

2021 Hazardous Waste Scanning Project

File Form Naming Convention.

(File_Type).(Program).(Site_Number).(YYYY-MM-DD).(File_Name).pdf

Note 1: Each category is separated by a period "."

Note 2: Each word within category is separated by an underscore "_"

Specific File Naming Convention Label:

*Report. HW. 932020. 1993-01-01. LTGWM-93*_____ *.pdf*

Mail room
Call up Ed

(518) 584-6588

Ron Daws
473-0323

Fred Woodward
457-3252

Fed ex
716-297-2671

117216718

EMERY
1-800-441 EMERY
443-6379

NYSDEC

% FRED WOODWARD

Rm 208

50 WOLF RD

12233-7010

DKKA #34

URS

FILE COPY

Originator Rhee 2/25/93

Reviewer J. Wang for GSR 2/25/93

Reviewer _____

Reviewer _____

FEB 25 1993

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1993 First Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the first quarter samples which were collected January 12, 1993 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

John R. Strang

for Gerald J. Rider, Jr., P.E.
Chief, Operation & Maintenance Section
Bureau of Construction Services
Division of Hazardous Waste Remediation

Enclosures

cc: N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

bcc: w/enc. P. Buechi, Reg. 9
~~B. Sadowski~~
M. Podd

w/o enc. - M. O'Toole
A. Rockmore

a:zaepfel:RL:et

SIU SELF-MONITORING DATA REPORT

FOR THE CITY OF NIAGARA FALLS

PERMIT NO. 16 QUARTER First

INDUSTRY NAME Love Canal Leachate Treatment Fac. PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED, THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.

SIGNED

John R. Strong

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge PermitPage 2 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th Street Effluent

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	1/12/93					
24 Hr Flow(MGD)	0.0540					
Monochloro-phenol	<10		<0.00451		<10.50	<0.00460
Dichloro-phenol	<10		<0.00451		<10.50	<0.00460
Monochloro-cresol	<10		<0.00451		<10.50	<0.00460
Trichloro-phenol	<10		<0.00451		<10.50	<0.00460
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge PermitPage 3 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th Effluent

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	1/12/93					
24 Hr Flow(MGD)	0.0540					
Dimethyl Phthalate	<10		<0.00451		<10.50	<0.00460
Butyl Benzyl Phthalate	<10		<0.00451		<10.50	<0.00460
Dibutyl Phthalate	<10		<0.00451		<10.50	<0.00460
Nitrosodiphenylamine	<10		<0.00451		<10.50	<0.00460
Dichlorobenzenes	<3		<0.00135		<3.25	<0.00143
Dichlorotoluene	<10		<0.00451		<10.50	<0.00460
Acenaphthene	<10		<0.00451		<10.50	<0.00460
Flouranthene	<3		<0.00135		<7.00	<0.00315
Chrysene	<3		<0.0135		<3.25	<0.00143
Naphthalene	<10		<0.00451		<10.50	<0.00460
Benzo(a)Anthracene	<3		<0.00135		<3.25	<0.00143
Pyrene	<10		<0.00451		<10.50	<0.00460
Trichlorobenzene	<10		<0.00451		<10.50	<0.00460
Trichlorotoluene	<10		<0.00451		<10.50	<0.00460
Hexachlorobutadiene	<10		<0.00451		<10.50	<0.00460
Tetrachlorobenzene	-		-		-	-
Hexachlorobenzene	<10		<0.00451		<10.50	<0.00460
Dichlorobenzo-trifluoride	<10		<0.00451		<10.50	<0.00460
Phenanthrene	<10		<0.00451		<10.50	<0.00460

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge PermitPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th Street Effluent

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	1/12/93					
24 Hr Flow(MGD)	0.0540					
Benzene	<5		<0.00225		<5.00	<0.00219
Carbon Tetra-Chloride	<5		<0.00225		<5.00	<0.00219
Chlorodibromo-methane	<5		<0.00225		<5.00	<0.00219
Monochlorobenzene	<5		<0.00225		<5.00	<0.00219
Dichlorobromo-methane	<5		<0.00225		<5.00	<0.00219
Monochlorobenzene	<5		<0.00225		<5.00	<0.00219
Dichlorobromo-methane	<5		<0.00225		<5.00	<0.00219
Chloroform	0.3		0.0014		<3.83	<0.00166
Dichloroethylene	<5		<0.00225		<5.00	<0.00219
Bromoform	<5		<0.00225		<5.00	<0.00219
Dichloropropylenes	<5		<0.00225		<5.00	<0.00219
Ethylbenzene	<5		<0.00225		<5.00	<0.00219
Tetrachloroethanes	<5		<0.00225		<5.00	<0.00219
Tetrachloro-ethylene	<5		<0.00225		<5.00	<0.00219
Toluene	<5		<0.00225		<5.00	<0.00219
Trichloroethanes	<5		<0.00225		<5.00	<0.00219
Trichloroethylene	<5		<0.00225		<5.00	<0.00219
Methylene Chloride	<5		<0.00225		<3.80	<0.00173
Monochlorotoluenes	<5		<0.00225		<5.00	<0.00219
Monochlorobenzo-trifluoride	<5		<0.00225		<5.00	<0.00219

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge Permit

Page 5 of 6

SIU PERMIT NO. 16

SAMPLE LOCATION (as per permit) 97th Street Effluent

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lbs/d
Date Sampled	1/12/93					
24 Hr Flow(MGD)	0.0540					
Total Suspended Solids	<4		<1.802		<4.00	<1.749
Soluble Organic Carbon	1.6		0.721		2.48	1.022
Total Phosphorus	-		-	-	-	-
Total Phenol	0.006		0.003		0.01	0.00314
Cadmium	-		-		<0.0027	<0.0012
Chromium	-		-		<0.0105	<0.0048
Copper	-		-		<0.0118	<0.0054
Lead	-		-		<0.0030	<0.0014
Mercury	-		-		<0.0250	<0.0001
Nickel	-		-		<0.0002	<0.0115
Zinc	-		-		<0.0827	<0.0380
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME Love Canal Leachate Treatment Facility

Page 6 of 6

PERMIT NO. 16

[illegible]

* Actual Discharge - List actual analytical results and appropriate units

** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
L.L. = Local Limit (Ordinance 250.5.1)

Date Prepared: February 17, 1993

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF CONSTRUCTION SERVICES
OPERATION AND MAINTENANCE SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

FIRST QUARTER 1993

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
-------------	------------------	-------------

86	11/01/92	40000
87	11/04/92	71000
88	11/05/92	45810
89	11/06/92	40100
90	11/09/92	55500
91	11/13/92	70000
92	11/16/92	71500
93	11/17/92	38400
94	11/19/92	69400
95	11/20/92	30000
96	11/23/92	68000
97	11/24/92	38000
98	11/24/92	38500
99	11/30/92	70000

SUBTOTAL 746210

100	12/03/92	46500
101	12/09/92	55000
102	12/14/92	36000
103	12/16/92	54000
104	12/17/92	27300
105	12/18/92	44200
106	12/21/92	50700
107	12/22/92	55350
108	12/24/92	34010
109	12/29/92	64250
110	12/30/92	62500
111	12/31/92	41850

SUBTOTAL 571660

1	01/04/93	66000
2	01/05/93	70000
3	01/06/93	66000
4	01/07/93	38250
5	01/08/93	59000
6	01/12/93	54000 quarterly

7	01/15/93	41500
8	01/19/93	45000
9	01/22/93	63000
10	01/25/93	64500
11	01/26/93	51000
12	01/29/93	38000

SUBTOTAL 656250

1X
ORGANICS ANALYSIS DATA SHEET

0014
SAMPLE NO.

L1687E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L092 SAS No.: _____ SDG No.: 01025

Matrix: (soil/water) WATER Lab Sample ID: AS024533

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H1555

Level: (low/med) LOW Date Received: 01/12/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 01/14/93

Column: DB-624 ID: 0.53 (mm) Dilution Factor: _____ 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	0.3	J
107-06-2	-----1,2-Dichloroethane	5	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----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
110-75-8	-----2-Chloroethylvinyl ether	10	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-dichloropropene	5	U
75-25-2	-----Bromoform	5	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
541-73-1	-----1,3-Dichlorobenzene	10	U
12/14DCLB	-----1,2- & 1,4-Dichlorobenzene	10	U
75-69-4	-----Trichlorofluoromethane	10	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1687E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L092 SAS No.: _____ SDG No.: 01025

Matrix: (soil/water) WATER Lab Sample ID: AS024533

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: H1555

Level: (low/med) LOW Date Received: 01/12/93

Moisture: not dec. _____ Heated Purge: N Date Analyzed: 01/14/93

Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

Q

108-41-8-----m-Chlorotoluene	5	U
106-43-4-----p-Chlorotoluene	5	U
95-49-8-----2-Chlorotoluene	5	U
88-16-4-----2-Monochlorobenzotrifluoride	5	U
98-15-7-----3-Monochlorobenzotrifluoride	5	U
98-56-6-----4-Monochlorobenzotrifluoride	5	U

1X
ORGANICS ANALYSIS DATA SHEET

0020
SAMPLE NO.

L1685E

Lab Name: RECRA ENVIRON

Contract: C002412

Lab Code: RECNY

Case No.: L092

SAS No.: _____

SDG No.: 01025

Matrix: (soil/water) WATER

Lab Sample ID: AS024531

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 13167Y

Level: (low/med) LOW

Date Received: 01/12/93

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 01/15/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/26/93

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	3	U
106-46-7-----	1,4-Dichlorobenzene	3	U
95-50-1-----	1,2-Dichlorobenzene	3	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
131-11-3-----	Dimethyl Phthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	50	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1685E

