EPA

O.H. Materials Corp.
P.O. Box 41
Windsor, NJ 08561-0041
609-443-2800

OHM

December 30, 1987

Mr. Blair Ewing
Adams Center Landfill
4636 Adams Center Road
Fort Wayne, IN 46806

Dear Mr. Ewing:

I have enclosed a completed profile sheet of the wastestream for your review. The following information will assist you in expediting the processing procedures for this wastestream:

- Completed WPS: H34133
- Generator: U.S. EPA Region II
  Woodbridge Avenue
  Edison, NJ
- Site Address: Arkansas Chemical
  Foundry Avenue
  Newark, NJ
- Broker: O.H. Materials Corp.
  P.O. Box 41
  Windsor, NJ 08561
  Attn: Melinda Grieswell or
  Jim Bates
  609-443-2800
- Sample and Analysis Enclosed
- Purchase Order #J5359-E-36764

Please note that O.H. Materials Corp. (OHM) will execute all contracts and will be invoiced for disposal, should this material be acceptable at your Fort Wayne facility.

Please contact me at our New Jersey office if you need additional information regarding this wastestream and I will be happy to answer any questions you may have. Thank you for your help in securing the safe, proper disposal of this material.

Sincerely,

Melinda Grieswell

Melinda Grieswell
Chemist

433751

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

H34133

OHM H 34133

Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) CWM Sales Rep. #: _____

A. GENERAL INFORMATION

1. Generator Name: USEPA Region II
2. Generator USEPA ID: NJP000791236
3. Facility Address: Arkansas Chemical, 185 Foundry Street, Newark, NJ
4. Generator State ID: N/A
5. Zip Code: _____
6. Technical Contact: Melinda j. Grieswell
7. Title: Chemist
8. Phone: (609) 443 2800 X58

B. MAIL CHEMICAL WASTE MANAGEMENT, INC. INVOICES TO 1. ☐ Generating Facility (A, above), or

2. Company Name: O.H. Materials
3. Phone: (609) 443 2800 X58
4. Address: P.O. Box 41, Windsor, NJ, Attention: Melinda J. Grieswell
5. Zip Code: 08561

C. 1. **NAME OF WASTE** Acid Solid

2. **PROCESS GENERATING WASTE** CERCLA Clean-up of abandoned chemical facility

3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, **DO NOT COMPLETE** this form. Contact your Chemical Waste Management, Inc. sales representative for assistance.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color:	2. Does the waste have a strong incidental odor?	3. Physical State @ 70°F:	4. Layers:	5. Specific Gravity:	6. Free Liquids:
rown-Gold	☒ No ☐ Yes If known, describe:	☒ Solid ☐ Semi-Solid ☐ Liquid ☐ Powder Other:	☐ Multilayered ☐ Bi-layered ☒ Single Phased	Range: - 0.8	☐ Yes ☒ No Volume: Ø %

7. pH: ☐ ≤ 2 ☐ > 2-4 ☒ 4-7 ☐ 7 ☐ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range - ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☐ 73-99°F ☐ 100-139°F ☒ 140-199°F ☐ ≥ 200°F ☐ None ☒ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

1.	RANGE MIN. - MAX.
Solid Acidic Materials	-50.2968 %
Total Organic Carbons	- 13.7 %
Phenols	-0.003 %
Lead	-0.0002 %
Miscellaneious debris(trash, contaminated protective clothing,tools, etc)	- %
Kiln Dust	- 10.0 %
	- 26 %
	- %
	- %
	- %
	- %
	- %

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%. TOTAL: 100 %

2. Indicate if this waste contains any of the following:

	NONE	or LESS THAN	or ACTUAL
PCB's	☐	☐ < 50 ppm	<0.2 ppm
Cyanides	☐	☐ < 50 ppm	1.34 ppm

