July 14, 1988
File #495-1

eder associates
consulting engineers, p.c.

Mr. Kenneth Bardo
United States Environmental Protection Agency
Hazardous Waste Enforcement Branch
Region V 5HE-12
230 South Dearborn Street
Chicago, Illinois 60604

RECEIVED
JUL 15 1988
U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

Re: Hukill Chemical Corporation
EPA ID No. OHD 001926740
Site Investigation Sampling Results

Dear Mr. Bardo:

Pursuant to your request during our recent telephone conversation, enclosed is a copy of the April 1988 sampling results of site work conducted at Hukill Chemical. This site work was conducted in accordance with our January 1988 "Work Plan for Additional Site Work" as modified by our April 5, 1988 letter to your office.

The monitoring well sample identifications on the enclosed laboratory data sheets correspond to those shown in Drawing No. 1 of our April 1987 "Draft Site Investigation Report." A new monitoring well, Well H, was installed in April 1988 at the site and this well is located east of Well G, approximately 20 feet east of the tributary to Tinker's Creek.

The surface water and sediment sampling results presented on the enclosed data sheets are identified as follows:

SWA (water or soil): Sample collected downstream of Hukill prior to mixing with other tributaries.

SWB (water or soil): Sample collected downstream of the outfall 001 mixing zone.

SWC (water or soil): Sample collected upstream of Hukill.

We look forward to meeting with you and Francine Norling on July 28, 1988.

If you have any questions, please feel free to call.

Very truly yours,

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

Nicholas A. Andrianas, P.E.
Senior Project Manager

NAA/cj
Enc.-4053C

cc: P. Anderson
R. Hukill

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053-40

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

SOW No.: 7/87

EPA Sample No.	Lab Sample ID.
116 MWF	88050116
117 MWE	88050117
118 MWEFB	88050118
119 MWSW1	88050119
119D MWSW1D	88050675
119S MWSW1S	88050676
120 MWSW2	88050120
121 MWA	88050121
122 MWB	88050122
123 MWC	88050123
124 MWSW3	88050124
125 MWSW4	88050125
126 MWSW3D	88050126
127 MWG	88050127
128 MWH	88050128
129 OF001	88050129
130 OF001D	88050130
131 SWA H_2O	88050131
132 SWB H_2O	88050132
133 SWC H_2O	88050133

Were ICP interelement corrections applied? Yes/No NO

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: Katie A. Mutchely
053-90

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER2 SAS No.: SDG No.: EDER2

SOW No.: 7/87

EPA Sample No.	Lab Sample ID.
677 SWA soil	88050677
678 SWB soil	88050678
XXX679 SWC soil	88050679
XXX679D SWC dup	88050680
XXX679S SWC spk	88050681

Were ICP interelement corrections applied? Yes/No NO

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: Kaw 9 Mckay

Date: [illegible]

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

116

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050116

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	80.0	U		P
7439-92-1	Lead	3.7	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	12.0	U		P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

o ents:
EDER ID = MWF

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

117

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050117

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	1820			P
7439-92-1	Lead	3.7	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	12.8	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
EDER ID = MWE

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

118

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050118

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	B		P
7439-89-6	Iron	80.0	U		P
7439-92-1	Lead	3.7	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	12.0	U		P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

o nts:
EDER ID = MWEFB

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

119

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050119

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	29.3			P
7439-89-6	Iron	80.0	U		P
7439-92-1	Lead	3.7	U	w	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.40	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	57.6			P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

ents:
EDER ID = MWSW1

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

120

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050120

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	31.2			P
7439-89-6	Iron	80.0	U		P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	22.5			P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

or nts:
LDER ID = MWSW2

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

121

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050121

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.8	B		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	45600			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	32.2			P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: YELLOW Clarity After: CLEAR Artifacts:

o ents:
EDER ID = MWA

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

122

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050122

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	12.0			F
7440-39-3	Barium	359			P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	69300			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	17.8	B		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
EDER ID = MWB

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

123

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050123

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U	W	F
7440-39-3	Barium	90.2	B		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	74700			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	32.0			P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: YELLOW Clarity After: CLEAR Artifacts:

o nts:
EDER ID = MWC

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

124

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050124

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	313			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	12.0	U		P
	Cyanide				

olor Before: YELLOW Clarity Before: CLEAR Texture:

olor After: YELLOW Clarity After: CLEAR Artifacts:

o ents:
EDER ID = MWSW3

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

125

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050125

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	30.0			F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	45800			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	12.0	U		P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: YELLOW Clarity After: CLEAR Artifacts:

o ents:
EDER ID = MWSW4

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

126

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050126

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	196			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	13.3	B		P
	Cyanide				

olor Before: YELLOW Clarity Before: CLEAR Texture:

olor After: YELLOW Clarity After: CLEAR Artifacts:

omments:
ER ID = MWSW3D

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

127

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050127

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	8.6			P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	131000			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	33.5			P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
EDER ID = MWG

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

128

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050128

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	71.4	B		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.2			P
7440-70-2	Calcium				
7440-47-3	Chromium	25.1			P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	131000			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	28.2			P
	Cyanide				

lor Before: YELLOW Clarity Before: CLEAR Texture:

lor After: YELLOW Clarity After: CLEAR Artifacts:

m nts:
ER ID = MWH

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

129

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050129

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	77.7	B		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	6200			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	19.6	B		P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

o ents:
DER ID = OF001

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

130

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050130

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	73.1	B		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	6250			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	12.0	U		P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

or nts:
DER ID = OF001D

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

131

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050131

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.6	B		P
7439-89-6	Iron	872			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	43.1			P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

o ents:
DER ID = SWAH20

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

132

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050132

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	414			P
7439-92-1	Lead	3.7	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	36.7			P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

or nts:
EDER ID = SWBH20

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

133

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER1 SAS No.: SDG No.: EDER1

Matrix (soil/water): WATER Lab Sample ID: 88050133

Level (low/med): LOW Date Received: 04/19/88

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	9.6	U		F
7440-39-3	Barium	60.0	U		P
7440-41-7	Beryllium				
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	24.0	U		P
7439-89-6	Iron	267			P
7439-92-1	Lead	3.7	U	W	F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	34.6			P
	Cyanide				

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

o ents:
LDER ID = SWCH20

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

677

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER2 SAS No.: SDG No.: EDER2

Matrix (soil/water): SOIL Lab Sample ID: 88050677

Level (low/med): LOW Date Received: 04/19/88

% Solids: 60.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	8.2			F
7440-39-3	Barium	113			P
7440-41-7	Beryllium				
7440-43-9	Cadmium	8.0			P
7440-70-2	Calcium				
7440-47-3	Chromium	46.4			P
7440-48-4	Cobalt				
7440-50-8	Copper	1370			P
7439-89-6	Iron	17500		E	P
7439-92-1	Lead	1590			F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.23			CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	4980		E	P
	Cyanide				

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
LDER ID = SWASOIL. CONTAINS STONES.

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

678

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER2 SAS No.: SDG No.: EDER2

Matrix (soil/water): SOIL Lab Sample ID: 88050678

Level (low/med): LOW Date Received: 04/19/88

% Solids: 63.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	7.9			F
7440-39-3	Barium	54.2			P
7440-41-7	Beryllium				
7440-43-9	Cadmium	2.4			P
7440-70-2	Calcium				
7440-47-3	Chromium	18.4			P
7440-48-4	Cobalt				
7440-50-8	Copper	54.9			P
7439-89-6	Iron	25700		E	P
7439-92-1	Lead	20.4			F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	184		E	P
	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
EDER ID = SWBSOIL. CONTAINS PLANT MATTER.

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

XXX679

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER2 SAS No.: SDG No.: EDER2

Matrix (soil/water): SOIL Lab Sample ID: 88050679

Level (low/med): LOW Date Received: 04/19/88

% Solids: 61.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony				
7440-38-2	Arsenic	7.5			F
7440-39-3	Barium	104			P
7440-41-7	Beryllium				
7440-43-9	Cadmium	6.6			P
7440-70-2	Calcium				
7440-47-3	Chromium	52.1			P
7440-48-4	Cobalt				
7440-50-8	Copper	966			P
7439-89-6	Iron	24500		E	P
7439-92-1	Lead	378			F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.22			CV
7440-02-0	Nickel				
7440-09-7	Potassium				
7782-49-2	Selenium				
7440-22-4	Silver				
7440-23-5	Sodium				
7440-28-0	Thallium				
7440-62-2	Vanadium				
7440-66-6	Zinc	1770		E	P
	Cyanide				

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:
EDER ID = SWCSOIL.