Lab Name: RECRA ENVIRONContract: C002412Lab Code: RECNYCase No.: L092

SAS No.: _____

SDG No.: 01025Matrix: (soil/water) WATERLab Sample ID: AS024531Sample wt/vol: 1000 (g/mL) MLLab File ID: 13167YLevel: (low/med) LOWDate Received: 01/12/93% Moisture: _____ decanted: (Y/N) NDate Extracted: 01/15/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 01/26/93Injection Volume: 2.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	3	U
62-75-9	N-Nitrosodimethylamine	10	U
92-87-5	Benzidine	80	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	3	U
218-01-9	Chrysene	3	U
117-81-7	Bis(2-Ethylhexyl) Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b) Fluoranthene	10	U
207-08-9	Benzo(k) Fluoranthene	10	U
50-32-8	Benzo(a) Pyrene	10	U
193-39-5	Indeno(1,2,3-cd) Pyrene	10	U
53-70-3	Dibenz(a,h) Anthracene	10	U
191-24-2	Benzo(g,h,i) Perylene	10	U
320-60-5	Dichlorobenzotrifluorides	10	U
611-19-8	alpha,2-Dichlorotoluene	10	U
620-20-2	alpha,3-Dichlorotoluene	10	U
104-83-6	alpha,4-Dichlorotoluene	10	U
95-73-8	2,4-Dichlorotoluene	10	U
118-69-4	2,6-Dichlorotoluene	10	U
95-75-0	3,4-Dichlorotoluene	10	U
98-07-7	a,a,a-trichlorotoluene	10	U
94-99-5	alpha,2,4-trichlorotoluene	10	U
102-47-6	alpha,3,4-trichlorotoluene	10	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1685E

Lab Name: RECRA ENVIRON

Contract: C002412

Lab Code: RECNY

Case No.: L092

SAS No.: _____

SDG No.: 01025

Matrix: (soil/water) WATER

Lab Sample ID: AS024531

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 13167Y

Level: (low/med) LOW

Date Received: 01/12/93

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 01/15/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/26/93

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

61878-57-F-----	2,4,5-trichlorotoluene
236CL3TOL-----	2,3,6-Trichlorotoluene
CL4TOL-----	Tetrachlorotoluene
98-87-3-----	alpha,alpha-Dichlorotoluene
19398-61-9-----	2,5-Dichlorotoluene
2014-83-7-----	alpha,2,6-trichlorotoluene

10	U
10	U
10	U
10	U
10	U
10	U

N Y S DEC
Wet Chemistry Analysis

Client Sample No.

L1686E

Lab Name: Recra Environmental, Inc.Lab Code: RECNY Case No.: L092SDG No.: 01025Matrix (soil/water): WATERLab Sample ID: AS024532% Solids: 0.0Date Samp/Recv: 01/12/93 01/12/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics	MG/L	0.0060	U			420.1	01/20/93

N Y S DEC
Wet Chemistry Analysis

0025

Client Sample No.

L1688E

Lab Name: Recra Environmental, Inc.

Lab Code: RECNY Case No.: L092

SDG No.: 01025

Matrix (soil/water): WATER

Lab Sample ID: AS024537

% Solids: 0.0

Date Samp/Recv: 01/12/93 01/12/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	4.0	U			160.2	01/14/93
Soluble Organic Carbon	MG/L	1.6				415.1	02/01/93

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling
Commissioner

JUN 15 1993

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1993 Second Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the second quarter samples which were collected on March 17, 1993 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Also enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.
Chief, Operation and Maintenance Section
Bureau of Construction Services
Division of Hazardous Waste Remediation

Enclosures

cc: N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

bcc: w/enc. P. Buechi, Reg. 9
B. Sadowski
M. Podd

w/o enc. - M. O'Toole
A. Rockmore

a:zaepfel:RL:et

SIU SELF-MONITORING DATA REPORT

FOR THE CITY OF NIAGARA FALLS

PERMIT NO. 16 QUARTER Second

INDUSTRY NAME Love Canal Leachate Treatment Fac. PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED, THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.

SIGNED _____

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge PermitPage 2 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th Street Effluent

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lbs/d
Date Sampled	3/17/93					
24 Hr Flow(MGD)	0.0545					
Monochloro-phenol	<10		<0.00455		<10	<0.00436
Dichloro-phenol	<10		<0.00455		<10	<0.00436
Monochloro-cresol	<10		<0.00455		<10	<0.00436
Trichloro-phenol	<10		<0.00455		<10	<0.00436
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge PermitPage 3 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th Street Effluent

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	3/17/93					
24 Hr Flow(MGD)	0.0545					
Dimethyl Phthalate	<10		<0.00455		<10	<0.00436
Butyl Benzyl Phthalate	<10		<0.00455		<10	<0.00436
Dibutyl Phthalate	<10		<0.00455		<10	<0.00436
Nitrosodiphenylamine	<10		<0.00455		<10	<0.00436
Dichlorobenzenes	<3		<0.00136		<3	<0.00131
Dichlorotoluene	<10		<0.00455		<10	<0.00436
Acenaphthene	<10		<0.00455		<10	<0.00436
Fluoranthene	<3		<0.00136		<4.75	<0.00211
Chrysene	<3		<0.00136		<3	<0.00131
Naphthalene	<10		<0.00455		<10	<0.00436
Benzo(a)Anthracene	<3		<0.00136		<3	<0.00131
Pyrene	<10		<0.00455		<10	<0.00436
Trichlorobenzene	<10		<0.00455		<10	<0.00436
Trichlorotoluene	<10		<0.00455		<10	<0.00436
Hexachlorobutadiene	<10		<0.00455		<10	<0.00436
Tetrachlorobenzene	-		-		-	-
Hexachlorobenzene	<10		<0.00455		<10	<0.00436
Dichlorobenzo-trifluoride	<10		<0.00455		<10	<0.00436
Phenanthrene	<10		<0.00455		<10	<0.00436

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge PermitPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th Street Effluent

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	3/17/93					
24 Hr Flow(MGD)	0.0545					
Benzene	<5		<0.00227		<5	<0.00218
Carbon Tetra-Chloride	<5		<0.00227		<5	<0.00218
Chlorodibromo-methane	<5		<0.00227		<5	<0.00218
Dichlorobromo-methane	<5		<0.00227		<5	<0.00218
Monochlorobenzene	<5		<0.00227		<5	<0.00218
Dichlorobromo-methane	<5		<0.00227		<5	<0.00218
Chloroform	<5		<0.00227		<3.83	<0.00165
Dichloroethylene	<5		<0.00227		<5	<0.00218
Bromoform	<5		<0.00227		<5	<0.00218
Dichloropropylenes	<5		<0.00227		<5	<0.00218
Ethylbenzene	<5		<0.00227		<5	<0.00218
Tetrachloroethanes	<5		<0.00227		<5	<0.00218
Tetrachloro-ethylene	<5		<0.00227		<5	<0.00218
Toluene	1		<0.00045		<4	<0.00173
Trichloroethanes	<5		<0.00227		<5	<0.00218
Trichloroethylene	<5		<0.00227		<5	<0.00218
Methylene Chloride	<5		<0.00227		<3.8	<0.00172
Monochlorotoluenes	<5		<0.00227		<5	<0.00218
Monochlorobenzotrifluoride	<5		<0.00227		<5	<0.00218

PART I SELF MONITORING

SIU PERMIT NAME Wastewater Discharge PermitPage 5 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th Street Effluent

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lbs/d
Date Sampled	3/17/93					
24 Hr Flow(MGD)	0.0545					
Total Suspended Solids	<4		<1.819		<4	<1.744
Soluble Organic Carbon	13		5.912		5.43	2.362
Total Phosphorus	-		-		-	-
Total Phenol	0.005		0.002		0.01	0.0030
Cadmium	<0.0003		<0.0001		<0.0027	<0.0012
Chromium	<0.010		<0.0045		<0.0100	<0.0046
Copper	<0.010		<0.0045		<0.0100	<0.0046
Lead	<0.003		<0.0014		<0.0030	<0.0014
Mercury	<0.0002		<0.0001		<0.0002	<0.0001
Nickel	<0.030		<0.0136		<0.0300	<0.0137
Zinc	<0.010		<0.0045		<0.0755	<0.0346
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME Wastewater Discharge Permit

Page 6 of 6

PERMIT NO. 16

[illegible]

* Actual Discharge - List actual analytical results and appropriate units
 ** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
 L.L. = Local Limit (Ordinance 250.5.1)

Date Prepared: May 17, 1993

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF CONSTRUCTION SERVICES
OPERATION AND MAINTENANCE SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

SECOND QUARTER 1993

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
13	02/04/93	37000
14	02/12/93	39500
15	02/18/93	24000
	SUBTOTAL	100500
16	03/01/93	43500
17	03/08/93	38500
18	03/11/93	34500
19	03/17/93	54500
20	03/23/93	59500
21	03/26/93	58930
22	03/29/93	52500
23	03/30/93	61000
24	03/31/93	59000
	SUBTOTAL	461930
25	04/01/93	57000
26	04/02/93	60000
27	04/05/93	60500
28	04/06/93	55600
29	04/08/93	58000
30	04/12/93	61500
31	04/13/93	66000
32	04/14/93	60000
33	04/23/93	61500
34	04/27/93	22000
35	04/28/93	61440
	SUBTOTAL	623540

quarterly

SAMPLE DATA SUMMARY PACKAGE



RECRA
ENVIRONMENTAL
INC.

CASE NARRATIVE

Laboratory Name: Recra Environmental, Inc.

Laboratory Code: RECNY

Case Number: L092

SDG Number: 03025

Contract Number: COO2412

Sample Identification:

L092 03025 L1691E
L092 03025 L1691E MATRIX DUPLICATE
L092 03025 L1692E
L092 03025 L1692E MATRIX DUPLICATE
L092 03025 L1693E
L092 03025 L1693E MATRIX DUPLICATE
L092 03025 L1693T

L092 03025 L1694E
L092 03025 L1694E MATRIX DUPLICATE
L092 03025 L1695E
L092 03025 L1695F
L092 03025 L1695M
LAB CONTROL SAMPLE
VHB

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services Protocol.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.