F. METALS Indicate if this waste contains any of the following:

1. ☒ EP TOX/TCLP or 2. ☐ Total

METAL	LESS THAN (Parts Per Million)	or	ACTUAL (Parts Per Million)
Arsenic	☐< 5	☐< 500	0.013
Barium	☐< 100		<0.1
Cadmium	☐< 1	☐< 100	0.2
Chromium	☐< 5		<0.05
Lead	☐< 5	☐< 500	1.9
Mercury	☐< 0.2	☐< 20	<0.0005
Selenium	☐< 1	☐< 100	<0.005
Silver	☐< 5		<0.01
Chromium-Hex	☐< 5	☐< 500	0.00
Copper	☐< 5		0.00
Nickel	☐< 5	☐< 134	0.00
Thallium	☐< 5	☐< 130	0.00
Zinc	☐< 5		0.00
	☐<		

GENERATOR'S WASTE MATERIAL PROFILE SHEET (Continued)

OHM H 34133
Waste Profile Sheet Code

G. OTHER HAZARDOUS CHARACTERISTICS

1. Is this waste a listed solvent waste as defined by 40 CFR 261.31 (F001, F002, F003, F004, or F005)? ☐ Yes ☒ No
2. Does this waste contain greater than 1000 ppm total halogenated organic compounds? ☐ Yes ☒ No
3. Indicate if this waste is any of the following:

☐ RCRA Reactive ☐ Radioactive
☐ Water Reactive ☐ Etiological
☐ Explosive ☐ Pesticide Manufacturing Waste
☐ Shock Sensitive ☐ Other _____
☐ Pyrophoric ☒ None of the above

H. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS or INCINERATION

	LESS THAN	or	ACTUAL
Beryllium	☐ < 5000 ppm		_____ ppm
Potassium	☐ < 5000 ppm		_____ ppm
Sodium	☐ < 5000 ppm		_____ ppm
Total Bromine	☐ < 2 %		_____ %
Total Chlorine	☐ < 35 %		_____ %
Total Fluorine	☐ < 1 %		_____ %
Total Sulfur			_____ %

N/A

I. OPTIONAL — RECLAMATION, FUELS, OR INCINERATION PARAMETERS Provide if information is available.

1. Heat Value (BTU/lb): Range N/A
2. Water: _____ %
3. Viscosity (cps): _____ @ ☐ _____ °F ☐ 100°F ☐ 150°F
4. Ash: _____ %
5. Settleable solids: _____ %
6. Vapor Pressure @ STP (mm/Hg): _____
7. Is this waste a pumpable liquid? ☐ Yes ☐ No
   Type of pump? _____
8. Can this waste be heated to improve flow? ☐ Yes ☐ No
9. Is this waste soluble in water? ☐ Yes ☐ No
10. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? ☐ Yes ☐ No

J. TRANSPORTATION INFORMATION

1. Is this a DOT Hazardous Material? ☒ Yes ☐ No
2. Anticipated Annual Volume/Units: 5000 / gallons
3. Proper Shipping Name: "RQ" 100-Waste Corrosive Solid, N.O.S.
4. Hazard Class: Corrosive Material
5. I.D. #: UN 1759
6. Additional Description: (N/A)
7. Method of Shipment: ☐ Bulk Liquid ☒ Bulk Solid ☐ Drum (Type/Size): _____ / _____ Other: Dump-trail
8. CERCLA Reportable Quantity (RQ): _____
9. RQ Units (lb/kg): 100 lb/kg
10. USEPA Hazardous Waste? ☒ Yes ☐ No
11. USEPA Hazardous Waste Number(s): D002
12. State Hazardous Waste? ☒ Yes ☐ No
13. State Hazardous Waste Number(s): D002

K. SPECIAL HANDLING INFORMATION Sample and Analysis Enclosed
Kiln Dust will be used to adjust PH

☒ Additional Page(s) Attached

L. GENERATOR CERTIFICATION I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

1. Signature: Mark P. Pane
2. Title: OSC
3. Name (Type or Print): MARK P. PANE
4. Date: 12-30-87

Form CWM-6000 © 1987 Chemical Waste Management, Inc.

