Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

JUN 12 1987

217/782-6761

Refer to: 1630450001--St. Clair County
East St. Louis/Milam-WMI(SCA)
Groundwater

US EPA RECORDS CENTER REGION 5
412284

June 10, 1987

Ecology and Environment
Attn: Daniel Sewall
111 W. Jackson
Chicago, Illinois 60604

Dear Mr. Sewall:

The enclosed information on the Waste Management Inc., Milam Landfill was originally requested by Michael Kubersh of your office. I have since been informed that he is no longer employed by E & E. The enclosures include well details, maps and groundwater information which was requested to calculate the HRS score for the site.

The following documents are included:

Attachment A-1 - March 25, 1987 letter from W.M.I. referring to truck plaza sampling and first sampling results.

Attachment A-2 - May 12, 1987 letter from W.M.I. to truck plaza transmitting second sampling results.

Attachment B-1 - August 19, 1986 landfill sample results.

Attachment B-2 - November 12, 1986 landfill sample results.

Attachment B-3 - February 19, 1987 landfill sample results.

Figure 1 - Reduced topographic map showing the location of the landfill.

Figure 2 - Site map outlining landfill areas and monitoring well locations.

Figures 3-A and B - well construction information.

If you have any questions please call me at 217/782-6761.

Sincerely,

Kenneth W. Liss

Kenneth W. Liss
Technical Compliance Unit
Compliance Monitoring Section
Division of Land Pollution Control

KWL:dh/8

Enclosures

cc: Division File w/o Enclosures
Bill Child w/o Enclosures
Harry Chappel w/o Enclosures

Attachment A-1

M.C. Copies Harry C
Glenn S
Ken M
Ken C
Linda K
Larry E
& File orgin

March 25, 1987

Mr. William C. Child
Manager
IEPA-DLPC
2200 Churchill Road
Springfield, Illinois 62706

Dear Mr. Child,

As you are aware, a Comprehensive Remedial Action and Removal Plan (CRARP) was submitted in November, 1986 for the Milam Landfill. Section 3 of the document, titled, "Groundwater Assessment", interpreted additional hydrogeologic data and indicated that the potential for off-site migration exist.

Consequently, we decided to include the Gateway Midstates Truck Plaza water well in our scheduled monitoring of February 18, 1987. A sample was retained from the well head of the water well, prior to treatment mechanisms employed at the Truck Plaza.

Data from this sampling was received March 19, 1987 and reviewed March 20, 1987. The analytical results from the first sampling indicate that the well contains trace volatile organics and elevated levels of other inorganic parameters. The data is attached to this letter for your review.

It may not be possible to discriminate all sources of this apparent contamination, however, it is not possible to discount Milam Landfill as one potential source. Other potential contributors to the apparent contamination are numerous, such as landfilled acreage due south of the Old Milam Landfill and the variety of activities at the Truck Plaza itself, ranging from truck storage, fuel storage, repair shop and truck cleaning.

The Company decided to initiate the following activities, regardless of other parties which may be involved:

1. resampling of the water well at the well head,
2. retain two samples from the after treatment point of use,
3. and as a precautionary measure, offer to provide a temporary drinking water supply to the Truck Plaza.

All of these activities have been initiated. The Truck Plaza owners were contacted March 23 and on the 24th. Mr. Ray Pratt, owner, noted that the Truck Plaza water has been tested and deemed potable on numerous occasions by various parties. He felt that it would be prudent to base any further action on the matter after the analytical results, as described in 1. and 2. above, are available.

I am available at your earliest convenience to discuss this matter further.

Very truly yours,

Glenn A. O'Bryan, P.E.
District Engineer

cc: John Rohr (WMI)
Dick Molenhouse (WMI)
Phil Comella (WMI)
Ray Pratt (Gateway Midstates Truck Plaza)

ETC ENVIRONMENTAL TESTING and CERTIFICATION

Technical Report

for

WASTE MANAGEMENT, INC.

RECEIVED
MAR 2 1987

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No	Company	Facility	Sample Point	Date	Time	Elapsed Hours
R1459	WASTE MANAGEMENT, INC.	690	WSKA	870220	1320	

John J. Fitzgerald
Vice President
Research and Operations

This Technical Report is an INSITE™ service generated by ETC™ Data Management Software

ETC ENVIRONMENTAL TESTING and CERTIFICATION

MAR 10, 1987

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Volatile Compounds - GC/MS Analysis Data (QR01)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time
R1459	WASTE MANAGEMENT, INC.	690	WSKA	870220	1320