RECRA
ENVIRONMENTAL
INC.

0003

Volatile data are processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitation reports have been submitted with this analytical data package.

All samples exhibited a pH of seven (7).

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

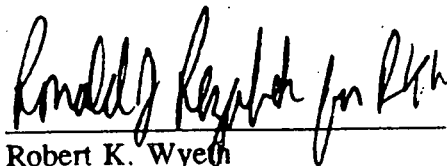
Semivolatile data are processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitation reports have been submitted with this analytical data package.

No deviations from protocol were encountered during analysis.

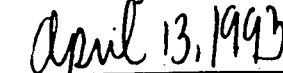
METALS DATA

No deviations from protocol were encountered during analysis.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. 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 his designee, as verified by the following signature."



Robert K. Wyeth
Laboratory Director


Date



RECREA
ENVIRONMENTAL
INC.

10004

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME RECRA ENVIRONMENTAL, INC.

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST/ PCB	METALS	OTHER*
L092 03025 L1691E	93-0698	-	ASP91	-	-	-	-
L092 03025 L1692E	93-0698	-	-	-	-	-	ASP91*
L092 03025 L1693E	93-0698	ASP91	-	-	-	-	-
L092 03025 L1693T	93-0698	ASP91	-	-	-	-	-
L092 03025 L1694E	93-0698	-	-	-	-	ASP91	-
L092 03025 L1695E	93-0698	-	-	-	-	-	ASP91**
L092 03025 L1695F	93-0698	-	-	-	-	-	ASP91**
L092 03025 L1695M	93-0698	-	-	-	-	-	ASP91**

* Phenol analysis

** TSS and SOC analysis

I.D. #A3-0698.1N

NYSDEC-1



RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME RECRA ENVIRONMENTAL INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
L092 03025 L1693E	WATER	03/17/93	03/17/93	-	03/17/93
L092 03025 L1693T	WATER	03/17/93	03/17/93	-	03/17/93

I.D. #A3-0698.2

NYSDEC-2

10006

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
BIN-A ANALYSIS

LAB NAME RECRA ENVIRONMENTAL, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
L092 03025 L1691E	WATER	03/17/93	03/17/93	03/18/93	03/24/93

I.D. #A3-0698.3

NYSDEC-3



RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME RECRA ENVIRONMENTAL, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
L092 03025 L1694E	WATER	T-PP METALS	03/17/93	03/26/93	03/26,27,29,30/93

I.D. #A3-0698.5

NYSDEC-5



RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME RECRA ENVIRONMENTAL INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
L092 03025 L1691E	WATER	ASP91	SEPF*	AS REQUIRED	AS REQUIRED
L092 03025 L1693E	WATER	ASP91	-	AS REQUIRED	AS REQUIRED
L092 03025 L1693T	WATER	ASP91	-	AS REQUIRED	AS REQUIRED

* SEMIVOLATILE ONLY

I.D. #A3-0698.6

NYSDEC-6



RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME RECRA ENVIRONMENTAL, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
L092 03025 L1694E	WATER	ASP91	ASP91	AS REQUIRED	AS REQUIRED

I.D. #A3-0698.7

NYSDEC-7



RECRA
ENVIRONMENTAL
INC.

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimate 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.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.
- L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.
- T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- A - This flag indicates that a TIC is a suspected aldol-condensation product.



RECRA
ENVIRONMENTAL
INC.

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Inorganic Data Qualifiers:

- B - Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 100).
- E - Indicates a value estimated or not reported due to the presence of interference.
- S - Indicates value determined by Method of Standard Addition.
- N - Indicates spike sample recovery is not within control limits.
- * - Indicates duplicate analysis is not within control limits.
- + - Indicates the correlation coefficient for method of standard addition is less than 0.995.
- M - Indicates duplicate injection results exceeded control limits.
- W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
- G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.
- L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.



RECRA
ENVIRONMENTAL
INC.

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

15

L1693E

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: L092 SAS No.: _____ SDG No.: 03025
 Matrix: (soil/water) WATER Lab Sample ID: AS029167
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L3408
 Level: (low/med) LOW Date Received: 03/17/93
 % Moisture: not dec. _____ Heated Purge: N Date Analyzed: 03/17/93
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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
75-35-4	1,1-Dichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethane (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,2-dichloropropene	5	U
79-01-6	trans-1,2-dichloropropene	5	U
124-48-1	1,1,1,2-Tetrachloroethane	5	U
79-00-5	1,1,2-Trichloroethane	10	U
110-75-8	2-Chloroethylvinyl ether	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,2-dichloropropene	5	U
75-25-2	Bromofarm	5	U
127-18-4	Tetrachloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	1	J
108-88-3	Stilbene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
12/14DCLB	1,2,4-Trichlorobenzene	10	U
75-69-4	Trichlorofluoromethane		

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

15016

L1693E

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: L092 SAS No.: _____ SDG No.: 03025
 Matrix: (soil/water) WATER Lab Sample ID: AS029167
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L3408
 Level: (low/med) LOW Date Received: 03/17/93
 % Moisture: not dec. _____ Heated Purge: N Date Analyzed: 03/17/93
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

108-41-8	m-Chlorotoluene	5	U
106-43-4	p-Chlorotoluene	5	U
95-49-8	o-Chlorotoluene	5	U
88-16-4	Monochlorobenzotrifluoride	5	U
98-15-7	Monochlorobenzotrifluoride	5	U
98-56-6	4-Monochlorobenzotrifluoride	5	U

1X
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

L1693E

Lab Name: RECRA ENVIRON

Contract: C002412

Lab Code: RECNY

Case No.: L092

SAS No.: _____

SDG No.: 03025

Matrix: (soil/water) WATER

Lab Sample ID: AS029167

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

Lab File ID: L3408

Level: (low/med) LOW

Date Received: 03/17/93

% Moisture: not dec. _____

Date Analyzed: 03/17/93

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1X
ORGANICS ANALYSIS DATA SHEET

1024

SAMPLE NO.

L1691E

Lab Name: RECRA ENVIRON

Contract: C002412

Lab Code: RECNY

Case No.: L092

SAS No.: _____

SDG No.: 03025

Matrix: (soil/water) WATER

Lab Sample ID: AS029165

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 13592Y

Level: (low/med) LOW

Date Received: 03/17/93

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 03/18/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/24/93

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	3	U
106-46-7-----	1,4-Dichlorobenzene	3	U
95-50-1-----	1,2-Dichlorobenzene	3	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
131-11-3-----	Dimethyl Phthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	50	U

FORM I X-1

3/90

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

025

L1691E

Lab Name: RECRA ENVIRON Contract: C002412
Lab Code: RECNY Case No.: L092 SAS No.: _____ SDG No.: 03025
Matrix: (soil/water) WATER Lab Sample ID: AS029165
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 13592Y
Level: (low/med) LOW Date Received: 03/17/93
% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/93
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/24/93
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.

COMPOUND

Q

86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	3	U
62-75-9	N-Nitrosodimethylamine	10	U
92-87-5	Benzidine	80	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	3	U
218-01-9	Chrysene	3	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b) Fluoranthene	10	U
207-08-9	Benzo(k) Fluoranthene	10	U
50-32-8	Benzo(a) Pyrene	10	U
193-39-5	Indeno(1,2,3-cd) Pyrene	10	U
53-70-3	Dibenz(a,h) Anthracene	10	U
191-24-2	Benzo(g,h,i) Perylene	10	U
320-60-5	Dichlorobenzotrifluoride	10	U
611-19-8	alpha,2-Dichlorotoluene	10	U
620-20-2	alpha,3-Dichlorotoluene	10	U
104-83-6	alpha,4-Dichlorotoluene	10	U
95-73-8	2,4-Dichlorotoluene	10	U
118-69-4	2,6-Dichlorotoluene	10	U
95-75-0	2,4-Dichlorotoluene	10	U
98-07-7	2,6-Dichlorotoluene	10	U
94-99-5	alpha,2,4-trichlorotoluene	10	U
102-47-6	alpha,2,4-trichlorotoluene	10	U

1X
ORGANICS ANALYSIS DATA SHEET

10026

SAMPLE NO.

L1691E

Lab Name: RECRA ENVIRON Contract: C002412
 Lab Code: RECNY Case No.: L092 SAS No.: _____ SDG No.: 03025
 Matrix: (soil/water) WATER Lab Sample ID: AS029165
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: 13592Y
 Level: (low/med) LOW Date Received: 03/17/93
 % Moisture: _____ decanted: (Y/N) N Date Extracted: 03/18/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/24/93
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.

COMPOUND

Q

61878-57-F-----	2,4,5-Trichlorotoluene	10	U
236CL3TOL-----	2,3,6-Trichlorotoluene	10	U
CL4TOL-----	Tetrachlorotoluene	10	U
98-87-3-----	alpha,alpha-Dichlorotoluene	10	U
19398-61-9-----	2,5-Dichlorotoluene	10	U
2014-83-7-----	alpha,2,6-Trichlorotoluene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

10027

EPA SAMPLE NO.

L1691E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L092 SAS No.: _____ SDG No.: 03025

Matrix: (soil/water) WATER

Lab Sample ID: AS029165

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 13592Y

Level: (low/med) LOW

Date Received: 03/17/93

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 03/18/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 03/24/93

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN	9.68	2	J

1
INORGANIC ANALYSES DATA SHEET

L1694E

Lab Name: RECRA_ENVIRONMENTAL_INC. Contract: C004212

Lab Code: RECNY Case No.: L092 SAS No.: SDG No.: 03025

Matrix (soil/water): WATER

Lab Sample ID: 4806

Level (low/med): LOW

Date Received: 03/17/93

% 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				NR
7440-36-0	Antimony	5.0	U		F
7440-38-2	Arsenic	4.0	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	0.30	U		F
7440-70-2	Calcium				NR
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	4.0	U	W	F
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	10.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

LAB_SAMPLE_ID: AS029169-SG000008

N Y S DEC
Wet Chemistry Analysis

10034

Client Sample No.

