WARZYN

PROJECT
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4

VOLUME 3 OF 3

WORK PLAN (PSER/TS)

H.O.D. LANDFILL
ANTIOCH, ILLINOIS

AUGUST 1992

PREPARED FOR:
WASTE MANAGEMENT OF NORTH AMERICA, INC.
WESTCHESTER, ILLINOIS

• • •

PREPARED BY:
WARZYN INC.
ADDISON, ILLINOIS

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APPENDIX D

USGS ADMINISTRATIVE REPORT
ANALYSIS OF THE AQUIFER TEST AT H.O.D. LANDFILL
ANTIOCH, ILLINOIS

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

ANALYSIS OF THE AQUIFER TEST AT H.O.D. LANDFILL, ANTIOCH, ILLINOIS, DECEMBER 1987

By Robert T. Kay

Administrative Report

Prepared for the

U.S. ENVIRONMENTAL PROTECTION AGENCY

Urbana, Illinois

1988

ADMINISTRATIVE REPORT

ANALYSIS OF THE AQUIFER TEST AT H.O.D. LANDFILL, ANTIOCH, ILLINOIS, DECEMBER 1987

by Robert T. Kay

The purpose of this report is to present the results of the U.S. Geological Survey's (the Survey) analysis of an aquifer test conducted near the H.O.D. Landfill, Antioch, Illinois, in December 1987. This aquifer-test analysis was requested by the U.S. Environmental Protection Agency (USEPA) under Interagency Agreement (IAG) No. DW14032854-01-0. This report includes only the analysis of the data. The aquifer-test data, site and well-location maps, and supporting geologic and hydrologic data, all of which were supplied by USEPA to the Survey for conducting the analysis, are not included in this report.

The aquifer test was conducted on December 17-18 by USEPA and a consulting firm hired by USEPA. The constant-discharge aquifer test consisted of pumping Antioch Municipal Well No. 4 (AMW-4) for 24 hours while monitoring water-level changes in 12 observation wells. Water levels also were monitored in the observation wells for approximately 72 hours prior to pumping. Drawdown in the lower aquifer caused by pumping Antioch Municipal Well No. 5 (AMW-5), located approximately 2,000 feet from AMW-4, precluded use of recovery data for test analysis. The observation wells were screened in either the lower aquifer, the confining unit, or the upper aquifer, and AMW-4 is screened in the lower aquifer. None of the wells are fully penetrating. Water levels in all of the wells can fluctuate with changes in barometric pressure.

Three analytical methods were used for data analysis. The assumptions for the methods are stated in the papers listed under references at the end of this report. The Hantush and Jacob (1955) method for a leaky confined aquifer with no storage in the confining layer was used as a first approximation to calculate transmissivity (T) and storativity (S) of the lower aquifer, leakage through the confining bed (L), and vertical hydraulic conductivity (Kv) of the confining bed. The Hantush (1960) method for a leaky confined aquifer with storage in the confining bed provided the best estimate of T and S. Finally, the ratio method of Neuman and Witherspoon (1972) was used to estimate diffusivity of the confining bed (Dc).

Most of the hydrogeologic and test-design assumptions of the analytical methods were met or closely approximated. However, no analytical methods are available that are derived precisely for the hydrogeology and test design at the H.O.D. Landfill, and the scope of the IAG did not include numerical modeling. The assumptions of a fully penetrating pumped well and a constant-thickness confining bed were not met. The effects of partial penetration decrease with distance from the pumped well. It was calculated that, if the horizontal to vertical hydraulic conductivity ratio of the lower aquifer is less than 20:1,

the effects of partial penetration were insignificant in wells MW-1D, MW-2D, and MW-6D if the lower aquifer is 100 feet thick (Walton, 1978, p. 314). For the purpose of test analysis, an assumption of constant thickness for the confining bed was invoked. Assumptions of horizontal flow in the lower aquifer and vertical flow in the confining bed could not be tested, but likewise, these assumptions were used for test analysis. Additional assumptions of a site-specific nature were as follows:

(1) The barometric efficiency of the wells in the lower aquifer was 50 percent;

(2) there was no hydraulic connection between surface-water bodies and the lower aquifer;

(3) recovery from pumping at AMW-5 had no influence on the drawdown data during the early- and late-time phases of the aquifer test; and

(4) there was no leakage from underlying units into the lower aquifer.

The assumption of a 50-percent barometric efficiency represents a probable maximum for the aquifer (E. P. Weeks, U.S. Geological Survey, oral commun., 1988) and, therefore, results in a conservative estimate of Kv and Dc. The assumption that there is no hydraulic connection between the lower aquifer and surface-water bodies is based on data that show that changes in water level in surface-water bodies do not occur during the test. The assumption that recovery from pumping AMW-5 did not affect drawdown in observation wells during early and late time was based on the good match of data and type curves during these time periods. During intermediate times, the data plotted slightly below the type curves, probably because of recovery after the pumping of AMW-5 ceased. The assumption that there was no leakage from underlying units cannot be tested with available data and was invoked to simplify data analysis.

Results from the Hantush and Jacob (1955) method for the aquifer test are shown in table 1.

Table 1.--Estimates of transmissivity and storativity for the lower aquifer, leakage, and vertical hydraulic conductivity of the confining bed using the Hantush and Jacob (1955) method

Well number	Transmissivity (foot squared per day)	Storativity	Leakage (foot per day per foot)	Vertical hydraulic conductivity (foot per day)
MW-1D	1.96×10^{4}	8.71×10^{-4}	7.84×10^{-4}	1.96×10^{-2}
MW-2D	2.21×10^{4}	3.06×10^{-4}	3.93×10^{-4}	9.82×10^{-3}
MW-6D	2.52×10^{4}	2.10×10^{-4}	1.29×10^{-4}	3.22×10^{-3}

Results from the Hantush (1960) method for the aquifer test are shown in table 2.

Table 2.--Estimates of transmissivity and storativity for the lower aquifer using the Hantush (1960) method

Well number	Transmissivity (foot squared per day)	Storativity
MW-1D	2.68×10^4	1.12×10^{-3}
MW-2D	1.96×10^4	2.93×10^{-4}
MW-6D	1.67×10^4	1.44×10^{-4}

Finally, the ratio method of Neuman and Witherspoon (1972) was used to estimate a Dc of 56.3 ft^2/d (feet squared per day). The confining-bed diffusivity, Dc, represents the ratio of Kv to confining-bed storage (Sc) and is calculated using drawdown data from wells completed in the confining bed. Therefore, the value of Dc is not subject to the same uncertainties associated with the other hydraulic properties reported in the paper.

A value of 56.3 ft^2/d for Dc was used to estimate that 0.01 foot of drawdown would be induced at the contact between the top of the confining bed and the base of the upper aquifer near well MW-6I and MW-6S, 21 hours after AMW-4 began to be pumped. Using the same value of Dc, it was calculated that 0.01 foot of drawdown would be induced at the contact between the top of the confining bed and the base of the upper aquifer near wells MW-3I and MW-3S, 23 hours after AMW-4 began pumping. Although water-level measurements showed that drawdown occurred in the confining bed at wells MW-3I and MW-6I during the test, no drawdown was observed in wells screened in the upper aquifer. The lack of an observed drawdown in the upper aquifer was not, however, unexpected. Both the relatively large estimated transmissivity of the upper aquifer (Doug Yeskis, U.S. Environmental Protection Agency, oral commun., 1987) and the relatively small amounts of water that would move from the upper aquifer into the underlying confining bed could serve to obscure any drawdown effects in the upper aquifer. Therefore, the data and estimated hydraulic properties of the hydrogeologic system cannot be used to prove or disprove conclusively a hydraulic connection between the upper aquifer and the confining bed or between the upper aquifer and the lower aquifer. The above estimates assume a constant Dc throughout the confining bed. If the Dc above the screened interval in wells MW-3I and MW-6I differs from that below the screened interval, then the time required to induce drawdown at the top of the confining bed will be different than the estimated times. If the barometric efficiency of wells is less than 50 percent, then Dc would be greater than 56.3 ft^2/d, and drawdown at the top of the confining bed would occur earlier than estimated.

In summary, analytical methods were used by the Survey to estimate hydraulic properties of the lower aquifer and the confining bed from data supplied by USEPA. All of the estimates embody some known or possible violations of the assumptions inherent in the analytical methods. Results of the aquifer test showed drawdown in the confining bed at wells MW-3I and MW-6I. The test analysis indicates that drawdown would occur at the contact between the top of the confining bed and the base of the upper aquifer near wells MW-3I and MW-6I within the 24-hour timeframe of the aquifer test. However, the data and analysis do not clearly show that water from the upper aquifer moved into the confining bed during the test.

References

Hantush, M. S., and Jacob, C. E., 1955, Nonsteady radial flow in an infinite leaky aquifer: American Geophysical Union Transactions, v. 36, no. 1, p. 95-100.

Hantush, M. S., 1960, Modification of the theory of leaky aquifers: Journal of Geophysical Research, v. 65, no. 11, p. 3713-3725.

Neuman, S. P., and Witherspoon, P. A., 1972, Field determination of the hydraulic properties of leaky multiple aquifer systems: Water Resources Research, v. 8, no. 5, p. 1284-1298.

Walton, W. C., 1978, Comprehensive analysis of water-table aquifer test data: Ground Water, v. 16, no. 5, p. 311-317.

APPENDIX E

WATER LEVEL DATA

E 1

OCTOBER 5, 1989

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on October 5, 1989 -- H.O.D. Landfill

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point [1] (feet)	Description of Measuring Point [2]	Elevation of Water Surface (feet MSL)	Measured By [3]
US-1S	10/5/89	10:50 am	1.764	5.79	768.81	TIC	763.02	JSJ
US-1D	10/5/89	10:55 am	12.577	41.26	769.00	TIC	727.74	JSJ
US-2D	10/5/89	10:30 am	13.327	43.72	770.71	TIC	726.99	JSJ
US-3S	10/5/89	12:35 pm	2.760	9.06	770.28	TIC	761.22	JSJ
US-3I	10/5/89	12:40 pm	11.972	39.28	769.94	TIC	730.66	JSJ
US-3D	10/5/89	12:45 pm	12.843	42.14	769.64	TIC	727.50	JSJ
US-4S	10/5/89	12:25 pm	3.820	12.53	773.61	TIC	761.08	JSJ
US-4D	10/5/89	12:20 pm	13.809	45.30	772.64	TIC	727.34	JSJ
US-5D	10/5/89	11:30 am	12.115	39.75	767.84	TIC	728.09	JSJ
US-6S	10/5/89	12:05 pm	2.450	8.04	769.89	TIC	761.85	JSJ
US-6I	10/5/89	12:00 pm	8.772	28.78	770.19	TIC	741.41	JSJ
US-6D	10/5/89	11:50 am	12.998	42.64	770.09	TIC	727.45	JSJ
US-7S	10/5/89	11:15 am	1.905	6.25	767.74	TIC	761.49	JSJ
PZ-1	10/5/89	3:15 pm	18.434	60.48	788.47	TIC	727.99	JSJ
PZ-2	10/5/89	2:30 pm	10.819	35.49	766.27 [4]	TIC	730.78	JSJ
G-102	10/5/89	4:10 pm	3.919	12.86	774.01	TWWC	761.15	JSJ
R-103	10/5/89	3:53 pm	2.413	7.92	769.83	TWWC	761.91	JSJ

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PELA

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on October 5, 1989 – H.O.D. Landfill
(continued)

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point 1/ (feet)	Description of Measuring Point 2/	Elevation of Water Surface (feet MSL)	Measured By 3/
G-11S	10/5/89	3:35 pm	2.595	8.51	770.79	TWWC	762.28	JSJ
G-11D	10/5/89	3:40 pm	3.000	9.84	770.83	TWWC	760.99	JSJ
G-14S	10/5/89	3:05 pm	2.643	8.67	770.82	TWWC	762.15	JSJ
G-14D	10/5/89	3:00 pm	2.383	7.82	770.32	TWWC	762.50	JSJ

1/ Elevation taken from Patrick Engineering survey received by PELA 5/24/90.
2/ TIC = Top of Inside Casing;
TWWC = Top of Well Wizard Casing.
3/ JSJ = J. S. Johnston
4/ Elevation taken from Patrick Engineering survey received by PELA 10/18/89.

Staff Gage Number	Date	Time	Gage Reading (in feet)	Elevation of Reference Point 1/ (feet)	Description of Reference Point	Elevation of Water Surface (feet MSL)	Measured By 2/
SG-1	10/5/89	2:35 pm	1.70	760.33	0.00 on gage	762.03	JSJ
SG-3	10/5/89	2:45 pm	1.00	760.28	0.00 on gage	761.28	JSJ
SG-4	10/5/89	3:45 pm	0.36	759.10	0.00 on gage	759.46	JSJ

1/ Elevation taken from Patrick Engineering survey received by PELA 10/18/89.
2/ JSJ = J. S. Johnston

E2

MARCH 19, 1990

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on March 19, 1990 -- H.O.D. Landfill

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point 1/ (feet)	Description of Measuring Point 2/	Elevation of Water Surface (feet MSL)	Measured By 3/
US-1S	3/19/90	8:43 am	1.315	4.31	768.81	TIC	764.50	JSJ
US-1D	3/19/90	8:47 am	12.192	40.00	769.00	TIC	729.00	JSJ
US-2D	3/19/90	9:59 am	12.907	42.35	770.71	TIC	728.36	JSJ
US-3S	3/19/90	10:07 am	2.338	7.67	770.28	TIC	762.61	JSJ
US-3I	3/19/90	10:14 am	11.529	37.82	769.94	TIC	732.12	JSJ
US-3D	3/19/90	10:19 am	12.413	40.72	769.64	TIC	728.92	JSJ
US-4S	3/19/90	10:34 am	3.435	11.27	773.61	TIC	762.34	JSJ
US-4D	3/19/90	10:28 am	13.437	44.08	772.64	TIC	728.56	JSJ
US-5D	3/19/90	9:26 am	11.705	38.40	767.84	TIC	729.44	JSJ
US-6S	3/19/90	9:37 am	2.138	7.01	769.89	TIC	762.88	JSJ
US-6I	3/19/90	9:43 am	7.309	23.98	770.19	TIC	746.21	JSJ
US-6D	3/19/90	9:46 am	12.567	41.23	770.09	TIC	728.86	JSJ
US-7S	3/19/90	9:12 am	1.582	5.19	767.74	TIC	762.55	JSJ
PZ-1	3/19/90	10:49 am	-	59.36	788.47	TIC	729.11	NEM
PZ-2	3/19/90	8:59 am	10.589	34.74	766.27 4/	TIC	731.53	GDW
PZ-1U	3/19/90	9:19 am	0.924	3.03	766.22	TPVC	763.19	GDW
PZ-2U	3/19/90	9:51 am	1.333	4.37	767.60	TPVC	763.23	GDW

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PELA

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on March 19, 1990 -- H.O.D. Landfill
(continued)

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point 1/ (feet)	Description of Measuring Point 2/	Elevation of Water Surface (feet MSL)	Measured By 3/
PZ-3U	3/19/90	10:26 am	-	3.30	766.22	TPVC	762.92	NEM
PZ-4U	3/19/90	10:35 am	-	3.49	766.48	TPVC	762.99	NEM
PZ-5U	3/19/90	10:41 am	-	7.50	771.06	TPVC	763.56	NEM
SC-1A	3/19/90	10:22 am	1.113	3.65	766.80	TR	763.15	GDW
SC-1B	3/19/90	10:19 am	1.810	5.94	768.98	TPVC	763.04	GDW
SC-1C	3/19/90	9:02 am	1.337	4.39	765.32	TPVC	760.93	GDW
SC-1D	3/19/90	8:55 am	2.029	6.66	766.26	TPVC	759.60	GDW
SC-2A	3/19/90	10:47 am	0.738	2.42	765.10	TPVC	762.68	GDW
SC-2B	3/19/90	10:49 am	1.360	4.46	767.18	TPVC	762.72	GDW
SC-2C	3/19/90	9:29 am	0.432	1.42	764.32	TR	762.90	GDW
SC-2D	3/19/90	9:26 am	0.505	1.66	764.58	TR	762.92	GDW
SC-3B	3/19/90	10:02 am	2.492	8.18	770.56	TR	762.38	GDW
SC-4A	3/19/90	10:36 am	3.168	10.39	771.64	TPVC	761.25	GDW
SC-4B	3/19/90	10:38 am	2.817	9.24	770.44	TPVC	761.20	GDW
SC-4C	3/19/90	10:08 am	2.257	7.40	768.63	TPVC	761.23	GDW
SC-4D	3/19/90	10:10 am	5.950	19.52	769.67	TPVC	750.15	GDW
G-11D	3/19/90	11:24 am	2.794	9.17	770.83	TWWC	761.66	GDW

Water-Level Data Collected by PELA on March 19, 1990 -- H.O.D. Landfill
(continued)

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point [1] (feet)	Description of Measuring Point [2]	Elevation of Water Surface (feet MSL)	Measured By [3]
G-11S	3/19/90	11:27 am	1.970	6.46	770.79	TWWC	764.33	GDW
G-102	3/19/90	11:33 am	3.553	11.66	774.01	TWWC	762.35	GDW
G-14D	3/19/90	11:21 am	2.113	6.93	770.32	TWWC	763.39	NEM
G-14S	3/19/90	11:23 am	1.519	4.98	770.82	TWWC	765.84	NEM
R-103	3/19/90	11:17 am	2.145	7.04	769.83	TWWC	762.79	NEM

[1] Elevation taken from Patrick Engineering survey received by PELA 5/24/90.