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6
DUPLICATES

EPA SAMPLE NO.

XXX679D

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER2 SAS No.: SDG No.: EDER2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 61.3 % Solids for Duplicate: 62.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic	3.3	7.5041		6.4516		15.1		F
Barium	65.3	104.1540		100.3010		3.8		P
Beryllium								
Cadmium	1.6	6.6075		5.7732		13.5		P
Calcium								
Chromium		52.1471		53.3671		2.3		P
Cobalt								
Copper		966.4861		867.4194		10.8		P
Iron		24528.2870		22558.2900		8.4		P
Lead		378.4666		316.1290		17.9		F
Magnesium								
Manganese								
Mercury	0.1	0.2161		0.2301		6.3		CV
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc		1773.6737		1753.2613		1.2		P
Cyanide								

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

XXX679S

Lab Name: WILSON LABORATORIES Contract: 68-W8-0027

Lab Code: WILSON Case No.: EDER2 SAS No.: SDG No.: EDER2

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic	75-125	18.2708		7.5041		13.1	82.2		NR
Barium	75-125	722.7276		104.1540		652.5	94.8		F
Beryllium									P
Cadmium	75-125	20.9729		6.6075		16.3	88.1		NR
Calcium									P
Chromium	75-125	115.0264		52.1471		65.3	96.3		NR
Cobalt									P
Copper		912.0261		966.4861		81.6	-66.7		NR
Iron									P
Lead		354.3230		378.4666		6.5	-371.4		NR
Magnesium									F
Manganese									NR
Mercury	75-125	0.7700		0.2161		0.6	92.3		NR
Nickel									CV
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc		2473.6542		1773.6737		163.1	429.2		P
Cyanide									NR

Comments:

TODAY'S DATE
MM/DD/YY: 05/24/88

********** ENTIRE PACKAGE MUST BE COMPLETED

NUS SAMPLE #	EPA/CLIENT I.D.	DATE SAMPLED MM/DD/YY	DATE RECEIVED MM/DD/YY	pH	% H2O	DAYS LEFT	GC/MS VOA REQUIRED MM/DD/YY	COMPLETED MM/DD/YY	NUS SAMPLE #
28041062	MWA	04/14/88	04/16/88	NR	NR	0	04/28/88	04/26/88	28041062
28041063	MWB	04/14/88	04/16/88	NR	NR	0	04/28/88	04/26/88	28041063
28041064	MWC	04/14/88	04/16/88	NR	NR	0	04/28/88	04/28/88	28041064
28041065	MWC(MS)	04/14/88	04/16/88	NR	NR	0	04/28/88	04/28/88	28041065
28041066	MWC(MSD)	04/14/88	04/16/88	NR	NR	0	04/28/88	04/28/88	28041066
28041059	MWE	04/13/88	04/16/88	NR	NR	0	04/27/88	04/22/88	28041059
28041058	MWF	04/13/88	04/16/88	NR	NR	0	04/27/88	04/22/88	28041058
28041069	MWG	04/15/88	04/16/88	NR	NR	0	04/29/88	04/29/88	28041069
28041070	MWG(DUP)	04/15/88	04/16/88	NR	NR	0	04/29/88	04/29/88	28041070
28041071	MWGFB	04/15/88	04/16/88	NR	NR	0	04/29/88	04/29/88	28041071
28041072	MWH	04/15/88	04/16/88	NR	NR	0	04/29/88	04/29/88	28041072
28041060	MWSW1	04/13/88	04/16/88	NR	NR	0	04/27/88	04/25/88	28041060
28041061	MWSW2	04/13/88	04/16/88	NR	NR	0	04/27/88	04/25/88	28041061
28041067	MWSW3	04/14/88	04/16/88	NR	NR	0	04/28/88	04/28/88	28041067
28041068	MWSW4	04/14/88	04/16/88	NR	NR	0	04/28/88	04/28/88	28041068
28041073	OF001	04/14/88	04/16/88	NR	NR	0	04/28/88	04/29/88	28041073
28041074	OF001(DUP)	04/14/88	04/16/88	NR	NR	0	04/28/88	04/28/88	28041074
28041075	OF001FB	04/14/88	04/16/88	NR	NR	0	04/28/88	04/27/88	28041075
28041076	SWA-S	04/14/88	04/16/88	10.2	42.09	0	04/28/88	04/27/88	28041076
28041077	SWB-S	04/14/88	04/16/88	6.9	41.91	0	04/28/88	04/27/88	28041077
28041078	SWC-S	04/14/88	04/16/88	7.3	34.36	0	04/28/88	04/27/88	28041078
28041079	SWC-S(MS)	04/14/88	04/16/88	7.3	34.45	0	04/28/88	04/27/88	28041079
28041080	SWC-S(MSD)	04/14/88	04/16/88	7.3	33.54	0	04/28/88	04/27/88	28041080
28041081	SWA-W	04/14/88	04/16/88	NR	NR	0	04/28/88	04/27/88	28041081
28041082	SWB-W	04/14/88	04/16/88	NR	NR	0	04/28/88	04/28/88	28041082
28041083	SWC-W	04/14/88	04/16/88	NR	NR	0	04/28/88	04/27/88	28041083

Data reporting Qualifiers used in column "Q" of the attached report are defined as follows:

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330\ U)}{D} \times df \text{ where } D = \frac{100 - \%\ moisutre}{100}$$

and df = dilution factor

$$\text{at 24\% moisture, } D = \frac{100-24}{100} = 0.76$$

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures.

For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by 2, to account for the fact that only half of the extract is recovered.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 µg/L, but a concentration 3 µg/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 µg/L and a sample quantitation limit of 430 µg/kg, report the concentration as 300J on Form I.

C - The flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/µl in the final extract shall be confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration ranges of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract cause any components identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

HOLDINGBLANK

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: HOLDINGBLANK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP05178801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 05/17/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	5	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	4	J
75-35-3	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
78-93-3	2-Butanone	6	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	6	J
591-78-6	2-Hexanone	27	
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

HOLDINGBLANK

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: HOLDINGBLANK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP05178801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 05/17/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.55	42	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-A

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041062

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04268801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	11	B
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	7	B
75-35-3	1,1-Dichloroethane	29	
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	6	BJ
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	6	BJ
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-A

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041062

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04268801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	13.05	22	BJ
2. 354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	10.92	71	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-B

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041063

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04268802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	25	
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	19	
75-00-3	Chloroethane	42	
75-09-2	Methylene Chloride	670	BE
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	8	
75-35-4	1,1-Dichloroethene	25	B
75-35-3	1,1-Dichloroethane	430	E
540-59-0	1,2-Dichloroethene (total)	770	E
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	9	
78-93-3	2-Butanone	3200	BE
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	3200	BE
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	340	E
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	70	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	150	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	850	E
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	33	
100-42-5	Styrene	5	U
	Total Xylenes	62	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-B

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041063

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04268802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-BDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041063

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04268807

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/26/88

Column: (pack/cap) PACK Dilution Factor: 2000

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	20000	U
74-83-9	Bromomethane	20000	U
75-01-4	Vinyl Chloride	20000	U
75-00-3	Chloroethane	20000	U
75-09-2	Methylene Chloride	330000	BD
67-64-1	Acetone	21000	B
75-15-0	Carbon Disulfide	10000	U
75-35-4	1,1-Dichloroethene	13000	BD
75-35-3	1,1-Dichloroethane	10000	U
540-59-0	1,2-Dichloroethene (total)	10000	U
67-66-3	Chloroform	10000	U
107-06-2	1,2-Dichloroethane	10000	U
78-93-3	2-Butanone	20000	BD
71-55-6	1,1,1-Trichloroethane	10000	U
56-23-5	Carbon Tetrachloride	10000	U
108-05-4	Vinyl Acetate	20000	BD
75-27-4	Bromodichloromethane	10000	U
78-87-5	1,2-Dichloropropane	10000	U
10061-01-5	cis-1,3-Dichloropropene	10000	U
79-01-6	Trichloroethene	10000	U
124-48-1	Dibromochloromethane	10000	U
79-00-5	1,1,2-Trichloroethane	10000	U
71-43-2	Benzene	10000	U
10061-02-6	Trans-1,3-Dichloropropene	10000	U
75-25-2	Bromoform	10000	U
108-10-1	4-Methyl-2-Pentanone	20000	U
591-78-6	2-Hexanone	20000	U
127-18-4	Tetrachloroethene	10000	U
79-34-5	1,1,2,2-Tetrachloroethane	20000	U
108-88-3	Toluene	10000	U
108-90-7	Chlorobenzene	10000	U
100-41-4	Ethylbenzene	10000	U
100-42-5	Styrene	10000	U
	Total Xylenes	10000	U