L1692E

Lab Name: Recra Environmental, Inc.

SDG No.: 03025

Lab Code: RECN Case No.: L092

Lab Sample ID: AS029166

Matrix (soil/water): WATER

Date Samp/Recv: 03/17/93 03/17/93

% Solids: 0.0

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics	MG/L	0.0050	U			420.1	03/24/93

1035

N Y S DEC
Wet Chemistry Analysis

Client Sample No.

L1695E

Lab Name: Recra Environmental, Inc.

Lab Code: RECNY Case No.: L092

SDG No.: 03025

Matrix (soil/water): WATER

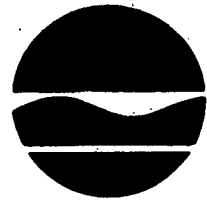
Lab Sample ID: AS029172

% Solids: 0.0

Date Samp/Recv: 03/17/93 03/17/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	4.0	U			160.2	03/22/93
Soluble Organic Carbon	MG/L	13.0				415.1	03/25/93

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling
Commissioner

AUG 31 1993

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1993 Third Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the third quarter samples which were collected on June 7, 1993 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Also enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.
Chief, Operation and Maintenance Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation

Enclosures

cc:w/enc. - N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

bcc: w/enc. P. Buechi, Reg. 9
B. Sadowski
M. Podd

w/o enc. - M. O'Toole
E. Barcomb

a:zaepfel:RL:et

SIU SELF-MONITORING DATA REPORT
FOR THE CITY OF NIAGARA FALLS

PERMIT NO. 16 QUARTER THIRD

INDUSTRY NAME LOVE CANAL LEACHATE TREAT. FACILITY PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED, THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE.

SIGNED _____

Heidi G. [Signature]

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMIT

Page 2 of 6

SIU PERMIT NO. 16

SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	6/7/93					
24 Hr Flow(MGD)	0.0600					
Monochloro-phenol	<10		<0.00501		<10	<0.00466
Dichloro-phenol	<10		<0.00501		<10	<0.00466
Monochloro-cresol	<10		<0.00501		<10	<0.00466
Trichloro-phenol	<10		<0.00501		<10	<0.00466
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 3 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	6/7/93					
24 Hr Flow(MGD)	0.0600					
Dimethyl Phthalate	<10		<0.00501		<10	<0.00466
Butyl Benzyl Phthalate	<10		<0.00501		<10	<0.00466
Dibutyl Phthalate	<10		<0.00501		<10	<0.00466
Nitrosodiphenylamine	<10		<0.00501		<10	<0.00466
Dichlorobenzenes	<3		<0.00150		<3	<0.00140
Dichlorotoluene	<10		<0.00501		<10	<0.00466
Acenaphthene	<10		<0.00501		<10	<0.00466
Fluoranthene	<3		<0.00150		<4.75	<0.00220
Chrysene	<3		<0.00150		<3	<0.00140
Naphthalene	<10		<0.00501		<10	<0.00466
Benzo(a)Anthracene	<3		<0.00150		<3	<0.00140
Pyrene	<10		<0.00501		<10	<0.00466
Trichlorobenzene	<10		<0.00501		<10	<0.00466
Trichlorotoluene	<10		<0.00501		<10	<0.00466
Hexachloro-butadiene	<10		<0.00501		<10	<0.00466
Tetrachlorobenzene	-		-		-	-
Hexachlorobenzene	<10		<0.00501		<10	<0.00466
Dichlorobenzo-trifluoride	<10		<0.00501		<10	<0.00466
Phenanthrene	<10		<0.00501		<10	<0.00466

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	6/7/93					
24 Hr Flow(MGD)	0.0600					
Benzene	<5		<0.00250		<5	<0.00233
Carbon Tetra-Chloride	<5		<0.00250		<5	<0.00233
Chlorodibromo-methane	<5		<0.00250		<5	<0.00233
Dichlorobromo-methane	<5		<0.00250		<5	<0.00233
Monochlorobenzene	<5		<0.00250		<5	<0.00233
Dichlorobromo-methane	<5		<0.00250		<5	<0.00233
Chloroform	<5		<0.00250		<3.83	<0.00180
Dichloroethylene	<5		<0.00250		<5	<0.00233
Bromoform	<5		<0.00250		<5	<0.00233
Dichloropropylenes	<5		<0.00250		<5	<0.00233
Ethylbenzene	<5		<0.00250		<5	<0.00233
Tetrachloroethanes	<5		<0.00250		<5	<0.00233
Tetrachloro-ethylene	<5		<0.00250		<5	<0.00233
Toluene	5		<0.00250		<4	<0.00188
Trichloroethanes	<5		<0.00250		<5	<0.00233
Trichloroethylene	<5		<0.00250		<5	<0.00233
Methylene Chloride	<5		<0.00250		<5	<0.00233
Monochlorotoluenes	<5		<0.00250		<5	<0.00233
Monochlorobenzo-trifluoride	<5		<0.00250		<5	<0.00233

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 5 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lb/d
Date Sampled	6/7/93					
24 Hr Flow(MGD)	0.0600					
Total Suspended Solids	<4		<2.003		<4	<1.865
Soluble Organic Carbon	5		2.503		5.28	2.456
Total Phosphorus	-		-		-	-
Total Phenol	0.009		0.005		0.01	0.0033
Cadmium					<0.0027	<0.0012
Chromium					<0.0100	<0.0046
Copper					<0.0100	<0.0046
Lead					<0.0030	<0.0014
Mercury					<0.0002	<0.0001
Nickel					<0.0300	<0.0137
Zinc					<0.0755	<0.0346
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME LOVE CANAL LEACHATE TREATMENT FACILITY

Page 6 of 6

PERMIT NO.

16

[illegible]

* Actual Discharge - List actual analytical results and appropriate units

** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
L.L. = Local Limit (Ordinance 250.5.1)

Date Prepared: August 31, 1993

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF CONSTRUCTION SERVICES
OPERATION AND MAINTENANCE SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

THIRD QUARTER 1993

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
36	05/03/93	39500
37	05/11/93	39500
38	05/19/93	35500
39	05/28/93	36000
	SUBTOTAL	150500
40	06/07/93	60000 quarterly
41	06/09/93	57800
42	06/15/93	39500
43	06/24/93	35000
	SUBTOTAL	192300
44	07/01/93	33210
45	07/09/93	39000
46	07/16/93	37000
47	07/23/93	23000
	SUBTOTAL	132210

1X
ORGANICS ANALYSIS DATA SHEET

2014
SAMPLE NO.

LI702E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 06025

Matrix: (soil/water) WATER Lab Sample ID: AS037254

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K5708

Level: (low/med) LOW Date Received: 06/07/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 06/09/93

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

CAS NO.	COMPOUND		
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----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
110-75-8	-----2-Chloroethylvinyl ether	10	U
71-43-2	-----Benzene	5	U
10061-02-6	-----trans-1,3-dichloropropene	5	U
75-25-2	-----Bromoform	5	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
541-73-1	-----1,3-Dichlorobenzene	10	U
12/14DCLB	-----1,2- & 1,4-Dichlorobenzene	10	U
75-69-4	-----Trichlorofluoromethane	10	U

1X
ORGANICS ANALYSIS DATA SHEET

0015
SAMPLE NO.

LI702E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 06025

Matrix: (soil/water) WATER Lab Sample ID: AS037254

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K5708

Level: (low/med) LOW Date Received: 06/07/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 06/09/93

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	<u>UG/L</u>	
O,M CLTOL-----	o & m-Chlorotoluene_____	5	U	
106-43-4-----	p-Chlorotoluene_____	5	U	
88-16-4-----	2-Monochlorobenzotrifluoride_	5	U	
98-15-7-----	3-Monochlorobenzotrifluoride_	5	U	
98-56-6-----	4-Monochlorobenzotrifluoride_	5	U	

0016
SAMPLE NO.

1X
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

LI702E

Lab Name: RECRA ENVIRON Contract: C002412
Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 06025
Matrix: (soil/water) WATER Lab Sample ID: AS037254
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K5708
Level: (low/med) LOW Date Received: 06/07/93
% Moisture: not dec. _____ Date Analyzed: 06/09/93
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1700E

Lab Name: RECRA ENVIRONContract: C002412Lab Code: RECNYCase No.: L093

SAS No.: _____

SDG No.: 06025Matrix: (soil/water) WATERLab Sample ID: AS037252Sample wt/vol: 1000 (g/mL) MLLab File ID: 14752ZLevel: (low/med) LOWDate Received: 06/07/93% Moisture: _____ decanted: (Y/N) NDate Extracted: 06/09/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 06/22/93Injection Volume: 2.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	3	U
106-46-7-----	1,4-Dichlorobenzene	3	U
95-50-1-----	1,2-Dichlorobenzene	3	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
131-11-3-----	Dimethyl Phthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	50	U

FORM I X-1

3/90

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1700E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 06025

Matrix: (soil/water) WATER Lab Sample ID: AS037252

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 14752Z

Level: (low/med) LOW Date Received: 06/07/93

% Moisture: _____ decanted: (Y/N) N Date Extracted: 06/09/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/22/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	10	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	3	U
62-75-9-----	N-Nitrosodimethylamine	10	U
92-87-5-----	Benzidine	80	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	3	U
218-01-9-----	Chrysene	3	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE 1

L1700E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 06025

Matrix: (soil/water) WATER Lab Sample ID: AS037252

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 14752Z

Level: (low/med) LOW Date Received: 06/07/93

% Moisture: _____ decanted: (Y/N) N Date Extracted: 06/09/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/22/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.