[2] TIC = Top of Inside Casing
TPVC = Top of PVC Casing
TR = Top of Riser
TWWC = Top of Well Wizard Casing

[3] JSJ = J. S. Johnston
NEM = N. E. Moss
GDW = G. D. Wade

[4] Elevation taken from Patrick Engineering survey received by PELA 12/14/89.

Water-Level Data Collected by PELA on March 19, 1990 -- H.O.D. Landfill
(continued)

Staff Gage Number	Date	Time	Gage Reading (in feet)	Elevation of Reference Point [1] (feet)	Description of Reference Point	Elevation of Water Surface (feet MSL)	Measured By [2]
SG-1	3/19/90	9:05 am	2.86	760.19	0.00 on gage	763.05	GDW
SG-2	3/19/90	9:30 am	2.45	759.91	0.00 on gage	762.36	GDW
SG-3	3/19/90	9:59 am	2.10	759.50	0.00 on gage	761.60	GDW
SG-4	3/19/90	10:34 am	2.14	759.24	0.00 on gage	761.38	GDW

1/ Elevation taken from Patrick Engineering survey received by PELA 5/24/90.

2/ GDW = G. D. Wade

E 3

APRIL 23, 1990

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on April 23, 1990 -- H.O.D. Landfill

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point [1] (feet MSL)	Description of Measuring Point [2]	Elevation of Water Surface (feet AMSL)	Measured By [3]
US-1S	4/23/90	8:43 am	1.336	4.38	768.81	TIC	764.43	JSJ & BAM
US-1D	4/23/90	8:40 am	12.145	39.85	769.00	TIC	729.15	JSJ & BAM
US-2D	4/23/90	9:10 am	12.815	42.04	770.71	TIC	728.67	JSJ & BAM
US-3S	4/23/90	9:00 am	2.552	8.37	770.28	TIC	761.91	JSJ & BAM
US-3I	4/23/90	8:50 am	11.417	37.46	769.94	TIC	732.48	JSJ & BAM
US-3D	4/23/90	8:50 am	12.280	40.29	769.64	TIC	729.35	JSJ & BAM
US-4S	4/23/90	10:05 am	3.638	11.94	773.61	TIC	761.67	JSJ & BAM
US-4D	4/23/90	10:00 am	13.312	43.67	772.64	TIC	728.97	JSJ & BAM
US-5D	4/23/90	9:35 am	11.624	38.14	767.84	TIC	729.70	JSJ & BAM
US-6S	4/23/90	9:55 am	2.262	7.42	769.89	TIC	762.47	JSJ & BAM
US-6I	4/23/90	9:50 am	7.311	23.99	770.19	TIC	746.20	JSJ & BAM
S-6D	4/23/90	9:45 am	12.500	41.01	770.09	TIC	729.08	JSJ & BAM
US-7S	4/23/90	9:20 am	1.440	4.72	767.74	TIC	763.02	JSJ & BAM
PZ-1	4/23/90	10:37 am	17.984	59.00	788.47	TIC	729.47	JSJ
PZ-2	4/23/90	9:31 am	10.510	34.48	766.27 [4]	TIC	731.79	MMA
PZ-1U	4/23/90	10:04 am	1.073	3.52	766.22	TIC	762.70	MMA
PZ-2U	4/23/90	9:49 am	1.491	4.89	767.60	TIC	762.71	MMA
PZ-3U	4/23/90	11:04 am	1.097	3.60	766.22	TIC	762.62	JSJ

Water-Level Data Collected by PELA on April 23, 1990 -- H.O.D. Landfill
(continued)

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point [1] (feet MSL)	Description of Measuring Point [2]	Elevation of Water Surface (feet AMSL)	Measured By [3]
PZ-4U	4/23/90	11:00 am	1.125	3.69	766.48	TIC	762.79	JSJ
PZ-5U	4/23/90	10:53 am	2.333	7.65	771.06	TIC	763.41	JSJ
SC-1A	4/23/90	11:16 am	1.230	4.04	766.80	TOC	762.76	MMA
SC-1B	4/23/90	11:08 am	1.901	6.24	768.98	TOC	762.74	MMA
SC-1C	4/23/90	9:14 am	0.810	2.66	765.32	TOC	762.66	MMA
SC-1D	4/23/90	9:19 am	1.078	3.54	766.26	TOC	762.72	MMA
SC-2A	4/23/90	12:07 pm	0.830	2.72	765.10	TOC	762.38	MMA
SC-2B	4/23/90	12:04 pm	1.426	4.68	767.18	TOC	762.50	MMA
SC-2C	4/23/90	11:35 am	0.562	1.84	764.32	TOC	762.48	JSJ
SC-2D	4/23/90	11:38 am	0.623	2.04	764.58	TOC	762.54	JSJ
SC-3B	4/23/90	10:26 am	2.694	8.84	770.56	TOC	761.72	MMA
SC-3C	4/23/90	10:30 am	2.588	8.49	770.17	TOC	761.68	MMA
SC-3D	4/23/90	10:32 am	2.400	7.87	769.59	TOC	761.72	MMA
SC-4A	4/23/90	11:31 am	3.208	10.52	771.64	TOC	761.12	MMA
SC-4B	4/23/90	11:32 am	2.852	9.36	770.44	TOC	761.08	MMA
SC-4C	4/23/90	12:41 pm	2.289	7.51	768.63	TOC	761.12	MMA
SC-4D	4/23/90	12:38 pm	2.616	8.58	769.67	TOC	761.09	MMA

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on April 23, 1990 – H.O.D. Landfill
(continued)

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point [1] (feet MSL)	Description of Measuring Point [2]	Elevation of Water Surface (feet AMSL)	Measured By [3]
G-11D	4/23/90	1:33 pm	2.954	9.69	770.83	TWWC	761.14	MMA
G-11S	4/23/90	1:45 pm	-	6.41	770.79	TWWC	764.38	MMA
G-102	4/23/90	12:54 pm	3.759	12.33	774.01	TWWC	761.68	MMA
G-14D	4/23/90	1:15 pm	2.173	7.13	770.32	TWWC	763.19	MMA
G-14S	4/23/90	1:09 pm	1.766	5.79	770.82	TWWC	765.03	MMA
R-103	4/23/90	1:00 pm	2.251	7.39	769.83	TWWC	762.44	MMA

1/ Elevation taken from Patrick Engineering survey received by PELA 5/24/90.

2/ TIC = Top of Inside Casing;
TOC = Top of Casing;
TWWC = Top of Well Wizard Casing.

3/ JSJ = J. S. Johnston
BAM = B. A. Memon
MMA = M. M. Azmeh

4/ Elevation taken from Patrick Engineering survey received by PELA 12/14/89.

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on April 23, 1990 -- H.O.D. Landfill
(continued)

Staff Gage Number	Date	Time	Gage Reading (in feet)	Elevation of Reference Point [1] (feet)	Description of Reference Point	Elevation of Water Surface (feet MSL)	Measured By [2]
SG-1	4/23/90	9:20 am	2.38	760.19	0.00 on gage	762.57	MMA
SG-2	4/23/90	11:35 am	1.78	759.91	0.00 on gage	761.69	JSJ
SG-3	4/23/90	10:34 am	1.36	759.50	0.00 on gage	760.86	MMA
SG-4	4/23/90	11:51 am	1.44	759.24	0.00 on gage	760.68	MMA

[1] Elevation taken from Patrick Engineering survey received by PELA 10/18/89.

[2] MMA = M. M. Azmeh
JSJ = J. S. Johnston

P.E. LaMoreaux & Associates

PELA

E4

JULY 24, 1990

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on July 24, 1990 -- H.O.D. Landfill

WELLS

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point [1/] (feet MSL)	Description of Measuring Point [2/]	Elevation of Water Surface (feet AMSL)	Measured By [3/]
US-1S	7/24/90	11:00 am	1.460	4.79	768.81	TIC	764.02	MMA
US-1D	7/24/90	11:03 am	12.430	40.78	769.02 [4/]	TWWC	728.24	MMA
US-2D	7/24/90	12:57 pm	13.710	44.98	770.71	TIC	725.73	MMA
US-3S	7/24/90	12:48 pm	2.600	8.53	770.28	TIC	761.75	MMA
US-3I	7/24/90	12:41 pm	11.560	37.93	769.94	TIC	732.01	MMA
US-3D	7/24/90	12:46 pm	13.558	44.48	769.66 [4/]	TWWC	725.18	MMA
US-4S	7/24/90	12:25 pm	3.670	12.04	773.63 [4/]	TWWC	761.59	MMA
US-4D	7/24/90	12:31 pm	14.404	47.26	772.66 [4/]	TWWC	725.40	MMA
US-5D	7/24/90	12:09 pm	12.226	40.11	767.86 [4/]	TWWC	727.75	MMA
US-6S	7/24/90	11:47 am	2.373	7.79	769.89	TIC	762.10	MMA
US-6I	7/24/90	11:45 am	7.432	24.38	770.19	TIC	745.81	MMA
S-6D	7/24/90	11:42 am	13.174	43.22	770.09	TIC	726.87	MMA
US-7S	7/24/90	1:11 pm	1.854	6.08	767.74	TIC	761.66	MMA
PZ-1	7/24/90	7:44 am	18.084	59.33	788.47	TIC	729.14	MMA - JSJ
PZ-2	7/24/90	2:51 pm	10.340	33.92	766.27 [5/]	TIC	732.35	JSJ
PZ-1U	7/24/90	5:33 pm	1.248	4.09	766.22	TIC	762.13	MMA
PZ-2U	7/24/90	10:28 am	1.590	5.22	767.60	TIC	762.38	MMA - JSJ

(WP 5.1, bjm, 8/16/90) 14d:\514100\Tbl_WL.04

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on July 24, 1990 -- H.O.D. Landfill
(continued)

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point 1/ (feet MSL)	Description of Measuring Point 2/	Elevation of Water Surface (feet AMSL)	Measured By 3/
PZ-3U	7/24/90	9:58 am	1.212	3.98	766.22	TIC	762.24	MMA
PZ-4U	7/24/90	4:12 pm	1.248	4.09	766.48	TIC	762.39	MMA
PZ-5U	7/24/90	3:33 pm	2.551	8.37	771.06	TIC	762.69	MMA
PZ-6U	7/24/90	4:20 pm	1.281	4.20	766.55	TIC	762.35	MMA
SC-1A	7/24/90	2:34 pm	1.340	4.40	766.80	TOC	762.40	MMA
SC-1B	7/24/90	2:40 pm	2.010	6.59	768.98	TOC	762.39	MMA
SC-1C	7/24/90	2:57 pm	0.891	2.92	765.32	TOC	762.40	JSJ
SC-1D	7/24/90	2:52 pm	1.188	3.90	766.26	TOC	762.36	JSJ
SC-2A	7/24/90	9:14 am	0.958	3.14	765.10	TOC	761.96	MMA
SC-2B	7/24/90	9:16 am	1.550	5.09	767.18	TOC	762.09	MMA
SC-2C	7/24/90	5:16 pm	0.670	2.20	764.32	TOC	762.12	MMA
SC-2D	7/24/90	5:20 pm	0.740	2.43	764.58	TOC	762.15	MMA
SC-3B	7/24/90	9:03 am	2.733	8.97	770.56	TOC	761.59	MMA
SC-3C	7/24/90	8:10 am	2.620	8.60	770.17	TOC	761.57	MMA
SC-3D	7/24/90	8:13 am	2.431	7.98	769.59	TOC	761.61	MMA
SC-4A	7/24/90	12:13 pm	3.322	10.90	771.64	TOC	760.74	MMA
SC-4B	7/24/90	12:05 pm	2.970	9.74	770.44	TOC	760.70	MMA

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on July 24, 1990 – H.O.D. Landfill
(continued)

Well Number	Date Measured	Time Measured	Depth to Water from Measuring Point (meters)	(feet)	Elevation of Measuring Point 1/ (feet MSL)	Description of Measuring Point 2/	Elevation of Water Surface (feet AMSL)	Measured By 3/
SC-4C	7/24/90	7:59 am	2.410	7.91	768.63	TOC	760.72	MMA
SC-4D	7/24/90	8:02 am	2.720	8.92	769.67	TOC	760.75	MMA
G-11D	7/24/90	12:01 pm	1.005	3.30	770.83	TWWC	767.53	MMA
G-11S	7/24/90	1:26 pm	1.673	5.49	770.79	TWWC	765.30	MMA
G-102	7/24/90	8:38 am	3.792	12.44	774.01	TWWC	761.57	MMA
G-14D	7/24/90	3:28 pm	2.326	7.63	770.32	TWWC	762.69	MMA
G-14S	7/24/90	3:26 pm	2.310	7.59	770.82	TWWC	763.23	MMA
R-103	7/24/90	9:10 am	2.370	7.78	769.83	TWWC	762.05	MMA

1/ Elevation taken from Patrick Engineering's survey received by PELA 5/24/90.

2/ TIC = Top of Inside Casing; TOC = Top of Casing; TWWC = Top of Well Wizard Casing.

3/ JSJ = J. S. Johnston; MMA = M. M. Azmeh

4/ Elevation calculated using Patrick Engineering's survey received by PELA 5/24/90 and adding 0.02 foot (information received via phone on 8/10/90 from Tim Buss of Gulf Coast Laboratories, Inc.). The 0.02 foot increase in measuring point elevation is a result of the installation of Well Wizard pumps installed 5/8-10/90.

5/ Elevation taken from Patrick Engineering's survey received by PELA 12/14/89.

PRELIMINARY DRAFT
SUBJECT TO REVISION

Water-Level Data Collected by PELA on July 24, 1990 -- H.O.D. Landfill
(continued)

STAFF GAGES

Staff Gage Number	Date	Time	Gage Reading (in feet)	Elevation of Reference Point 1/ (feet)	Description of Reference Point	Elevation of Water Surface (feet MSL)	Measured By 2/
SG-1	7/24/90	2:47 pm	2.23	760.19	0.00 on gage	762.42	JSJ
SG-2	7/24/90	5:17 pm	1.53	759.91	0.00 on gage	761.44	JSJ - MMA
SG-3	7/24/90	5:44 pm	1.47	759.50	0.00 on gage	760.97	JSJ
SG-4	7/24/90	1:29 pm	1.58	759.24	0.00 on gage	760.82	JSJ

1/ Elevation taken from Patrick Engineering survey received by PELA 10/18/89.