S. Schmidt 5/25/88

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-BDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041063

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04268807

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/26/88

Column (pack/cap) PACK Dilution Factor: 2000

Number TICs found: ~~2~~ Ø

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~545783-80-8~~	~~C110 1,4-DIFLUOROBENZENE~~ *	~~21.02~~	~~100000~~	~~BJ~~
2.	~~METHANE, DICHLORO~~	~~7.10~~	~~280000~~	~~J~~

S. L. Schmidt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MWC

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041064

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04288802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 20000

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	200000	U
74-83-9	Bromomethane	200000	U
75-01-4	Vinyl Chloride	200000	U
75-00-3	Chloroethane	200000	U
75-09-2	Methylene Chloride	7700000	E
67-64-1	Acetone	200000	U
75-15-0	Carbon Disulfide	100000	U
75-35-4	1,1-Dichloroethene	80000	J
75-35-3	1,1-Dichloroethane	100000	U
540-59-0	1,2-Dichloroethene (total)	100000	U
67-66-3	Chloroform	100000	U
107-06-2	1,2-Dichloroethane	100000	U
78-93-3	2-Butanone	420000	B
71-55-6	1,1,1-Trichloroethane	100000	U
56-23-5	Carbon Tetrachloride	100000	U
108-05-4	Vinyl Acetate	200000	U
75-27-4	Bromodichloromethane	100000	U
78-87-5	1,2-Dichloropropane	100000	U
10061-01-5	cis-1,3-Dichloropropene	100000	U
79-01-6	Trichloroethene	100000	U
124-48-1	Dibromochloromethane	100000	U
79-00-5	1,1,2-Trichloroethane	100000	U
71-43-2	Benzene	100000	U
10061-02-6	Trans-1,3-Dichloropropene	100000	U
75-25-2	Bromoform	100000	U
108-10-1	4-Methyl-2-Pentanone	200000	U
591-78-6	2-Hexanone	200000	U
127-18-4	Tetrachloroethene	100000	U
79-34-5	1,1,2,2-Tetrachloroethane	200000	U
108-88-3	Toluene	100000	U
108-90-7	Chlorobenzene	100000	U
100-41-4	Ethylbenzene	100000	U
100-42-5	Styrene	100000	U
	Total Xylenes	100000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MWC

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041064

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04288802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 20000

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-CDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041064

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04288804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 100000

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	1000000	U
74-83-9	Bromomethane	1000000	U
75-01-4	Vinyl Chloride	1000000	U
75-00-3	Chloroethane	1000000	U
75-09-2	Methylene Chloride	7400000	D
67-64-1	Acetone	1000000	U
75-15-0	Carbon Disulfide	500000	U
75-35-4	1,1-Dichloroethene	410000	BJ
75-35-3	1,1-Dichloroethane	500000	U
540-59-0	1,2-Dichloroethene (total)	500000	U
67-66-3	Chloroform	500000	U
107-06-2	1,2-Dichloroethane	500000	U
78-93-3	2-Butanone	1000000	U
71-55-6	1,1,1-Trichloroethane	500000	U
56-23-5	Carbon Tetrachloride	500000	U
108-05-4	Vinyl Acetate	1000000	U
75-27-4	Bromodichloromethane	500000	U
78-87-5	1,2-Dichloropropane	500000	U
10061-01-5	cis-1,3-Dichloropropene	500000	U
79-01-6	Trichloroethene	500000	U
124-48-1	Dibromochloromethane	500000	U
79-00-5	1,1,2-Trichloroethane	500000	U
71-43-2	Benzene	500000	U
10061-02-6	Trans-1,3-Dichloropropene	500000	U
75-25-2	Bromoform	500000	U
108-10-1	4-Methyl-2-Pentanone	1000000	U
591-78-6	2-Hexanone	1000000	U
127-18-4	Tetrachloroethene	500000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000000	U
108-88-3	Toluene	500000	U
108-90-7	Chlorobenzene	500000	U
100-41-4	Ethylbenzene	500000	U
100-42-5	Styrene	500000	U
1330-20-7	Total Xylenes	500000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-CDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041064

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04288804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 100000

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TP 2 - UNKNOWN	13.14	230000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-E

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041059

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04228804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	B
75-35-3	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
78-93-3	2-Butanone	4	BJ
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	4	BJ
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-E

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041059

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04228804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/23/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: ~~1~~ Ø

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~545783-80-8~~	~~C110 1,4-DIFLUOROBENZENE *~~	~~20.94~~	~~50~~	~~BIJ~~

SLSchmidt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MWF

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041058

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04228801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	5	U
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	B
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	260	E
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	6	BJ
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	6	BJ
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MWF

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041058

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04228801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/23/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-FDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041058

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04228802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/23/88

Column: (pack/cap) PACK Dilution Factor: 2.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	19	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	11	B
75-35-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	250	D
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	9	BJ
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	9	BJ
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-FDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041058

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04228802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/23/88

Column (pack/cap) PACK Dilution Factor: 2.00

Number TICs found: ~~2~~ ∅

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~645783-80-8~~	~~CI10 1,4-DIFLUOROBENZENE~~ *	~~20.94~~	~~100~~	~~BJ~~
2. ~~156-59-2~~	~~ETHENE, 1,2-DICHLORO-, (Z)~~	~~12.14~~	~~140~~	~~J~~

SL Schmidt
5/22/88

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-G

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041069

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/29/88

Column: (pack/cap) PACK Dilution Factor: 1000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10000	U
74-83-9	Bromomethane	10000	U
75-01-4	Vinyl Chloride	10000	U
75-00-3	Chloroethane	10000	U
75-09-2	Methylene Chloride	280000	E
67-64-1	Acetone	10000	U
75-15-0	Carbon Disulfide	5000	U
75-35-4	1,1-Dichloroethene	5000	U
75-35-3	1,1-Dichloroethane	5000	U
540-59-0	1,2-Dichloroethene (total)	5000	U
67-66-3	Chloroform	5000	U
107-06-2	1,2-Dichloroethane	5000	U
78-93-3	2-Butanone	7200	J
71-55-6	1,1,1-Trichloroethane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
108-05-4	Vinyl Acetate	10000	U
75-27-4	Bromodichloromethane	5000	U
78-87-5	1,2-Dichloropropane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
79-01-6	Trichloroethene	5000	U
124-48-1	Dibromochloromethane	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
71-43-2	Benzene	5000	U
10061-02-6	Trans-1,3-Dichloropropene	5000	U
75-25-2	Bromoform	5000	U
108-10-1	4-Methyl-2-Pentanone	10000	U
591-78-6	2-Hexanone	10000	U
127-18-4	Tetrachloroethene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	10000	U
108-88-3	Toluene	5000	U
108-90-7	Chlorobenzene	5000	U
100-41-4	Ethylbenzene	5000	U
100-42-5	Styrene	5000	U
	Total Xylenes	5000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-G

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041069

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/29/88

Column (pack/cap) PACK Dilution Factor: 1000

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-GDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041069

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298805

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/29/88

Column: (pack/cap) PACK Dilution Factor: 2000

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	20000	U
74-83-9	Bromomethane	20000	U
75-01-4	Vinyl Chloride	20000	U
75-00-3	Chloroethane	20000	U
75-09-2	Methylene Chloride	280000	D
67-64-1	Acetone	20000	U
75-15-0	Carbon Disulfide	10000	U
75-35-4	1,1-Dichloroethene	10000	U
75-35-3	1,1-Dichloroethane	10000	U
540-59-0	1,2-Dichloroethene (total)	10000	U
67-66-3	Chloroform	10000	U
107-06-2	1,2-Dichloroethane	10000	U
78-93-3	2-Butanone	20000	U
71-55-6	1,1,1-Trichloroethane	10000	U
56-23-5	Carbon Tetrachloride	10000	U
108-05-4	Vinyl Acetate	20000	U
75-27-4	Bromodichloromethane	10000	U
78-87-5	1,2-Dichloropropane	10000	U
10061-01-5	cis-1,3-Dichloropropene	10000	U
79-01-6	Trichloroethene	10000	U
124-48-1	Dibromochloromethane	10000	U
79-00-5	1,1,2-Trichloroethane	10000	U
71-43-2	Benzene	10000	U
10061-02-6	Trans-1,3-Dichloropropene	10000	U
75-25-2	Bromoform	10000	U
108-10-1	4-Methyl-2-Pentanone	20000	U
591-78-6	2-Hexanone	20000	U
127-18-4	Tetrachloroethene	10000	U
79-34-5	1,1,2,2-Tetrachloroethane	20000	U
108-88-3	Toluene	10000	U
108-90-7	Chlorobenzene	10000	U
100-41-4	Ethylbenzene	10000	U
100-42-5	Styrene	10000	U
	Total Xylenes	10000	U