COMPOUND

Q

320-60-5-----	Dichlorobenzotrifluorides	10	U
611-19-8-----	alpha,2-Dichlorotoluene	10	U
620-20-2-----	alpha,3-Dichlorotoluene	10	U
104-83-6-----	alpha,4-Dichlorotoluene	10	U
95-73-8-----	2,4-Dichlorotoluene	10	U
118-69-4-----	2,6-Dichlorotoluene	10	U
95-75-0-----	3,4-Dichlorotoluene	10	U
98-07-7-----	a,a,a-trichlorotoluene	10	U
94-99-5-----	alpha,2,4-trichlorotoluene	10	U
102-47-6-----	alpha,3,4-trichlorotoluene	10	U
61878-57-F-----	2,4,5-trichlorotoluene	10	U
236CL3TOL-----	2,3,6-Trichlorotoluene	10	U
CL4TOL-----	Tetrachlorotoluene	10	U
98-87-3-----	alpha,alpha-Dichlorotoluene	10	U
19398-61-9-----	2,5-Dichlorotoluene	10	U
2014-83-7-----	alpha,2,6-trichlorotoluene	10	U

1X
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

L1700E

Lab Name: RECRA ENVIRON Contract: C002412
Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 06025
Matrix: (soil/water) WATER Lab Sample ID: AS037252
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 14752Z
Level: (low/med) LOW Date Received: 06/07/93
% Moisture: _____ decanted: (Y/N) N Date Extracted: 06/09/93
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/22/93
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

00000

N Y S DEC
Wet Chemistry Analysis

Client Sample No.

L1701E

Lab Name: Recra Environmental, Inc.

Lab Code: RECNY Case No.: L093

SDG No.: 06025

Matrix (soil/water): WATER

Lab Sample ID: AS037253

% Solids: 0.0

Date Samp/Recv: 06/07/93 06/07/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics	MG/L	0.0090				420.1	06/15/93

N Y S DEC
Wet Chemistry Analysis

0027

Client Sample No.

L1703E

Lab Name: Recra Environmental, Inc.

Lab Code: RECN Case No.: L093

SDG No.: 06025

Matrix (soil/water): WATER

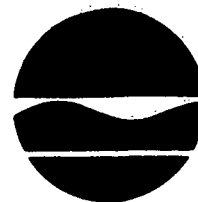
Lab Sample ID: AS037258

% Solids: 0.0

Date Samp/Recv: 06/07/93 06/07/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	4.0	U			160.2	06/09/93
Soluble Organic Carbon	MG/L	5.0				415.1	06/09/93

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233



Thomas C. Jorling
Commissioner

NOV 30 1993

Mr. Albert Zaepfel
Industrial Monitoring Coordinator
Department of Utilities
Niagara Waste Water Plant
1200 Buffalo Avenue
Niagara Falls, NY 14302

Dear Mr. Zaepfel:

RE: 1993 Fourth Quarter Analytical and Flow Results

Enclosed are the Self-Monitoring Data and Compliance Reports for the fourth quarter samples which were collected September 15, 1993 at the Love Canal Leachate Treatment Facility (LCLTF). These reports fulfill the monitoring requirements for the LCLTF Final Waste Water Discharge Permit No. 16. All of the facility and sewer use ordinance parameters are found to be at the working detection limit of the laboratory. Enclosed are copies of the RECRA Environmental, Inc. Analytical Report as backup.

If there are any questions concerning the data, please telephone Ronnie Lee, of my staff, at (518) 457-0927.

Sincerely,

Gerald J. Rider, Jr., P.E.
Chief, Operation, Maintenance & Support Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation

Enclosures

cc: N. Marchelos, City of Niagara Falls
R. Lee, NYSDEC

bcc: w/enc. - P. Buechi, Reg. 9
~~B. Sadowski~~
M. Podd

w/o enc. - M. O'Toole
E. Barcomb

a:zaepfel:RL:et

SIU SELF-MONITORING DATA REPORT
FOR THE CITY OF NIAGARA FALLS

PERMIT NO. _____ 16 _____ QUARTER FOURTH
INDUSTRY NAME LOVE CANAL LEACHATE TREAT. FACILITY PAGE 1 OF 6

PURSUANT TO THE REPORTING REQUIREMENTS FOR THOSE SIU'S REQUIRED TO SUBMIT A QUARTERLY SELF-MONITORING REPORT., THIS REPORT SHALL BE SUBMITTED SUBJECT TO THE FOLLOWING CONDITIONS: THIS REPORT SHALL BE SUBMITTED TO THE CITY QUARTERLY ON OR BEFORE FEBRUARY 28, MAY 31, AUGUST 31, NOVEMBER 30 EACH YEAR. EACH SECTION MUST BE FILLED OUT FOR THOSE PARAMETERS LISTED IN SECTION G OF YOUR WASTEWATER DISCHARGE PERMIT. THE RESULTS MUST BE REPORTED IN CONCENTRATION, MASS, AND ANNUAL AVERAGES FOR ALL PARAMETERS LISTED IN SECTION G OF THE PERMIT. THE SAMPLE LOCATION SHOULD ONLY BE IDENTIFIED AS LISTED ON PAGE TWO (2) OF THE WASTEWATER DISCHARGE PERMIT. PART II OF THE REPORT IS THE COMPLIANCE MONITORING SECTION. ALL VIOLATIONS NOTED IN YOUR QUARTERLY ANALYSIS SHALL BE LISTED HERE. QUARTERLY DATA SHOULD BE COMPARED TO ALL PERMIT, LOCAL ORDINANCE AND FEDERAL STANDARDS. IF NO VIOLATIONS ARE DETECTED, THEN "NO VIOLATIONS" SHOULD APPEAR ON THE REPORT. PURSUANT TO SECTION 40 CFR 403.12g OF THE FEDERAL STANDARDS, ALL VIOLATIONS NOTED MUST BE FOLLOWED UP BY A SAMPLE RECOLLECT AND ANALYSIS AND THE RESULTS SUBMITTED TO THE CITY WITHIN 30 DAYS OF FIRST BECOMING AWARE OF THE VIOLATION.

PURSUANT TO SECTION 40 CFR 403.2 ALL REPORTS SUBMITTED TO THE CITY MUST BE SIGNED BY A COMPANY OFFICIAL.

I CERTIFY THAT I HAVE EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. [Signature] 11/20/93
SIGNED _____

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMIT

Page 2 of 6

SIU PERMIT NO. 16

SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	9/15/93					
24 Hr Flow(MGD)	0.3250					
Monochloro-phenol	<10		<0.00271		<10	<0.00419
Dichloro-phenol	<10		<0.00271		<10	<0.00419
Monochloro-cresol	<10		<0.00271		<10	<0.00419
Trichloro-phenol	<10		<0.00271		<10	<0.00419
Hexachlorocyclohexanes						
PCB's						
Endosulfan						
Mirex						
Endosulfan Sulfate						
Declorane Plus						
Heptachlor						

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 3 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St. EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	9/15/93					
24 Hr Flow(MGD)	0.0325					
Dimethyl Phthalate	<10		<0.00271		<10	<0.00419
Butyl Benzyl Phthalate	<10		<0.00271		<10	<0.00419
Dibutyl Phthalate	<10		<0.00271		<10	<0.00419
Nitrosodiphenylamine	<10		<0.00271		<10	<0.00419
Dichlorobenzenes	<3		<0.00081		<3	<0.00126
Dichlorotoluene	<10		<0.00271		<10	<0.00419
Acenaphthene	<10		<0.00271		<10	<0.00419
Fluoranthene	<3		<0.00081		<3	<0.00126
Chrysene	<3		<0.00081		<3	<0.00126
Naphthalene	<10		<0.00271		<10	<0.00419
Benzo(a)Anthracene	<3		<0.00081		<3	<0.00126
Pyrene	<10		<0.00271		<10	<0.00419
Trichlorobenzene	<10		<0.00271		<10	<0.00419
Trichlorotoluene	<10		<0.00271		<10	<0.00419
Hexachlorobutadiene	<10		<0.00271		<10	<0.00419
Tetrachlorobenzene	-		-		-	-
Hexachlorobenzene	<10		<0.00271		<10	<0.00419
Dichlorobenzo-trifluoride	<10		<0.00271		<10	<0.00419
Phenanthrene	<10		<0.00271		<10	<0.00419

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 4 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN ug/l		RESULTS IN lbs/d		ANNUAL AVG ug/l	ANNUAL AVG lb/d
Date Sampled	9/15/93					
24 Hr Flow(MGD)	0.0325					
Benzene	<5		<0.00136		<5	<0.00210
Carbon Tetra-Chloride	<5		<0.00136		<5	<0.00210
Chlorodibromo-methane	<5		<0.00136		<5	<0.00210
Dichlorobromo-methane	<5		<0.00136		<5	<0.00210
Monochlorobenzene	<5		<0.00136		<5	<0.00210
Dichlorobromo-methane	<5		<0.00136		<5	<0.00210
Chloroform	<5		<0.00136		<3.83	<0.00157
Dichloroethylene	<5		<0.00136		<5	<0.00210
Bromoform	<5		<0.00136		<5	<0.00210
Dichloropropylenes	<5		<0.00136		<5	<0.00210
Ethylbenzene	<5		<0.00136		<5	<0.00210
Tetrachloroethanes	<5		<0.00136		<5	<0.00210
Tetrachloro-ethylene	<5		<0.00136		<5	<0.00210
Toluene	5		<0.00136		<4	<0.00164
Trichloroethanes	<5		<0.00136		<5	<0.00210
Trichloroethylene	<5		<0.00136		<5	<0.00210
Methylene Chloride	<5		<0.00136		<5	<0.00210
Monochlorotoluenes	<5		<0.00136		<5	<0.00210
Monochlorobenzo-trifluoride	<5		<0.00136		<5	<0.00210