NPDES Number	Compound (Acrolein and Acrylonitrile values are screen only)	Results: Sample Concen. ug/l	Results: MDL ug/l	QC Replicate: First ug/l	QC Replicate: Second ug/l	QC Blank and Spiked Blank: Blank Data ug/l	QC Blank and Spiked Blank: Concen. Added ug/l	QC Blank and Spiked Blank: % Recov	QC Matrix Spike: Unspiked Sample ug/l	QC Matrix Spike: Concen Added ug/l	QC Matrix Spike: % Recov
1V	Acrolein	ND	100	ND	ND	ND	800	63a	ND	800	99
2V	Acrylonitrile	ND	100	ND	ND	ND	80.0	84	ND	80 0	88
3V	Benzene	BMDL	4.4	ND	ND	ND	18 0	100	ND	18 0	107
4V	bis(Chloromethyl)ether	ND	10	ND	ND	ND	0	-	ND	0	-
5V	Bromoform	ND	4.7	ND	ND	ND	18.0	89	ND	18 0	92
6V	Carbon tetrachloride	ND	2.8	ND	ND	ND	18.0	102	ND	18 0	100
7V	Chlorobenzene	ND	6.0	ND	ND	ND	18.0	105	ND	18 0	107
8V	Chlorodibromomethane	ND	3.1	ND	ND	ND	18 0	96	ND	18 0	95
9V	Chloroethane	ND	10	ND	ND	ND	18.0	113	ND	18 0	101
10V	2-Chloroethylvinyl ether	ND	10	ND	ND	ND	18 0	0a	ND	18 0	0a
11V	Chloroform	ND	1.6	ND	ND	ND	18 0	105	ND	18 0	106
12V	Dichlorobromomethane	ND	2.2	ND	ND	ND	18 0	99	ND	18 0	94
13V	Dichlorodifluoromethane	ND	10	ND	ND	ND	18 0	131	ND	18 0	126
14V	1,1-Dichloroethane	22.6	4.7	ND	ND	ND	18 0	105	ND	18 0	105
15V	1,2-Dichloroethane	ND	2.8	ND	ND	ND	18.0	103	ND	18 0	110
16V	1,1-Dichloroethylene	ND	2.8	ND	ND	ND	18 0	105	ND	18 0	106
17V	1,2-Dichloropropane	ND	6.0	ND	ND	ND	18 0	98	ND	18 0	
18V	cis-1,3-Dichloropropylene	ND	5.0	ND	ND	ND	18 0	95	ND	18 0	
19V	Ethylbenzene	ND	7.2	ND	ND	ND	18.0	103	ND	18.0	105
20V	Methyl bromide	ND	10	ND	ND	ND	18 0	122	ND	18 0	45a
21V	Methyl chloride	ND	10	ND	ND	ND	18 0	110	ND	18 0	101
22V	Methylene chloride	ND	2.8	ND	ND	ND	18 0	120	ND	18 0	133
23V	1,1,2,2-Tetrachloroethane	ND	6.9	ND	ND	ND	18 0	92	ND	18 0	100
24V	Tetrachloroethylene	ND	4.1	ND	ND	ND	18 0	99	ND	18 0	103
25V	Toluene	ND	6.0	ND	ND	ND	18 0	101	ND	18 0	109
26V	1,2-Trans-dichloroethylene	7 04	1.6	ND	ND	ND	18 0	103	ND	18 0	103
27V	1,1,1-Trichloroethane	ND	3.8	ND	ND	ND	18.0	103	ND	18 0	101
28V	1,1,2-Trichloroethane	ND	5.0	ND	ND	ND	18 0	99	ND	18 0	103
29V	Trichloroethylene	ND	1.9	ND	ND	ND	18.0	103	ND	18 0	95
30V	Trichlorofluoromethane	ND	10	ND	ND	ND	18 0	109	ND	18 0	109
31V	Vinyl chloride	ND	10	ND	ND	ND	18.0	119	ND	18 0	117
18V	trans-1,3-Dichloropropylene	ND	10	ND	ND	ND	18.0	99	ND	18 0	52a

a Recovery normally variable using established methodology.

ETC ENVIRONMENTAL TESTING and CERTIFICATION

MAR 11, 1987

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Ground Water Monitoring Metals (QR41)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Elapsed Hours
R1459	WASTE MANAGEMENT, INC.	690	WSKA	870220	1320	

Compound	Results									
	Sample Concen. ug/l	MDL ug/l								
Barium	.258	50								
Iron	30800	30								
Manganese	1450	10								
Sodium	121000	50								
Boron	798	10								
Calcium	196000	100								
Magnesium	52100	200								

ETC ENVIRONMENTAL TESTING and CERTIFICATION

MAR 10, 1987

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Conventional Analysis Data (QR10)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Elapsed Hours
R1459	WASTE MANAGEMENT, INC.	690	WSKA	870220	1320	

NPDES Number	Results									
	Sample Concen. mg/l	MDL mg/l								
Chloride	250	1								
Sulfate as SO4	100	10								
Phenolics, Total	<.005	.005								
Total Organic Carbon	11	1.0								
Total Organic Carbon	11	1.0								
Ammonia as N	2.4	.1								
Chemical Oxygen Demand (COD	31	5								
Total Dissolved Solids (TDS	100	10								

ETC ENVIRONMENTAL TESTING and CERTIFICATION

MAR 3, 1987

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Field Parameters (QR16)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Elapsed Hours
R1459	WASTE MANAGEMENT, INC.	690	WSKA	870220	1320	

Parameter	Results									
	Sample Measure	MDL								
pH (Field) std	7.48									
Specific Conductance (Fieldum/cm	1918									
Temperature Deg. C	17.4									