SSelection method

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-GDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041069

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298805

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/29/88

Column (pack/cap) PACK Dilution Factor: 2000

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	13.14	9100	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-G_DUP

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041070

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298806

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/29/88

Column: (pack/cap) PACK Dilution Factor: 2000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20000	U
74-83-9	Bromomethane	20000	U
75-01-4	Vinyl Chloride	20000	U
75-00-3	Chloroethane	20000	U
75-09-2	Methylene Chloride	250000	
67-64-1	Acetone	20000	U
75-15-0	Carbon Disulfide	10000	U
75-35-4	1,1-Dichloroethene	10000	U
75-35-3	1,1-Dichloroethane	10000	U
540-59-0	1,2-Dichloroethene (total)	10000	U
67-66-3	Chloroform	10000	U
107-06-2	1,2-Dichloroethane	10000	U
78-93-3	2-Butanone	20000	U
71-55-6	1,1,1-Trichloroethane	10000	U
56-23-5	Carbon Tetrachloride	10000	U
108-05-4	Vinyl Acetate	20000	U
75-27-4	Bromodichloromethane	10000	U
78-87-5	1,2-Dichloropropane	10000	U
10061-01-5	cis-1,3-Dichloropropene	10000	U
79-01-6	Trichloroethene	10000	U
124-48-1	Dibromochloromethane	10000	U
79-00-5	1,1,2-Trichloroethane	10000	U
71-43-2	Benzene	10000	U
10061-02-6	Trans-1,3-Dichloropropene	10000	U
75-25-2	Bromoform	10000	U
108-10-1	4-Methyl-2-Pentanone	20000	U
591-78-6	2-Hexanone	20000	U
127-18-4	Tetrachloroethene	10000	U
79-34-5	1,1,2,2-Tetrachloroethane	20000	U
108-88-3	Toluene	10000	U
108-90-7	Chlorobenzene	10000	U
100-41-4	Ethylbenzene	10000	U
100-42-5	Styrene	10000	U
	Total Xylenes	10000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-G_DUP

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041070

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298806

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/29/88

Column (pack/cap) PACK Dilution Factor: 2000

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TP 2 - UNKNOWN	27.96	5100	J
2.	TP 2 - UNKNOWN	14.85	3100	J
3. 354-23-4	ETHANE, 1,1,2-TRICHLORO-1,2,	13.14	1900	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-H

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041072

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298803

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/29/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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	5	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	4	BJ
75-35-3	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
78-93-3	2-Butanone	7	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-H

ab Name: NUS HOUSTON Contract: EDER ASSOCS

ab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

atrix: (soil/water) WATER Lab Sample ID: 28041072

ample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298803

evel: (low/med) LOW Date Received: 04/16/88

Moisture: not dec. ____ Date Analyzed: 04/29/88

olumn (pack/cap) PACK Dilution Factor: 1.00

umber TICs found: ~~1~~ ∅

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~545783-80-8~~	~~C110 1,4-DIFLUOROBENZENE *~~	~~21.02~~	~~50~~	~~BJ~~

S L Schmidt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MWGFBRE

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041071

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP05128801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 05/13/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	5	U
67-64-1	Acetone	11	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	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
78-93-3	2-Butanone	11	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	23	
591-78-6	2-Hexanone	93	
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MWGFBRE

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041071

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP05128801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 05/13/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-SW-1

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041060

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04258806

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	11	
67-64-1	Acetone	30	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	6	B
75-35-3	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
78-93-3	2-Butanone	7	BJ
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	7	BJ
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-SW-1

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041060

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04258806

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: ~~1~~ ∅

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~545783-80-8~~	~~CI10 1,4-DIFLUOROBENZENE *~~	~~20.99~~	~~50~~	~~BJ~~

S L Schmidt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-SW-2

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041061

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04258807

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	10	
67-64-1	Acetone	21	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	6	B
75-35-3	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
78-93-3	2-Butanone	6	BJ
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	6	BJ
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-SW-2

ab Name: NUS HOUSTON Contract: EDER ASSOCS

.ab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

latrix: (soil/water) WATER Lab Sample ID: 28041061

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04258807

.evel: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/25/88

Column (pack/cap) PACK Dilution Factor: 1.00

lumber TICs found: ~~1~~ Ø

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~545783-80-8~~	~~CI10 1,4-DIFLUOROBENZENE *~~	~~20.99~~	~~50~~	~~BJ~~

SLSchmidt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-SW-3

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041067

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04288801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	5	U
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	4	BJ
75-35-3	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
78-93-3	2-Butanone	7	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	8	J
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-SW-3

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041067

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04288801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	13.14	4.6	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW_SW-4

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041068

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04288803

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	14	
75-00-3	Chloroethane	5	J
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	13	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	B
75-35-3	1,1-Dichloroethane	12	
540-59-0	1,2-Dichloroethene (total)	70	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	30	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW_SW-4

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041068

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04288803

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. _____ Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TP 2 - UNKNOWN	23.62	0.69	J
2. 52021-30-4	7,10-METHANOFLUORANTHEN-11-O	28.27	0.66	J
3.	DIISOPROPYL ETHER (DOT)	19.49	120	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OF-001

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041073

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/27/88

Column: (pack/cap) PACK Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	6500	BE
67-64-1	Acetone	14000	E
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	72	B
75-35-3	1,1-Dichloroethane	110	
540-59-0	1,2-Dichloroethene (total)	490	
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	23000	BE
71-55-6	1,1,1-Trichloroethane	230	
56-23-5	Carbon Tetrachloride	50	U
108-05-4	Vinyl Acetate	23000	BE
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	170	
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	8400	E
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	2300	E
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	160	
100-42-5	Styrene	50	U
	Total Xylenes	430	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OF-001

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041073

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/27/88

Column (pack/cap) PACK Dilution Factor: 10.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OF-001DL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041073

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 1000

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10000	U
74-83-9	Bromomethane	10000	U
75-01-4	Vinyl Chloride	10000	U
75-00-3	Chloroethane	10000	U
75-09-2	Methylene Chloride	5000	U
67-64-1	Acetone	21000	D
75-15-0	Carbon Disulfide	5000	U
75-35-4	1,1-Dichloroethene	4700	BDJ
75-35-3	1,1-Dichloroethane	5000	U
540-59-0	1,2-Dichloroethene (total)	5000	U
67-66-3	Chloroform	5000	U
107-06-2	1,2-Dichloroethane	5000	U
78-93-3	2-Butanone	24000	D
71-55-6	1,1,1-Trichloroethane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
108-05-4	Vinyl Acetate	10000	U
75-27-4	Bromodichloromethane	5000	U
78-87-5	1,2-Dichloropropane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
79-01-6	Trichloroethene	5000	U
124-48-1	Dibromochloromethane	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
71-43-2	Benzene	5000	U
10061-02-6	Trans-1,3-Dichloropropene	5000	U
75-25-2	Bromoform	5000	U
108-10-1	4-Methyl-2-Pentanone	120000	D
591-78-6	2-Hexanone	10000	U
127-18-4	Tetrachloroethene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	10000	U
108-88-3	Toluene	5000	U
108-90-7	Chlorobenzene	5000	U
100-41-4	Ethylbenzene	5000	U
100-42-5	Styrene	5000	U
	Total Xylenes	5000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OF-001DL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041073

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 6VP04298801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 1000

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 52021-30-4	7,10-METHANOFLUORANTHEN-11-O	28.04	520	BJ
2. 66972-02-9	2-HEPTANONE, 6-METHYL-5-NITR	29.57	240	J
3. 76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	13.14	4500	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OF001-DUP

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041074

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04288801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. _____ Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 1000