2/ JSJ = J. S. Johnston
MMA = M. M. Azmeh

APPENDIX F

WATER QUALITY DATA

FI

LEACHATE SAMPLING - JUNE 29, 1990

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD East Manhole

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BL0S09

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	120	B
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	8	
540-59-0	1,2-Dichloroethene (total)	30	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	18	
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	11	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	25	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD East Manhole

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS09

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	10	U

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD West Manhole

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS10

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	42	B
67-64-1	Acetone	20	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	15	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD West Manhole

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-002

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS10

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	10	U

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 1

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS11

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	89	
75-09-2	Methylene Chloride	46	B
67-64-1	Acetone	290	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	23	
540-59-0	1,2-Dichloroethene (total)	6	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	30	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	31	
1330-20-7	Xylene (total)	61	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 1

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS11

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. ____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	520	

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 2A

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS19

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/12/90

Column: (pack/cap) CAP

Dilution Factor: 20.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	200	U
74-83-9	Bromomethane	200	U
75-01-4	Vinyl Chloride	340	
75-00-3	Chloroethane	200	U
75-09-2	Methylene Chloride	5800	
67-64-1	Acetone		E
75-35-4	1,1-Dichloroethene	4700	
75-34-3	1,1-Dichloroethane	300	
540-59-0	1,2-Dichloroethene (total)	2100	
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	170	
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	970	
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02	Trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	650	
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	Xylene (total)	240	
107-02-8	Acrolein	10000	U
107-13-1	Acrylonitrile	2000	U
75-71-8	Dichlorodifluoromethane	400	U
75-69-4	Trichlorofluoromethane	200	U
542-88-1	Bis(chloromethyl)ether	400	U
110-75-8	2-Chloroethylvinylether	200	U

18

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 2A

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS19

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. ____

Date Analyzed: 07/12/90

Column: (pack/cap) CAP

Dilution Factor: 20.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	34000	

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 2ADL

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-004 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS12

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 200

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	24000	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
1330-20-7	Xylene (total)	NA	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-71-8	Dichlorodifluoromethane	NA	
75-69-4	Trichlorofluoromethane	NA	
542-88-1	Bis(chloromethyl)ether	NA	
110-75-8	2-Chloroethylvinylether	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 2ADL

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-004 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BL0S12

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. ____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 200

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
78-93-3	2-Butanone	NA	

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 3A

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS13

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	53	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	45	B
67-64-1	Acetone		E
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	8	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	9	
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		E
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	38	
1330-20-7	Xylene (total)	95	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 3A

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-005

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS13

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. ____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	2100	

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 3ADL

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-005 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS16

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/16/90

Column: (pack/cap) CAP

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	1400	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	260	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
1330-20-7	Xylene (total)	NA	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-71-8	Dichlorodifluoromethane	NA	
75-69-4	Trichlorofluoromethane	NA	
542-88-1	Bis(chloromethyl)ether	NA	
110-75-8	2-Chloroethylvinylether	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 3ADL

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-005 DL

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS16

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/16/90

Column: (pack/cap) CAP

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
78-93-3	2-Butanone	NA	

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 8

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS06

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/12/90

Column: (pack/cap) CAP

Dilution Factor: 20.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	200	U
74-83-9	Bromomethane	200	U
75-01-4	Vinyl Chloride	200	U
75-00-3	Chloroethane	200	U
75-09-2	Methylene Chloride	4500	
67-64-1	Acetone	7700	
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	280	
540-59-0	1,2-Dichloroethene (total)	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02	Trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	700	
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	Xylene (total)	160	
107-02-8	Acrolein	10000	U
107-13-1	Acrylonitrile	2000	U
75-71-8	Dichlorodifluoromethane	400	U
75-69-4	Trichlorofluoromethane	200	U
542-88-1	Bis(chloromethyl)ether	400	U
110-75-8	2-Chloroethylvinylether	200	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 8

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS06

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. ____

Date Analyzed: 07/12/90

Column: (pack/cap) CAP .

Dilution Factor: 20.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	14000	

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOO Piezometer 9

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS14

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	40	B
67-64-1	Acetone	92	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	43	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 9

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BLOS14

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec.

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	240	

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 9RE

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS17

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. ____

Date Analyzed: 07/16/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	
67-64-1	Acetone	190	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	7	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	65	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 9RE

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-007

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS17

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/16/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	10	U

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 10

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BL0S15

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	24	B
67-64-1	Acetone	21	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	16	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	7	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	9	
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	26	
108-90-7	Chlorobenzene	6	
100-41-4	Ethylbenzene	41	
1330-20-7	Xylene (total)	200	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	35	
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 10

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: BL0S15

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/13/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	11	

FORM 1 V-2

12/88 Rev.

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 10RE

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS18

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/16/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	
67-64-1	Acetone	71	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	13	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	19	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	29	
1330-20-7	Xylene (total)	180	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-71-8	Dichlorodifluoromethane	29	
75-69-4	Trichlorofluoromethane	10	U
542-88-1	Bis(chloromethyl)ether	20	U
110-75-8	2-Chloroethylvinylether	10	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

HOD Piezometer 10RE

Lab Name: Roy F. Weston, Inc. Work Order: 0000-00-00-0000

Client: Waste Management of

Matrix: WATER

Lab Sample ID: 9006G698-008

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: CLOS18

Level: (low/med) LOW

Date Received: 06/29/90

% Moisture: not dec. _____

Date Analyzed: 07/16/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
78-93-3	2-Butanone	10	U

FORM 1 V-2

12/88 Rev.

F2

GROUNDWATER SAMPLING - JUNE 25 AND 26, 1990
ANALYZED BY WMI ENVIRONMENTAL LABORATORIES

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 01FB
Type: WELL
Sample No: AB9325
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	ND	10.000	MG/L
CRALKMOT01:			
ALKALINITY	ND	10.000	MG/L
CRCHLORI01:			
CHLORIDE	ND	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	ND	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.06	0.050	MG/L
CRSULFAT01:			
SULFATE	ND	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	ND	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	ND	1.000	MG/L
TOTAL ORGANIC CARBON	ND	1.000	MG/L
FDPHSING01:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 01FB
Type: WELL
Sample No: AB9325
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Unit
PH FIELD	7.72	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	1.98	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	NA	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	NA	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	NA	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	28.1	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 01FB
Type: WELL
Sample No: AB9325
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 01FB
Type: WELL
Sample No: AB9325
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	ND	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	ND	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	ND	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	ND	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	ND	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	ND	10.000	UG/L
INICPDISZN:			

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 01FB
Type: WELL
Sample No: AB9325
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 01FB
Type: WELL
Sample No: AB9325
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Unit
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	2.	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 02FB
Type: WELL
Sample No: AB9328
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 30-JUL-1990

EML-Results

Analyte	Result	EMLRL	Units
FDPHSING01:			
PH FIELD	NA	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	NA	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	NA	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	NA	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	NA	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	NA	0.000	DEGREES C

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	331	10.000	MG/L
CRALKMOT01:			
ALKALINITY	359	10.000	MG/L
CRCHLORI01:			
CHLORIDE	33.5	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	1.22	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	ND	0.050	MG/L
CRSULFAT01:			
SULFATE	65.4	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	466	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	1.8	1.000	MG/L
TOTAL ORGANIC CARBON	1.9	1.000	MG/L
FDPHSING01:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	7.48	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	801.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	38.69	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	95.90	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	12	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	15.5	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	84600	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	865	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	53900	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	83.6	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	20700	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	148	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: TBK-1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-199
Date Received: 28-JUL-199
Date Reported: 14-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: TBK-1-D
Type: WELL
Sample No: AB9315
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-S
Type: WELL
Sample No: AB9316
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	314	10.000	MG/L
CRALKMOT01:			
ALKALINITY	343	10.000	MG/L
CRCHLORI01:			
CHLORIDE	35.9	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	ND	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.09	0.050	MG/L
CRSULFAT01:			
SULFATE	67.3	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	486	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	1.9	1.000	MG/L
TOTAL ORGANIC CARBON	1.9	1.000	MG/L
FDPHSING01:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-S
Type: WELL
Sample No: AB9316
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	6.71	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	804.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	2.92	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	15.60	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	15	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	17.2	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

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Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-S
Type: WELL
Sample No: AB9316
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-S
Type: WELL
Sample No: AB9316
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	93900	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	488	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	41000	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	282	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	16600	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	28.1	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

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Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-S
Type: WELL
Sample No: AB9316
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 1-S
Type: WELL
Sample No: AB9316
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 4-S
Type: WELL
Sample No: AB9327
Date Sampled: 26-JUL-199
Date Received: 28-JUL-199
Date Reported: 17-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	340	10.000	MG/L
CRALKMOT01:			
ALKALINITY	364	10.000	MG/L
CRCHLORI01:			
CHLORIDE	68.8	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	ND	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.08	0.050	MG/L
CRSULFAT01:			
SULFATE	118.5	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	615	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	3.5	1.000	MG/L
TOTAL ORGANIC CARBON	3.5	1.000	MG/L
FDPHSING01:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 4-S
Type: WELL
Sample No: AB9327
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 17-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	7.30	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	1020.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	NA	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	25.46	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	5	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	13.8	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
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Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 4-S
Type: WELL
Sample No: AB9327
Date Sampled: 26-JUL-199
Date Received: 28-JUL-199
Date Reported: 17-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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Rev No: 00

Sample Point: 4-S
Type: WELL
Sample No: AB9327
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 17-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	115000	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	26300	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	45200	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	65.4	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	51400	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	182	10.000	UG/L
INICPDISZN:			

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Antioch IL 60002

ENS No: 90-11095
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Rev No: 00

Sample Point: 4-S
Type: WELL
Sample No: AB9327
Date Sampled: 26-JUL-199
Date Received: 28-JUL-199
Date Reported: 17-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	39.7	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 4-S
Type: WELL
Sample No: AB9327
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 17-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	1.8	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 5-D
Type: WELL
Sample No: AB9320
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-199
Date Reported: 14-AUG-199(

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	171	10.000	MG/L
CRALKMOT01:			
ALKALINITY	171	10.000	MG/L
CRCHLORI01:			
CHLORIDE	2.5	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	0.33	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.06	0.050	MG/L
CRSULFAT01:			
SULFATE	80.4	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	295	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	1.1	1.000	MG/L
TOTAL ORGANIC CARBON	1.1	1.000	MG/L
FDPHSING01:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 5-D
Type: WELL
Sample No: AB9320
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	7.86	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	525.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	37.75	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	96.86	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	10	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	14.6	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 5-D
Type: WELL
Sample No: AB9320
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 5-D
Type: WELL
Sample No: AB9320
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	23300	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	ND	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	18300	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	ND	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	54800	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	483	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 5-D
Type: WELL
Sample No: AB9320
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-199(
Date Reported: 14-AUG-199(

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 5-D
Type: WELL
Sample No: AB9320
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-D
Type: WELL
Sample No: AB9317
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-199
Date Reported: 14-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	202	10.000	MG/L
CRALKMOT01:			
ALKALINITY	206	10.000	MG/L
CRCHLORI01:			
CHLORIDE	6.9	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	0.68	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.06	0.050	MG/L
CRSULFAT01:			
SULFATE	86.8	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	344	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	2.3	1.000	MG/L
TOTAL ORGANIC CARBON	2.8	1.000	MG/L
FDPHSING01:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-D
Type: WELL
Sample No: AB9317
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	7.79	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	566.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	40.30	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	85.40	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	6	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	14.3	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-D
Type: WELL
Sample No: AB9317
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-D
Type: WELL
Sample No: AB9317
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	43700	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	644	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	22500	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	26.0	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	46700	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	388	10.000	UG/L
INICPDISZN:			

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-D
Type: WELL
Sample No: AB9317
Date Sampled: 26-JUL-199
Date Received: 28-JUL-19
Date Reported: 14-AUG-19

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

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ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-D
Type: WELL
Sample No: AB9317
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	.7	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-S
Type: WELL
Sample No: AB9319
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-199
Date Reported: 14-AUG-199

EML-Results

Analyte	Result	EMLRL	Unit
CRALKBIC01:			
ALKALINITY,BICARBONATE	343	10.000	MG/L
CRALKMOT01:			
ALKALINITY	366	10.000	MG/L
CRCHLORI01:			
CHLORIDE	40.6	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	ND	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.07	0.050	MG/L
CRSULFAT01:			
SULFATE	102.6	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	577	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	5.5	1.000	MG/L
TOTAL ORGANIC CARBON	5.5	1.000	MG/L
FDPHSING01:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-S
Type: WELL
Sample No: AB9319
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	6.47	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	901.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	5.04	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	43.17	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	17	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	16.0	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-S
Type: WELL
Sample No: AB9319
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-199
Date Reported: 14-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-S
Type: WELL
Sample No: AB9319
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	115000	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	2980	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	48800	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	97.7	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	18700	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	43.5	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-S
Type: WELL
Sample No: AB9319
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: 6-S
Type: WELL
Sample No: AB9319
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: EB01
Type: WELL
Sample No: AB9318
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	ND	10.000	MG/L
CRALKMOT01:			
ALKALINITY	ND	10.000	MG/L
CRCHLORI01:			
CHLORIDE	ND	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	ND	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.07	0.050	MG/L
CRSULFAT01:			
SULFATE	ND	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	ND	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	ND	1.000	MG/L
TOTAL ORGANIC CARBON	ND	1.000	MG/L
FDPHSING01:			

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ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: EB01
Type: WELL
Sample No: AB9318
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	7.41	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	2.04	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	NA	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	NA	0.000	FT MSL
WELL DEPTH TOTAL	NA	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	NA	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	29.1	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

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Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: EB01
Type: WELL
Sample No: AB9318
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-199
Date Reported: 14-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: EB01
Type: WELL
Sample No: AB9318
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	ND	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	ND	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	ND	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	ND	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	ND	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	ND	10.000	UG/L
INICPDISZN:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI Environmental Monitoring Laboratories, Inc.

Bottle Set: A B 9 3 2 7

FIELD INFORMATION FORM

Sample Point: W 4 5 (Source Code)

PURGING INFORMATION

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER VOL IN CASING (Gallons)	ACTUAL VOLUME PURGED (Gallons)
9 0 0 7 2 6 T.B.	1 8 2 0	0 2	2 2	7 0

PURGING AND SAMPLING EQUIPMENT

Purging Equipment ..... Dedicated (Y) N (circle one) Sampling Equipment ..... Dedicated (Y) N (circle one)

Purging Device	C	A-Submersible Pump	D-Gas Lift Pump	G-Bailer	X- PURGING OTHER (SPECIFY)
Sampling Device	C	B-Peristaltic Pump	E-Venturi Pump	H-Scoop/Shovel	X- SAMPLING OTHER (SPECIFY)
		C-Bladder Pump	F-Dipper/Bottle	I-Piston Pump	
Purging Material	A	A-Teflon	C-Polypropylene	E-Polyethylene	X- PURGING OTHER (SPECIFY)
Sampling Material	A	B-Stainless Steel	D-PVC		X- SAMPLING OTHER (SPECIFY)
Tubing-Purging	E	A-Teflon	D-Polypropylene	F-Silicon	X- PURGING OTHER (SPECIFY)
Tubing-Sampling	E	B-Tygon	E-Polyethylene	G-Combination teflon/ Polypropylene	X- SAMPLING OTHER (SPECIFY)
		C-Rope X- (SPECIFY)			
Filtering Devices 0.45 μ:		A-In-line Disposable	B-Pressure	C-Vacuum	

FIELD MEASUREMENTS

Well Elevation	* (ft/msl)	Land Surface Elevation	(ft/ms
Depth to water From top of well casing	** 1 2 0 4 (ft)	Depth to water From land surface	(ft)
Groundwater Elevation	(ft/msl)	Groundwater Elevation	(ft/ms
Well Depth	*** 2 5 4 6 (ft)	Stickup	2 4 1 (ft)

1st	7 3 0 (STD) ph	1st	1 0 2 0 μm/cm at 25° C spec cond.	Sample Temp.	1 3 8 (° C)
2nd	(STD) ph	2nd	μm/cm at 25° C spec cond.	Well dia. (other parameter)	2 value in. unit
3rd	(STD) ph	3rd	μm/cm at 25° C spec cond.	D.O. (other parameter)	5 value mg units
4th	(STD) ph	4th	μm/cm at 25° C spec cond.	(other parameter)	value units

FIELD COMMENTS

Sample Appearance: (if applicable) Odor: None Color: light yellow Tint Turbidity: slightly clo

Weather Conditions: Wind Speed 0-5 mph Direction variable Precipitation Y/N Outlook over cast 80°F

Specific Comments: M.P. - Top of inner casing. ** Taken by P.E. LaMoreaux.
25.46-12.04 = 13.42 x 0.163 = 2.2 ① x 3 = 6.6 ② gal.
- 3 casing volumes obtained at 1830 on 7-26-90.
- Sample taken at 1835 on 7-26-90.
- Well screening was done with Hnu and OVA meters following purging.
- Sample split EML, NET, Coastal Sciences Labs., EMS Heritage.
* Not available in field. ** Reference measurement.

I certify that sampling procedures were in accordance with applicable EPA, State and WMI protocols.