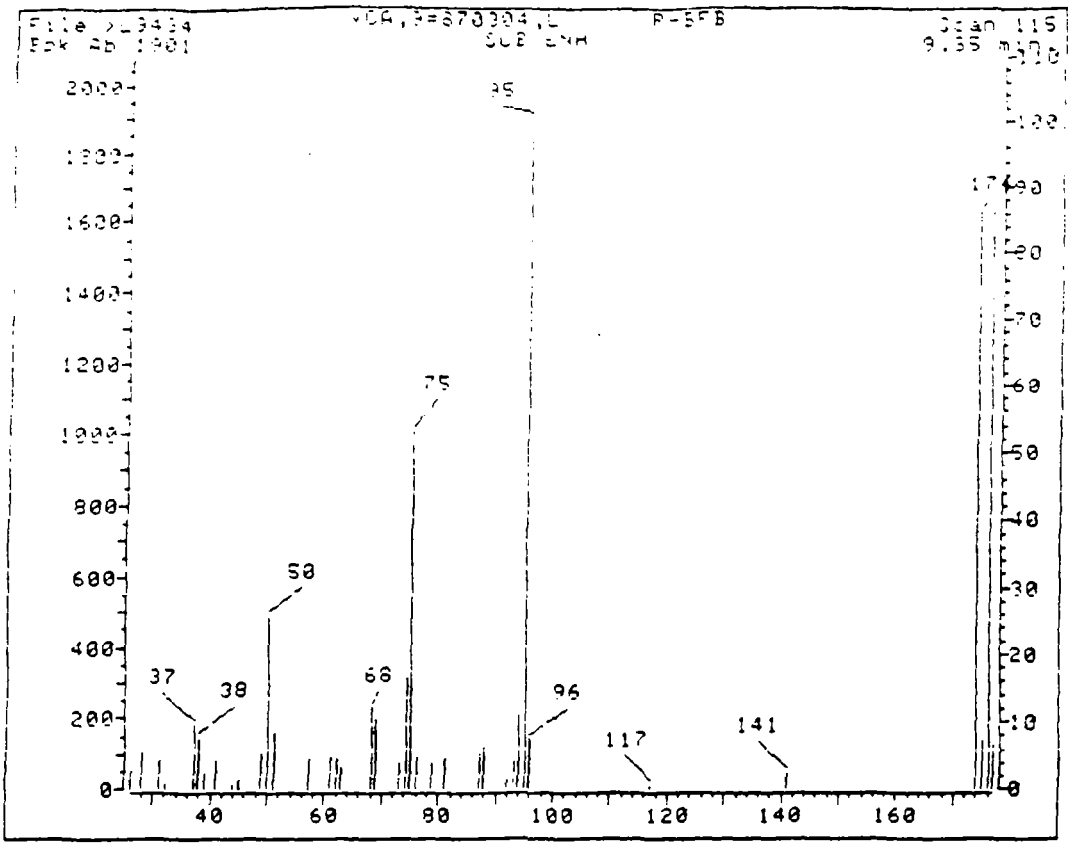

TABLE 2: METHOD PERFORMANCE DATA (QR21)

GC/MS Tuning Data - Bromofluorobenzene (BFB) for Volatiles Analysis

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	25.39	25.39	Ok
75	30-60% of mass 95	53.08	53.08	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.31	7.31	Ok
173	Less than 1% of mass 95	0.00	0.00	Ok
174	Greater than 50% of mass 95	86.06	86.06	Ok
175	5-9% of mass 174	7.17	8.34	Ok
176	95-101% of mass 174	86.06	100.00	Ok
177	5-9% of mass 176	6.47	7.52	Ok

Injection Date: 03/04/87 Analyst: [signature]
Injection Time: 21:46 Processor: [signature]
Run No: >L9434 QC Batch: QV6581
Spectrum No: Program Samples: R4758 - R4767, R1456-R1459, R5922-R5923

E.R.
3/7/87

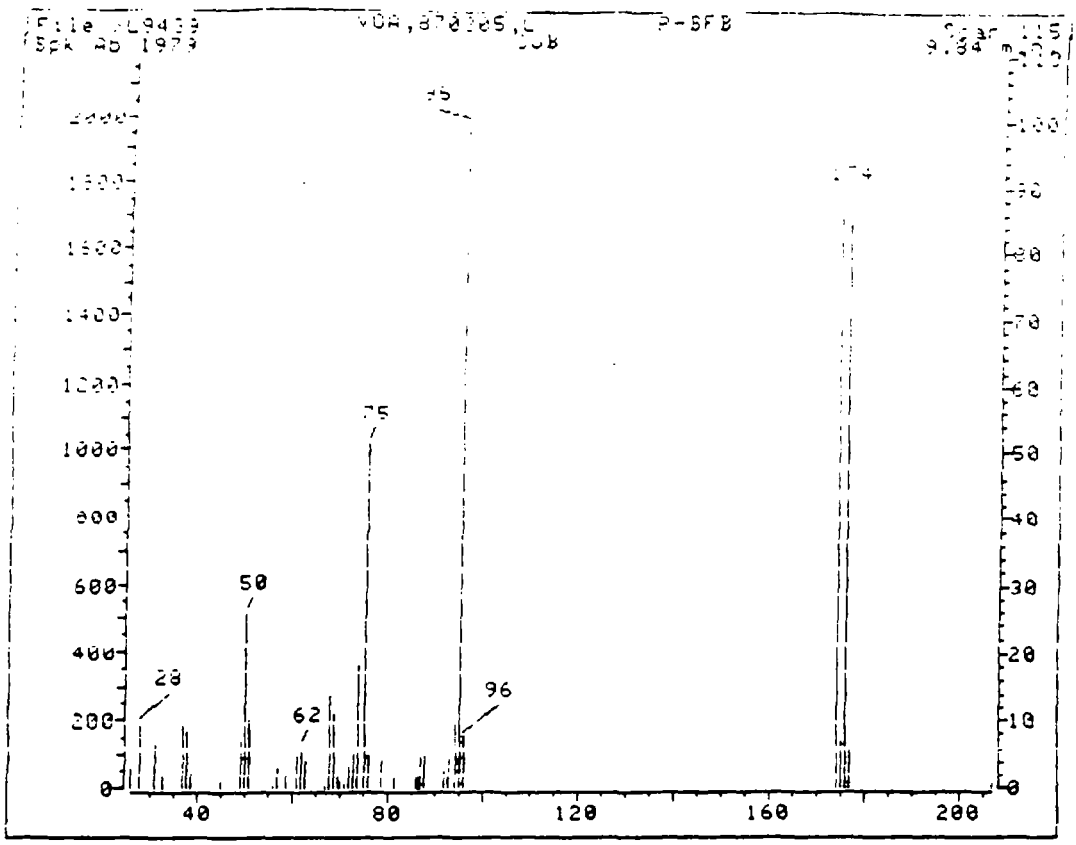

TABLE 2: METHOD PERFORMANCE DATA (QR21)