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10000	U
74-83-9	Bromomethane	10000	U
75-01-4	Vinyl Chloride	10000	U
75-00-3	Chloroethane	10000	U
75-09-2	Methylene Chloride	5000	U
67-64-1	Acetone	10000	U
75-15-0	Carbon Disulfide	5000	U
75-35-4	1,1-Dichloroethene	4500	J
75-35-3	1,1-Dichloroethane	5000	U
540-59-0	1,2-Dichloroethene (total)	5000	U
67-66-3	Chloroform	5000	U
107-06-2	1,2-Dichloroethane	5000	U
78-93-3	2-Butanone	23000	B
71-55-6	1,1,1-Trichloroethane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
108-05-4	Vinyl Acetate	10000	U
75-27-4	Bromodichloromethane	5000	U
78-87-5	1,2-Dichloropropane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
79-01-6	Trichloroethene	5000	U
124-48-1	Dibromochloromethane	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
71-43-2	Benzene	5000	U
10061-02-6	Trans-1,3-Dichloropropene	5000	U
75-25-2	Bromoform	5000	U
108-10-1	4-Methyl-2-Pentanone	120000	
591-78-6	2-Hexanone	10000	U
127-18-4	Tetrachloroethene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	10000	U
108-88-3	Toluene	5000	U
108-90-7	Chlorobenzene	5000	U
100-41-4	Ethylbenzene	5000	U
100-42-5	Styrene	5000	U
	Total Xylenes	5000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OF001-DUP

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041074

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04288801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 1000

Number TICs found: ~~1~~ Ø

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~545783-80-8~~	~~C110 1,4-DIFLUOROBENZENE *~~	~~20.99~~	~~50000~~	~~BJ~~

S. Schmitt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OF001FB

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041075

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278803

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/27/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	5	U
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	7	B
75-35-3	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
78-93-3	2-Butanone	8	BJ
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	8	BJ
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OF001FB

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041075

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278803

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. _____ Date Analyzed: 04/27/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: ~~1~~ Ø

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. ~~545783-80-8~~	~~C110 1,4-DIFLOUROBENZENE~~ *	~~20.99~~	~~50~~	~~BJ~~

SL Schmidt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-A

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041076

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 5VP04278808

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 42 Date Analyzed: 04/27/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	22	
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	52	
67-64-1	Acetone	17	U
75-15-0	Carbon Disulfide	11	
75-35-4	1,1-Dichloroethene	9	U
75-35-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	42	
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	57	B
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	57	B
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	Trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	38	
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	13	
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-88-3	Toluene	34	
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	37	
100-42-5	Styrene	9	U
	Total Xylenes	71	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-A

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041076

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 5VP04278808

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 42 Date Analyzed: 04/27/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 624-92-0	DISULFIDE, DIMETHYL	17.25	300	J
2. 142-82-5	HEPTANE (DOT)	24.75	120	J
3. 1678-91-7	CYCLOHEXANE, ETHYL-	25.72	280	J
4. 2207-03-6	CYCLOHEXANE, 1,3-DIMETHYL-,	26.21	120	J
5. 3073-66-3	CYCLOHEXANE, 1,1,3-TRIMETHYL	27.46	290	J
6. 62185-56-2	1-HEXENE, 2,5,5-TRIMETHYL-	28.32	120	J
7. 1678-97-3	CYCLOHEXANE, 1,2,3-TRIMETHYL	30.02	400	J
8. 5441-51-0	CYCLOHEXANONE, 4-ETHYL-	30.41	94	J
9. 6236-88-0	CYCLOHEXANE, 1-ETHYL-4-METHY	32.24	480	J
10. 1795-26-2	CYCLOHEXANE, 1,3,5-TRIMETHYL	33.84	210	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWB-S

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041077

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 5VP04278813

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 41 Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	35	
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	8	U
67-64-1	Acetone	17	U
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-35-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	7	J
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	14	BJ
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	14	BJ
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	12	
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	Trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
	Total Xylenes	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWB-S

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041077

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 5VP04278813

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 41 Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 74498-89-8	1,4-HEPTADIENE, 3,3,6-TRIMET	29.16	18	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWC-5

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041078

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 5VP04278810

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 34 Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	8	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-35-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	22	B
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	22	B
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	Trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	16	
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	7	J
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
	Total Xylenes	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWC-S

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041078

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 5VP04278810

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 34 Date Analyzed: 04/28/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TP 2 - UNKNOWN	32.29	40	J
2.	TP 2 - UNKNOWN	27.27	32	J
3.	TP 2 - UNKNOWN	26.87	21	J
4.	NB 876 - UNKNOWN	17.30	22	J
5.	NB14279 - UNKNOWN	13.15	3.7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWA-W

ab Name: NUS HOUSTON Contract: EDER ASSOCS

ab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

atrix: (soil/water) WATER Lab Sample ID: 28041081

ample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278804

evel: (low/med) LOW Date Received: 04/16/88

Moisture: not dec. ____ Date Analyzed: 04/27/88

olumn: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	5	J
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	76	B
67-64-1	Acetone	20	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	7	B
75-35-3	1,1-Dichloroethane	6	
540-59-0	1,2-Dichloroethene (total)	48	
67-66-3	Chloroform	5	
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	26	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	26	B
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	120	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	24	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	4	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWA-W

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041081

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. _____ Date Analyzed: 04/27/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TP 2 - UNKNOWN	33.21	9.5	J
2.	FURAN, TETRAHYDRO-	11.35	13	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWB-W

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041082

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278805

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/27/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	16	B
67-64-1	Acetone	40	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	7	B
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	7	
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	49	B
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	49	B
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	290	E
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWB-W

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041082

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278805

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/27/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWB-WDL

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041082

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04288803

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/28/88

Column: (pack/cap) PACK Dilution Factor: 2.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-35-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	64	BD
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	20	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	380	D
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWB-WDL

ab Name: NUS HOUSTON Contract: EDER ASSOCS

ab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

atrix: (soil/water) WATER Lab Sample ID: 28041082

ample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04288803

evel: (low/med) LOW Date Received: 04/16/88

Moisture: not dec. ____ Date Analyzed: 04/28/88

olumn (pack/cap) PACK Dilution Factor: 2.00

umber TICs found: ~~1~~ Ø

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1. 545783-00-8~~	~~C110 1,4-DIFLUOROBENZENE *~~	~~20.99~~	~~100~~	~~BJ~~

S L Schmidt
5/22/88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWC-W

L Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041083

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278806

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. _____ Date Analyzed: 04/27/88

Column: (pack/cap) PACK Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
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	5	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	6	B
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	8	
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	BJ
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	5	BJ
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SWC-W

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) WATER Lab Sample ID: 28041083

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 5VP04278806

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. ____ Date Analyzed: 04/27/88

Column (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TP 2 - UNKNOWN	15.85	0.51	J
2.	TP 2 - UNKNOWN	13.00	1.4	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-A

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041076

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 42 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 10.2 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1100	U
111-44-4	bis(2-Chloroethyl)Ether	1100	U
95-57-8	2-Chlorophenol	1100	U
541-73-1	1,3-Dichlorobenzene	1100	U
106-46-7	1,4-Dichlorobenzene	1100	U
100-51-6	Benzyl Alcohol	1100	U
95-50-1	1,2-Dichlorobenzene	250	J
95-48-7	2-Methylphenol	1100	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1100	U
106-44-5	4-Methylphenol	1100	U
621-64-7	N-Nitroso-Di-n-Propylamine	1100	U
67-72-1	Hexachloroethane	1100	U
98-95-3	Nitrobenzene	1100	U
78-59-1	Isophorone	1100	U
88-75-5	2-Nitrophenol	1100	U
105-67-9	2,4-Dimethylphenol	1100	U
65-85-0	Benzoic Acid	5500	U
111-91-1	bis(2-Chloroethoxy)Methane	1100	U
120-83-2	2,4-Dichlorophenol	1100	U
120-82-1	1,2,4-Trichlorobenzene	1100	U
91-20-3	Naphthalene	1100	U
106-47-8	4-Chloroaniline	1100	U
87-68-3	Hexachlorobutadiene	1100	U
59-50-7	4-Chloro-3-Methylphenol	1100	U
91-57-6	2-Methylnaphthalene	1100	U
77-47-4	Hexachlorocyclopentadiene	1100	U
88-06-2	2,4,6-Trichlorophenol	1100	U
95-95-4	2,4,5-Trichlorophenol	5500	U
91-58-7	2-Chloronaphthalene	1100	U
88-74-4	2-Nitroaniline	5500	U
131-11-3	Dimethyl Phthalate	1100	U
208-96-8	Acenaphthylene	1100	U
606-20-2	2,6-Dinitrotoluene	1100	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-A