7/26/90 (Date) Timothy J. Buss (Signature) Employer: GCL

EML FF-2A 4/90

LAB

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: EB01
Type: WELL
Sample No: AB9318
Date Sampled: 26-JUL-1990
Date Received: 28-JUL-1990
Date Reported: 14-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: EB01
Type: WELL
Sample No: AB9318
Date Sampled: 26-JUL-199
Date Received: 28-JUL-199
Date Reported: 14-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G102
Type: WELL
Sample No: AB9324
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	361	10.000	MG/L
CRALKMOT01:			
ALKALINITY	378	10.000	MG/L
CRCHLORI01:			
CHLORIDE	72.0	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	0.32	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.10	0.050	MG/L
CRSULFAT01:			
SULFATE	124.8	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	644	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	3.13	1.000	MG/L
TOTAL ORGANIC CARBON	3.21	1.000	MG/L
FDPHSING01:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G102
Type: WELL
Sample No: AB9324
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	6.95	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	1040.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	9.55	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	761.91	0.000	FT MSL
WELL DEPTH TOTAL	25.41	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	26	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	14.9	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	.26	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G102
Type: WELL
Sample No: AB9324
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G102
Type: WELL
Sample No: AB9324
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	118000	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	3980	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	46800	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	86.9	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	49000	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	155	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G102
Type: WELL
Sample No: AB9324
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G102
Type: WELL
Sample No: AB9324
Date Sampled: 25-JUL-199
Date Received: 27-JUL-19
Date Reported: 13-AUG-19

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	392	10.000	MG/L
CRALKMOT01:			
ALKALINITY	410	10.000	MG/L
CRCHLORI01:			
CHLORIDE	58.3	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	0.21	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.10	0.050	MG/L
CRSULFAT01:			
SULFATE	50.8	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	538	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	1.32	1.000	MG/L
TOTAL ORGANIC CARBON	1.58	1.000	MG/L
FDPHSING01:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-199
Date Reported: 13-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	7.10	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	919.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	5.10	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	761.67	0.000	FT MSL
WELL DEPTH TOTAL	37.19	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	33	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	NA	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

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Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-199
Date Received: 27-JUL-19
Date Reported: 13-AUG-19

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	92500	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	2280	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	58300	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	31.3	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	35800	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	234	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	408	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: TBK-G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 10-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: TBK-G14D
Type: WELL
Sample No: AB9321
Date Sampled: 25-JUL-199
Date Received: 27-JUL-19
Date Reported: 10-AUG-19

EML-Results

Analyte	Result	EMLRL	Units
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14S
Type: WELL
Sample No: AB9322
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	301	10.000	MG/L
CRALKMOT01:			
ALKALINITY	320	10.000	MG/L
CRCHLORI01:			
CHLORIDE	6.9	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	ND	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.05	0.050	MG/L
CRSULFAT01:			
SULFATE	106.3	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	472	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	1.18	1.000	MG/L
TOTAL ORGANIC CARBON	1.12	1.000	MG/L
FDPHSING01:			

NA = Not Analyzed **TBK = Trip Blank**
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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14S
Type: WELL
Sample No: AB9322
Date Sampled: 25-JUL-199
Date Received: 27-JUL-19
Date Reported: 13-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	6.94	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	780.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	4.40	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	763.53	0.000	FT MSL
WELL DEPTH TOTAL	11.81	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	27	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	NA	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	ND	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14S
Type: WELL
Sample No: AB9322
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
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Antioch IL 60002

ENS No: 90-11095
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Rev No: 00

Sample Point: G14S
Type: WELL
Sample No: AB9322
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	106000	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	ND	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	43400	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	16.6	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	ND	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	28.8	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14S
Type: WELL
Sample No: AB9322
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
ZINC-DISSOLVED	559	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	ND	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: G14S
Type: WELL
Sample No: AB9322
Date Sampled: 25-JUL-199
Date Received: 27-JUL-199
Date Reported: 13-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: R103
Type: WELL
Sample No: AB9323
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
CRALKBIC01:			
ALKALINITY,BICARBONATE	376	10.000	MG/L
CRALKMOT01:			
ALKALINITY	387	10.000	MG/L
CRCHLORI01:			
CHLORIDE	36.5	0.500	MG/L
CRN02HYD01:			
NITROGEN,NITRITE	ND	0.050	MG/L
CRN2NH3X01:			
NITROGEN, AMMONIA	0.19	0.100	MG/L
CRNO3HYD01:			
NITROGEN, NITRATE	0.18	0.050	MG/L
CRSULFAT01:			
SULFATE	910.8	5.000	MG/L
CRTDSXXX01:			
SOLIDS,TOTAL DISSOLVED	1883	5.000	MG/L
CRTOCDUP01:			
TOTAL ORGANIC CARBON	11.58	1.000	MG/L
TOTAL ORGANIC CARBON	11.61	1.000	MG/L
FDPHSING01:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

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August 20, 1990 12:53 PM

Site Id: 260
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Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-11095
MP No: 260902
Rev No: 00

Sample Point: R103
Type: WELL
Sample No: AB9323
Date Sampled: 25-JUL-199
Date Received: 27-JUL-199
Date Reported: 13-AUG-199

EML-Results

Analyte	Result	EMLRL	Units
PH FIELD	6.74	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	1870.	0.000	UMHOS/CM
FDWDTWLS01:			
DEPTH TO WATER FROM LAND SURFACE	5.58	0.000	FT
FDWGWELWDT:			
GROUNDWATER ELEV.	764.63	0.000	FT MSL
WELL DEPTH TOTAL	28.53	0.000	FT
FDXALKXX01:			
FIELD ALKALINITY	NA	0.000	MG/L
FDXDISO201:			
FIELD DISSOLVED OXYGEN	36	0.000	MG/L
FDXTEMPC01:			
WATER TEMPERATURE IN DEGREES CELSIUS	14.4	0.000	DEGREES C
INCVAADIHG:			
MERCURY-DISSOLVED	.26	0.200	UG/L
INFAADISXK:			
POTASSIUM-DISSOLVED	ND	5000.000	UG/L
INGFAADIAG:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id:	260	**Sample Point:**	R103
Site Name:	H.O.D. Landfill	**Type:**	WELL
Site Type:	Disposal Facility	**Sample No:**	AB9323
Site Address:	55 McMillen Road Antioch IL 60002	**Date Sampled:**	25-JUL-1990
		Date Received:	27-JUL-1990
		Date Reported:	13-AUG-1990
ENS No:	90-11095		
MP No:	260902		
Rev No:	00		

EML-Results

Analyte	Result	EMLRL	Units
SILVER-DISSOLVED	ND	25.000	UG/L
INGFAADIAS:			
ARSENIC-DISSOLVED	ND	10.000	UG/L
INGFAADICD:			
CADMIUM-DISSOLVED	ND	5.000	UG/L
INGFAADICR:			
CHROMIUM-DISSOLVED	ND	10.000	UG/L
INGFAADICU:			
COPPER-DISSOLVED	ND	25.000	UG/L
INGFAADIPB:			
LEAD-DISSOLVED	ND	5.000	UG/L
INGFAADISB:			
ANTIMONY-DISSOLVED	ND	60.000	UG/L
INGFAADISE:			
SELENIUM-DISSOLVED	ND	5.000	UG/L
INGFAADITL:			
THALLIUM-DISSOLVED	ND	10.000	UG/L
INICPDISBA:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

August 20, 1990 12:53 PM

Site Id: 260
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Antioch IL 60002

ENS No: 90-11095
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Sample Point: R103
Type: WELL
Sample No: AB9323
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
BARIUM-DISSOLVED	ND	200.000	UG/L
INICPDISBE:			
BERYLLIUM-DISSOLVED	ND	5.000	UG/L
INICPDISCA:			
CALCIUM-DISSOLVED	352000	5000.000	UG/L
INICPDISFE:			
IRON-DISSOLVED	11000	100.000	UG/L
INICPDISMG:			
MAGNESIUM-DISSOLVED	134000	5000.000	UG/L
INICPDISMN:			
MANGANESE-DISSOLVED	209	15.000	UG/L
INICPDISNA:			
SODIUM-DISSOLVED	26600	5000.000	UG/L
INICPDISNI:			
NICKEL-DISSOLVED	ND	40.000	UG/L
INICPDISXB:			
BORON-DISSOLVED	49.4	10.000	UG/L
INICPDISZN:			

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

'August 20, 1990 12:53 PM

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ENS No: 90-11095
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Rev No: 00

Sample Point: R103
Type: WELL
Sample No: AB9323
Date Sampled: 25-JUL-1990
Date Received: 27-JUL-1990
Date Reported: 13-AUG-1990

EML-Results

nalyte	Result	EMLRL	Units
ZINC-DISSOLVED	ND	20.000	UG/L
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	.5	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L

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WMI ENVIRONMENTAL MONITORING LABORATORIES INC

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Date Reported: 13-AUG-1990

EML-Results

Analyte	Result	EMLRL	Units
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYLBENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	ND	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	ND	0.500	UG/L
TRICHLOROETHENE	4.	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	ND	2.000	UG/L

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

F3

GROUNDWATER SAMPLING - JULY 25, 1990
ANALYZED BY NATIONAL ENVIRONMENTAL TESTING INC.

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114459

Sample Description: G14S
HOD Landfill

Date Taken: 07-25-90 1150

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

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Bartlett, IL 60103

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114459

Sample Description: G14S
HOD Landfill

Date Taken: 07-25-90 1150

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

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Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114459

Sample Description: G14S
HOD Landfill

Date Taken: 07-25-90 1150

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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Bartlett, IL 60103

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114460

Sample Description: R103
HOD Landfill

Date Taken: 07-25-90 1340

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	4.9	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114460

Sample Description: R103
HOD Landfill

Date Taken: 07-25-90 1340

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.5	ug/L
cis-1,2-Dichloroethylene	0.6	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114460

Sample Description: R103
HOD Landfill

Date Taken: 07-25-90 1340

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114461

Sample Description: G102
HOD Landfill

Date Taken: 07-25-90 1440

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114461

Sample Description: G102
HOD Landfill

Date Taken: 07-25-90 1440

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Clayham
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114461

Sample Description: G102
HOD Landfill

Date Taken: 07-25-90 1440

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114462

Sample Description: G14D
HOD Landfill

Date Taken: 07-25-90 1520

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114462

Sample Description: G14D
HOD Landfill

Date Taken: 07-25-90 1520

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114462

Sample Description: G14D
HOD Landfill

Date Taken: 07-25-90 1520

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114463

Sample Description: Trip Blank
HOD Landfill

Date Taken: Unknown

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114463

Sample Description: Trip Blank
HOD Landfill

Date Taken: Unknown

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114463

Sample Description: Trip Blank
HOD Landfill

Date Taken: Unknown

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114464

Sample Description: Field Blank
HOD Landfill

Date Taken: 07-25-90 1540

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114464

Sample Description: Field Blank
HOD Landfill

Date Taken: 07-25-90 1540

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114464

Sample Description: Field Blank
HOD Landfill

Date Taken: 07-25-90 1540

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114465

Sample Description: 1S
HOD Landfill

Date Taken: 07-26-90 1220

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114465

Sample Description: 1S
HOD Landfill

Date Taken: 07-26-90 1220

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114465

Sample Description: 1S
HOD Landfill

Date Taken: 07-26-90 1220

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114466

Sample Description: 1D
HOD Landfill

Date Taken: 07-26-90 1310

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114466

Sample Description: 1D
HOD Landfill

Date Taken: 07-26-90 1310

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
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Northbrook IL 60062

08-21-90

Sample No.: 114466

Sample Description: 1D
HOD Landfill

Date Taken: 07-26-90 1310

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114467

Sample Description: 6D
HOD Landfill

Date Taken: 07-26-90 1455

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	0.7	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114467

Sample Description: 6D
HOD Landfill

Date Taken: 07-26-90 1455

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114467

Sample Description: 6D
HOD Landfill

Date Taken: 07-26-90 1455

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114468

Sample Description: EB
HOD Landfill

Date Taken: 07-26-90 1520

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114468

Sample Description: EB
HOD Landfill

Date Taken: 07-26-90 1520

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

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1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114468

Sample Description: EB
HOD Landfill

Date Taken: 07-26-90 1520

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114469

Sample Description: 6S
HOD Landfill

Date Taken: 07-26-90 1620

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114469

Sample Description: 6S
HOD Landfill

Date Taken: 07-26-90 1620

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114469

Sample Description: 6S
HOD Landfill

Date Taken: 07-26-90 1620

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114470

Sample Description: 5D
HOD Landfill

Date Taken: 07-26-90 1755

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114470

Sample Description: 5D
HOD Landfill

Date Taken: 07-26-90 1755

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114470

Sample Description: 5D
HOD Landfill

Date Taken: 07-26-90 1755

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<1.0	ug/L

Neal E Cleghorn

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Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114471

Sample Description: 4S
HOD Landfill

Date Taken: 07-26-90 1835

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E Cleghorn

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114471

Sample Description: 4S
HOD Landfill

Date Taken: 07-26-90 1835

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	33.3	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114471

Sample Description: 4S
HOD Landfill

Date Taken: 07-26-90 1835

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114472

Sample Description: TLP-1
HOD Landfill

Date Taken: 07-27-90 1025

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	<0.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114472

Sample Description: TLP-1
HOD Landfill

Date Taken: 07-27-90 1025

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	<0.5	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	<0.5	ug/L
m-Xylene	<0.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	<0.5	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114472

Sample Description: TLP-1
HOD Landfill

Date Taken: 07-27-90 1025

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	<0.5	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	<0.5	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	<0.5	ug/L
p-Isopropyltoluene	<0.5	ug/L
Isopropylbenzene	<0.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114473

Sample Description: TLP-3
HOD Landfill

Date Taken: 07-27-90 1110

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	13.8	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114473

Sample Description: TLP-3
HOD Landfill

Date Taken: 07-27-90 1110

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	0.6	ug/L
Chlorobenzene	2.6	ug/L
m-Dichlorobenzene	10.0	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	1.4	ug/L
Toluene	2.4	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	14.8	ug/L
m-Xylene	29.8	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	5.6	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114473

Sample Description: TLP-3
HOD Landfill

Date Taken: 07-27-90 1110

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	72.0	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	6.3	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	22.3	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	12.0	ug/L
p-Isopropyltoluene	4.4	ug/L
Isopropylbenzene	5.7	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	2.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114474

Sample Description: TLP-4
HOD Landfill

Date Taken: 07-27-90 1220

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	8.5	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	<0.5	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	<0.5	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114474

Sample Description: TLP-4
HOD Landfill

Date Taken: 07-27-90 1220

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	8.2	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	<0.5	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	1.2	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	21.8	ug/L
m-Xylene	47.5	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	8.4	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	<0.5	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114474

Sample Description: TLP-4
HOD Landfill

Date Taken: 07-27-90 1220

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	31.3	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	3.1	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	<0.5	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	9.7	ug/L
p-Isopropyltoluene	1.3	ug/L
Isopropylbenzene	2.5	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114475

Sample Description: TLP-5; No sample obtained
HOD Landfill

Date Taken: 07-27-90 1220

Date Received: 07-30-90 1030

Neal E. Cleghorn
Project Manager

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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114476

Sample Description: TLP-2
HOD Landfill

Date Taken: 07-27-90 1320

Date Received: 07-30-90 1030

VOLATILE ORGANIC COMPOUNDS

Benzene	17.3	ug/L
Vinyl Chloride	<2.0	ug/L
Carbon Tetrachloride	<0.5	ug/L
1,2-Dichloroethane	<0.5	ug/L
Trichloroethylene	0.6	ug/L
1,1-Dichloroethylene	<0.5	ug/L
1,1,1-Trichloroethane	<0.5	ug/L
p-Dichlorobenzene	31.2	ug/L
Bromodichloromethane	<0.5	ug/L
Bromoform	<0.5	ug/L
Chloroform	<0.5	ug/L
Dibromochloromethane	<0.5	ug/L

Neal E Cleghorn

Neal E. Cleghorn
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ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114476

Sample Description: TLP-2
HOD Landfill

Date Taken: 07-27-90 1320

Date Received: 07-30-90 1030

SYNTHETIC ORG. CHEMICALS

trans-1,2-Dichloroethylene	<0.5	ug/L
Chlorobenzene	<0.5	ug/L
m-Dichlorobenzene	<0.5	ug/L
Dichloromethane	<2.0	ug/L
cis-1,2-Dichloroethylene	0.6	ug/L
o-Dichlorobenzene	<0.5	ug/L
Dibromomethane	<0.5	ug/L
1,1-Dichloropropene	<0.5	ug/L
Tetrachloroethylene	<0.5	ug/L
Toluene	138.	ug/L
p-Xylene	<0.5	ug/L
o-Xylene	46.2	ug/L
m-Xylene	103.	ug/L
1,1-Dichloroethane	<0.5	ug/L
1,2-Dichloropropane	<0.5	ug/L
1,1,2,2-Tetrachloroethane	<0.5	ug/L
Ethylbenzene	54.6	ug/L
1,3-Dichloropropane	<0.5	ug/L
Styrene	<0.5	ug/L
Chloromethane	<0.5	ug/L
Bromomethane	<0.5	ug/L
1,2,3-Trichloropropane	<0.5	ug/L
1,1,1,2-Tetrachloroethane	<0.5	ug/L
Chloroethane	<0.5	ug/L
1,1,2-Trichloroethane	<0.5	ug/L
2,2-Dichloropropane	<0.5	ug/L
o-Chlorotoluene	6.0	ug/L
p-Chlorotoluene	<0.5	ug/L
Bromobenzene	<0.5	ug/L

Neal E. Cleghorn
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Ken Gelting
LAKE LANDFILL
1300 Willow Road
Northbrook IL 60062