PART I SELF MONITORING

SIU PERMIT NAME WASTEWATER DISCHARGE PERMITPage 5 of 6SIU PERMIT NO. 16SAMPLE LOCATION (as per permit) 97th St EFFLUENT

	RESULTS IN mg/l		RESULTS IN lbs/d		ANNUAL AVG mg/l	ANNUAL AVG lb/d
Date Sampled	9/15/93					
24 Hr Flow(MGD)	0.0325					
Total Suspended Solids	4.4		1.193		<4.10	<1.704
Soluble Organic Carbon	4.3		1.166		5.98	2.576
Total Phosphorus	-		-		-	-
Total Phenol	<0.005		<0.001		<0.01	<0.00271
Cadmium	<0.0002		<0.0001		<0.003	<0.001
Chromium	0.019		0.0052		<0.0145	<0.0049
Copper	0.016		0.0043		<0.0130	<0.0044
Lead	<0.002		<0.0005		<0.0025	<0.0010
Mercury	<0.0002		<0.0001		<0.0002	<0.0001
Nickel	<0.040		<0.0108		<0.0350	<0.0122
Zinc	0.027		0.0073		<0.0185	<0.0059
Total Cyanide						
pH (std units)			N/A	N/A	N/A	N/A

PART II COMPLIANCE MONITORING

INDUSTRY NAME LOVE CANAL LEACHATE TREATMENT FACILITY Page 6 of 6

PERMIT NO. 16

[illegible]

* Actual Discharge - List actual analytical results and appropriate units

** Type Limit Violated - List type: A.A. = Annual Avg., D.M. = Daily Max,
L.L. = Local Limit (Ordinance 250.5.1)

Date Prepared: November 29, 1993

NEW YORK STATE DEPARTMENT ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF HAZARDOUS SITE CONTROL
OPERATION, MAINTENANCE AND SUPPORT SECTION

LOVE CANAL LEACHATE TREATMENT FACILITY

FOURTH QUARTER 1993

EFFLUENT

LINE NO.	CALENDAR DATE	FLOW GPD
48	08/03/93	42050
49	08/13/93	45000
50	08/26/93	42750
	SUBTOTAL	129800
51	09/07/93	48000
52	09/15/93	32500
53	09/28/93	42000
	SUBTOTAL	122500
54	10/04/93	48500
55	10/08/93	48500
56	10/13/93	38000
57	10/18/93	49000
58	10/22/93	60000
59	10/25/93	58500
	SUBTOTAL	302500

1X
ORGANICS ANALYSIS DATA SHEET

0016
SAMPLE NO.

L1712E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023

Matrix: (soil/water) WATER Lab Sample ID: AS044969

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7137

Level: (low/med) LOW Date Received: 09/15/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/17/93

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	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
110-75-8	2-Chloroethylvinyl ether	10	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-dichloropropene	5	U
75-25-2	Bromoform	5	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	10	U
12/14DCLB	1,2- & 1,4-Dichlorobenzene	10	U
75-69-4	Trichlorofluoromethane	10	U

1X
ORGANICS ANALYSIS DATA SHEET

0017
SAMPLE NO.

L1712E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023

Matrix: (soil/water) WATER Lab Sample ID: AS044969

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7137

Level: (low/med) LOW Date Received: 09/15/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/17/93

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

O,M CLTOL-----o & m-Chlorotoluene	5	U
106-43-4-----p-Chlorotoluene	5	U
88-16-4-----2-Monochlorobenzotrifluoride	5	U
98-15-7-----3-Monochlorobenzotrifluoride	5	U
98-56-6-----4-Monochlorobenzotrifluoride	5	U

1X
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

L1712E

Lab Name: RECRA ENVIRON Contract: C002412
Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023
Matrix: (soil/water) WATER Lab Sample ID: AS044969
Sample wt/vol: 5.00 (g/mL) ML Lab File ID: K7137
Level: (low/med) LOW Date Received: 09/15/93
% Moisture: not dec. _____ Date Analyzed: 09/17/93
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1X
ORGANICS ANALYSIS DATA SHEET

L1712T

Lab Name: RECRA ENVIRON Contract: C002412
Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023
Matrix: (soil/water) WATER Lab Sample ID: AS044970
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7136
Level: (low/med) LOW Date Received: 09/15/93
% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/17/93
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
540-59-0-----	1,2-Dichloroethene (total)	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	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
110-75-8-----	2-Chloroethylvinyl ether	10	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-dichloropropene	5	U
75-25-2-----	Bromoform	5	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
541-73-1-----	1,3-Dichlorobenzene	10	U
12/14DCLB-----	1,2- & 1,4-Dichlorobenzene	10	U
75-69-4-----	Trichlorofluoromethane	10	U

1X
ORGANICS ANALYSIS DATA SHEET

L1712T

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023

Matrix: (soil/water) WATER Lab Sample ID: AS044970

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K7136

Level: (low/med) LOW Date Received: 09/15/93

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/17/93

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

O,M CLTOL-----o & m-Chlorotoluene	5	U
106-43-4-----p-Chlorotoluene	5	U
88-16-4-----2-Monochlorobenzotrifluoride	5	U
98-15-7-----3-Monochlorobenzotrifluoride	5	U
98-56-6-----4-Monochlorobenzotrifluoride	5	U

1X
ORGANICS ANALYSIS DATA SHEET

L1710E

Lab Name: RECRA ENVIRON Contract: C002412
Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023
Matrix: (soil/water) WATER Lab Sample ID: AS044967
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 15232Y
Level: (low/med) LOW Date Received: 09/15/93
% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/20/93
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/24/93
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	3	U
106-46-7-----	1,4-Dichlorobenzene	3	U
95-50-1-----	1,2-Dichlorobenzene	3	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
111-91-1-----	bis(2-Chloroethoxy)Methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
91-58-7-----	2-Chloronaphthalene	10	U
131-11-3-----	Dimethyl Phthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	50	U

1X
ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

L1710E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023

Matrix: (soil/water) WATER Lab Sample ID: AS044967

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 15232Y

Level: (low/med) LOW Date Received: 09/15/93

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/20/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/24/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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

Q

CAS NO.

COMPOUND

86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	10	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	3	U
62-75-9-----	N-Nitrosodimethylamine	10	U
92-87-5-----	Benzidine	80	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)Anthracene	3	U
218-01-9-----	Chrysene	3	U
117-81-7-----	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0-----	Di-n-Octyl Phthalate	10	U
205-99-2-----	Benzo(b)Fluoranthene	10	U
207-08-9-----	Benzo(k)Fluoranthene	10	U
50-32-8-----	Benzo(a)Pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3-----	Dibenz(a,h)Anthracene	10	U
191-24-2-----	Benzo(g,h,i)Perylene	10	U

1X
ORGANICS ANALYSIS DATA SHEET

L1710E

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023

Matrix: (soil/water) WATER Lab Sample ID: AS044967

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 15232Y

Level: (low/med) LOW Date Received: 09/15/93

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/20/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/24/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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

CAS NO.

COMPOUND

Q

320-60-5-----	Dichlorobenzotrifluorides	10	U
611-19-8-----	alpha,2-Dichlorotoluene	10	U
620-20-2-----	alpha,3-Dichlorotoluene	10	U
104-83-6-----	alpha,4-Dichlorotoluene	10	U
95-73-8-----	2,4-Dichlorotoluene	10	U
118-69-4-----	2,6-Dichlorotoluene	10	U
95-75-0-----	3,4-Dichlorotoluene	10	U
98-07-7-----	a,a,a-trichlorotoluene	10	U
94-99-5-----	alpha,2,4-trichlorotoluene	10	U
102-47-6-----	alpha,3,4-trichlorotoluene	10	U
61878-57-F-----	2,4,5-trichlorotoluene	10	U
236CL3TOL-----	2,3,6-Trichlorotoluene	10	U
CL4TOL-----	Tetrachlorotoluene	10	U
98-87-3-----	alpha,alpha-Dichlorotoluene	10	U
19398-61-9-----	2,5-Dichlorotoluene	10	U
2014-83-7-----	alpha,2,6-trichlorotoluene	10	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

L1710E

Lab Name: RECRA ENVIRON Contract: C002412
Lab Code: RECNY Case No.: L093 SAS No.: _____ SDG No.: 09023
Matrix: (soil/water) WATER Lab Sample ID: AS044967
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 15232Y
Level: (low/med) LOW Date Received: 09/15/93
% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 09/20/93
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/24/93
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	27.65	2	J

NYSDEC - ASP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: RECRA_ENVIRONMENTAL_INC. Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: SDG No.: 09023

Version: ASP91

NYSDEC Sample No.

L1713E
 L1713ED
 L1713ES

Lab Sample ID.

1248
 1249
 1250

Were ICP interelement corrections applied ?

Yes/No YES

Were ICP background corrections applied ?

Yes/No YES

If yes - were raw data generated before
application of background corrections ?

Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the Protocol, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Robert K. Wyeth

Name: ROBERT K. WYETH

Date:

10/13/93

Title: LABORATORY DIRECTOR

COVER PAGE - IN

12/91

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

L1713E

Lab Name: RECRA_ENVIRONMENTAL_INC. Contract: C002412

Lab Code: RECNY Case No.: L093 SAS No.: SDG No.: 09023

Matrix (soil/water): WATER

Lab Sample ID: 1248

Level (low/med): LOW

Date Received: 09/15/93

% 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				NR
7440-36-0	Antimony	5.0	U		F
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium	5.0	U		A
7440-43-9	Cadmium	0.20	U		F
7440-70-2	Calcium				NR
7440-47-3	Chromium	19.0			A
7440-48-4	Cobalt				NR
7440-50-8	Copper	16.0	B		A
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	40.0	U		A
7440-09-7	Potassium				NR
7782-49-2	Selenium	3.0	U	W	F
7440-22-4	Silver	0.40	U		F
7440-23-5	Sodium				NR
7440-28-0	Thallium	3.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	27.0			A
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

LAB_SAMPLE_ID: AS044971-SG000005

N Y S DEC
Wet Chemistry Analysis

Client Sample No.