O.H. Materials Corp.
P.O. Box 41
Windsor, NJ 08561-0041
609-443-2800

OHM

December 22, 1987

Ms. Polly Goodwin
Chemical Waste Management of
Alabama
State Highway #17, Mile Marker 163
Emelle, AL 35459

Dear Ms. Goodwin:

I have enclosed a completed profile sheet of the wastestream for your review. The following information will assist you in expediting the processing procedures for this wastestream:

- Completed WPS: H34134
- Generator: USEPA Region II
  Woodbridge Avenue
  Edison, NJ
- Site Address: Arkansas Chemical
  Foundry Avenue
  Newark, NJ
- Broker: O.H. Materials Corp.
  P.O. Box 41
  Windsor, NJ 08561
  Attn: Melinda Grieswell or
  Jim Bates
  609-443-2800
- Sample and Analysis Enclosed
- Purchase Order # J5359-E-36765

Please note that O.H. Materials Corp. (OHM) will execute all contracts and will be invoiced for disposal, should this material be acceptable at your Emeele facility.

Please contact me at our New Jersey office if you need additional information regarding this wastestream and I will be happy to answer any questions you may have. Thank you for your help in securing the safe, proper disposal of this material.

Sincerely,

Melinda Grieswell

Melinda Grieswell
Chemist

Chemical Waste Management, Inc.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

H34134

OHM H 34134

Waste Profile Sheet Code

CWM Location of Original: _____ (SHADED AREAS FOR CWM USE ONLY) CWM Sales Rep. #: _____

A. GENERAL INFORMATION

1. Generator Name: USEPA Region II
2. Generator USEPA ID: NJP000791236
3. Facility Address: Arkansas Chemical
185 Foundry Street
Newark, NJ
4. Generator State ID: N/A
5. Zip Code: _____
6. Technical Contact: Melinda J. Grieswell
7. Title: Chemist
8. Phone: (609) 443-2800 X58

B. MAIL CHEMICAL WASTE MANAGEMENT, INC. INVOICES TO 1. ☐ Generating Facility (A, above), or

2. Company Name: O.H. Materials
3. Phone: (609) 443-2800 X58
4. Address: P.O. Box 41
Windsor, NJ
Attention: Melinda Grieswell
5. Zip Code: 08561

C. 1. **NAME OF WASTE** Acid Solid

2. **PROCESS GENERATING WASTE** CERCLA clean-up of abandoned Chemical Facility

3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, **DO NOT COMPLETE** this form. Contact your Chemical Waste Management, Inc. sales representative for assistance.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color:	2. Does the waste have a strong incidental odor?	3. Physical State @ 70°F:	4. Layers:	5. Specific Gravity:	6. Free Liquids:
Brown-Gold	☒ No ☐ Yes If known, describe:	☒ Solid ☐ Semi-Solid ☐ Liquid ☐ Powder Other:	☐ Multilayered ☐ Bi-layered ☒ Single Phased	Range: 0.8	☐ Yes ☒ No Volume: Ø %

7. pH: ☐ ≤ 2 ☐ > 2-4 ☒ 4-7 ☐ 7 ☐ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range - ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☐ 73-99°F ☐ 100-139°F ☒ 140-199°F ☐ ≥ 200°F ☐ None ☒ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

1.	RANGE MIN. - MAX.	
Solid Acidic Materials	-50.2968	%
Total Organic Carbons	- 13.7	%
Phenols	-0.003	%
Lead	-0.0002	%
Miscellaneous debris(Trash, Contam-	- 10.0	%
inated Protective Clothing, tools,	-	%
etc.)	-	%
Kiln Dust	- 26	%
	-	%
	-	%
	-	%
	-	%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%. **TOTAL:** 100 %

2. Indicate if this waste contains any of the following:

	NONE	or LESS THAN	or ACTUAL
PCB's	☐	☐ < 50 ppm	<0.2 ppm
Cyanides	☐	☐ < 50 ppm	1.34 ppm
Phenolics	☐	☐ < 50 ppm	27.7 ppm

F. METALS Indicate if this waste contains any of the following:

1. ☒ EP TOX/TCLP or 2. ☐ Total

METAL	LESS THAN (Parts Per Million)	or	ACTUAL (Parts Per Million)
Arsenic	☐ < 5	☐ < 500	0.013
Barium	☐ < 100		<0.1
Cadmium	☐ < 1	☐ < 100	0.2
Chromium	☐ < 5		<0.05
Lead	☐ < 5	☐ < 500	1.9
Mercury	☐ < 0.2	☐ < 20	<0.0005
Selenium	☐ < 1	☐ < 100	<0.005
Silver	☐ < 5		<0.01
Chromium-Hex	☐ < 5	☐ < 500	0.00
Copper	☐ < 5		0.00
Nickel	☐ < 5	☐ < 134	0.00
Thallium	☐ < 5	☐ < 130	0.00
Zinc	☐ < 5		0.00
	☐ <		
	☐ <		
	☐ <		