08-21-90

Sample No.: 114476

Sample Description: TLP-2
HOD Landfill

Date Taken: 07-27-90 1320

Date Received: 07-30-90 1030

1,3-Dichloropropene	<0.5	ug/L
Ethylene dibromide	<0.5	ug/L
1,2-Dibromo-3chloropropane	<0.5	ug/L
1,2,4-Trimethylbenzene	11.0	ug/L
1,2,4-Trichlorobenzene	<0.5	ug/L
1,2,3-Trichlorobenzene	<0.5	ug/L
n-Propylbenzene	1.9	ug/L
n-Butylbenzene	<0.5	ug/L
Naphthalene	6.1	ug/L
Hexachlorobutadiene	<0.5	ug/L
1,3,5-Trimethylbenzene	3.0	ug/L
p-Isopropyltoluene	13.8	ug/L
Isopropylbenzene	2.9	ug/L
tert-Butylbenzene	<0.5	ug/L
sec-Butylbenzene	<0.5	ug/L
Fluorotrichloromethane	<0.5	ug/L
Dichlorodifluoromethane	<0.5	ug/L
Bromochloromethane	<0.5	ug/L

Neal E. Cleghorn
Project Manager

F4

LEACHATE SAMPLING - JULY 27, 1990
ANALYZED BY WESTON-GULF COAST LABORATORIES

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Trip Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-001
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	BDL	1	U
Chloroethane	BDL	0.6	U
Methylene Chloride	20	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	BDL	1	U
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	BDL	2	U
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Trip Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-001
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	BDL	3	U
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	BDL	0.8	U
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	BDL	0.7	U
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	BDL	1	U
Chlorobenzene	BDL	1	U
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	BDL	0.9	U

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Trip Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-001
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	BDL	1	U
m-Xylene	BDL	1	U
o-Xylene	BDL	2	U
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	BDL	2	U
Isopropylbenzene	BDL	1	U
n-Propylbenzene	BDL	1	U
2-Chlorotoluene	BDL	2	U
4-Chlorotoluene	BDL	2	U
1,3,5-Trimethylbenzene	BDL	1	U
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	BDL	2	U
sec-Butylbenzene	BDL	1	U
p-Isopropyltoluene	BDL	2	U
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	BDL	2	U

WESTON
MANAGERS DESIGNERS/CONSULTANTS

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ANALYTICAL REPORT

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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Trip Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-001
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	BDL	2	U
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	16	3	B
Carbon Disulfide	BDL	1	U
2-Butanone	BDL	2	U
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

WESTON-GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Trip Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-001
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

WESTON
MANAGERS DESIGNERS/CONSULTANTS

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-75

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-002
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	BDL	1	U
Chloroethane	BDL	0.6	U
Methylene Chloride	24	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	BDL	1	U
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	BDL	2	U
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-002
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	BDL	3	U
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	BDL	0.8	U
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	BDL	0.7	U
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	BDL	1	U
Chlorobenzene	BDL	1	U
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	BDL	0.9	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7[illegible]

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-002
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	BDL	1	U
m-Xylene	BDL	1	U
o-Xylene	BDL	2	U
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	BDL	2	U
Isopropylbenzene	BDL	1	U
n-Propylbenzene	BDL	1	U
2-Chlorotoluene	BDL	2	U
4-Chlorotoluene	BDL	2	U
1,3,5-Trimethylbenzene	BDL	1	U
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	BDL	2	U
sec-Butylbenzene	BDL	1	U
p-Isopropyltoluene	BDL	2	U
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	BDL	2	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-002
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	BDL	2	U
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	16	3	B
Carbon Disulfide	BDL	1	U
2-Butanone	BDL	2	U
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

WESTON
MANAGERS DESIGNERS/CONSULTANTS

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-753C

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9007G286-002
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Tuesday September 11th, 1990

RE: HOD TLP 1
Project # 0000-00-00-0000
Lab ID: 9007G286-003
Sample Date: 07/27/90
Date Received: 07/27/90

Inorganic Client Data Report

Parameters	Result		Units	Reporting Limit
Alkalinity	1400		mg/L	10.0
Bicarbonate	1400		mg/L	10.0
Chloride	1900		mg/L	50
Nitrate Nitrite	0.10	u	mg/L	0.10
Ammonia, as Nitrogen	330		mg/L	10.0
Total Organic Carbon	330		mg/L	10.0
TOC Test 2	322		mg/L	10.0
Sulfate	5.0	u	mg/L	5.0
Total Dissolved Solid	3700		mg/L	10
Silver, Total	0.030	u	mg/L	0.030
Arsenic, Total	0.028		mg/L	0.016
Boron, Total	1.3		mg/L	0.10
Barium, Total	0.29		mg/L	0.050
Beryllium, Total	0.0020	u	mg/L	0.0020
Calcium, Total	49.8		mg/L	0.10
Cadmium, Total	0.019		mg/L	0.0040
Chromium, Total	0.27		mg/L	0.020

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-75

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Tuesday September 11th, 1990

RE: HOD TLP 1
Project # 0000-00-00-0000
Lab ID: 9007G286-003
Sample Date: 07/27/90
Date Received: 07/27/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Copper, Total	0.20	mg/L	0.020
Iron, Total	133	mg/L	0.030
Mercury, Total	0.00056	mg/L	0.00020
Potassium, Total	328	mg/L	0.20
Magnesium, Total	55.7	mg/L	0.20
Manganese, Total	0.83	mg/L	0.010
Sodium, Total	817	mg/L	0.050
Nickel, Total	0.14	mg/L	0.020
Lead, Total	1.3	mg/L	0.0050
Antimony, Total	0.50 u	mg/L	0.50
Selenium, Total	0.0080 u	mg/L	0.0080
Thallium, Total	0.12	mg/L	0.010
Zinc, Total	2.8	mg/L	0.010

WESTON-GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 1
Project # 0000-00-00-0000
Lab ID: 9007G286-003
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	7	1	
Chloroethane	BDL	0.6	U
Methylene Chloride	23	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	BDL	1	U
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	7	2	
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 1
Project # 0000-00-00-0000
Lab ID: 9007G286-003
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	BDL	3	U
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	5	0.8	
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	BDL	0.7	U
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	9	1	
Chlorobenzene	BDL	1	U
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	45	0.9	

WESTON-GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

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North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 1
Project # 0000-00-00-0000
Lab ID: 9007G286-003
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	60	1	
m-Xylene	60	1	
o-Xylene	68	2	
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	BDL	2	U
Isopropylbenzene	3	1	
n-Propylbenzene	4	1	
2-Chlorotoluene	BDL	2	U
4-Chlorotoluene	BDL	2	U
1,3,5-Trimethylbenzene	10	1	
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	36	2	
sec-Butylbenzene	BDL	1	U
p-Isopropyltoluene	12	2	
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	16	2	

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ANALYTICAL REPORT

To: Waste Management of
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1300 Willow Road
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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 1
Project # 0000-00-00-0000
Lab ID: 9007G286-003
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	17	2	
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	42	3	B
Carbon Disulfide	BDL	1	U
2-Butanone	BDL	2	U
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 1
Project # 0000-00-00-0000
Lab ID: 9007G286-003
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

Tentatively Identified Compounds

9 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration	
SUBST.BENZENE C9H12	25.69	30	J
SUBST.BENZENE C9H12	26.55	20	J
SUBST.BENZENE C9H12	28.45	30	J
AROMATIC HYDROCARBON C9H10	28.95	8	J
SUBST.BENZENE C10H14 + HC	30.61	10	J
SUBST.BENZENE C10H14	30.91	10	J
UNKNOWN C10H16O	31.94	20	J
SUBST.BENZENE C10H14	33.68	10	J
UNKNOWN C10H16O	34.46	40	J

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Tuesday September 11th, 1990

RE: HOD TLP 2
Project # 0000-00-00-0000
Lab ID: 9007G286-004
Sample Date: 07/27/90
Date Received: 07/27/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Nitrate Nitrite	2.2	mg/L	0.20
Ammonia, as Nitrogen	263	mg/L	10.0
Total Organic Carbon	304	mg/L	10.0
TOC Test 2	303	mg/L	10.0
Silver, Total	0.030 u	mg/L	0.030
Arsenic, Total	0.042	mg/L	0.016
Boron, Total	0.63	mg/L	0.10
Barium, Total	0.55	mg/L	0.050
Beryllium, Total	0.0020 u	mg/L	0.0020
Calcium, Total	564	mg/L	0.10
Cadmium, Total	0.0040 u	mg/L	0.0040
Chromium, Total	0.16	mg/L	0.020
Copper, Total	0.39	mg/L	0.020
Iron, Total	394	mg/L	0.030
Mercury, Total	0.00027	mg/L	0.00020
Potassium, Total	224	mg/L	0.20
Magnesium, Total	290	mg/L	0.20

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ANALYTICAL REPORT

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Attn: Mr. Ken Gelting

Date: Tuesday September 11th, 1990

RE: HOD TLP 2
Project # 0000-00-00-0000
Lab ID: 9007G286-004
Sample Date: 07/27/90
Date Received: 07/27/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Manganese, Total	3.6	mg/L	0.010
Sodium, Total	443	mg/L	0.050
Nickel, Total	0.14	mg/L	0.020
Lead, Total	0.23	mg/L	0.0050
Antimony, Total	0.50 u	mg/L	0.50
Selenium, Total	0.0080 µ	mg/L	0.0080
Thallium, Total	0.27	mg/L	0.010
Zinc, Total	0.72	mg/L	0.010

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North America
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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 2
Project # 0000-00-00-0000
Lab ID: 9007G286-004
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	BDL	1	U
Chloroethane	BDL	0.6	U
Methylene Chloride	12	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	BDL	1	U
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	BDL	2	U
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

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Date: Friday August 17th, 1990

RE: HOD TLP 2
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Lab ID: 9007G286-004
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	BDL	3	U
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	15	0.8	
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	BDL	0.7	U
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	92	1	
Chlorobenzene	BDL	1	U
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	48	0.9	

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Date: Friday August 17th, 1990

RE: HOD TLP 2
Project # 0000-00-00-0000
Lab ID: 9007G286-004
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	46	1	
m-Xylene	46	1	
o-Xylene	42	2	
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	BDL	2	U
Isopropylbenzene	3	1	
n-Propylbenzene	2	1	
2-Chlorotoluene	4	2	
4-Chlorotoluene	2	2	
1,3,5-Trimethylbenzene	3	1	
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	10	2	
sec-Butylbenzene	BDL	1	U
p-Isopropyltoluene	14	2	
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	25	2	

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Lab ID: 9007G286-004
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	5	2	
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	69	3	B
Carbon Disulfide	BDL	1	U
2-Butanone	85	2	
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 2
Project # 0000-00-00-0000
Lab ID: 9007G286-004
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

Tentatively Identified Compounds

2 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
ETHYL ETHER	5.62	30 J
UNKNOWN C10H16O	31.98	9 J

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Tuesday September 11th, 1990

RE: HOD TLP 3
Project # 0000-00-00-0000
Lab ID: 9007G286-005
Sample Date: 07/27/90
Date Received: 07/27/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Alkalinity	2040	mg/L	10.0
Bicarbonate	2040	mg/L	10.0
Chloride	430	mg/L	50
Nitrate Nitrite	0.36	mg/L	0.10
Ammonia, as Nitrogen	107	mg/L	5.0
Total Organic Carbon	70.3	mg/L	10.0
TOC Test 2	72.6	mg/L	10.0
Sulfate	30.7	mg/L	5.0
Total Dissolved Solid	2000	mg/L	10
Silver, Total	0.030 u	mg/L	0.030
Arsenic, Total	0.020	mg/L	0.016
Boron, Total	2.0	mg/L	0.10
Barium, Total	0.47	mg/L	0.050
Beryllium, Total	0.0020 u	mg/L	0.0020
Calcium, Total	129	mg/L	0.10
Cadmium, Total	0.0040 u	mg/L	0.0040
Chromium, Total	0.066	mg/L	0.020

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Date: Tuesday September 11th, 1990

RE: HOD TLP 3
Project # 0000-00-00-0000
Lab ID: 9007G286-005
Sample Date: 07/27/90
Date Received: 07/27/90

Inorganic Client Data Report

Parameters	Result		Units	Reporting Limit
Copper, Total	0.11		mg/L	0.020
Iron, Total	144		mg/L	0.030
Mercury, Total	0.00027		mg/L	0.00020
Potassium, Total	133		mg/L	0.20
Magnesium, Total	132		mg/L	0.20
Manganese, Total	0.89		mg/L	0.010
Sodium, Total	331		mg/L	0.050
Nickel, Total	0.064		mg/L	0.020
Lead, Total	0.26		mg/L	0.0050
Antimony, Total	0.50	u	mg/L	0.50
Selenium, Total	0.0080	u	mg/L	0.0080
Thallium, Total	0.11		mg/L	0.010
Zinc, Total	0.88		mg/L	0.010

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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 3
Project # 0000-00-00-0000
Lab ID: 9007G286-005
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	BDL	1	U
Chloroethane	BDL	0.6	U
Methylene Chloride	23	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	BDL	1	U
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	BDL	2	U
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

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2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-75[illegible]

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 3
Project # 0000-00-00-0000
Lab ID: 9007G286-005
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	BDL	3	U
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	16	0.8	
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	1	0.7	
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	3	1	
Chlorobenzene	2	1	
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	4	0.9	

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Date: Friday August 17th, 1990

RE: HOD TLP 3
Project # 0000-00-00-0000
Lab ID: 9007G286-005
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	11	1	
m-Xylene	11	1	
o-Xylene	12	2	
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	BDL	2	U
Isopropylbenzene	4	1	
n-Propylbenzene	6	1	
2-Chlorotoluene	BDL	2	U
4-Chlorotoluene	BDL	2	U
1,3,5-Trimethylbenzene	7	1	
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	45	2	
sec-Butylbenzene	2	1	
p-Isopropyltoluene	4	2	
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	9	2	

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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 3
Project # 0000-00-00-0000
Lab ID: 9007G286-005
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	11	2	
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	BDL	3	U
Carbon Disulfide	13	1	
2-Butanone	BDL	2	U
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 3
Project # 0000-00-00-0000
Lab ID: 9007G286-005
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

Tentatively Identified Compounds

10 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration	
ETHYL ETHER	5.59	40	J
PROPYL-BENZENE	25.38	9	J
SUBST.BENZENE C9H12	26.60	20	J
SUBST.BENZENE C9H12	28.50	30	J
AROMATIC HYDROCARBON C9H10	29.01	8	J
SUBST.BENZENE C10H14	29.50	10	J
SUBST.BENZENE C10H14	29.78	10	J
SUBST.BENZENE C10H14	30.96	10	J
SUBST.BENZENE C10H14	32.43	10	J
SUBST.BENZENE C10H14	33.75	10	J

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Tuesday September 11th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006
Sample Date: 07/27/90
Date Received: 07/27/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Total Organic Carbon	122	mg/L	10.0
TOC Test 2	125	mg/L	10.0

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ANALYTICAL REPORT

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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	BDL	1	U
Chloroethane	BDL	0.6	U
Methylene Chloride	12	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	BDL	1	U
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	BDL	2	U
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

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RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	BDL	3	U
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	17	0.8	
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	BDL	0.7	U
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	2	1	
Chlorobenzene	6	1	
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	11	0.9	

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Lab ID: 9007G286-006
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	27	1	
m-Xylene	27	1	
o-Xylene	27	2	
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	BDL	2	U
Isopropylbenzene	3	1	
n-Propylbenzene	5	1	
2-Chlorotoluene	BDL	2	U
4-Chlorotoluene	BDL	2	U
1,3,5-Trimethylbenzene	11	1	
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	39	2	
sec-Butylbenzene	BDL	1	U
p-Isopropyltoluene	2	2	
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	11	2	

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North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	13	2	
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	29	3	B
Carbon Disulfide	3	1	
2-Butanone	BDL	2	U
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

Tentatively Identified Compounds

10 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
Unknown	18.81	8 J
SUBST.BENZENE C9H12	25.73	40 J
SUBST.BENZENE C9H12	26.59	20 J
SUBST.BENZENE C9H12	28.48	20 J
AROMATIC HYDROCARBON C9H10	28.97	7 J
SUBST.BENZENE C10H14	29.47	6 J
SUBST.BENZENE C10H14	29.79	6 J
SUBST.BENZENE C10H14	30.66	8 J
SUBST.BENZENE C10H14	30.95	8 J
UNKNOWN C10H16O	34.49	7 J

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006 MS
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	BDL	1	U
Chloroethane	BDL	0.6	U
Methylene Chloride	20	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	47%	1	S
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	BDL	2	U
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

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Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006 MS
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	87%	3	S
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	78%	0.8	S
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	BDL	0.7	U
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	86%	1	S
Chlorobenzene	99%	1	S
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	11	0.9	

WESTON
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WESTON-GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

To: Waste Management of
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1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006 MS
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	27	1	
m-Xylene	27	1	
o-Xylene	26	2	
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	10	2	
Isopropylbenzene	3	1	
n-Propylbenzene	5	1	
2-Chlorotoluene	BDL	2	U
4-Chlorotoluene	BDL	2	U
1,3,5-Trimethylbenzene	11	1	
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	37	2	
sec-Butylbenzene	BDL	1	U
p-Isopropyltoluene	2	2	
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	10	2	