GC/MS Tuning Data - Bromofluorobenzene (BFB) for Volatiles Analysis

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	26.17	26.17	Ok
75	30-60% of mass 95	51.69	51.69	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.63	7.63	Ok
173	Less than 1% of mass 95	0.00	0.00	Ok
174	Greater than 50% of mass 95	87.87	87.87	Ok
175	5-9% of mass 174	6.92	7.88	Ok
176	95-101% of mass 174	84.49	96.15	Ok
177	5-9% of mass 176	5.86	6.94	Ok

Injection Date: 03/05/87 Analyst: [illegible]
Injection Time: 03:04 Processor: Sharon Mostoch
Run No: >L9439 QC Batch: 406551
Spectrum No: _____ Samples: R4764, R4767, R4760, R4762
R1456-R1459 R5922-R5923
R4763, R4765-R4766, R4759,
R4761, R4758

[illegible]

S.R.
3/7/87

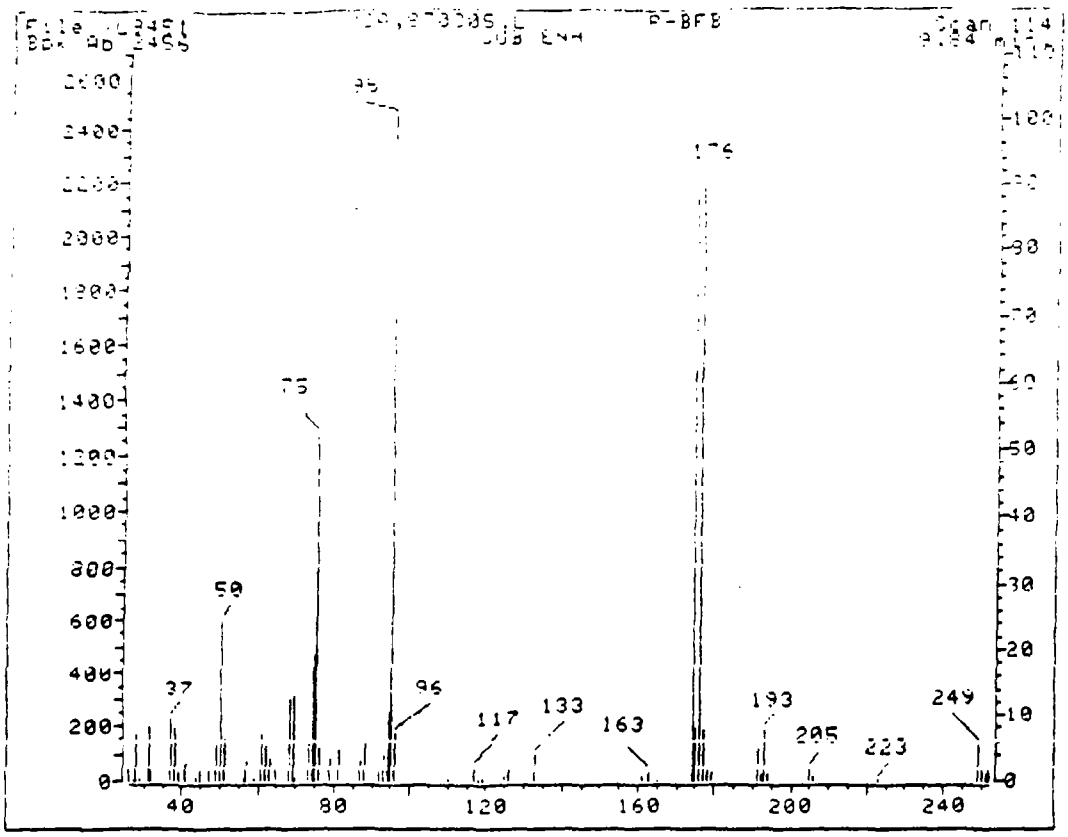

TABLE 2: METHOD PERFORMANCE DATA (QR21)

GC/MS Tuning Data - Bromofluorobenzene (BFB) for Volatiles Analysis

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	24.60	24.60	Ok
75	30-60% of mass 95	52.07	52.07	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.97	6.97	Ok
173	Less than 1% of mass 95	0.00	0.00	Ok
174	Greater than 50% of mass 95	89.40	89.40	Ok
175	5-9% of mass 174	7.80	8.73	Ok
176	95-101% of mass 174	90.01	100.68	Ok
177	5-9% of mass 176	7.50	8.33	Ok

Injection Date: 03/05/87 Analyst: Brenda Hawkins
Injection Time: 12:03 Processor: Shawn Marlow
Run No: >L9451 QC Batch: QV6587
Spectrum No: 114 ENH - 129 Samples: R4764, R4767, R4760, R4762, R1456 - R1459

L.R.
3/7/87

Appendix D
Subcontractor's Data

1) A copy of the originating subcontractor's report is included for all data not generated within ETC's laboratory.

ETC ENVIRONMENTAL TESTING and CERTIFICATION

Subcontracted Analytical Results

ETC Job # 6459

Lab ID: GCL 100360 Facility: 690 Sample Point: W - ~~GETI 1~~ SK -

Submitted by: Jane Dubrowski

Date: 3-6-87 Date Sampled: 8/10/86 Time Sampled: 13:20

Line No.	Parameter	Table	Units Of Measure	Value	MDL	Comments
METALS						
1	Arsenic	QR 05 41	ug/l			
2	Barium	QR 41	ug/l	259	50	
3	Cadmium	QR 05 41	ug/l			
4	Chromium	QR 05 41	ug/l			
5	Lead	QR 05 41	ug/l			
6	Mercury	QR 05 41	ug/l			
7	Selenium	QR 05 41	ug/l			
8	Silver	QR 05 41	ug/l			
9	Iron	QR 41	ug/l	30000	30	
10	Manganese	QR 41	ug/l	1450	10	
11	Sodium	QR 41	ug/l	121000	50	
12	Antimony	QR 05	ug/l			
13	Beryllium	QR 05	ug/l			
14	Copper	QR 05	ug/l			
15	Nickel	QR 05	ug/l			
16	Thallium	QR 05	ug/l			
17	Zinc	QR 05	ug/l			
18	Boron		ug/l	798	10	
19	Calcium		ug/l	176000	100	
20	Magnesium		ug/l	52100	200	
21	Aluminum		ug/l			
22	Chromium, Hexavalent		ug/l			
23	Cobalt		ug/l			
24	Molybdenum		ug/l			
25	Potassium		ug/l			
26	Strontium		ug/l			
27	Tin		ug/l			
28	Vanadium		ug/l			