O.H. Materials Corp.
P.O. Box 41
Windsor, NJ 08561-0041
609-443-2800

OHM

December 22, 1987

Mr. Mike Spomer
Michigan Disposal Inc.
49350 No. I-94 Service Drive
Belleville, MI 48111

Dear Mr. Spomer:

I have enclosed a completed profile sheet of the wastestream for your review. The following information will assist you in expediting the processing procedures for this wastestream:

- Completed WPS
- Generator: USEPA Region II
  Woodbridge Avenue
  Edison, NJ
- Site Address: Arkansas Chemical
  Foundry Avenue
  Newark, NJ
- Broker: O.H. Materials Corp.
  P.O. Box 41
  Windsor, NJ 08561
  Attn: Melinda Grieswell or
  Jim Bates
  609-443-2800
- Sample and Analysis Enclosed

Please note that O.H. Materials Corp. (OHM) will execute all contracts and will be invoiced for disposal, should this material be acceptable at your Belleville facility.

Please contact me at our New Jersey office if you need additional information regarding this wastestream and I will be happy to answer any questions you may have. Thank you for your help in securing the safe, proper disposal of this material.

Sincerely,

Melinda Grieswell

Melinda J. Grieswell
Chemist

WAYNE DISPOSAL, INC.
P.O. Box 5187 • Dearborn, MI 48128
MID048090633

MICHIGAN DISPOSAL, INC.
P.O. Box 5116 • Dearborn, MI 48128
MID000724831

GENERATOR WASTE CHARACTERIZATION REPORT (Separate report required for each waste stream)

Instructions: Please complete all applicable sections of this report. Print legibly or use a typewriter. If shipping by U.S. Postal Service send to either address above, if shipping by UPS or an express service send to: 49350 N. I-94 Service Dr., Belleville, MI 48111. Supply a representative one-pint sample of the waste. The top (original) copy is to be sent to Wayne/Michigan Disposal, Inc., the goldenrod copy is for the generator, the green copy is for the broker or any other person designated by the generator.
Do not ship waste for disposal until the generator has received an approval letter from Wayne or Michigan Disposal, Inc.

GENERATOR GENERAL INFORMATION

I Facility Information
US EPA ID # NJP006791236
Company Name U.S. EPA Region II
Plant etc. Arkansas Chemical
Address Foundry Avenue
City, State, Zip Newark, NJ
Contact Person Melinda J. Grieswell
Telephone (AC) 609 443-2800 (Ext) 58

II Transporter Information (if known)
US EPA ID # Not Determined Yet
Name
Address
City, State, Zip
Contact Person
Telephone (AC) (Ext)

IV Waste Characterization
Waste Common Name Acid Solids

Description of process generating this waste: CERCLA Clean-up of abandoned chemical facility

Have you supplied WDI/MDI with a representative sample of this waste?
☒ Yes When? with profile (Date) 8 oz/ jar (4529-28) (Describe container and markings)
☐ No
Note: A sample must be supplied before an approval letter can be issued.

Business/Mailing/Broker Information
(if different from facility information)
Company Name O.H. Materials
Plant etc.
Address P.O. Box 41
City, State, Zip Windsor, NJ 08561
Contact Person Melinda Grieswell
Telephone (AC) 609 443-2800 (Ext) 58

III Hazardous Waste Numbers
Please list all hazardous waste numbers from 40 CFR Part 261 or tables 201-205 of the Michigan Hazardous Waste administrative rules which apply to this waste.
D 0 0 2

☐ This waste is non-hazardous under US EPA and State of Michigan regulations.