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Sample Date: 07/27/90
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Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	12	2	
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	30	3	B
Carbon Disulfide	6	1	
2-Butanone	BDL	2	U
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006 MSD
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	1	U
Chloromethane	BDL	1	U
Bromomethane	BDL	0.6	U
Vinyl Chloride	BDL	1	U
Chloroethane	BDL	0.6	U
Methylene Chloride	17	4	B
Trichlorofluoromethane	BDL	3	U
1,1-Dichloroethene	45%	1	S
1,1-Dichloroethane	BDL	1	U
cis-1,2-Dichloroethene	BDL	2	U
2,2-Dichloropropane	BDL	2	U
trans-1,2-Dichloroethene	BDL	1	U
Chloroform	BDL	1	U
Bromochloromethane	BDL	1	U
1,2-Dichloroethane	BDL	1	U
1,1,1-Trichloroethane	BDL	0.8	U
Carbon Tetrachloride	BDL	0.6	U

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Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Friday August 17th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9007G286-006 MSD
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.8	U
Bromodichloromethane	BDL	1	U
Dibromomethane	BDL	2	U
1,2-Dichloropropane	BDL	4	U
Trichloroethene	89%	3	S
Dibromochloromethane	BDL	1	U
1,2-Dibromoethane	BDL	1	U
1,1,2-Trichloroethane	BDL	1	U
Benzene	79%	0.8	S
1,3-Dichloropropane	BDL	1	U
Bromoform	BDL	1	U
Tetrachloroethene	BDL	0.7	U
1,1,2,2-Tetrachloroethane	BDL	2	U
Toluene	89%	1	S
Chlorobenzene	104%	1	S
1,1,1,2-Tetrachlorethane	BDL	1	U
Ethylbenzene	11	0.9	

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Lab ID: 9007G286-006 MSD
Sample Date: 07/27/90
Date Received: 07/27/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	4	U
p-Xylene	27	1	
m-Xylene	27	1	
o-Xylene	25	2	
Bromobenzene	BDL	2	U
1,2,3-Trichloropropane	11	2	
Isopropylbenzene	3	1	
n-Propylbenzene	5	1	
2-Chlorotoluene	BDL	2	U
4-Chlorotoluene	BDL	2	U
1,3,5-Trimethylbenzene	11	1	
tert-Butylbenzene	BDL	1	U
1,2,4-Trimethylbenzene	37	2	
sec-Butylbenzene	BDL	1	U
p-Isopropyltoluene	2	2	
1,3-Dichlorobenzene	BDL	2	U
1,4-Dichlorobenzene	10	2	

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Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	2	U
n-Butylbenzene	BDL	2	U
1,2-Dibromo-3-Chloropropane	BDL	3	U
1,2,4-Trichlorobenzene	BDL	3	U
Hexachlorobutadiene	BDL	2	U
Naphthalene	11	2	
1,2,3-Trichlorobenzene	BDL	3	U
cis-1,3-Dichloropropene	BDL	0.8	U
trans-1,3-Dichloropropene	BDL	1	U
Acetone	39	3	B
Carbon Disulfide	6	1	
2-Butanone	BDL	2	U
Vinyl Acetate	BDL	2	U
4-Methyl-2-pentanone	BDL	1	U
2-Hexanone	BDL	2	U
2-Chloroethylvinylether	BDL	1	U

F5

LEACHATE SAMPLING - AUGUST 10, 1990
ANALYZED BY WESTON-GULF COAST LABORATORIES

WESTON
MANAGERS DESIGNERS/CONSULTANTS

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD Trip Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-001
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.2	U
Bromodichloromethane	BDL	0.2	U
Dibromomethane	BDL	0.4	U
1,2-Dichloropropane	BDL	0.9	U
Trichloroethene	BDL	0.6	U
Dibromochloromethane	BDL	0.2	U
1,2-Dibromoethane	BDL	0.2	U
1,1,2-Trichloroethane	BDL	0.2	U
Benzene	BDL	0.2	U
1,3-Dichloropropane	BDL	0.2	U
Bromoform	BDL	0.3	U
Tetrachloroethene	BDL	0.1	U
1,1,2,2-Tetrachloroethane	BDL	0.4	U
Toluene	BDL	0.2	U
Chlorobenzene	BDL	0.2	U
1,1,1,2-Tetrachlorethane	BDL	0.2	U
Ethylbenzene	BDL	0.2	U

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Project # 0000-00-00-0000
Lab ID: 9008G603-001
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	0.2	U
Chloromethane	BDL	0.2	U
Bromomethane	BDL	0.1	U
Vinyl Chloride	BDL	0.2	U
Chloroethane	BDL	0.1	U
Methylene Chloride	5	0.8	
Trichlorofluoromethane	BDL	0.5	U
1,1-Dichloroethene	BDL	0.2	U
1,1-Dichloroethane	BDL	0.3	U
cis-1,2-Dichloroethene	BDL	0.3	U
2,2-Dichloropropane	BDL	0.3	U
trans-1,2-Dichloroethene	BDL	0.2	U
Chloroform	BDL	0.3	U
Bromochloromethane	BDL	0.3	U
1,2-Dichloroethane	BDL	0.3	U
1,1,1-Trichloroethane	BDL	0.2	U
Carbon Tetrachloride	BDL	0.1	U

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Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: **HOD Trip Blank**
Project # 0000-00-00-0000
Lab ID: 9008G603-001
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	0.3	U
n-Butylbenzene	BDL	0.3	U
1,2-Dibromo-3-Chloropropane	BDL	0.6	U
1,2,4-Trichlorobenzene	BDL	0.5	U
Hexachlorobutadiene	BDL	0.5	U
Naphthalene	BDL	0.4	U
1,2,3-Trichlorobenzene	BDL	0.7	U
cis-1,3-Dichloropropene	BDL	0.2	U
trans-1,3-Dichloropropene	BDL	0.2	U
Acetone	BDL	0.5	U
Carbon Disulfide	BDL	0.2	U
2-Butanone	BDL	0.4	U
Vinyl Acetate	BDL	0.4	U
4-Methyl-2-pentanone	BDL	0.3	U
2-Hexanone	BDL	0.3	U
2-Chloroethylvinylether	BDL	0.2	U

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Lab ID: 9008G603-001
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	0.8	U
p-Xylene	BDL	0.2	U
m-Xylene	BDL	0.2	U
o-Xylene	BDL	0.4	U
Bromobenzene	BDL	0.3	U
1,2,3-Trichloropropane	BDL	0.4	U
Isopropylbenzene	BDL	0.3	U
n-Propylbenzene	BDL	0.3	U
2-Chlorotoluene	BDL	0.3	U
4-Chlorotoluene	BDL	0.3	U
1,3,5-Trimethylbenzene	BDL	0.3	U
tert-Butylbenzene	BDL	0.3	U
1,2,4-Trimethylbenzene	BDL	0.3	U
sec-Butylbenzene	BDL	0.3	U
p-Isopropyltoluene	BDL	0.3	U
1,3-Dichlorobenzene	BDL	0.3	U
1,4-Dichlorobenzene	BDL	0.3	U

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-002
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	0.2	U
Chloromethane	BDL	0.2	U
Bromomethane	BDL	0.1	U
Vinyl Chloride	BDL	0.2	U
Chloroethane	BDL	0.1	U
Methylene Chloride	0.9	0.8	
Trichlorofluoromethane	BDL	0.5	U
1,1-Dichloroethene	BDL	0.2	U
1,1-Dichloroethane	BDL	0.3	U
cis-1,2-Dichloroethene	BDL	0.3	U
2,2-Dichloropropane	BDL	0.3	U
trans-1,2-Dichloroethene	BDL	0.2	U
Chloroform	BDL	0.3	U
Bromochloromethane	BDL	0.3	U
1,2-Dichloroethane	BDL	0.3	U
1,1,1-Trichloroethane	BDL	0.2	U
Carbon Tetrachloride	BDL	0.1	U

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD Trip Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-001
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

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RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-002
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	0.8	U
p-Xylene	BDL	0.2	U
m-Xylene	BDL	0.2	U
o-Xylene	BDL	0.4	U
Bromobenzene	BDL	0.3	U
1,2,3-Trichloropropane	BDL	0.4	U
Isopropylbenzene	BDL	0.3	U
n-Propylbenzene	BDL	0.3	U
2-Chlorotoluene	BDL	0.3	U
4-Chlorotoluene	BDL	0.3	U
1,3,5-Trimethylbenzene	BDL	0.3	U
tert-Butylbenzene	BDL	0.3	U
1,2,4-Trimethylbenzene	BDL	0.3	U
sec-Butylbenzene	BDL	0.3	U
p-Isopropyltoluene	BDL	0.3	U
1,3-Dichlorobenzene	BDL	0.3	U
1,4-Dichlorobenzene	BDL	0.3	U

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RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-002
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	0.8	U
p-Xylene	BDL	0.2	U
m-Xylene	BDL	0.2	U
o-Xylene	BDL	0.4	U
Bromobenzene	BDL	0.3	U
1,2,3-Trichloropropane	BDL	0.4	U
Isopropylbenzene	BDL	0.3	U
n-Propylbenzene	BDL	0.3	U
2-Chlorotoluene	BDL	0.3	U
4-Chlorotoluene	BDL	0.3	U
1,3,5-Trimethylbenzene	BDL	0.3	U
tert-Butylbenzene	BDL	0.3	U
1,2,4-Trimethylbenzene	BDL	0.3	U
sec-Butylbenzene	BDL	0.3	U
p-Isopropyltoluene	BDL	0.3	U
1,3-Dichlorobenzene	BDL	0.3	U
1,4-Dichlorobenzene	BDL	0.3	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-002
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.2	U
Bromodichloromethane	BDL	0.2	U
Dibromomethane	BDL	0.4	U
1,2-Dichloropropane	BDL	0.9	U
Trichloroethene	BDL	0.6	U
Dibromochloromethane	BDL	0.2	U
1,2-Dibromoethane	BDL	0.2	U
1,1,2-Trichloroethane	BDL	0.2	U
Benzene	BDL	0.2	U
1,3-Dichloropropane	BDL	0.2	U
Bromoform	BDL	0.3	U
Tetrachloroethene	BDL	0.1	U
1,1,2,2-Tetrachloroethane	BDL	0.4	U
Toluene	BDL	0.2	U
Chlorobenzene	BDL	0.2	U
1,1,1,2-Tetrachlorethane	BDL	0.2	U
Ethylbenzene	BDL	0.2	U

WESTON-GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-002
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	0.3	U
n-Butylbenzene	BDL	0.3	U
1,2-Dibromo-3-Chloropropane	BDL	0.6	U
1,2,4-Trichlorobenzene	BDL	0.5	U
Hexachlorobutadiene	BDL	0.5	U
Naphthalene	BDL	0.4	U
1,2,3-Trichlorobenzene	BDL	0.7	U
cis-1,3-Dichloropropene	BDL	0.2	U
trans-1,3-Dichloropropene	BDL	0.2	U
Acetone	BDL	0.5	U
Carbon Disulfide	BDL	0.2	U
2-Butanone	BDL	0.4	U
Vinyl Acetate	BDL	0.4	U
4-Methyl-2-pentanone	BDL	0.3	U
2-Hexanone	BDL	0.3	U
2-Chloroethylvinylether	BDL	0.2	U

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD Field Blank
Project # 0000-00-00-0000
Lab ID: 9008G603-002
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

WESTON-GULF-COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 2
Project # 0000-00-00-0000
Lab ID: 9008G603-003
Sample Date: 08/10/90
Date Received: 08/10/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Alkalinity	2410	mg/L	10.0
Bicarbonate	2410	mg/L	10.0
Chloride	1000	mg/L	50
Sulfate	114	mg/L	20.0
Total Dissolved Solid	3800	mg/L	10

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9008G603-004
Sample Date: 08/10/90
Date Received: 08/10/90

Inorganic Client Data Report

Parameters	Result		Units	Reporting Limit
Alkalinity	21.3		mg/L	10.0
Bicarbonate	21.3		mg/L	10.0
Chloride	780		mg/L	50
Nitrate Nitrite	0.12		mg/L	0.10
Ammonia, as Nitrogen	239		mg/L	40.0
Sulfate	5.0	u	mg/L	5.0
Total Dissolved Solid	3800		mg/L	10
Silver, Total	0.030	u	mg/L	0.030
Arsenic, Total	0.016	u	mg/L	0.016
Boron, Total	2.5		mg/L	0.010
Barium, Total	0.36		mg/L	0.050
Beryllium, Total	0.0020	u	mg/L	0.0020
Calcium, Total	76.8		mg/L	0.10
Cadmium, Total	0.0040	u	mg/L	0.0040
Chromium, Total	0.054		mg/L	0.020
Copper, Total	0.030		mg/L	0.020
Iron, Total	53.8		mg/L	0.030

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 4
Project # 0000-00-00-0000
Lab ID: 9008G603-004
Sample Date: 08/10/90
Date Received: 08/10/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Mercury, Total	0.00020 u	mg/L	0.00020
Potassium, Total	242	mg/L	0.20
Magnesium, Total	133	mg/L	0.20
Manganese, Total	0.25	mg/L	0.010
Sodium, Total	553	mg/L	0.050
Nickel, Total	0.033	mg/L	0.020
Lead, Total	0.077	mg/L	0.050
Antimony, Total	0.50 u	mg/L	0.50
Selenium, Total	0.0080 u	mg/L	0.0080
Thallium, Total	0.30 u	mg/L	0.30
Zinc, Total	1.1	mg/L	0.010

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WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-75

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005
Sample Date: 08/10/90
Date Received: 08/10/90

Inorganic Client Data Report

Parameters	Result		Units	Reporting Limit
Alkalinity	2780		mg/L	10.0
Bicarbonate	2780		mg/L	10.0
Chloride	2400		mg/L	50
Nitrate Nitrite	0.10	u	mg/L	0.10
Ammonia, as Nitrogen	428		mg/L	40.0
Total Organic Carbon	222		mg/L	20.0
TOC Test 2	257		mg/L	20.0
Sulfate	49.0		mg/L	10.0
Total Dissolved Solid	5700		mg/L	10
Silver, Total	0.030	u	mg/L	0.030
Arsenic, Total	0.016	u	mg/L	0.016
Boron, Total	2.2		mg/L	0.010
Barium, Total	0.069		mg/L	0.050
Beryllium, Total	0.0020	u	mg/L	0.0020
Calcium, Total	29.0		mg/L	0.10
Cadmium, Total	0.0040	u	mg/L	0.0040
Chromium, Total	0.034		mg/L	0.020

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2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005
Sample Date: 08/10/90
Date Received: 08/10/90

Inorganic Client Data Report

Parameters	Result		Units	Reporting Limit
Copper, Total	0.020	u	mg/L	0.020
Iron, Total	30.6		mg/L	0.030
Mercury, Total	0.00020	u	mg/L	0.00020
Potassium, Total	384		mg/L	0.20
Magnesium, Total	88.8		mg/L	0.20
Manganese, Total	0.13		mg/L	0.010
Sodium, Total	1800		mg/L	5.0
Nickel, Total	0.032		mg/L	0.020
Lead, Total	0.078		mg/L	0.050
Antimony, Total	0.50	u	mg/L	0.50
Selenium, Total	0.0080	u	mg/L	0.0080
Thallium, Total	0.30	u	mg/L	0.30
Zinc, Total	0.24		mg/L	0.010

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Dichlorodifluoromethane	BDL	0.2	U
Chloromethane	BDL	0.2	U
Bromomethane	BDL	0.1	U
Vinyl Chloride	BDL	0.2	U
Chloroethane	10	0.1	
Methylene Chloride	1	0.8	
Trichlorofluoromethane	BDL	0.5	U
1,1-Dichloroethene	BDL	0.2	U
1,1-Dichloroethane	BDL	0.3	U
cis-1,2-Dichloroethene	BDL	0.3	U
2,2-Dichloropropane	BDL	0.3	U
trans-1,2-Dichloroethene	BDL	0.2	U
Chloroform	BDL	0.3	U
Bromochloromethane	BDL	0.3	U
1,2-Dichloroethane	BDL	0.3	U
1,1,1-Trichloroethane	BDL	0.2	U
Carbon Tetrachloride	BDL	0.1	U

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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,1-Dichloropropene	BDL	0.2	U
Bromodichloromethane	BDL	0.2	U
Dibromomethane	BDL	0.4	U
1,2-Dichloropropane	BDL	0.9	U
Trichloroethene	BDL	0.6	U
Dibromochloromethane	BDL	0.2	U
1,2-Dibromoethane	BDL	0.2	U
1,1,2-Trichloroethane	BDL	0.2	U
Benzene	15	0.2	
1,3-Dichloropropane	BDL	0.2	U
Bromoform	BDL	0.3	U
Tetrachloroethene	BDL	0.1	U
1,1,2,2-Tetrachloroethane	BDL	0.4	U
Toluene	8	0.2	
Chlorobenzene	1	0.2	
1,1,1,2-Tetrachlorethane	BDL	0.2	U
Ethylbenzene	E	0.2	

WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Styrene	BDL	0.8	U
p-Xylene	22	0.2	
m-Xylene	22	0.2	
o-Xylene	31	0.4	
Bromobenzene	BDL	0.3	U
1,2,3-Trichloropropane	BDL	0.4	U
Isopropylbenzene	4	0.3	
n-Propylbenzene	1	0.3	
2-Chlorotoluene	BDL	0.3	U
4-Chlorotoluene	BDL	0.3	U
1,3,5-Trimethylbenzene	2	0.3	
tert-Butylbenzene	BDL	0.3	U
1,2,4-Trimethylbenzene	5	0.3	
sec-Butylbenzene	BDL	0.3	U
p-Isopropyltoluene	6	0.3	
1,3-Dichlorobenzene	BDL	0.3	U
1,4-Dichlorobenzene	6	0.3	

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ANALYTICAL REPORT

To: Waste Management of
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1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichlorobenzene	BDL	0.3	U
n-Butylbenzene	BDL	0.3	U
1,2-Dibromo-3-Chloropropane	BDL	0.6	U
1,2,4-Trichlorobenzene	BDL	0.5	U
Hexachlorobutadiene	BDL	0.5	U
Naphthalene	3	0.4	
1,2,3-Trichlorobenzene	BDL	0.7	U
cis-1,3-Dichloropropene	BDL	0.2	U
trans-1,3-Dichloropropene	BDL	0.2	U
Acetone	27	0.5	
Carbon Disulfide	0.4	0.2	
2-Butanone	18	0.4	
Vinyl Acetate	BDL	0.4	U
4-Methyl-2-pentanone	BDL	0.3	U
2-Hexanone	BDL	0.3	U
2-Chloroethylvinylether	BDL	0.2	U

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WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-75

ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

Tentatively Identified Compounds

7 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration	
Unknown	3.04	8	J
ETHYL ETHER	5.48	10	J
UNKNOWN C4H8O	10.31	10	J
Unknown ketone C7H14O	18.62	9	J
SUBST. BENZENE C9H12	25.52	6	J
Unknown ketone C10H16O	31.80	20	J
Unknown ketone C10H16O	34.32	20	J

WESTON-GULF COAST LABORATORIES, INC.
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ANALYTICAL REPORT

To: Waste Management of
North America
1300 Willow Road
Northbrook, IL 60062

Attn: Mr. Ken Gelting

Date: Monday September 10th, 1990

RE: HOD TLP 5
Project # 0000-00-00-0000
Lab ID: 9008G603-005 DL
Sample Date: 08/10/90
Date Received: 08/10/90
Units: UG/L

VOLATILES BY GC/MS, METHOD 524 LIST

Volatile Compound	Result	Detection Limit	Flag
Ethylbenzene	43	0.9	

F6

HYDROPUNCH HP1 SAMPLING - MAY 9, 1990
ANALYZED BY WMI ENIRONMENTAL LABORATORIES, INC.

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

May 30, 1990 1:58 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-10707
MP No: 260902
Rev No: 00

Sample Point: Hydropunch HP01
Type: WELL
Sample No: AB6152
Date Sampled: 9-May-1990
Date Received: 14-May-1990
Date Reported: 22-May-1990

EML-Results

Analyte	Result	EMLRL	Units
FDPHSING01:			
PH FIELD	7.26	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	962.	0.000	UMHOS/CM
FDXTEMPC01:			
WATER TEMPERATURE IN CELSIUS DEGREES	13.4	0.000	DEGREES C
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L

ND - Not Analyzed TBF - Trip Blank

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

May 30, 1990 1:58 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-10707
MP No: 260902
Rev No: 00

Sample Point: Hydropunch HP01
Type: WELL
Sample No: AB6152
Date Sampled: 9-May-1990
Date Received: 14-May-1990
Date Reported: 22-May-1990

EML-Results

Analyte	Result	EMLRL	Unit
FDPHSING01:			
PH FIELD	7.26	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	962.	0.000	UMHOS/CM
FDXTEMPC01:			
WATER TEMPERATURE IN CELSIUS DEGREES	13.4	0.000	DEGREES C
VOMSAAA101:			
1,1,1,2-TETRACHLOROETHANE	ND	0.500	UG/L
1,1,1-TRICHLOROETHANE	ND	0.500	UG/L
1,1,2,2-TETRACHLOROETHANE	ND	1.000	UG/L
1,1,2-TRICHLOROETHANE	ND	1.000	UG/L
1,1-DICHLOROETHANE	ND	0.500	UG/L
1,1-DICHLOROETHENE	ND	0.500	UG/L
1,1-DICHLOROPROPENE	ND	0.500	UG/L
1,2,3-TRICHLOROPROPANE	ND	2.000	UG/L
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.000	UG/L
1,2-DIBROMOETHANE	ND	0.500	UG/L
1,2-DICHLOROBENZENE	ND	0.500	UG/L
1,2-DICHLOROETHANE	ND	0.500	UG/L
1,2-DICHLOROPROPANE	ND	0.500	UG/L
1,3-DICHLOROBENZENE	ND	0.500	UG/L
1,3-DICHLOROPROPANE	ND	0.500	UG/L
1,4-DICHLOROBENZENE	ND	0.500	UG/L
2,2-DICHLOROPROPANE	ND	0.500	UG/L
2-CHLOROTOLUENE	ND	2.000	UG/L
4-CHLOROTOLUENE	ND	2.000	UG/L
BENZENE	ND	0.500	UG/L
BROMOBENZENE	ND	0.500	UG/L
BROMOCHLOROMETHANE	ND	0.500	UG/L
BROMODICHLOROMETHANE	ND	0.500	UG/L
BROMOFORM	ND	0.500	UG/L

NA = Not Analyzed TBK = Trip Blank

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

May 30, 1990 1:58 PM

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-10707
MP No: 260902
Rev No: 00

Sample Point: HP01 (Hydropunch)
Type: WELL
Sample No: AB6152
Date Sampled: 9-May-1990
Date Received: 14-May-1990
Date Reported: 22-May-1990

EML-Results

Analyte	Result	EMLRL	Units
BROMOMETHANE	ND	0.500	UG/L
CARBON TETRACHLORIDE	ND	0.500	UG/L
CHLOROBENZENE	ND	0.500	UG/L
CHLOROETHANE	ND	1.000	UG/L
CHLOROFORM	ND	0.500	UG/L
CHLOROMETHANE	ND	1.000	UG/L
CIS-1,2-DICHLOROETHENE (156592)	110.3	0.500	UG/L
DIBROMOCHLOROMETHANE	ND	1.000	UG/L
DIBROMOMETHANE	ND	10.000	UG/L
DICHLORODIFLUOROMETHANE	ND	1.000	UG/L
ETHYL BENZENE	ND	0.500	UG/L
HEXACHLOROBUTADIENE	ND	0.500	UG/L
ISOPROPYLBENZENE	ND	0.500	UG/L
M-XYLENE	ND	0.500	UG/L
METHYLENE CHLORIDE	2.7	2.000	UG/L
N-PROPYLBENZENE	ND	0.500	UG/L
O-XYLENE	ND	0.500	UG/L
P-XYLENE	ND	0.500	UG/L
SEC-BUTYLBENZENE	ND	0.500	UG/L
STYRENE	ND	0.500	UG/L
TERT-BUTYLBENZENE	ND	0.500	UG/L
TETRACHLOROETHENE	ND	0.500	UG/L
TOLUENE	ND	0.500	UG/L
TRANS-1,2-DICHLOROETHENE	1.4	0.500	UG/L
TRICHLOROETHENE	ND	0.500	UG/L
TRICHLOROFLUOROMETHANE	ND	0.500	UG/L
VINYL CHLORIDE	188.4	2.000	UG/L

NA = Not Analyzed TBK = Trip Blank
ND = Not Detected

WMI ENVIRONMENTAL MONITORING LABORATORIES INC

CLIENT REPORT

May 23, 1990 3:32 PM

Hydropunch

Site Id: 260
Site Name: H.O.D. Landfill
Site Type: Disposal Facility
Site Address: 55 McMillen Road
Antioch IL 60002

ENS No: 90-10708
MP No: 260902
Rev No: 00

Sample Point: HP01
Type: WELL
Sample No: AB6170
Date Sampled: 9-May-19
Date Received: 14-May-19
Date Reported: 15-May-19

EML-Results

Analyte	Result	EMLRL	Units
FDPHSING01:			
PH FIELD	7.26	0.000	PH UNITS
FDSPCOND01:			
SPECIFIC CONDUCTANCE FIELD	962.	0.000	UMHOS/CM
FDXTEMPC01:			
WATER TEMPERATURE IN CELSIUS DEGREES	13.4	0.000	DEGREES

NA = Not Analyzed **TBK = Trip Blank**
ND = Not Detected

G

APPENDIX G

DEVELOPMENT AND ENVIRONMENTAL HISTORY OF SEQUOIT ACRES INDUSTRIAL PARK

APPENDIX G
DEVELOPMENT AND ENVIRONMENTAL HISTORY OF SEQUOIT ACRES INDUSTRIAL PARK

The Sequoit Acres Industrial Park contains several companies which produce small quantities of hazardous waste, five registered underground storage tanks and a fill area that was, at least in part, a waste dump (Cunningham Dump and Quaker Dump). The following discussion of the industrial park is based on an environmental audit conducted by Patrick Engineering, Inc. (Patrick Engineering, 1989).

Landfilling Activities. West of the H.O.D. Landfill, on the eastern portions of the Sequoit Acres Industrial Park, the naturally low lying areas were filled as part of a dump operation. Filling began south of the bend in McMillen Road in the area that now makes up the Quaker Industries parking lot. Other areas along Sequoit Avenue and Anita Avenue have been filled for industrial development (see Figure 6). The makeup of the fill in these areas is unknown.

North of McMillen Road, adjacent to and west of H.O.D. Landfill, waste disposal occurred in the Cunningham Dump operated on land owned by Quaker Industries possibly as early as 1959. It has been reported that this dump was open for dumping of any materials, and in general there was no supervision of dumping activities. Combustible materials were periodically burned. When the Cunningham Dump was closed in 1963, the Cunningham property ("old" landfill area at the Site) was used to dispose of the Village's garbage. Private waste disposal on the Quaker property in the same general area as the Cunningham Dump continued until 1965. The exact location of this disposal area is not known. The operation will be referred to as the Quaker Dump. Figure 6 shows the filled and landfilled areas in Sequoit Acres Industrial Park.

Quaker Industries. Quaker Industries, Inc. (Quaker) manufactures wood and metal tray tables. Quaker is currently located south of McMillen Road. Quaker also owned land north of McMillen Road and west of Sequoit Creek that was used as the Cunningham Dump in the early 1960s. After landfilling started at the H.O.D. Landfill, Quaker built a storage warehouse over the covered refuse at the Cunningham Dump. Quaker sold the warehouse to Malnekoff Closeouts in 1987.

Potentially hazardous wastes generated from Quaker's operations include paint thinners, sludges and lacquers based on information provided by Quaker to U.S. EPA. Supplemental permits for the H.O.D. Landfill allowed disposal of Quaker paints, coolants, paint booth oversprays, and water soluble oil and stain.

A January 30, 1968 letter from Applied Engineering Company, consultant to the Village of Antioch, to the State of Illinois Sanitary Board indicated Quaker discharged untreated industrial effluent to Sequoit Creek and or the low wet area in this area. Attached to the letter was a summary of chemicals used in Quaker's manufacturing process at that time. Correspondence is contained at the end of this Appendix. These included paint strippers composed of chlorinated hydrocarbons. The effluent was discharged via an existing discharge pipe located near the southwestern corner of the H.O.D. Landfill Site. The location of the effluent discharge pipe is shown on Figure 12. It is unclear how long the discharge occurred. Prior to the rerouting of Sequoit Creek, the area east of McMillen Road was low and wet. It is likely that surface water flow in this area was toward the east and northeast, across the area now occupied by the H.O.D. Landfill, to Sequoit Creek. Therefore, the potential existed for the discharge to spread over a relatively large area. The effluent discharge area overlies the surficial sand and the effluent, which could include chlorinated hydrocarbons, would have moved downward into the surficial sand.

The Sanitary Board replied in a February 15, 1968 letter that discharge of untreated wastes is not acceptable. An NPDES permit was issued in 1975. Quaker currently has a NPDES permit for discharge of approximately 30,000 gallons per day (gpd) of non-contact cooling water to Sequoit Creek.

Quaker has stored drums containing hazardous waste on-site. Review of aerial photographs taken over the period 1980-1981 indicated several dozen 55 gallon drums were present (Patrick Engineering, 1989). In 1980, Quaker applied for a RCRA permit for storage of hazardous wastes. The permit application was withdrawn in 1983. In 1984 the U.S. EPA informed Quaker that they were a small quantity generator and a permit was not required.

Other potential contamination sources include floor drains within the manufacturing facility, discharge to the sanitary sewer, and air emissions. Solvents were used in manufacturing processes and may have entered floor drains and/or the sanitary sewer. The sewer line runs south from the facility along Anita Avenue. The facility uses hot and cold solvent processes and discharged VOCs to the air until 1980.

Quaker has a history of underground storage tanks (USTs) on their property. A 10,000-gallon steel underground oil storage tank was installed around 1961 and removed in 1989 (Patrick Engineering, 1989). The tank was removed because it was no longer needed. A 200,000-gallon concrete underground water tank was installed in 1964. The water tank was necessary for operation of a sprinkler system at the Quaker factory, and was last used in 1975. Another steel UST (500 to 750 gallons) is reportedly used for storage of used oil and/or water.

Antioch Township Highway Department. The Antioch Township Highway Department is responsible for maintaining the township's roads. The department performs truck maintenance and uses fuels, road salts, paints, and solvents.

The Highway Department has three registered USTs. A 4,000-gallon unlined steel tank is used for gasoline storage. A 1,000-gallon unlined steel tank is used for diesel fuel storage. These two tanks have been painted externally to resist corrosion. The third UST has not been used since August 1983 and is of an unspecified size. This unlined tank was apparently used for gasoline storage and it is not known if this tank was painted externally to prevent corrosion.

Chicago Ink and Research Company, Inc. Chicago Ink and Research Company, Inc. manufactures industrial ink. Chicago Ink has been operating in the Sequoit Acres Industrial Park since 1956. Hazardous wastes generated by Chicago Ink may include the following: solvent washes and sludges, caustic washes and sludges, and water washes and sludges from cleaning equipment used in the formulation of ink from pigments, soaps,

and stabilizers containing chromium and lead (Patrick Engineering, 1989). Chicago Ink has a registered 60-gallon UST that is internally lined and externally painted to prevent corrosion. The contents and uses, if any, of this tank are unknown.

Galdine Electronics, Inc. Galdine Electronics, Inc. is a manufacturer of printed electronic circuit boards and has been operating at their current location for approximately 21 years. Hazardous wastes generated by Galdine Electronics include methylene chloride, hydrochloric acid mixture, chromic acid solution, plating sludge, and a flammable liquid waste (Patrick Engineering, 1989). Rinse water from Galdine Electronics manufacturing processes has been flushed into the Village's sanitary sewers for treatment at the Publically Owned Treatment Works (POTW).

Major Industrial Truck, Inc. Major Industrial Truck, Inc. deals with the sales, service, and rental of forklifts and has been at their current location for approximately 9 years. They are a service industry and do not manufacture any products on-site. In September 1988, Major Industrial Truck, Inc. notified the IEPA that they would be shipping ignitable hazardous waste to Safety Kleen Corporation in Elgin, Illinois (Patrick Engineering, 1989).

Nu-Way Speaker Products, Inc. Nu-Way Speaker Products, Inc. is a manufacturer of non-metallic components for loud speakers. They have been in business at their current location for approximately 14 years. Hazardous materials generated during their manufacturing process are acetone and phenol (Patrick Engineering, 1989).

NCG Electronics, Inc. NCG Electronics, Inc., an affiliate of Galdine Electronics, Inc., once occupied the building as shown on Figure 5. NCG Electronics was a manufacturer of printed circuit boards. A spent copper etching solution, a by product of their manufacturing process, was generated by NCG Electronics. The spent copper etching solution is classified as non-hazardous (Patrick Engineering, 1989).

Roll Foil Laminating, Inc. No information was available regarding manufacturing processes at this facility. In March, 1987, a Notification of Hazardous Waste Activity report was filed with U.S. EPA indicating less than 1000 kilograms per month of non-halogenated solvents (F003 and F005) would be generated (Patrick Engineering, 1989).