ETC ENVIRONMENTAL TESTING and CERTIFICATION

Subcontracted Analytical Results

ETC Job # R1457

Lab ID: GCL100360

Submitted by: Jane Lukowski

Facility: 690 (Facility Code)

Sample Point: W ~~GEF17~~ SK-

Date: 3-6-87

Date Sampled: 870220 (Y Y M M D D)

Time Sampled: 1530 (H H M M)

Line No.	Parameter	Table	Units Of Measure	Value	MDL	Comments
CONVENTIONALS						
1	Chloride	QR 10	mg/l	[illegible]	1	
2	Fluoride	QR 10	mg/l			
3	Nitrate as N	QR 10	mg/l			
4	Sulfate as SO4	QR 10	mg/l	100	10	
5	Phenolics, Total	QR 10	mg/l	<0.005	0.005	
6	Total Organic Halides (TOX)	QR 10	ug/l			
	Total Organic Halides (TOX)	QR 10	ug/l			
	Total Organic Halides (TOX)	QR 10	ug/l			
	Total Organic Halides (TOX)	QR 10	ug/l			
7	Total Organic Carbon	QR 10	mg/l	11	1.0	
	Total Organic Carbon	QR 10	mg/l	11	1.0	
	Total Organic Carbon	QR 10	mg/l			
	Total Organic Carbon	QR 10	mg/l			
8	Specific Conductance (Lab)	QR 10	um/cm			
	Specific Conductance (Lab)	QR 10	um/cm			
	Specific Conductance (Lab)	QR 10	um/cm			
	Specific Conductance (Lab)	QR 10	um/cm			
9	pH (Lab)	QR 10	std			
	pH (Lab)	QR 10	std			
	pH (Lab)	QR 10	std			
	pH (Lab)	QR 10	std			
10	Coliform, Total	QR 10	C/100			
11	Coliform, Fecal	QR 10	C/100			
12	Gross Alpha	QR 10	PCi/l			
13	Gross Beta	QR 10	pCi/l			
14	Acidity as CaCO3		mg/l			
15	Alkalinity as CaCO3		mg/l			
16	Ammonia as N		mg/l	2.4	0.1	
17	Bicarbonate as CaCO3		mg/l			
18	Biochemical Oxygen Demand		mg/l			
19	Carbonate as CaCO3		mg/l			
20	Chemical Oxygen Demand		mg/l	31	5	
21	Color, Apparent (Lab)		Pt/Co			
22	Cyanide, Total		mg/l			
23	Hardness as CaCO3		mg/l			
24	Nitrite as N		mg/l			
25	Nitrogen Total Kjeldahl (TKN)		mg/l			
26	Nitrogen, Total Organic		mg/l			
27	Odor (Lab)		TON			
28	Oil and Grease (grav, IR)		mg/l			
29	Phosphate, ortho		mg/l			
30	Phosphate, Total		mg/l			
31	Solids, Total		mg/l			
32	Solids, Total Dissolved (ROE) 180°		mg/l	100	10	
33	Solids, Total Suspended		mg/l			
34	Sulfide as S		mg/l			
35	Surfactants (MBAS/LAS)		mg/l			
36	Turbidity (Lab)		NTU			

Appendix E

Chain-of Custody Forms

1) A field Chain-of-Custody form (CC1) is included for all samples shipped by ETC shuttle

2) An in-house sample Chain-of Custody form is included for all samples not shipped by ETC shuttle.

3) Any additional Chain-of-Custody material provided by a client or by a client's sampling agent is also included.

4) A subcontractor's Chain-of-Custody form is included for any analytical work not performed within ETC's laboratory.

5) Analysis and Extraction Custody forms are included for the period the sample was in ETC's possession

ETC TESTING and CERTIFICATION

ORIGINAL

CHAIN OF CUSTODY FORM (CC1)

Date Sealed 1 FEB. 1987 B. BB

Company Waste Management, Inc. Attn. Glen O'Bryan

Facility Site Site 690 Phone

Address

SAMPLE IDENTIFICATION

Facility 690

Sample Point W-SKA 870220 1320

Sample Codes

Ae	A	Outfall	C	Bottom Sediment	Bi	Surface Impoundment		Leachate Collection Sys	O Other
Sh	S	River/Stream	R	Generation Point	G	Treatment Facility		Lake Ocean	L Specify

SHUTTLE CONTENTS

BOTTLE				ANALYSIS	SAMPLER		LAB
No	Type	Size	Preserv.		Filt. (Y/N)	Observations	Observations
2	F	40ML	BAKED	VOA	No		✓

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) Mike Grazioli Date: 2/19/87 Time: 10:30
   Signature: Mike Grazioli Seal #: 72985 Intact: ✓

2. I have received these materials in good condition from the above person.
   Name: Signature:
   Date: Time: Remarks:

3. I have received these materials in good condition from the above person.
   Name: Signature:
   Date: Time: Remarks:

4. Shuttle Sealed By: (print) Mike Grazioli Date: 2/20/87 Time: 14:[illegible]
   Signature: Mike Grazioli Seal #: 72986 Intact: ✓

