGAN DEP[illegible]F NATURAL RESOURCES ENVIRONMEN[illegible] LABORATORY
ANALYSIS REQUEST SHEET

8/83

LAB LOG# 3112 PROJ CODE ------ COST CENTER 901X6 PR II, III LOCATION SAMPLED Linden Rd LF Genesee Co

COLLECTED BY G.M. TRANSFERED TO Velocak / Mosier REC'D AT LAB SB DATE TIME 10-27-83 4:05 AM PM

SAMPLE REMARKS ---------- SEND RESULTS TO (NAME & SECTION) D.O. Commins Lansing Dist Groundwater

LAB USE	#	FIELD ID OR DESCRIPTION	SAMPLE INFORMATION	YY/MM/DD	HH:MM
33747	01	10 D			
33748	02	9 D			
	03				
	04				
	05				
	06				
	07				
	08				
	09				
	10				

ORGANIC CONTAMINANTS III

*P01 #1 HALOCARBONS......A 1 2 3 4 5 6 7 8 9 10
*P02 #2 AROMATIC HYDROCAR.A 1 2 3 4 5 6 7 8 9 10

*OBN #3 CHLOR HYDROCARBON.A 1 2 3 4 5 6 7 8 9 10
#4 PCB & OC PEST.....A 1 2 3 4 5 6 7 8 9 10
#5 BROM HYDROCARBONS.A 1 2 3 4 5 6 7 8 9 10
#6 PHTHALATES........A 1 2 3 4 5 6 7 8 9 10
#7 PNA...............A 1 2 3 4 5 6 7 8 9 10
#9 AROMATIC AMINES...A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10

OA #8 PHENOLS............A 1 2 3 4 5 6 7 8 9 10

OG OIL & GREASE-IR......A 1 2 3 4 5 6 7 8 9 10
OIL & GREASE-GRAV....A 1 2 3 4 5 6 7 8 9 10
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ENVIRONMENTAL QUALITY II

DO DISSOLVED OXYGEN.....A 1 2 3 4 5 6 7 8 9 10

EN PH, CONDUCTANCE.....A 1 2 3 4 5 6 7 8 9 10
ORTHO-P, NO2-,SI.....A 1 2 3 4 5 6 7 8 9 10
DIS O-P, NO2, SI.....A 1 2 3 4 5 6 7 8 9 10
CR6+ ....A 1 2 3 4 5 6 7 8 9 10
FLUORIDE.............A 1 2 3 4 5 6 7 8 9 10
CL, SO4, TOT ALK.....A 1 2 3 4 5 6 7 8 9 10
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A 1 2 3 4 5 6 7 8 9 10

EA COD..................A 1 2 3 4 5 6 7 8 9 10
TOC..................A 1 2 3 4 5 6 7 8 9 10
NO3+NO2, NH3.. ......A 1 2 3 4 5 6 7 8 9 10
KJELDAHL N, TOT P....A 1 2 3 4 5 6 7 8 9 10
PHENOLICS............A 1 2 3 4 5 6 7 8 9 10
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EB TOTAL CYANIDE........A 1 2 3 4 5 6 7 8 9 10
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*S * SULFIDE..............A 1 2 3 4 5 6 7 8 9 10

INORGANIC CONTAMINANTS III

MT HARDNESS...........A 1 2 3 4 5 6 7 8 9 10
MD CA MG NA K ....A 1 2 3 4 5 6 7 8 9 10
CD CR CU NI PB ZN.A 1 2 3 4 5 6 7 8 9 10
HG MERCURY.........A 1 2 3 4 5 6 7 8 9 10
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BOD CARB- 5 DAY...A 1 2 3 4 5 6 7 8 9 10
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MATRIX=WATER

MICHIGAN DEP[illegible] NATURAL RESOURCES ENVIRONMEN[illegible] LABORATORY
ANALYSIS REQUEST SHEET

8/83

LAB LOG# 3112 PROJ CODE ------ COST CENTER 90176 PR II/III LOCATION SAMPLED Linden Rd LF Genesee Co

COLLECTED BY ~~[illegible]~~ G.M. TRANSFERED TO Velecuk / Mosier REC'D AT LAB SB DATE TIME 10/27/83 4:05 AM PM

SAMPLE REMARKS Supernatant Analyzed SEND RESULTS TO (NAME & SECTION) D.O. Commins Lansing Dist Groundwater