L1711E

Lab Name: Recra Environmental, Inc.

Contract: _____

Lab Code: RECNY

Case No.: L093

SAS No.: _____

SDG No.: 09023

Matrix (soil/water): WATER

Lab Sample ID: AS044968

% Solids: 0.0

Date Samp/Recv: 09/15/93 09/15/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Total Recoverable Phenolics	MG/L	0.0050	U			420.1	09/16/93

Comments:

N Y S DEC
Wet Chemistry Analysis

0031

Client Sample No.

L1714E

Lab Name: Recra Environmental, Inc.

Contract: _____

Lab Code: RECNY

Case No.: L093

SAS No.: _____

SDG No.: 09023

Matrix (soil/water): WATER

Lab Sample ID: AS044974

% Solids: 0.0

Date Samp/Recv: 09/15/93 09/15/93

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Non-Filterable Residue (103°C)	MG/L	4.4				160.2	09/17/93
Soluble Organic Carbon	MG/L	4.3				415.1	09/28/93

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DIBLNK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931606

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

Lab File ID: 4_0722M

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.9	BJ
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	0.2	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	4	BJ
107-06-2	1,2-Dichloroethane	0.6	BJ
78-93-3	2-Butanone	2	BJ
71-55-6	1,1,1-Trichloroethane	0.1	BJ
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	0.1	BJ
78-87-5	1,2-Dichloropropane	3	BJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	0.1	BJ
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.1	BJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.2	BJ
108-90-7	Chlorobenzene	0.2	BJ
100-41-4	Ethylbenzene	0.4	BJ
100-42-5	Styrene	0.07	BJ
1330-20-7	Xylene (total)	0.9	BJ

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF TECHNICAL SERVICES

CHAIN OF CUSTODY RECORD

SITE NAME: Love Canal

SITE CODE: 9-32-020

DEC REGION: 9

T&A CODE: 6204

VOA (40ml)	BNA; PEST/PCB (1 liter)	METALS (preserved) (500ml/1 liter)	SOIL JARS
Lot # V2-93 2	Lot # P ₃ /PCB 1-93 = 1 Lot # BNA 1-93 = 1		

plus
Lot # V2-93
Trip Blank
2-40ml

BOTTLES RELEASED BY: (Signature, date/time) G. A. D. 7/12/93 4:30 pm

BOTTLES RECEIVED BY: (Signature, date/time) Maurice More 7/14/93 8:00 am

FIELD ID	TYPE	MATRIX	DATE	VOA	BNA PES PCB	MET	LAB ID
7161	GRAB COMP	Groundwater	7/14/93	✓			V1-93
7161	GRAB	"	7/14/93	✓			V2-93
7161	GRAB	"	7/14/93		BNA		BNA 1-93
7161	GRAB	"	7/14/93		Pes/ PCB		Pest/PCB 1-93
TRIP BLANK		WATER	7/12/93	✓			TRIP BLANK V1-93
TRIP BLANK		"	7/12/93	✓			TRIP BLANK V2-93

COLLECTED BY: (Signature, date/time) Maurice More 7/14/93

RELINQUISHED BY: (Signature, date/time) Maurice More 7/15/93

LABORATORY ACCESSION BY: (Signature, date/time) _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 0.1 Name NIAL. RIVER New York Gazetteer No 3.10.2 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 9. FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL 7120

TIME OF SAMPLING

Grab/Composite 9.3 0.7 1.4 0.9 3.5
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 9.3 0.7 1.4 0.9 2.5

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 2.50 Description GROUNDWATER, OVERBURDEN

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐

To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
Source Number _____ County NIA6AMA LOVE CANAL LONG TERM MONITORING
Drainage Basin 0.1 Name NIA6. RIVER New York Gazetteer No. 310.2 Town NIA6AMA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth include units 15 FT

LOCATION : 60 character maximum. PLEASE PRINT.

Love CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well 7205

TIME OF SAMPLING

Grab/Composite 9.3 0.7 1.4 1.0 0.5
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 9.3 0.7 1.4 0.9 5.5

Chlorine Residual (Field)

Sample Temp.

Free 24 CHLORRES

4 °C

Total 23 CHLORRES

Type of Sample (Select from list) 250 Description GROUNDWATER, Bedrock

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☐ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐

To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number (714) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory
Use Only

Lab Accession Number _____

Test Pattern _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORINGSource Number _____ County NIAGARADrainage Basin 011 Name NIAG. RIVER New York Gazetteer No 3102 Town NIAGARA FALLSLatitude 43° 04' 06.00" N Longitude 78° 57' 03.00" WZ Direction, altitude or depth include units 1.4 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING well 7130

TIME OF SAMPLING

Grab/Composite 93 07 14 10 20
Finish Year Month Day Mil hrs. 00-23 MinuteComposite Start 93 07 14 10 10

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list)

250

Description

GROUND WATER OVERBURDEN

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)☐ Turbidity (C)☐ Natural Disaster (E)☐ New Equip. or Proc. (G)☐ Interruption in Chlorination (I)☐ Taste/Odor (B)☐ Color (D)☐ Fishkill (F)☐ Equip. Failure (H)☒ Other (J)☒ Chain of custody form accompanying sample

Report Results

CO

RO

LPHE

To (No. of copies)

FED

INFO

LAB

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. MoorePhone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
- ☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
- ☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
- ☐ Total Coliforms MPN & SPC
Potable Water
- ☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
- ☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
- ☐ Herbicides
- ☐ PCBs
- ☐ Purgeable Halocarbons
- ☐ Purgeable Aromatics
- ☐ Nitrogen/Phosphorus Pesticides
- ☐ Petroleum Products
- ☐ Priority Pollutants
- ☐ Dioxin/Furan
- ☐ Ketones
- ☒ Other LOVE CANAL ANALYSES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
- ☐ Fluoride
- ☐ Nitrate
- ☐ Trace Metals, HSL
- ☐ WQSN
- ☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
- ☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG RIVER New York Gazetteer No 3102 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 1.4 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL 7155

TIME OF SAMPLING						Chlorine Residual (Field)		Sample Temp.
Grab/Composite	<u>9.3</u>	<u>0.7</u>	<u>1.4</u>	<u>1.0</u>	<u>5.0</u>	Free	<u>24</u> CHLORRES	<u>4</u> °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute	Total	<u>23</u> CHLORRES	
Composite Start	<u>9.3</u>	<u>0.7</u>	<u>1.4</u>	<u>1.0</u>	<u>4.0</u>			

Type of Sample (Select from list) 250 Description GROUNDWATER, OVERBURDEN

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink.

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONGTERM MONITORING

Source Number _____ County NIAAGARA

Drainage Basin D1 Name NIAAG. River New York Gazetteer No 3102 Town NIAAG. FALLS

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units 12 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL 8110

TIME OF SAMPLING

Grab/Composite 93 07 14 11 10
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 93 07 14 11 00

Chlorine Residual (Field)

Sample Temp.

Free	24 CHLORRES	4 °C
Total	23 CHLORRES	

Type of Sample (Select from list) 250 Description GROUNDWATER, OVERBURNED

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. River New York Gazetteer No. 3102 Town NIAGARA Falls
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 17 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation SITE #9-32-220

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING well 7161

TIME OF SAMPLING						Chlorine Residual (Field)		Sample Temp.
Grab/Composite	<u>9.3</u>	<u>07</u>	<u>14</u>	<u>1.1</u>	<u>50</u>	Free	<u>24</u> CHLORRES	<u>4</u> °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute	Total	<u>23</u> CHLORRES	
Composite Start	<u>9.3</u>	<u>07</u>	<u>14</u>	<u>1.1</u>	<u>3.0</u>			

Type of Sample (Select from list) 250 Description GROUNDWATER, OVERBURDEN

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 283-0112

MS/MSD This sample

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYSES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43°04'06.00" N Longitude 78°57'03.00" W
Z Direction, altitude or depth, include units 14 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL # 8210

TIME OF SAMPLING

Grab/Composite _____
Finish Year 93 Month 07 Day 14 Mil hrs. 00-23 12 Minute 10
Composite Start Year 93 Month 07 Day 14 Mil hrs. 00-23 12 Minute 00

Chlorine Residual (Field)

Sample Temp.

Free 24 CHLORRES
Total 23 CHLORRES

4 °C

Type of Sample (Select from list) 250 Description GROUNDWATER, BEDROCK

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO _____ RO _____ LPHE _____
To (No. of copies) FED _____ INFO _____ LAB _____

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL

☐ WQSN

☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory
Use Only

Lab Accession Number _____

Test Pattern _____

Sample
Rec'd

Year

Month

Day

Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICESLOVE CANAL LONG TERM MONITORINGSource Number _____ County NIAGARADrainage Basin 01 Name NIAG. River New York Gazetteer No 3102 Town NIAGARA FALLSLatitude 43° 04' 06.00" N Longitude 78° 57' 03.00" WZ Direction, altitude or depth, include units 15 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING WELL 9205

TIME OF SAMPLING

Grab/Composite 93 07 14 12 25
Finish Year Month Day Mil hrs. 00-23 MinuteComposite Start 93 07 14 12 15

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 250 Description GROUNDWATER, Bedrock

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sampleReport Results CO ☐ RO ☐ LPHE ☐To (No. of copies) FED ☐ INFO ☐ LAB ☐Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. MOOREPhone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES, LOVE CANAL
LONG TERM MONITORING

Source Number _____ County NIAGARA

Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units DFT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL REMEDIATION SITE # 9-32-D20

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Deionized WATER BLANK

TIME OF SAMPLING

Grab/Composite 93 07 14 12 45
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 93 07 14 12 35

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 250 Description Deionized WATER BLANK

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL
ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

WEEK 1 LTM
WELL #'S 7120 8110 DI H₂O BLANK
7130 7205
7155 8210
7161 9205
SDG NARRATIVE

Laboratory Name: New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences

Case Number: LCW93
Sample Delivery Group: 0712W (LOAC batches 8013, 8014 and 8012)
Contract Number:
Sample Numbers: 931596 to 931609

VOLATILE: No problems were encountered with VOA analyses except that no blank spike was performed. Spike recoveries in the MS and MSD were within acceptance limits so this was not a critical omission.