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041076

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 42 dec. ____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 10.2 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2200	J
83-32-9	Acenaphthene	1100	U
51-28-5	2,4-Dinitrophenol	5500	U
100-02-7	4-Nitrophenol	5500	U
132-64-9	Dibenzofuran	1100	U
121-14-2	2,4-Dinitrotoluene	1100	U
84-66-2	Diethylphthalate	1100	U
7005-72-3	4-Chlorophenyl-phenylether	1100	U
86-73-7	Fluorene	1100	U
100-10-6	4-Nitroaniline	5500	U
534-52-1	4,6-Dinitro-2-Methylphenol	5500	U
86-30-6	N-Nitrosodiphenylamine (1)	420	J
101-55-3	4-Bromophenyl-phenylether	1100	U
118-74-1	Hexachlorobenzene	1100	U
87-86-5	Pentachlorophenol	5500	U
85-01-8	Phenanthrene	430	J
120-12-7	Anthracene	1100	U
84-74-2	Di-n-Butylphthalate	1100	U
206-44-0	Fluoranthene	900	J
129-00-0	Pyrene	690	J
85-68-7	Butylbenzylphthalate	1100	U
91-94-1	3,3'-Dichlorobenzidine	2300	U
56-55-3	Benzo(a)Anthracene	530	J
218-01-9	Chrysene	450	J
117-81-7	bis(2-Ethylhexyl)Phthalate	4100	
117-84-0	Di-n-Octyl Phthalate	1100	U
205-99-2	Benzo(b)Fluoranthene	1100	U
207-08-9	Benzo(k)Fluoranthene	1100	U
50-32-8	Benzo(a)Pyrene	1100	U
193-39-5	Indeno(1,2,3-cd)Pyrene	350	J
53-70-3	Dibenz(a,h)Anthracene	1100	U
191-24-2	Benzo(g,h,i)Perylene	330	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-A

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041076

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048802

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 42 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 10.2 Dilution Factor: 2.00

Number TICs found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	56771-77-8	4-HEXENOIC ACID, 3-METHYL-2,	38.41	530	J
2.	41654-25-5	4-OCTENOIC ACID, 6-ETHYL-3-H	35.22	710	J
3.	603-11-2	1,2-BENZENEDICARBOXYLIC ACID	30.59	13000	J
4.	55401-65-5	PENTALENE, OCTAHYDRO-1-(2-OC	30.31	1800	J
5.	66971-98-0	2H-PYRAN-2-ONE, TETRAHYDRO-6	25.61	390	J
6.	18733-57-8	SILANE, TRICHLOROEICOSYL-	19.54	2200	J
7.	334-56-5	DECANE, 1-FLUORO-	18.80	5000	J
8.	10042-59-8	1-HEPTANOL, 2-PROPYL-	18.29	6700	J
9.	24588-61-2	2H-PYRAN-2-CARBOXYLIC ACID,	17.89	860	J
10.	54410-98-9	1-NONENE, 4,6,8-TRIMETHYL-	15.49	3000	J
11.	473-55-2	BICYCLO[3.1.1]HEPTANE, 2,6,6	15.05	350	J
12.	2243-98-3	1-UNDECYNE	13.94	540	J
13.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.25	900	J
14.	921-47-1	HEXANE, 2,3,4-TRIMETHYL-	11.45	1500	J
15.	15869-93-9	OCTANE, 3,5-DIMETHYL-	10.72	930	J
16.		TP 2 - UNKNOWN	10.64	53	J
17.		TP 2 - UNKNOWN	10.72	79	J
18.		TC 16 - UNKNOWN	7.90	120	J
19.		TP 2 - UNKNOWN	7.27	5700	J
20.		TC 18 - UNKNOWN	5.27	45	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-B

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041077

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05118801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 41 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/11/88

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1100	U
111-44-4	bis(2-Chloroethyl)Ether	1100	U
95-57-8	2-Chlorophenol	1100	U
541-73-1	1,3-Dichlorobenzene	1100	U
106-46-7	1,4-Dichlorobenzene	1100	U
100-51-6	Benzyl Alcohol	1100	U
95-50-1	1,2-Dichlorobenzene	1100	U
95-48-7	2-Methylphenol	1100	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1100	U
106-44-5	4-Methylphenol	1100	U
621-64-7	N-Nitroso-Di-n-Propylamine	1100	U
67-72-1	Hexachloroethane	1100	U
98-95-3	Nitrobenzene	1100	U
78-59-1	Isophorone	1100	U
88-75-5	2-Nitrophenol	1100	U
105-67-9	2,4-Dimethylphenol	1100	U
65-85-0	Benzoic Acid	490	J
111-91-1	bis(2-Chloroethoxy)Methane	1100	U
120-83-2	2,4-Dichlorophenol	1100	U
120-82-1	1,2,4-Trichlorobenzene	1100	U
91-20-3	Naphthalene	1100	U
106-47-8	4-Chloroaniline	1100	U
87-68-3	Hexachlorobutadiene	1100	U
59-50-7	4-Chloro-3-Methylphenol	1100	U
91-57-6	2-Methylnaphthalene	1100	U
77-47-4	Hexachlorocyclopentadiene	1100	U
88-06-2	2,4,6-Trichlorophenol	1100	U
95-95-4	2,4,5-Trichlorophenol	5400	U
91-58-7	2-Chloronaphthalene	1100	U
88-74-4	2-Nitroaniline	5400	U
131-11-3	Dimethyl Phthalate	1100	U
208-96-8	Acenaphthylene	1100	U
606-20-2	2,6-Dinitrotoluene	1100	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-B

La' Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041077

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05118801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 41 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/11/88

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	5400	U
83-32-9	Acenaphthene	1100	U
51-28-5	2,4-Dinitrophenol	5400	U
100-02-7	4-Nitrophenol	5400	U
132-64-9	Dibenzofuran	1100	U
121-14-2	2,4-Dinitrotoluene	1100	U
84-66-2	Diethylphthalate	1100	U
7005-72-3	4-Chlorophenyl-phenylether	1100	U
86-73-7	Fluorene	1100	U
100-10-6	4-Nitroaniline	5400	U
534-52-1	4,6-Dinitro-2-Methylphenol	5400	U
86-30-6	N-Nitrosodiphenylamine (1)	1100	U
101-55-3	4-Bromophenyl-phenylether	1100	U
118-74-1	Hexachlorobenzene	1100	U
87-86-5	Pentachlorophenol	5400	U
85-01-8	Phenanthrene	1100	U
120-12-7	Anthracene	1100	U
84-74-2	Di-n-Butylphthalate	1100	U
206-44-0	Fluoranthene	1100	U
129-00-0	Pyrene	1100	U
85-68-7	Butylbenzylphthalate	280	J
91-94-1	3,3'-Dichlorobenzidine	2200	U
56-55-3	Benzo(a)Anthracene	1100	U
218-01-9	Chrysene	1100	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1500	
117-84-0	Di-n-Octyl Phthalate	1100	U
205-99-2	Benzo(b)Fluoranthene	1100	U
207-08-9	Benzo(k)Fluoranthene	1100	U
50-32-8	Benzo(a)Pyrene	1100	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1100	U
53-70-3	Dibenz(a,h)Anthracene	1100	U
191-24-2	Benzo(g,h,i)Perylene	1100	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-B

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041077

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05118801

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 41 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/11/88

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 2.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TP 2 - UNKNOWN	20.60	130	J
2.	TP 2 - UNKNOWN	24.17	110	J
3.	NB18337 - UNKNOWN	30.31	580	J
4.	NB 1059 - UNKNOWN	7.07	5600	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-C

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041078

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 34 dec. ____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)Ether	10000	U
95-57-8	2-Chlorophenol	10000	U
541-73-1	1,3-Dichlorobenzene	10000	U
106-46-7	1,4-Dichlorobenzene	10000	U
100-51-6	Benzyl Alcohol	10000	U
95-50-1	1,2-Dichlorobenzene	10000	U
95-48-7	2-Methylphenol	10000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-Di-n-Propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
65-85-0	Benzoic Acid	48000	U
111-91-1	bis(2-Chloroethoxy)Methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
120-82-1	1,2,4-Trichlorobenzene	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
59-50-7	4-Chloro-3-Methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	48000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	48000	U
131-11-3	Dimethyl Phthalate	10000	U
208-96-8	Acenaphthylene	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-C

La' Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041078

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BF05048804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 34 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	48000	U
83-32-9	Acenaphthene	10000	U
51-28-5	2,4-Dinitrophenol	48000	U
100-02-7	4-Nitrophenol	48000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
86-73-7	Fluorene	10000	U
100-10-6	4-Nitroaniline	48000	U
534-52-1	4,6-Dinitro-2-Methylphenol	48000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
87-86-5	Pentachlorophenol	48000	U
85-01-8	Phenanthrene	12000	
120-12-7	Anthracene	10000	
84-74-2	Di-n-Butylphthalate	10000	U
206-44-0	Fluoranthene	16000	
129-00-0	Pyrene	11000	
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)Anthracene	4900	J
218-01-9	Chrysene	6400	J
117-81-7	bis(2-Ethylhexyl)Phthalate	3400	J
117-84-0	Di-n-Octyl Phthalate	10000	U
205-99-2	Benzo(b)Fluoranthene	10000	
207-08-9	Benzo(k)Fluoranthene	9500	J
50-32-8	Benzo(a)Pyrene	5100	J
193-39-5	Indeno(1,2,3-cd)Pyrene	3300	J
53-70-3	Dibenz(a,h)Anthracene	10000	U
191-24-2	Benzo(g,h,i)Perylene	2900	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SW-C

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041078

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048804

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 34 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 20.0

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 5618-62-2	HYDROXYLAMINE, O-(2-METHYLPR	20.12	5500	J
2. 1072-05-5	HEPTANE, 2,6-DIMETHYL-	21.37	9200	J
3. 7289-40-9	ETHER, HEPTYL HEXYL	22.70	5100	J
4. 4425-82-5	9H-FLUORENE, 9-METHYLENE-	22.95	3200	J
5.	TP 2 - UNKNOWN	24.45	3200	J
6.	TP 2 - UNKNOWN	24.52	1700	J
7.	TP 2 - UNKNOWN	24.52	5200	J
8.	NB11032 - UNKNOWN	24.80	4500	J
9.	NB16889 - UNKNOWN	26.06	30000	J
10.	NB19761 - UNKNOWN	26.67	3200	J
11.	NB20842 - UNKNOWN	30.49	10000	J
12.	NB 8816 - UNKNOWN	31.97	14000	J
13.	NB*-285 - UNKNOWN	34.47	13000	J
14.	NB 1380 - UNKNOWN	6.93	50000	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-C_MS

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041079

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048805

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 34 dec. ____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)Ether	10000	U
95-57-8	2-Chlorophenol	10000	U
541-73-1	1,3-Dichlorobenzene	10000	U
106-46-7	1,4-Dichlorobenzene	10000	U
100-51-6	Benzyl Alcohol	10000	U
95-50-1	1,2-Dichlorobenzene	10000	U
95-48-7	2-Methylphenol	10000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-Di-n-Propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
65-85-0	Benzoic Acid	48000	U
111-91-1	bis(2-Chloroethoxy)Methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
120-82-1	1,2,4-Trichlorobenzene	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
59-50-7	4-Chloro-3-Methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	48000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	48000	U
131-11-3	Dimethyl Phthalate	10000	U
208-96-8	Acenaphthylene	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-C_MS

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041079

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048805

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 34 dec. ____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	48000	U
83-32-9	Acenaphthene	10000	U
51-28-5	2,4-Dinitrophenol	48000	U
100-02-7	4-Nitrophenol	48000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
86-73-7	Fluorene	10000	U
100-10-6	4-Nitroaniline	48000	U
534-52-1	4,6-Dinitro-2-Methylphenol	48000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
87-86-5	Pentachlorophenol	48000	U
85-01-8	Phenanthrene	11000	
120-12-7	Anthracene	10000	
84-74-2	Di-n-Butylphthalate	10000	U
206-44-0	Fluoranthene	18000	
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)Anthracene	4800	J
218-01-9	Chrysene	6500	J
117-81-7	bis(2-Ethylhexyl)Phthalate	4100	J
117-84-0	Di-n-Octyl Phthalate	10000	U
205-99-2	Benzo(b)Fluoranthene	10000	U
207-08-9	Benzo(k)Fluoranthene	10000	U
50-32-8	Benzo(a)Pyrene	4800	J
193-39-5	Indeno(1,2,3-cd)Pyrene	3300	J
53-70-3	Dibenz(a,h)Anthracene	10000	U
191-24-2	Benzo(g,h,i)Perylene	2700	J

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWC_MSD

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041080

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048807

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	9900	U
111-44-4	bis(2-Chloroethyl)Ether	9900	U
95-57-8	2-Chlorophenol	9900	U
541-73-1	1,3-Dichlorobenzene	9900	U
106-46-7	1,4-Dichlorobenzene	9900	U
100-51-6	Benzyl Alcohol	9900	U
95-50-1	1,2-Dichlorobenzene	9900	U
95-48-7	2-Methylphenol	9900	U
39638-32-9	bis(2-Chloroisopropyl)Ether	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-Di-n-Propylamine	9900	U
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	9900	U
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
65-85-0	Benzoic Acid	48000	U
111-91-1	bis(2-Chloroethoxy)Methane	9900	U
120-83-2	2,4-Dichlorophenol	9900	U
120-82-1	1,2,4-Trichlorobenzene	9900	U
91-20-3	Naphthalene	9900	U
106-47-8	4-Chloroaniline	9900	U
87-68-3	Hexachlorobutadiene	9900	U
59-50-7	4-Chloro-3-Methylphenol	9900	U
91-57-6	2-Methylnaphthalene	9900	U
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	9900	U
95-95-4	2,4,5-Trichlorophenol	48000	U
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	48000	U
131-11-3	Dimethyl Phthalate	9900	U
208-96-8	Acenaphthylene	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SWC_MSD

Lab Name: NUS HOUSTON Contract: EDER ASSOCS

Lab Code: CLC Case No.: 5 SAS No.: _____ SDG No.: 4-16

Matrix: (soil/water) SOIL Lab Sample ID: 28041080

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 3BP05048807

Level: (low/med) LOW Date Received: 04/16/88

% Moisture: not dec. 33 dec. _____ Date Extracted: 04/20/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/04/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	48000	U
83-32-9	Acenaphthene	9900	U
51-28-5	2,4-Dinitrophenol	48000	U
100-02-7	4-Nitrophenol	48000	U
132-64-9	Dibenzofuran	9900	U
121-14-2	2,4-Dinitrotoluene	9900	U
84-66-2	Diethylphthalate	9900	U
7005-72-3	4-Chlorophenyl-phenylether	9900	U
86-73-7	Fluorene	9900	U
100-10-6	4-Nitroaniline	48000	U
534-52-1	4,6-Dinitro-2-Methylphenol	48000	U
86-30-6	N-Nitrosodiphenylamine (1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	9900	U
87-86-5	Pentachlorophenol	48000	U
85-01-8	Phenanthrene	9900	U
120-12-7	Anthracene	9900	U
84-74-2	Di-n-Butylphthalate	9900	U
206-44-0	Fluoranthene	9900	U
129-00-0	Pyrene	9900	U
85-68-7	Butylbenzylphthalate	9900	U
91-94-1	3,3'-Dichlorobenzidine	20000	U
56-55-3	Benzo(a)Anthracene	3100	J
218-01-9	Chrysene	4500	J
117-81-7	bis(2-Ethylhexyl)Phthalate	2700	J
117-84-0	Di-n-Octyl Phthalate	9900	U
205-99-2	Benzo(b)Fluoranthene	6300	J
207-08-9	Benzo(k)Fluoranthene	6000	J
50-32-8	Benzo(a)Pyrene	3300	J
193-39-5	Indeno(1,2,3-cd)Pyrene	9900	U
53-70-3	Dibenz(a,h)Anthracene	9900	U
191-24-2	Benzo(g,h,i)Perylene	9900	U

(1) - Cannot be separated from Diphenylamine

eder associates
consulting engineers, p.c.

October 22, 1986
File #495-1

Mr. Kris Koder
Environmental Scientist
Northeast District Office
Division of Solid and Hazardous
Waste Management
Ohio Environmental Protection Agency
2110 East Aurora Road
Twinsburg, Ohio 44087-1969

RECEIVED
OCT 27 1986
U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
HAZARDOUS WASTE ENFORCEMENT BRANCH

Re: Hukill Chemical Corporation
Bedford, Ohio
EPA I.D. #OHD001926740

Dear Mr. Koder:

This letter updates the status of the closure program for the underground cistern.