Copy to OBL 2/6/68

SUCCESSFUL DEVELOPMENT THROUGH

APPLIED ENGINEERING COMPANY

Consulting Civil Engineers

231 SO. ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, ILLINOIS 60005

PHONE 392-4355

Antioch

January 30, 1968

RECEIVED
FEB 2 1968
DIVISION OF SANITARY ENGINEERING
ILLINOIS DEPT. OF PUBLIC HEALTH

State of Illinois
Sanitary Water Board
State Office Building
Springfield, Illinois 62706

ATTN: Mr. C. W. Klassen, Technical Secretary

Gentlemen:

Enclosed is a copy of a letter from Coral Chemical Company, Waukegan, Illinois, giving the chemical breakdown of the various products used by the Quaker Industries in Antioch, Illinois.

These chemicals are used in an industrial process and at present are being wasted to a ditch draining into Sequoit Creek which drains to Lake Marie in the Fox Chain of Lakes.

The Village of Antioch has questioned whether this company should be required to connect the process tank drains to the sanitary sewer system or if these chemicals might have an adverse effect on the sewage treatment plant that could result in greater pollution of Sequoit Creek.

We would appreciate any advice your department can offer as to the effect of these chemicals on the treatment plant and if untreated, on the water of Sequoit Creek.

Yours very truly,

APPLIED ENGINEERING COMPANY

Roger J. Patzer

Roger J. Patzer

cc: Village of Antioch

[redacted]

coral CHEMICAL
TRADEMARK
135 LaBorne Street, Waukegan, Illinois
312 [illegible]

November 17, 1967

Mr. Jay D. Williams, Buyer
Quaker Industries Incorporated
90 McMillen Road
Antioch, Illinois

Dear Mr. Williams:

In response to your request for information pertaining to the chemical breakdown of the various products with which you are supplied by CORAL, the following information is submitted.

SUR COAT 9	90% maximum	phosphates (pH 4.0 5.5)
	5% " "	alkali nitrates
	10% " "	biodegradable surfactants
SUR COAT 1919	95% " "	phosphates (pH 5.0 - 6.0)
	5% " "	biodegradable surfactants
used most → SUR COAT 2200	90% " "	phosphates (pH 4.0 - 5.0)
	5% " "	alkali nitrates
	5% " "	biodegradable surfactants
Paint Stripper K6000	75% maximum	cresols
	25% " "	biodegradable emulsifiers
Paint Stripper 4200	90% " "	caustic alkalies
	5% " "	cresols
	5% " "	biodegradable wetting agent
Paint Stripper 990	15% " "	cresols
	50% " "	chlorinated hydrocarbons
	½% " "	sodium chromate
	10% " "	biodegradable emulsifiers

Thank you very much, Mr. Williams, for this opportunity to be of service to you and your company. Should you have need for any further information, please feel free to contact us at any time.

Very truly yours,

CORAL CHEMICAL COMPANY

H. Prischknecht

Hans Prischknecht
Chemist

THE BOARD
FRANKLIN O. YODER, M.D., M.P.H., CHAIRMAN
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C. S. SORUFF
INDUSTRY

STATE OF ILLINOIS

SANITARY WATER BOARD

SPRINGFIELD

TECHNICAL SECRETARY
CLARENCE W. KLASSEN
CHIEF SANITARY ENGINEER
DEPARTMENT OF PUBLIC HEALTH

ADDRESS LETTERS TO:
STATE SANITARY WATER BOARD
SPRINGFIELD, ILLINOIS
62706

February 15, 1968

ANTIOCH - Sewage Treatment

Applied Engineering Company
231 South Arlington Heights Road
Arlington Heights, Illinois 60005

Gentlemen:

This will acknowledge receipt of your January 30, 1968 letter concerning the discharge of industrial wastes to a ditch draining into Sequoit Creek within the Village of Antioch jurisdictional boundaries.

The material listed in the November 17, 1967 letter to the Quaker Industries, Incorporated are considered to be pollutants and, therefore, must not be discharged into the ditch without adequate treatment.

We are enclosing a copy of our Technical Release 20-22 which lists some of the chemicals which will upset biological action at the sewage treatment plant. This release also lists the limits of specific concentrations of chemical constituents as discharged to waters of the State.

We request to be informed of the action to be taken by the Village with regard to this problem. It may be necessary for the Illinois Sanitary Water Board to take direct action against the Quaker Industries.

Very truly yours,

ILLINOIS SANITARY WATER BOARD

C. W. Klassen
Technical Secretary

CTB:lla

CC - SWB, Chicago
- Lake County Health Dept.
- President and Board of Trustees
Village of Antioch
- Mr. Charles Maplethorpe
Superintendent of Sewage Treatment

Enclosure

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

2200 Churchill Road
62706

Springfield, Illinois
Phone:

Please Reply To:
Field Operations Section, DWPC
Illinois Environmental Protection Agency
2121 West Taylor Street
Chicago, Illinois 60612
Phone: (312) 793-3730

Dr. Richard H. Briceland, Director

October 23, 1974

RECEIVED
Field Operations Section

OCT 24 1974

Environmental Protection Agency
State of Illinois

QUAKER INDUSTRIES - Cooling Water Discharge

Quaker Industries
90 McMillan Road
Antioch, Illinois 60002

Attn: Arnie Woller, Plant Engineer

Dear Mr. Woller:

This will confirm your phone conversation on Oct. 18, 1974, with Engineer Rick Springer concerning permit requirements for the Quaker Industries, discharge of non-contact cooling waters into Sequoit Creek.

As Springer pointed out, an Illinois Environmental Protection Agency operating permit and a U.S. Environmental Protection Agency National Pollutant Discharge Elimination System (NPDES) permit are required for the discharge. Please contact Carl Blomgren, Manager, DesPlaines Basin-Permits, Illinois Environmental Protection Agency, at 2121 W. Taylor, Chicago, Illinois, 60612 (312-793-5632) and A.H. Monzardo, U.S. Environmental Protection Region V, 230 South Dearborn, Chicago, 60606 (312-353-1052) for permit information.

We hereby request an acknowledgement of this letter with comments on the actions that will be taken in regards to the above.

Very truly yours,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Benn J. Leland

Benn J. Leland, Manager
Region II
Field Operation Section, DWPC

CRS
BJL:bjg
CC - EPA, Spfld.
FOS (Records Unit), DWPC
- Lake County Health Dept.
Eugene Theios, Director

H

APPENDIX H

HYDRIC SOILS
LAKE COUNTY, ILLINOIS

HYDRIC SOILS LEGEND
LAKE COUNTY
Revised February, 1989

HYDRIC SOIL MAPPING UNITS

Map Symbol	Mapping Unit Name	Hydric Part	Location
67	Harpster sicl	All (1)(5)	Low-lying areas
W97	Houghton peat, wet	All (3)(5)(6)	Depressional areas
103	Houghton muck	All (3)(5)(6)	Depressional areas
W103	Houghton muck, wet	All (3)(5)(6)	Depressional areas
107	Sawmill sicl	All (1)(2)(4)	Floodplains
153	Pella sicl	All (1)(5)	Drainageways or low-lying areas
232	Ashkum sicl	All (1)(5)	Drainageways or low-lying areas
330	Peotone sicl	All (1)(3)(5)	Depressional areas
W330	Peotone sicl, wet	All (1)(3)(5)	Depressional areas
465	Montgomery sic	All (1)(5)	Drainageways or depressional areas
513	Granby lfs	All (1)(5)	Marsh areas near Lake Michigan
MA	Marsh	All (3)(5)(6)	Low-lying areas

(1) These soils are hydric due to water tables at or near the surface.
(2) These soils support woody vegetation under natural conditions.
(3) These mapping units consist predominantly of potholes and therefore may exhibit seasonal ponding.
(4) These soils are seasonally flooded.
(5) These soils can be farmed under natural conditions assuming woody vegetation was not removed after December 23, 1985.
(6) These soils are hydric due to series classification.

SPOT SYMBOLS THAT MAY INDICATE HYDRIC SOIL INCLUSIONS †

Map Symbol	Spot Symbol Name	Typical Location
	Marsh or swamp	Depressional areas
	Wet spot	Drainageways or depressional areas

† These spot symbols may be used in mapping units that are not included on the Hydric Soils Legend.

Note: Soils are considered to be seasonally flooded or ponded if inundation occurs for 15 consecutive days in cropland or 7 consecutive days in natural vegetation during the growing season, March 1 to October 31 under average conditions (50 percent chance of occurrence).

NON-HYDRIC SOIL MAPPING UNITS THAT MAY CONTAIN HYDRIC SOIL INCLUSIONS

Map Symbol	Mapping Unit Name	Probable Hydric Soil Inclusion	Typical Location of Hydric Soil Inclusion ‡
146A	Elliott sil, 0-2%	Ashkum sicl (1)(5)	Drainageways or low-lying areas
189A	Martinton sil, 0-2%	Ashkum sicl (1)(5)	Drainageways or low-lying areas
192A	Del Rey sil, 0-2%	Ashkum sicl, Montgomery sic (1)(5)	Drainageways or depressional areas
228A	Nappanee sil, 0-2%	Montgomery sic (1)(5)	Drainageways or depressional areas
298A	Beecher sil, 0-2%	Ashkum sicl (1)(5)	Drainageways or low-lying areas
320A	Frankfort sil, 0-2%	Montgomery sic (1)(5)	Drainageways or depressional areas
442A	Mundelein sil, 0-2%	Pella sicl (1)(5)	Drainageways or low-lying areas
490A	Odell sil, 0-2%	Pella sicl (1)(5)	Drainageways or low-lying areas
697A	Wauconda sil, 0-2%	Pella sicl (1)(5)	Drainageways or low-lying areas
978A	Wauconda & Beecher sil, 0-2%	Ashkum sicl (1)(5)	Drainageways or low-lying areas
981A	Wauconda & Frankfort sil, 0-2%	Montgomery sic (1)(5)	Drainageways or depressional areas
982A	Aptakisic & Nappanee sil, 0-2%	Montgomery sic (1)(6)	Drainageways or depressional areas
983A	Zurich & Nappanee sil, 0-2%	Montgomery sic (1)(5)	Drainageways or depressional areas
989A	Mundelein & Elliott sil, 0-2%	Ashkum sicl (1)(5)	Drainageways or low-lying areas

‡ Small areas of hydric soils may occur as inclusions in these soil mapping units. Minor inclusions of hydric soils may not always be identified in the mapping unit descriptions in the Soil Survey. Therefore, not every hydric soil is accounted for on this legend. An on-site investigation by a qualified soil scientist should be used to determine whether or not hydric soils are present.

(1) These soils are hydric due to water tables at or near the surface.
(5) These soils can be farmed under natural conditions assuming woody vegetation was not removed after December 23, 1985.

APPENDIX I

REGION V SCOPE OF WORK FOR ECOLOGICAL ASSESSMENT

REGION V SCOPE OF WORK FOR ECOLOGICAL ASSESSMENT

This Scope of Work should be properly integrated into the Scope of Work for the full Remedial Investigation. It is presented here as an independent document to better show the individual tasks involved.

Tasks 1, 2, 7, and 8 should be conducted for all sites. The need for Tasks 3-6, which involve more detailed ecological work not necessary for all sites, will be determined by the results of Task 2. This Scope of Work should be appropriately modified to meet the needs of individual sites.

Task 1. Characterize site based on existing data and limited field work, including:

1. Physical description of the site and its surroundings, including topography, hydrology, and other features of ecological interest such as soil types and disturbance history, including detailed maps.

2. Nature and extent of contamination by medium and contaminant type.

3. Identification of site-specific conditions pertinent to the evaluation of fate and transport processes occurring at the site, such as amount of soil erosion.

4. Identification of potential and probable exposure points for ecological receptors.

5. Habitats and species (including threatened and endangered species) potentially exposed to contaminants. Habitat descriptions should be based on available information and a field reconnaissance by a trained ecologist. Experts on local flora and fauna should also be consulted.

6. Any known or observed effects of site contaminants to biota, such as fish kills or other obvious impacts.

7. Data needed for further site characterization (to be collected in Task 1a).

Task 1a. If needed and authorized by site manager, further characterize site based on additional field studies, including:

1. Habitat identification and evaluation.

2. Qualitative and semiquantitative surveys of flora and fauna.

3. Toxicity tests.

4. Additional sampling to define contamination.

5. Identification of appropriate reference sites for comparison to each potentially exposed habitat.

Task 2. Prepare preliminary ecological assessment, including:

1. Initial identification of ecological receptors (from Tasks 1 and 1a).

2. Initial toxicity assessment of site contaminants. This initial assessment should be based on information gathered during the site characterization, literature-based information on contaminant fate and toxicity, available criteria and standards (e.g. Ambient Water Quality Criteria), and ARARs. The potential for adverse ecological effects from contaminant exposure should be assessed. This preliminary assessment will necessarily contain much uncertainty; a conservative approach should be used.

3. Determine the need for further studies to complete the ecological assessment. Some sites may not require additional studies, such as those where exposure to ecological receptors is known to be minimal. The site manager has the ultimate responsibility for determining the need for further studies and should consult ecological experts in making this determination. When the initial toxicity assessment provides ambiguous or uncertain conclusions, additional field data are needed (Tasks 3-6).

Submit interim report to site manager for review.

Not all sites will require Tasks 3-6. The results of Task 2 determine the need for these Tasks.

Task 3. Prepare detailed Work Plan for further site investigations, including, as appropriate:

1. Identification of ecological assessment endpoints. Endpoint selection criteria must be clearly explained.

2. Qualitative, semiquantitative, and quantitative surveys of flora and fauna.

3. Chemical sampling in potentially exposed habitats and reference sites.

4. Laboratory and <u>in situ</u> toxicity testing.

5. Tissue analyses.

For each proposed study above, provide:

a. Study objectives and relevance to overall risk assessment objectives. Study objectives could include documentation of actual or potential endangerment or effects to the environment, the definition of spatial and temporal extent of contamination, development of remediation criteria, or evaluation of ecological effects of remedial alternatives.

b. Proposed field or laboratory methods, with appropriate reference to Agency guidelines or other source.

c. Expected sampling locations (including detailed maps), sampling dates, and sample sizes.

d. Statistical methods to be used and data quality objectives to meet statistical significance criteria.

e. Quality control procedures.

Submit Work Plan to site manager for review and approval. Revise per site manager's direction.

Task 4. Conduct those studies approved by site manager for immediate execution. Submit interim report to site manager for review.

Task 5. Revise Work Plan per site manager's direction. Conduct next phase of studies as approved by site manager. Submit interim report to site manager for review. Repeat this step as needed.

Task 6. Prepare summary of biological and chemical data for review by site manager.

Task 7. Prepare draft ecological assessment report.

NOTE: Depending on the level of effort decided on by the site manager, not all of the specific elements listed below (those not in bold-face type) may appear in a given assessment. For instance, not all sites will require toxicity testing or the full array of quantitative field studies. The following outline should be modified to account for the studies actually undertaken at the site.

1. Site characterization and identification of potential receptors (include detailed maps where appropriate).

   a. Physical description of the site.

b. Nature and extent of contamination by medium and contaminant type.

c. Potentially exposed habitats and species.

2. Selection of contaminants and ecological endpoints of concern.

a. Contaminants of concern and rationale for selection.

b. Ecological endpoints of concern and rationale for selection.

3. Exposure assessment.

a. Sources and exposure pathways of contaminants of concern.

b. Fate and transport analysis, including possible food chain transport.

c. Estimation of exposure point concentrations by habitat, species, and exposure scenario.

d. Uncertainty analysis.

4. Toxicity assessment.

a. Toxicological properties of contaminants of concern.

b. Site-specific toxicity tests--laboratory and in situ

c. Existing toxicity-based criteria and standards.

d. Uncertainty analysis.

5. Risk Characterization.

a. Observed adverse effects in potentially exposed habitats compared to reference sites, such as (but not limited to) mortality (observed on-site or in toxicity tests), behavioral effects, presence or absence of key species, reproductive effects, or altered community composition.

i. Analysis of contaminant concentrations in relation to observed adverse effects

ii. Predicted (or observed) population-, community-, and ecosystem-level effects of observed effects

b. Comparison of exposure point concentrations with relevant benchmark values. Possible additive, synergistic, or antagonistic effects of contaminant mixtures should be considered.

   i. Comparison with appropriate criteria (such as Ambient Water Quality Criteria) and standards (such as State Water Quality Standards)

   ii. Comparison with contaminant levels known to cause effects from published or peer-reviewed literature. Possible population-, community-, and ecosystem-level effects should be predicted based on these comparisons.

c. Likely ecological risks associated with present and future land use scenarios.

d. Ecologically relevant ARARs.

e. Ecological considerations in selecting remedial alternatives (including no action).

f. Uncertainty analysis.

Submit draft ecological assessment to site manager for review.

Task 8. Revise draft ecological assessment per site manager's review comments and submit final ecological assessment for inclusion in RI/FS.