Physical Characteristics
Color Brown-Gold
☒ solid ☐ liquid ☐ sludge ☐ dust/powder
Free liquids? ☐ yes ☒ no
If liquid or sludge: % solids N/A
Multilayed? ☐ yes ☐ no Specific gravity
Flash point ☐ closed cup ☐ open cup
pH to
Volatile Organics: N/A % halogenated
% non-halogenated
If solid: density 3000 lb/cu yd
pH 4 to 5

Constituent Composition Information
(include all hazardous constituents)

Major Constituents		Minor Constituents	
Solid Acid	%	--clothing, trash,	ppm
Material	50 %	tools, etc.)	ppm
Total Organic	%	Kiln Dust	26 ppm
Carbons	14 %	Phenols	27.7 ppm
Misc. Debris	10 %	Trans-1,3-	ppm
(Protective---	%	dichloropropene	4.18 ppm
		Lead	1.9 ppm

Attach all supporting chemical analysis results. All analyses must be done according to US EPA approved procedures.

Other Characteristics (check any that apply)
☐ Reactive ☐ Pyrophoric
☐ Explosive ☐ Strong Oxidizer
☐ Shock sensitive ☐ Auto Ignitable
(Explain reason for any of above in chemical composition)
☒ Cyanide 1.34 ppm conc. ☒ Sulfide <0.5 ppm conc.
☒ EP Toxic (attach test results) ☐ PCB's <0.2 ppm conc.

V Shipping Information
DOT Shipping Name "RQ" 100 Waste Corrosive Solid, N.O.S. (D002)
Hazard class Corrosive Material UN/NA # 1759
will be shipped ☒ bulk ☐ drums Dump & Railers size
☐ other describe
Shipping frequency 20-40 yd³ quantity per one-time frequency
☒ one time only

VI Notes & Special Handling Information

VII WDI/MDI office use only
C# S.N. S.F. R.I.
CC P.C. A.N.

VII Certification (must be signed by waste generator - not transporter or broker)
I certify that all information on this form is complete and factual (including attached information) and is an accurate representation of the known and suspected hazards of the waste to be disposed.

Name MARK P PANE
Print or Type

Mark P Pane
Signature

Title OSC

Date 12-30-87

Wastex Industries, Inc.

Licensed Analytical Laboratories

P.A. DER 46005
N.J. DEP 77371

28 S. Hanover Street Pottstown, PA. 19464 215/327-0880
125 Main Avenue Elmwood Park, N.J. 07407 201/791-6700

P.O. # J5359-E4-36362
Sample # 871123.018

Customer # ohmate
For O.H. Materials Corp.
P.O. Box 41
Windsor NJ 08561-0041
Attn: Jim Bates

Date Sampled 11-18-87 10:30 AM
Sampled By JC/BD
Sample composite
Sample ID

Date Rec. 11-23-87 10:20 AM
Rec by SLG
PWS ID :

Newark NJ U.S. E.P.A. Region II Proj. 5359-E4
2 4529-28 Acid Solid Composite

General	Landfill Analysis		
TOC	137,000	mg/kg	
pH	<1		
Cyanide Total	1.34	mg/kg	
Cyanide Amenable	<0.01	mg/kg	
Sulfide Total	<0.5	mg/kg	
Phenols	27.7	mg/kg	
Paint Filter	<1	%	free liquid
Flash Point	>140	°F	
Metals	**E.P. TOX**		
Arsenic	0.013	mg/l	
Barium	<0.1	mg/l	
Cadmium	0.2	mg/l	
Chromium	<0.05	mg/l	
Lead	1.9	mg/l	
Mercury	<0.0005	mg/l	
Selenium	<0.005	mg/l	
Silver	<0.01	mg/l	
Pesticides & Herbicides	**E.P. TOX**		
Pesticides:			
Endrin	<0.0002	mg/l	
Lindane	<0.004	mg/l	
Methoxychlor	<0.1	mg/l	
Toxaphene	<0.005	mg/l	
Herbicides:			
2,4,D	<0.1	mg/l	
Silvex (2,4,5,-TP)	<0.01	mg/l	
Pesticides			
Aldrin	<0.02	mg/kg	
alpha-BHC	<0.02	mg/kg	
beta-BHC	<0.02	mg/kg	