LAB USE ONLY Opened By: Mark Schstadt Date: 2-21-87 Time: 11:55 AM

ETC ENVIRONMENTAL TESTING and CERTIFICATION

FIELD PARAMETER FORM (CC2)

ETC JOB # 81459

Sample Point WS SKP

FIELD PROCEDURES

PURGE DATE (YY MM DD)	START PURGE (2400 hr Clock)	ELAPSED HRS	WATER COLUMN CASING (Gallons)	VOLUME PURGED (Gallons)
870220	1315	0		

SAMPLING METHOD: Grab

Sampler Type: D — A-Submersible Pump, B-ISCO, C-Bladder Pump, D-Dipper Bottle, E-Bailer, F-Scoop/Shovel, X-Other (SPECIFY OTHER)

Sampler Material: C — A-Teflon, B-Metal, C-PVC, D-Plastic, X-Other (SPECIFY OTHER)

Tubing Material: — — A-Teflon, B-Tygon, C-Polyethylene, D-Silicon, X-Other (SPECIFY OTHER)

Sample Composited: Y/N — NO (Procedure Proportions)

FIELD MEASUREMENTS

Well Elevation (ft/msl)

Depth to Ground water (ft)

Groundwater Elevation (ft msl)

Well Depth (ft)

Sample Depth (non-well) (ft)

	ph		spec. cond		(other parameter)	value	units
st	(STD)	1st	um/cm at 25°C				
d	(STD)	2nd	um/cm at 25°C				
	(STD)	3rd	um/cm at 25°C				
	(STD)	4th	um/cm at 25°C				

Sample Temp (°C)

Turbidity NTU

FIELD COMMENTS

Sample Appearance:

Other Conditions:

Other: See Gulf Coast Labs CL_2 for additional info

WARNING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Mike Grazioli (Print) Employer: Gulf Coast Labs

I certify that sampling procedures were in accordance with applicable EPA state and corporate p

Signature: Mike Grazioli (Signature)

ETC ENVIRONMENTAL TESTING and CERTIFICATION

CHAIN OF CUSTODY FORM (CC1)

Seal No: ____ ETC Job #: K-[illegible]

Date Sealed: 2/20/87 By: M. Grazioli

Company: WMI

Facility/Site: Milam

Address: St Claire Co, IL.

Attn.: Glenn O'Bryan

Phone: ( )

REC'D [illegible]

SAMPLE IDENTIFICATION

Facility: 690

Sample Point: W-SKA | 870220 | 1320

Source Codes

Well (Wl) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys (C) Other

Soil (Sl) River Stream (Ri) Generation Point (Gi) Treatment Facility (T) Lake Ocean (L) Specify ____

SHUTTLE CONTENTS

BOTTLE No	Type	Size	Preserv.	ANALYSIS	SAMPLER Filt. (Y/N)	SAMPLER Observations	LAB Observations
1	B	1L	Cool to 4°C	General	Y		
1	E	32oz	H_3PO_4 / H_2SO_4	Phenols	Y		
1	F	500ml	HNO_3	Metals	Y		
1	F	500ml	H_2SO_4	Nutrients	Y		
1	G	250ml	H_2SO_4	TOC	Y		

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) Mike Grazioli Date: 2/20/87 Time: —
   Signature: Mike Grazioli Seal #: — Intact: ✓

2. I have received these materials in good condition from the above person.
   Name: Signature:
   Date: Time: Remarks:

3. I have received these materials in good condition from the above person.
   Name: Signature:
   Date: Time: Remarks:

4. Shuttle Sealed By: (print) Mike Grazioli Date: 2/20/87 Time: —
   Signature: Mike Grazioli Seal #: — Intact: ✓

ETC USE ONLY Opened By: Lynn Hufford Date: 2/20/87 Time: 20:00

ORIGINAL Seal #: Condition:

ETC ENVIRONMENTAL TESTING and CERTIFICATION

FIELD PARAMETER FORM (CC2)

ETC JOB # [illegible]

Sample Point: WD (Source Code) S.K.A (Sample Point ID)

FIELD PROCEDURES

PURGE DATE (YY MM DD)	START PURGE (2400 Hr Clock)	ELAPSED HRS	WATER COLUMN CASING (Gallons)	VOLUME PURGED (Gallons)
870218	1315	0		

SAMPLING METHOD: Grab

Sampler Type [D] A-Submersible Pump, B-ISCO, C-Bladder Pump, D-Dipper/Bottle, E-Bailer, F-Scoop/Shovel, X-Other [illegible] 1027 (SPECIFY OTHER)

Sampler Material [C] A-Teflon, B-Metal, C-PVC, D-Plastic, X-Other ____ (SPECIFY OTHER)

Tubing Material [—] A-Teflon, B-Tygon, C-Polyethylene, D-Silicon, X-Other ____ (SPECIFY OTHER)

Sample Composited [Y/N] NO (Procedure Proportions)

FIELD MEASUREMENTS

Well Elevation (ft/msl) ____ Well Depth (ft) ____

Depth to Ground water (ft) ____ Sample Depth (non-well) (ft) ____

Groundwater Elevation (ft msl) ____

	ph		spec. cond.		(other parameter)	value	units
1st	7.48	(STD)	1918	um/cm at 25°C	STICK-up	0.00	ft
2nd		(STD)		um/cm at 25°C			
3rd		(STD)		um/cm at 25°C			
4th		(STD)		um/cm at 25°C			

Sample Temp: 17.4 (°C)

Turbidity: ____ NTU

FIELD COMMENTS

Sample Appearance: very light yellow, normal, no odor

Weather Conditions: Not applicable

Other: This sample point was inside of truck stop directly west of Milam. Odor of diesel fuel. Trucks were being worked on in bays adjacent to sample point. Water was allowed to run for 5 minutes prior to sampling.