LAB USE	#!	FIELD ID OR DESCRIPTION	SAMPLE INFORMATION	YY/MM/DD	HH:MM
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33748	02	9 D			
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INORGANIC CONTAMINANTS IV

MT HARDNESS............A 1 2 3 4 5 6 7 8 9 10
MD CA MG NA K ....A 1 2 3 4 5 6 7 8 9 10
CD CR CU NI PB ZN.A 1 2 3 4 5 6 7 8 9 10
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" CR CU NI PB....A 1 2 3 4 5 6 7 8 9 10
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LAB FILTRATION....A 1 2 3 4 5 6 7 8 9 10

MB BRINE- CL..........A 1 2 3 4 5 6 7 8 9 10
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" - ALK........A 1 2 3 4 5 6 7 8 9 10
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PHYSICAL & BIOLOGICAL

PS RES-NF (SS).......A 1 2 3 4 5 6 7 8 9 10
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A 1 2 3 4 5 6 7 8 9 10
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A 1 2 3 4 5 6 7 8 9 10
BOD TOTAL-5 DAY...A 1 2 3 4 5 6 7 8 9 10
BOD CARB- 5 DAY...A 1 2 3 4 5 6 7 8 9 10
BOD CARB-20 DAY...A 1 2 3 4 5 6 7 8 9 10
A 1 2 3 4 5 6 7 8 9 10

CA CHLOROPHYLL A.....A 1 2 3 4 5 6 7 8 9 10
PHEOPHYTIN A......A 1 2 3 4 5 6 7 8 9 10

BC FECAL COLI........A 1 2 3 4 5 6 7 8 9 10
TOTAL COLI........A 1 2 3 4 5 6 7 8 9 10
FECAL STREP.......A 1 2 3 4 5 6 7 8 9 10
.................A 1 2 3 4 5 6 7 8 9 10

W

R4446

MICHIGAN DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL LABORATORY ANALYSIS -- ENVIRONMENTAL QUALITY - WATER - GENERAL USAGE NOV 8 1983

LAB LOG# 3112 PROJ CODE ----- COST CENTER ------- PR --- COLLECTED BY --------------- TRANSFERED TO ------------ RECEIVED AT LAB ------- EXAMINER John Peelz

LOCATION SAMPLED Linden Road. Landfill, Genesee Co SAMPLE REMARKS -------------------- SEND RESULTS TO (NAME & SECTION) D.O. Cummins, GWQ

<------------'DO NOT PUNCH'------------>

FIELD ID.	DESCRIPTION OF SAMPLING SITE OR SAMPLE	REF NO.	STORET NUMBER	START DATE YYMMDD	TIME MIL HHMM	DEPTH FEET	LAB NO. 1 P00008	FIELD pH S.U. 00400	LAB pH S.U. 00403	LAB COND. US/CM 00095	OXYGEN DIS. MG/L 00300	C.O.D. LOW MG/L 00335	T.O.C. MG/L 00680	PHENOL T. REC UG/L 32730	CN TOTAL MG/L 00720
10D		I01					33747	D	10.4HT	230			14.		
9D		I02					33748	D	9.1HT	305			1.4		
		I03						D							
		I04						D							
		I05						D							
		I06						D							
		I07						D							
		I08						D							
		I09						D							
		I10						D							

REF NO.	NO3NO2 TOTAL MG/L N 00630	NO3 TOTAL MG/L N 00620	NO2 TOTAL MG/L N 00615	NH3 TOTAL MG/L N 00610	ORG N TOTAL MG/L N 00605	KJEL N TOTAL MG/L N 00625	ORTH.P TOTAL MG/L P 70507	PHOS. TOTAL MG/L P 00665	CR6+ TOTAL UG/L 01032	CL TOTAL MG/L 00940	S= TOTAL MG/L S 00745	SO4= TOTAL MG/L 00945	ALK. TOTAL MG/L 00410	BICARB HCO3- MG/L 00440	CARB. CO3= MG/L 00445			
01		C			C					3.6		2.4	80	32	32			
02		C			C					1.2		5.6	151	160	12			
03		C			C													
04		C			C													
05		C			C													
06		C			C													
07		C			C													
08		C			C													
09		C			C													
10		C			C													

ESD-3203 REV. 12/82