Sample # 871123.018

gamma-BHC	<0.02	mg/kg
delta-BHC	<0.02	mg/kg
4,4'-DDT	<0.02	mg/kg
4,4'-DDE	<0.02	mg/kg
4,4'-DDD	<0.02	mg/kg
Dieldrin	<0.02	mg/kg
alpha-Endosulfan	<0.02	mg/kg
beta-Endosulfan	<0.02	mg/kg
Endosulfan Sulfate	<0.02	mg/kg
Endrin	<0.02	mg/kg
Endrin Aldehyde	<0.02	mg/kg
Heptachlor	<0.02	mg/kg
Heptachlor Epoxide	<0.02	mg/kg
PCB-1242	<0.2	mg/kg
PCB-1254	<0.2	mg/kg
PCB-1221	<0.2	mg/kg
PCB-1232	<0.2	mg/kg
PCB-1260	<0.2	mg/kg
PCB-1016	<0.2	mg/kg
PCB-1248	<0.2	mg/kg
Chlordane	<0.2	mg/kg
Toxaphene	<0.5	mg/kg

GC/MS

GC/MS Volatiles	see attached sheets
GC/MS Base/Neutrals	see attached sheets
GC/MS Acid Compounds	see attached sheets

Signature _____

19 ROSS STREET, SOMERVILLE, NEW JERSEY 08876, (201) 725-6927

ANALYSIS OF VOLATILE ORGANIC COMPOUNDS IN SOIL, SEDIMENT, SLUDGE AND WASTE MATERIALS, METHOD 8240, GAS CHROMATOGRAPHY/ MASS SPECTROSCOPY

FORM: VOAFORM8

CLIENT	WASTEX INDUSTRIES INC.	GC/MS REF#	V009A29A.D
SAMPLE #	871123.018	MATRIX	WASTE SLUDGE
COLLECTED	11/18/87	DATE ANALYZED	11/30/87
C.A.L. #	87-824	ANALYST	SABATINO
DATE REC.	11/24/87	REPORT DATE	12/12/87
% SOLIDS	SEE NOTE #1	DILUTION FACTOR	57.8

COMPOUND	CAS #	CONCENTRATION MGS/KG (1)	PQL (2) MGS/KG
Chloromethane	74-87-3	N.D.<1.00	1.00
Bromomethane	74-83-9	N.D.<1.00	1.00
Vinyl Chloride	75-01-4	N.D.<1.00	1.00
Chloroethane	75-00-3	N.D.<1.00	1.00
Methylene Chloride	75-09-2	N.D.<1.00	0.50
Acetone	67-64-1	N.D.<10.0	10.0
Carbon Disulfide	75-15-0	N.D.<1.00	1.00
Trichlorofluoromethane	75-69-4	N.D.<0.50	0.50
Dichlorodifluoromethane		N.D.<0.50	0.50
1,1-Dichloroethene	75-35-4	N.D.<0.50	0.50
1,1-Dichloroethane	75-35-3	N.D.<0.50	0.50
trans-1,2-Dichloroethene	156-60-5	N.D.<0.50	0.50
Chloroform	67-66-3	N.D.<0.50	0.50
1,2-Dichloroethane	107-06-2	N.D.<0.50	0.50
2-Butanone	78-93-3	N.D.<10.0	10.0
1,1,1-Trichloroethane	75-55-6	N.D.<0.50	0.50
Carbon Tetrachloride	56-23-5	N.D.<0.50	0.50
Vinyl Acetate	108-05-4	N.D.<5.00	5.00
Bromodichloromethane	75-27-4	N.D.<0.50	0.50
1,2-Dichloropropane	78-87-5	N.D.<10.0	1.00
cis-1,3-Dichloropropene	10061-01-5	N.D.<10.0	1.00
Trichloroethene	79-01-6	N.D.<0.50	0.50
Benzene	71-43-2	N.D.<0.50	0.50
Dibromochloromethane	124-48-1	N.D.<0.50	0.50
1,1,2-Trichloroethane	79-00-5	N.D.<0.50	0.50
trans-1,3-Dichloropropene	10061-02-6	4.18	1.00
2-Chloroethylvinyl Ether	110-75-8	N.D.<10.0	1.00
Bromoform	75-25-2	N.D.<0.50	0.50
1,1,2,2-Tetrachloroethane	79-34-5	N.D.<0.50	0.50
Tetrachloroethene	127-18-4	N.D.<0.50	0.50
2-Hexanone	591-78-6	N.D.<5.00	5.00
4-Methyl-2-pentanone	108-10-1	N.D.<5.00	5.00
Toluene	108-88-3	0.593	0.50
Chlorobenzene	108-90-7	N.D.<0.50	0.50
Ethylbenzene	100-41-4	N.D.<0.50	0.50
Styrene	100-42-5	N.D.<0.50	0.50
1,3 + 1,4- Xylene Isomers		N.D.<0.50	0.50
1,2-Xylene		N.D.<0.50	0.50
1,2-Dichlorobenzene	95-50-1	N.D.<0.50	0.50
1,3-Dichlorobenzene	541-73-1	N.D.<0.50	0.50
1,4-Dichlorobenzene	106-46-7	N.D.<0.50	0.50