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Mike Grazioli (Print) Employer: Gulf Coast Labs

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

2/18/87 Mike Grazioli (Date) (Signature)

ORIGINAL

ETC ENVIRONMENTAL TESTING AND CERTIFICATION

LABORATORY CHRONICLE: GC-MS Department

DATE 870304-870305 SHIFT
FRACTION VOA
INSTRUMENT L
TUNE FILE APE101
SEQUENCE FILE RKL
METHOD FILE CAL
ID FILE LVOA
ANALYST(S) Rick Red
Brendan Hawkins
SUPERVISOR Frank L.
BATCH #'s QV6581

STANDARD	CONC PPM	LOT NO	LOT VOL
p-BFB	50	[illegible]	[illegible]
ABC\XVOA	19	[illegible]	[illegible]
INSTD	25	[illegible]	[illegible]
Surrog	25	[illegible]	[illegible]

Old ABC\XVOA mix!

PLEASE INITIAL

CURRENT CS05 STATUS		STANDARDS UPDATED	
ACQ		DATE	3-4-87
WIP		BY	RRR

p5 1 of 2

NAME	DATA FILE	uL INJ	ALS #	DIL	TAPE # L-77	SPECIALS (WRITE A-TYPE)	PLUS Y/N
P-BFB	>L9434	1ul	–			OK 21:46	
QC6581V	>L9435	5ml	1			OK Blank	22:56
QC6581VS	>L9436	↓	2		CRUDD	5ul abc\XVOA	
QC6581VS	>L9437	↓	3		CRUDD	10ul ↓	
QC6581VS	>L9438	↓	4		CRUDD	30ul ↓	1:05
p-BFB	>L9439	1ul	–			OK	3:04
R5923V	>L9440	5ml	1			OK	
R5923VR	>L9441	↓	2			OK	
R5922V	>L9442	↓	3			OK	
R5922VS	>L9443	↓	4			OK 5ul X\VOA	
R4763V	>L9444	↓	5			OK re-run 1:10 cpd# 13	
R4766V	>L9445	↓	6			OK	
R4765V	>L9446	↓	7			OK	
R4759V	>L9447	↓	8			OK	
R4761V	>L9448	↓	9			OK	
R4758V	>L9449	↓	10			OK	
QC6581V	>L9450	5ml	5			OK position check	
p-BFB	>L9451	1ul	–			OK	
QC6581VS	>L9452	5ml	10			OK 5ml X/VOA	1:33
R4764V	>L9453	↓	1			OK	
R4767V	>L9454	↓	2			OK	
R4760V	>L9455	↓	3			OK	
R4763V	>L9456	.5	4	1:10		OK	
R4762V	>L9457	5ml	5			OK re-run 1:20 cpd# 4, 13	

ETC ENVIRONMENTAL TESTING AND CERTIFICATION

LABORATORY CHRONICLE: GC-MS Department

DATE 870305 SHIFT
FRACTION VOA
INSTRUMENT L
TUNE FILE LLV
SEQUENCE FILE ↓
METHOD FILE VOAL
ID FILE LVOA
ANALYST(S) Rick Leach
Brenda Hudson
SUPERVISOR Paul Frank
BATCH #'s QV6531

(PLEASE INITIAL)

CURRENT CS05 STATUS		STANDARDS UPDATED	
ACO		DATE	
WIP		BY	

STANDARD	CONC PPM	LOT NO	LOT VOL

NAME	DATA FILE	uL INJ	ALS #	DIL	TAPE #	SPECIALS (WRITE A-TYPE)	PLUS Y/N
R4727V	7L9459	.5	7	1:10	OK	for QV6525	
(2) R4762V	7L9460	.5	8	1:10	OK		
R1456V	7L9461	5ml	7		OK		
R1457V	7L9462	↓	8		OK		
R1458V	7L9463	↓	9		OK		
R1459V	7L9464	↓	10		OK		

ETC FORM 8

Key List

Attachment A-2

Milam Landfill
Chain of Rocks Landfill
P.O. Box 607
East St. Louis, Illinois 62012
618/271-6788

A Waste Management Company

May 12, 1987

RECEIVED
JUN 1987
IEPA-DLPC

Mr. Ray Pratt
Gateway Midstates Truck Plaza
I55 and I70 at Illinois Route 203
East St. Louis, Illinois 62010

Dear Mr. Pratt,

Please find enclosed the analytical results from a sampling conducted March 25, 1987 at your property. The samples were retained from the water well at the well head located within the garage, and two after treatment point of use locations in the kitchen area.

The data from the March 25 sampling and the prior February 20 sampling indicate that the well water contains trace volatile organics and elevated inorganic parameters. The after treatment point of use water quality also contains trace volatile organics and reduced levels of inorganic parameters.

As discussed in my March 25 correspondence, it may not be possible to discriminate all sources of this apparent contamination, however, it is not possible to discount Milam Landfill as one of many potential sources. In consideration of this potential and as a precautionary measure, the Company restates its offer to provide a temporary drinking water supply to the Truck Plaza. In addition we request your permission to continue sampling the water well during our normal sampling schedule.

Should any questions arise regarding this matter please call me at (618) 271-6788.