The activities listed below have been completed in accord with: 1) the approved Closure Plan; 2) the interim remedial measures described in our May 20th letter to the Ohio Environmental Protection Agency (OEPA); and 3) our August 21, 1986 engineering report, "Proposed Investigation for the Certification Regarding Potential Releases from Solid Waste Management Units".

1. Sampling and analyses of liquid and residues in the cistern;

2. Removal of liquid from the cistern;

3. Soil boring, sampling and analysis around the cistern to determine the extent of soil contamination;

4. Placement of additional concrete in the floor trenches and drains connected to the cistern;

5. Placement of a pipe plug in the inlet pipe to the cistern;

6. Removal of sludge residues from the cistern;

7. Soil boring and sampling of soil and perched water around the drain piping connected to the cistern; and

8. Installation and sampling of Well F downgradient of the cistern.

The sampling described in Items 7 and 8 took place during September and October 1986. Laboratory results have not yet been received by our office.

Sampling described in Items 1 and 3 took place in April and May 1986 and the laboratory results have been received.

Continued . . .

85 FOREST AVENUE • LOCUST VALLEY, NEW YORK 11560 • (516) 671-8440
LEONARD J. EDER, P. E. • FREDERICK H. INYARD, P. E. • STEPHEN J. OSMUNDSEN, P. E. • GARY A. ROZMUS, P. E.
JOHN McGUIRE, P. E. • JORGE MOLINA, ING. • WILLIAM J. CUNNINGHAM, P. E. • JOSEPH B. HELLMANN, P. E.

Mr. Kris Koder
Ohio Environmental Protection Agency
October 22, 1986

Based on the results of our work to date, it would not be possible to achieve a "clean closure" of the cistern. It is necessary that we develop a corrective action plan to control contaminated perched groundwater accumulating in the cistern as well as a closure and/or post-closure plan. This corrective action is part of the corrective action program that will be developed for the solid waste management units. This program will be developed in accord with the format and time frame described in our August 1986 engineering report, "Proposed Investigation for the Certification Regarding Potential Releases from the Solid Waste Management Units".

On April 16, 1986, the OEPA issued the Director's Final Findings and Orders (F&O) which required that the cistern be closed by October 31, 1986. Since a "clean closure" will not be possible and a corrective action plan must be developed, the October 31, 1986 deadline is not realistic. We suggest that the F&O be revised to require that Hukill Chemical develop and implement corrective action, closure and/or post-closure for the cistern in accordance with the work tasks and time frame described in our engineering report, "Proposed Investigation for the Certification Regarding Potential Releases from the Solid Waste Management Units". Site work related to the cistern closure, conducted to date would be included in Task 3 "Report of Site Investigation".

We are now waiting for the laboratory data for samples collected during September and October pursuant to our August 1986 report. When these data are received, we will proceed with Task 3 "Report of Site Investigation" as described in our report which will include all site work relating to the solid waste management units, including the solvent tank farm at the Hukill facility.

Please contact our office if you have any questions.

Very truly yours,

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

Nicholas A. Andrianas
Project Engineer

NAA/tg

cc: R. Hukill
C. Taylor
T. Carlisle
A. Sasson
C. Liska
M. Wallach
D. Marlin
J. DeMartin
W. Skowronski
P. Cotter
F. Norling

eder associates
consulting engineers, p.c.

August 21, 1986
File #495-1

Mr. Craig Liska
RCRA Enforcement Section
Waste Enforcement Branch
United States Environmental
Protection Agency
Region V HE-2 JCK
230 South Dearborn Street
Chicago, Illinois 60604

RECEIVED
AUG 22 1986
U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
HAZARDOUS WASTE ENFORCEMENT BRANCH

Re: Hukill Chemical Corporation
Bedford, Ohio

Dear Mr. Liska:

I am enclosing three (3) copies of our engineering report, "Proposed Investigation for the Certification Regarding Potential Releases from Solid Waste Management Units". This report describes the work that will be implemented at this site pursuant to the 1984 HSWA corrective action requirements. The report addresses comments made on our July draft report by your office and by Francine Norling of the RCRA Permits Section during telephone conversations on July 21, 28 and 31.

As stated in the cover letter in our July 1, 1986 draft report, the work in this report overlaps other work in progress including work performed pursuant to our engineering reports, "Plan for Determining the Extent of Potential Contamination", "Closure Plan for Underground Cistern", and a site study to determine the source and need for corrective action for contaminants found in the NPDES permitted outfall. As agreed during our July 21, 1986 telephone conversation, the work described in the enclosed report will be performed concurrently with work in progress at Hukill. Section 3.0 of the enclosed report includes a schedule indicating the concurrent performance of the work. The field work described in the report will start in mid September.

Also as agreed, on conclusion of the work described in the enclosed report, we will submit to the United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA), a "Report of Site Investigation" as described in Task 3 of our engineering reports, "Plan for Determining the Extent of Potential Contamination" and "Proposed Investigation for the Certification Regarding Potential Releases from Solid Waste Management Units". This "Report of Site Investigation" will summarize the results of the work conducted in April and May 1986 and the work to be conducted in September. This report would be an interim report if additional site work is necessary.

Continued . . .

85 FOREST AVENUE • LOCUST VALLEY, NEW YORK 11560 • (516) 671-8440
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JOHN McGUIRE, P. E. • JORGE MOLINA, ING. • WILLIAM J. CUNNINGHAM, P. E. • JOSEPH B. HELLMANN, P. E.

Mr. Craig Liska
United States Environmental
Protection Agency
August 21, 1986

Based on my July 31, 1986 telephone conversation with Francine Norling 1) the enclosed report will be appended to the facility Part B permit, 2) EPA has determined that Hukill has satisfied all requirements for obtaining a Part B permit which will now be issued.

If you have any questions, please call our office.

Very truly yours,

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

Nicholas A. Andrianas

NAA/tg
Enc.

cc: F. Norling
K. Coder
R. Hukill
M. Wallach
A. Sasson
W. Busch
P. Cotter

5C-16

SEP 24 1982

Mr. Mark Wallach
Calfee, Halter & Griswold
1800 Central National Bank Building
Cleveland, Ohio 44114

Re: Hukill Chemical Corporation

Dear Mr. Wallach:

I wish to acknowledge receipt of the plan and implementation schedule for a hydrogeologic investigation at the Hukill Chemical facility which was submitted by Donna Wallace, NUS Corporation, on August 24, 1982. The plan and implementation schedule were orally approved by the U.S. Environmental Protection Agency (U.S. EPA), Region V, on September 2, 1982, subject to the following conditions: 1st) a second set of samples of the groundwater, outfall 001 and surface waters at the Hukill site should be obtained and analyzed, and 2nd) total organic halogen should be added to the list of parameters for analysis. The plan and implementation schedule are considered to be an adequate presence-of-contamination study to determine whether trace pollutants are moving through the site via groundwater. Further samples, including soil testing, may be required to develop an adequate remedial program for the site. Additional requirements, if any, will be developed by U.S. EPA in consultation with Ms. Wallace and Rob Hukill, following a review of the data from the current hydrogeologic investigation. This approach was discussed with Ms. Wallace on September 2, 1982.

I also received from Hukill Chemical a current plot plan of the facility, a description of significant manufacturing operations, flow diagrams of the water systems, and an assessment of the facility's pretreatment program. We reviewed this information and find that it fulfills the requirements of Items 5a, 5c, 5d, and 5e of the U.S. EPA, Region V Technical Proposal. It is my understanding that Hukill Chemical Corporation will supply U.S. EPA with the information that is requested in Items 3 and 5b of the U.S. EPA, Region V Technical Proposal upon completion of the current hydrogeologic investigation.

RECEIVED
SEP 27 1982
WASTE MANAGEMENT BRANCH
EPA REGION V

Finally, please advise me of the date on which Hukill Chemical expects to file a revised Spill Prevention Control and Countermeasure (SPCC) plan. During our meeting of February 23, 1982, Paul Pustay stated that a revised SPCC plan is under development which will reflect the installation of the API separator at the facility.

Very truly yours,

Babette J. Neuberger
Assistant Regional Counsel

cc: Robert L. Hukill
Hukill Chemical Corporation

Donna Wallace
NUS Corporation

Dennis Zapka
Assistant United States Attorney
Northern Distict of Ohio

bcc: Leon Acierto, 5WQC-13

✓Rick Karl, 5HB-TUB