(1) MGS/KG = Milligrams/Kilogram (As Received), PPM
(2) PQL = Practical Quantitation Limit, PPM
(3) N.D. = Non-Detectable, less than concentration indicated

GC/MS REFERENCE # V009A29A.D

SURROGATE COMPOUND RECOVERY	MICROGRAMS ADDED	MICROGRAMS FOUND	%RECOVERY
Bromochloromethane	4.00	3.18	80
1,2-Dichloroethane D-4	4.00	2.92	73
1,4-Diflourobenzene	4.00	4.04	101
Fluorobenzene	4.00	4.00	100
Toluene D-8	4.00	4.53	113
2-Bromo-1-Chloropropane	4.00	4.72	118
Ethylbenzene D-10	4.00	4.29	107
1,4-Dichlorobutane	4.00	3.71	93
4-Bromofluorobenzene	4.00	3.58	90

NON-TARGET COMPOUNDS	CONCENTRATION MGS/KG (4)

NOT REQUESTED BY CLIENT

(4) Concentrated Estimated Using D-6 Benzene's Response Factor

Thomas Sabatino
C.A.L. Technologies Inc.

19 ROSS STREET, SOMERVILLE, NEW JERSEY 08876, (201) 725-6927

ANALYSIS OF SEMIVOLATILE ORGANIC COMPOUNDS IN SOIL/ SEDIMENT
USING USEPA METHOD 8270, GAS CHROMATOGRAPHY/ MASS SPECTROSCOPY
FORM: BNFORM4

CLIENT	WASTEX INDUSTRIES INC.	MATRIX	WASTE SLUDGE
SAMPLE #	871123.018	DATE EXTRACTED	11/25/87
C.A.L. #	87-824	DATE ANALYZED	11/30/87
DATE REC.	11/24/87	ANALYST	SABATINO
GC/MS REF #	B009A14A.D	REPORT DATE	12/17/87
% SOLIDS	SEE NOTE #1	DILUTION FACTOR	20.0