Very truly yours,

Glenn A. O'Bryan, P.E.
District Engineer

cc: William C. Child (IEPA)
John Rohr (WMII)
Dick Molenhouse (WMII)
Phil Comella (WMI)
Gerard Hamblin (WMII)

ETC ENVIRONMENTAL TESTING and CERTIFICATION

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 04/20/87
PAGE: 1

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	690	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Sample Points, Sampling Dates, and ETC Sample No.'s

Parameters	Units	SKA 870325 S1303	SKKF 870325 S1304	SKWS 870325 S1305					
Priority Pollutant Volatiles									
Acrolein	ug/l	< 100	< 100	< 100					
Acrylonitrile	ug/l	< 100	< 100	< 100					
Benzene	ug/l	< 4.4	< 4.4	< 4.4					
bis(Chloromethyl)ether	ug/l	< 10	< 10	< 10					
Bromoform	ug/l	< 4.7	< 4.7	< 4.7					
Carbon tetrachloride	ug/l	< 2.8	< 2.8	< 2.8					
Chlorobenzene	ug/l	< 6.0	< 6.0	< 6.0					
Chlorodibromomethane	ug/l	< 3.1	< 3.1	< 3.1					
Chloroethane	ug/l	< 10	< 10	< 10					
2-Chloroethylvinyl ether	ug/l	< 10	< 10	< 10					
Chloroform	ug/l	< 1.6	< 1.6	< 1.6					
Dichlorobromomethane	ug/l	< 2.2	< 2.2	< 2.2					
Dichlorodifluoromethane	ug/l	< 10	< 10	< 10					
1,1-Dichloroethane	ug/l	17.9	28.0	24.4					
1,2-Dichloroethane	ug/l	< 2.8	< 2.8	< 2.8					
1,1-Dichloroethylene	ug/l	< 2.8	3.16	< 2.8					
1,2-Dichloropropane	ug/l	< 6.0	< 6.0	< 6.0					
cis-1,3-Dichloropropylene	ug/l	< 5.0	< 5.0	< 5.0					
Ethylbenzene	ug/l	< 7.2	< 7.2	< 7.2					
Methyl bromide	ug/l	< 10	< 10	< 10					
Methyl chloride	ug/l	< 10	< 10	< 10					
Methylene chloride	ug/l	3.43	< 2.8	3.65					
1,1,2,2-Tetrachloroethane	ug/l	< 6.9	< 6.9	< 6.9					
Tetrachloroethylene	ug/l	< 4.1	< 4.1	< 4.1					
Toluene	ug/l	< 6.0	< 6.0	< 6.0					
1,2-Trans-dichloroethylene	ug/l	5.00	8.25	7.48					
1,1,1-Trichloroethane	ug/l	< 3.8	< 3.8	< 3.8					
1,1,2-Trichloroethane	ug/l	< 5.0	< 5.0	< 5.0					
Trichloroethylene	ug/l	< 1.9	< 1.9	2.33					
Trichlorofluoromethane	ug/l	< 10	< 10	< 10					
Vinyl chloride	ug/l	< 10	< 10	< 10					
trans-1,3-Dichloropropylene	ug/l	< 10	< 10	< 10					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC ENVIRONMENTAL TESTING and CERTIFICATION

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

Chain of Custody Data Required for ETC Data Management Summary Report

See Below	WASTE MANAGEMENT, INC.	690	See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*

Parameters	Units	SKA 870325 S1303	SKKF 870325 S1304	SKWS 870325 S1305					
		Sample Points, Sampling Dates, and ETC Sample No.'s							
Groundwater Metals									
Arsenic	ug/l	< 10	< 10	< 10					
Barium	ug/l	255	7.9	7.3					
Cadmium	ug/l	< 4.5	< 4.5	< 4.5					
Chromium	ug/l	< 21	< 21	< 21					
Lead	ug/l	5.3	< 5.0	< 5.0					
Mercury	ug/l	< .22	< .22	< .22					
Selenium	ug/l	< 5.0	< 5.0	< 5.0					
Silver	ug/l	< 5.9	< 5.9	< 5.9					
Iron	ug/l	29700	910	950					
Manganese	ug/l	1520	42	44					
Sodium	ug/l	115000	453000	454000					
Groundwater Conventionals									
Chloride	mg/l	266	275	278					
Fluoride	mg/l	.40	.37	.35					
Nitrate as N	mg/l	< .10	< .10	< .10					
Sulfate as SO4	mg/l	110	110	110					
Phenolics, Total	mg/l	< .050	< .050	< .050					
TOC Organic Carbon	mg/l	< 1.0	< 1.0	12.1					
Total Organic Carbon	mg/l	< 1.0	< 1.0	11.8					
Miscellaneous Parameters									
2,4,5-TP (Silvex)	ug/l	< 1.0	< 1.0	< .96					
2,4-D	ug/l	< 10	< 10	< 9.6					
Ammonia as N	mg/l	1.2	-	.78					
Boron	ug/l	780	740	730					
Calcium	ug/l	191000	6400	6400					
Chemical Oxygen Demand (COD)	mg/l	20	-	15					
Endrin (GC)	ug/l	< .1	< .09	< .09					
Lindane (GC)	ug/l	< .38	< .38	< .38					
Magnesium	ug/l	55900	1300	1400					
Methoxychlor (GC)	ug/l	< 9.6	< 9.4	< 9.4					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected '-'=Parameter not tested

ETC ENVIRONMENTAL TESTING and CERTIFICATION

DATA MANAGEMENT SUMMARY REPORT
(DM-OL) - All Parameters Tested, Samples Linked by Order

DATE: 04/20/8
PAGE: 3

Chain of Custody Data Required for ETC Data Management Summary Report

See Below			See Below	
ETC Sample No.	*Company*	*Facility*	*Sample Point*	*Date*
	WASTE MANAGEMENT, INC.	690		

Parameters	*Units*	*Sample Points, Sampling Dates, and ETC Sample No.'s*							
		W SKA 870325 S1303	R SKKF 870325 S1304	R SKWS 870325 S1305					
Total Dissolved Solids (TDS)	mg/l	1270	1260	1160					
Toxaphene (GC)	ug/l	< 2.4	< 2.4	< 2.4					

Footnotes: BMDL=Below Method Detection Limit ND=Parameter not detected "-"=Parameter not tested