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ATTACHMENT 2

TASK 2 - LEACHATE ANALYSES

005-061-03

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EST. 1880

United States Testing Company, Inc.

Chemical Division

1415 PARK AVENUE • HOBOKEN, NEW JERSEY 07030 • 201-792-2400

REPORT OF TEST

Engineering Science

57 Executive Park South N.E.

Suite 590

Atlanta, GA 30339

Attention: Bonnie Thorpe

March 23, 1983

75110

TEST REPORT

SIGNED FOR THE COMPANY

BY

Allan Tordini

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AT/mgs

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SUBJECT: One sample submitted and identified by the client as:

01-1021-01/01-1014-01

AUTHORIZATION:

Client's letter of 2/09/83.

PURPOSE:

Analysis of the sample for Organic Priority Pollutants.

PROCEDURE:

Sample was analyzed in accordance with methods presented in the following:

"Federal Register/Vol. 44, No. 233/Monday, December 3, 1979/Proposed Rules," Methods 608 (Pesticides), 625 (Acid and Base/Neutral Extractables) and 624 (Volatile Organics).

L. Compounds Searched

PURGEABLE ORGANICS (30 COMPOUNDS)

Acrolein	1,2-Dichloropropane
Acrylonitrile	cis 1,3-Dichloropropylene
Benzene	Methylene chloride
Toluene	Methyl chloride
Ethylbenzene	Methyl bromide
Carbon tetrachloride	Bromoform
Chlorobenzene	Dichlorobromomethane
1,2-Dichloroethane	1,1,1-Trichloroethane
1,1-Dichloroethane	Chlorodibromomethane
1,1-Dichloroethylene	Tetrachloroethylene
1,1,2-Trichloroethane	Trichloroethylene
1,1,2,2-Tetrachloroethane	Vinyl chloride
Chloroethane	1,2-trans-Dichloroethylene
2-Chloroethyl vinyl ether	trans-1,3-Dichloropropylene
Chloroform	Trichlorofluoromethane

BASE/NEUTRAL EXTRACTABLE ORGANICS (47 COMPOUNDS)

1,2-Dichlorobenzene	Fluorene
1,3-Dichlorobenzene	Fluoranthene
1,4-Dichlorobenzene	Chrysene
Hexachloroethane	Pyrene
Hexachlorobenzene	Phenanthrene
Hexachlorobutadiene	Anthracene
1,2,4-Trichlorobenzene	Benzo (a) anthracene
bis (2-Chloroethoxy) methane	Benzo (b) fluoranthene
Naphthalene	Benzo (k) fluoranthene
2-Chloronaphthalene	Benzo (a) pyrene
Isophorone	Indeno (1,2,3-c, d) pyrene
Nitrobenzene	Dibenzo (a,h) anthracene
2,4-Dinitrotoluene	Benzo (g,h,i) perylene
2,6-Dinitrotoluene	4-Chlorophenyl phenyl ether
4-Bromophenyl phenyl ether	3,3' - Dichlorobenzidine
bis (2-Ethylhexyl) phthalate	Benzidine
Di-n-octyl phthalate	bis (2-Chloroethyl) ether
Dimethyl phthalate	1,2-Diphenylhydrazine
Diethyl phthalate	Hexachlorocyclopentadiene
Di-n-butyl phthalate	N-Nitrosodiphenylamine
Acenaphthylene	N-Nitrosodimethylamine
Acenaphthene	N-Nitrosodi-n-propylamine
Butyl benzyl phthalate	bis (2-Chloroisopropyl) ether
2,3,7,8-Tetrachlorodibenzo-p-dioxin	

ACID EXTRACTABLE ORGANICS (11 COMPOUNDS)

Phenol	p-Chloro-m-cresol
2-Nitrophenol	2-Chlorophenol
4-Nitrophenol	2,4-Dichlorophenol
2,4-Dinitrophenol	2,4,6-Trichlorophenol
4,6-Dinitro-o-cresol	2,4-Dimethylphenol
Pentachlorophenol	

PESTICIDES/PCB's (25 COMPOUNDS)

Alpha-Endosulfan	Heptachlor
Beta-Endosulfan	Heptachlor epoxide
Endosulfan sulfate	Chlordane
Alpha-BHC	Toxaphene
Beta-BHC	Aroclor 1016
Gamma-BHC	Aroclor 1221
Delta-BHC	Aroclor 1232
Aldrin	Aroclor 1242
Dieldrin	Aroclor 1248
4,4'-DDE	Aroclor 1254
4,4'-DDD	Aroclor 1260
4,4'-DDT	Endrin
	Endrin Aldehyde

RESULTS:

Purgeable Organics

Chloroethane	26.	µg/l
Methylene Chloride	21.	µg/l
1,1-dichloroethane	33.	µg/l
Chlorobenzene	20.	µg/l
1,2-dichloroethane	540.	µg/l
Benzene	1,200.	µg/l
Toluene	5,360.	µg/l
Ethylbenzene	360.	µg/l
All others	< 10.	µg/l

Acid Extractables

All	< 10.	µg/l
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Base Neutral Extractables

Naphthalene	10.	µg/l
All others	< 10.	µg/l

Pesticides

Toxaphene	< 10.	µg/l
Chlordane	< 10.	µg/l
All others	< 1.	µg/l

"< " indicates not detected at or above the level shown.

ANALYTICAL RESULTS

Project: JRB-CH2M Hill Testing

Lab Performing Analysis: Engineering-Science, Inc. - Atlanta, GA

Sample ID: Eastside Leachate Plume

Date of Sample: February 1, 1983

Date of Report: February 25, 1983

<u>Analyte (units)</u>	<u>Analyte</u>
	<u>Concentration</u>
Arsenic (ug/l)	<1
Beryllium (ug/l)	<1
Cadmium (ug/l)	<1
Chromium (ug/l)	<1
Copper (ug/l)	3
Lead (ug/l)	<20
Mercury (ug/l)	<0.1
Nickel (ug/l)	8
Selenium (ug/l)	<2
Silver (ug/l)	<2
Thallium (mg/l)	<0.1
Zinc (ug/l)	<0.8
Sodium (mg/l)	0.9
Calcium (mg/l)	2.2
Cyanide, total (mg/l)	<0.02
Phenols, total (mg/l)	<0.1
pH (S.U.)	6.0

NOTE: All analyses were performed in accordance with "Methods for Chemical Analysis of Water and Wastes", U.S. EPA, EPA-600/4-79-020.