TARGET COMPOUND	CAS NUMBER	CONCENTRATION MG/KG(1)	PQL(2) MG/KG
Phenol	180-95-02	N.D. < 50	50
Bis(2-Chloroethyl) Ethyl	111-44-4	N.D. < 50	50
2-Chlorophenol	95-57-8	N.D. < 50	50
1,3-Dichlorobenzene	541-73-1	N.D. < 50	50
1,4-Dichlorobenzene	106-46-7	N.D. < 50	50
Benzyl Alcohol	100-51-6	N.D. < 100	100
1,2-Dichlorobenzene	95-50-1	N.D. < 50	50
2-Methylphenol	95-48-7	N.D. < 50	50
bis(2-Chloroisopropyl) Ether	39638-32-9	N.D. < 50	50
4-Methylphenol	106-44-5	N.D. < 50	50
N-Nitroso-Di-N-Propylamine	621-64-7	N.D. < 50	50
Hexachloroethane	67-72-1	N.D. < 50	50
Nitrobenzene	98-95-3	N.D. < 50	50
Isophorone	78-59-1	N.D. < 50	50
2-Nitrophenol	88-75-5	N.D. < 50	50
2,4-Dimethylphenol	105-67-9	N.D. < 50	50
Benzoic Acid	65-85-0	N.D. < 100	100
Bis(2-Chloroethoxy) Methane	111-91-1	N.D. < 50	5
2,4-Dichlorophenol	120-83-2	N.D. < 50	5
1,2,4-Trichlorobenzene	120-82-1	N.D. < 50	5
Naphthalene	91-20-3	N.D. < 50	5
4-Chloroaniline	106-47-8	N.D. < 100	10
Hexachlorobutadiene	87-68-3	N.D. < 50	5
4-Chloro-3-Methylphenol	59-50-7	N.D. < 50	5
2-Methylnaphthalene	91-57-6	N.D. < 50	5
Hexachlorocyclopentadiene	77-47-4	N.D. < 50	5
2,4,6-Trichlorophenol	88-06-2	N.D. < 50	50
2,4,5-Trichlorophenol	95-95-4	N.D. < 50	50
2-Chloronaphthalene	91-58-7	N.D. < 50	5
2-Nitroaniline	88-74-4	N.D. < 100	100
Dimethyl Phthalate	131-11-3	N.D. < 50	5
Acenapthylene	208-96-8	N.D. < 50	5
3-Nitroaniline	99-09-2	N.D. < 100	10
Acenaphthene	83-32-9	N.D. < 50	5
2,4-Dinitrophenol	51-28-5	N.D. < 100	10
4-Nitrophenol	100-02-7	N.D. < 100	10
Dibenzofuran	132-64-9	N.D. < 50	5
2,4-Dinitrotoluene	121-14-2	N.D. < 50	5
2,6-Dinitrotoluene	606-20-2	N.D. < 50	5
Diethylphthalate	84-66-2	N.D. < 50	5
4-Chlorophenyl Phenyl Ether	7005-72-3	N.D. < 50	5

GC/MS REF B009A14A.D

COMPOUNDS CONTINUED	CAS NUMBER	CONCENTRATION MG/KG(1)	PQL(2) MG/KG
Fluorene	86-73-7	N.D. < 50	50
4-Nitroaniline	100-01-6	N.D. < 100	100
4,6-Dinitro-2-Methylphenol	534-52-1	N.D. < 100	100
N-Nitrosodiphenylamine	86-30-6	N.D. < 50	50
4-Bromophenyl Phenyl Ether	101-55-3	N.D. < 50	50
Hexachlorobenzene	118-74-1	N.D. < 50	50
Pentachorophenol	87-86-5	N.D. < 100	100
Phenanthrene	85-01-8	N.D. < 50	50
Anthracene	120-12-7	N.D. < 50	50
Di-n-Butylphthalate	84-74-2	N.D. < 50	50
Fluoranthene	206-44-0	N.D. < 50	50
Pyrene	129-00-0	N.D. < 50	50
Butyl Benzyl Phthalate	85-68-7	N.D. < 50	50
3,3'-Dichlorobenzidine	91-94-1	N.D. < 100	100
Benzo(a)Anthracene	56-55-3	N.D. < 50	50
Bis(2-Ethylhexy)Phthalate	117-81-7	N.D. < 50	50
Chrysene	218-01-9	N.D. < 50	50
Di-n-octyl Phthalate	117-84-0	N.D. < 50	50
Benzo(b)Fluoranthene	205-99-2	N.D. < 50	50
Benzo(k)Fluoranthene	207-08-9	N.D. < 50	50
Benzo(a)Pyrene	50-32-8	N.D. < 50	50
Indeno(1,2,3-cd)Pyrene	193-39-5	N.D. < 50	50
Dibenz(a,h)Anthracene	53-70-3	N.D. < 50	50
Benzo(g,h,i)Perylene	191-24-2	N.D. < 50	50

SURROGATE COMPOUND RECOVERIES

SURROGATE	MG/KG ADDED	% RECOVERY
4-FLUOROANILINE	2000	68
DECAFLUOROBIPHENYL	2000	92
1-FLUORONAPHTHALENE	2000	91
2,2'-DIFLUOROBIPHENYL	2000	103
4,4'-DIBROMOBIPHENYL	2000	97
D-14 4-TERPHENYL	2000	82