The "DI Blank" contained monochloropropenes and low levels of other organics. This was not due to cross-contamination because we have never before detected this class of compound and it is not a target analyte.

The method blank run contained several target analytes at levels less than 1 µg/L, probably due to carryover from the standard run which immediately preceded it. The concentrations were well below the CRQLs for these compounds but we are concerned about this problem and are working on correcting it.

SEMIVOLATILE: Samples were extracted and analyzed within the required holding times. Surrogate recoveries and spike recoveries were outside acceptance limits for the MS and MSD but not for other samples.

PESTICIDE/PCB: The laboratory experienced a problem on one GC column during the analytical sequence with meeting retention time window requirements and endrin breakdown which exceeded the QC limits.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. 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 his designee, as verified by the following signature.

Signature: Arthur H. Richards Name: Dr. Arthur Richards

Date: 8-13-93 Title: LOAC Manager Designee

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DIBLNK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931606

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

Lab File ID: 4_0722M

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 107-05-1	1-Propene, 3-chloro-	1.06	4	JXN
2. 107-05-1	1-Propene, 3-chloro-	1.30	5	JXN
3. 107-05-1	1-Propene, 3-chloro-	1.37	5	JXN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8013HB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931609

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

Lab File ID: 4_07220

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.7	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	0.1	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	0.5	BJ
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.05	BJ
108-90-7	Chlorobenzene	0.06	BJ
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.2	BJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

8013HB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931609

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

Lab File ID: 4_07220

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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.

8013TB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931607

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

Lab File ID: 4_0722N

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.3	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	0.1	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	0.05	BJ
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	0.08	BJ
56-23-5	Carbon Tetrachloride	10	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	0.08	BJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.08	BJ
108-90-7	Chlorobenzene	0.07	BJ
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

8013TB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931607

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

Lab File ID: 4_0722N

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DI BLANK

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LCM93

SAS No.:

SDG No.: 07120

Matrix: (soil/water) WATER

Lab Sample ID: 931606

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >10729

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/20/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/29/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

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

CAS NO.

COMPOUND

Q

108-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl)ether	10.	IU
95-57-8	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
95-50-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-chloroisopropyl)ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
111-91-1	bis(2-Chloroethoxy)methane	10.	IU
120-83-7	2,4-Dichlorophenol	10.	IU
120-82-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-50-7	4-Chloro-3-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	25.	IU
91-58-7	2-Chloronaphthalene	10.	IU
88-74-4	2-Nitroaniline	25.	IU
131-11-3	Dimethylphthalate	10.	IU
208-96-8	Acenaphthylene	10.	IU
606-20-2	2,6-Dinitrotoluene	10.	IU
99-09-2	3-Nitroaniline	25.	IU
83-32-9	Acenaphthene	10.	IU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DIRTANK

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 02120

Matrix: (soil/water) WATER

Lab Sample ID: 931606

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >I0229

Level: (low/med) LOM

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/20/93

Extraction: (Sapf/Cont/Sonc) CONT

Date Analyzed: 7/29/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	Q
51-28-5	2,4-Dinitrophenol	25. IU
100-02-7	4-Nitrophenol	25. IU
132-64-9	Dibenzofuran	10. IU
121-14-2	2,4-Dinitrotoluene	10. IU
84-66-2	Diethylphthalate	4. IU
7005-77-3	4-Chlorophenyl-phenylether	10. IU
86-73-7	Fluorene	10. IU
100-01-6	4-Nitroaniline	25. IU
534-52-1	4,6-Dinitro-2-methylphenol	25. IU
86-30-6	N-Nitrosodiphenylamine (1)	10. IU
101-55-3	4-Bromophenyl-phenylether	10. IU
118-74-1	Hexachlorobenzene	10. IU
87-86-5	Pentachlorophenol	25. IU
85-01-8	Phenanthrene	10. IU
120-12-7	Anthracene	10. IU
86-74-8	Carbazole	10. IU
84-74-2	Di-n-butylphthalate	2. IU
206-44-0	Fluoranthene	10. IU
129-00-0	Pyrene	10. IU
85-68-7	Butylbenzylphthalate	7. IU
91-94-1	3,3'-Dichlorobenzidine	10. IU
56-55-3	Benzo(a)anthracene	10. IU
218-01-9	Chrysene	10. IU
117-81-7	bis(2-Ethylhexyl)phthalate	5. IJB
117-84-0	Di-n-octylphthalate	10. IU
205-99-2	Benzo(b)fluoranthene	10. IU
207-08-9	Benzo(k)fluoranthene	10. IU
50-32-8	Benzo(a)pyrene	10. IU
193-39-5	Indeno(1,2,3-cd)pyrene	10. IU
53-70-3	Dibenzo(a,h)anthracene	10. IU
191-24-2	Benzo(g,h,i)perylene	10. IU

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DIBLANK

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 07120

Matrix: (soil/water) WATER

Lab Sample ID: 931606

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >I0229

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/20/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/29/93

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.86	5.	B
2.	Unknown	16.69	3.	
3. 2605676	Acetic acid, (triphenylphosphoranylidene)-, methyl ester	33.59	14.	B
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DIBLK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931606

Sample wt/vol: 1030 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 07/15/93

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/19/93

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/21/93

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

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

CAS NO.

COMPOUND

Q

319-84-6-----alpha-BHC	0.049	U
319-85-7-----beta-BHC	0.049	U
319-86-8-----delta-BHC	0.049	U
58-89-9-----gamma-BHC (Lindane)	0.049	U
76-44-8-----Heptachlor	0.049	U
309-00-2-----Aldrin	0.049	U
1024-57-3-----Heptachlor epoxide	0.049	U
959-98-8-----Endosulfan I	0.049	U
60-57-1-----Dieldrin	0.097	U
72-55-9-----4,4'-DDE	0.097	U
72-20-8-----Endrin	0.097	U
33213-65-9-----Endosulfan II	0.097	U
72-54-8-----4,4'-DDD	0.097	U
1031-07-8-----Endosulfan sulfate	0.097	U
50-29-3-----4,4'-DDT	0.097	U
72-43-5-----Methoxychlor	0.49	U
53494-70-5-----Endrin ketone	0.097	U
7421-93-4-----Endrin aldehyde	0.097	U
5103-71-9-----alpha-Chlordane	0.049	U
5103-74-2-----gamma-Chlordane	0.049	U
8001-35-2-----Toxaphene	4.9	U
12674-11-2-----Aroclor-1016	0.97	U
11104-28-2-----Aroclor-1221	1.9	U
11141-16-5-----Aroclor-1232	0.97	U
53469-21-9-----Aroclor-1242	0.97	U
12672-29-6-----Aroclor-1248	0.97	U
11097-69-1-----Aroclor-1254	0.97	U
11096-82-5-----Aroclor-1260	0.97	U

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	7120	99	96	98	0	0
02	7130	100	68 *	96	0	1
03	7130RE	101	97	97	0	0
04	7155	98	98	97	0	0
05	7161	100	100	97	0	0
06	7205	100	98	96	0	0
07	8013HB	100	97	95	0	0
08	8013TB	100	97	96	0	0
09	8110	100	93	97	0	0
10	8210	100	99	95	0	0
11	9205	102	100	97	0	0
12	DIBLNK	98	99	95	0	0
13	7161MS	96	97	93	0	0
14	7161MSD	99	91	97	0	0
15	VBLK01	103	100	98	0	0

QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)

SMC2 (BFB) = Bromofluorobenzene (86-115)

SMC3 (DCE) = 1,2-Dichloroethane-d4(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2C
WATER SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LC093

SAS No.:

SDG No.: 07120

Level: (low/med) LOM

	EPA	S1	S2	S3	S4	S5	S6	S7	S8	TOT
	SAMPLE NO.	NBZ #	FRP #	TPH #	PHL #	2FP #	TBP #	2CP #	DCB #	OUT
01	SRLK01	66	67	77	67	69	50	67	62	0
02	SRLK02	70	76	78	57	61	51	66	72	0
03	7161	54	56	21*	44	46	51	50	47	1
04	7161MS	25*	27*	11*	25	25	24	27*	25	4
05	7161MSD	36	37*	19*	35	35	39	37	35	2
06	9205	61	66	75	56	58	58	62	62	0
07	7205	50	46	58	44	44	44	48	39	0
08	8210	61	65	68	59	60	61	63	63	0
09	7155	62	55	77	58	54	57	60	48	0
10	7130	53	55	62	48	46	50	51	71	0
11	7120	71	73	78	67	60	64	68	70	0
12	8110	64	65	77	54	51	53	57	61	0
13	DIRLANK	71	70	67	65	64	55	70	74	0
14	8014RS	57	53	58	54	54	56	56	49	0
15	QCS	69	71	70	68	76	69	69	73	0
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
 S2 (FRP) = 2-Fluorobiphenyl (43-116)
 S3 (TPH) = Terphenyl-d14 (33-141)
 S4 (PHL) = Phenol-d5 (10-110)
 S5 (2FP) = 2-Fluorophenol (21-110)
 S6 (TRP) = 2,4,6-Tribromophenol (10-123)
 S7 (2CP) = 2-Chlorophenol-d4 (33-110) (advisory)
 S8 (DCB) = 1,2-Dichlorobenzene-d4 (16-110) (advisory)

* Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

GC Column(1): RTX-35

ID: 0.53(mm)

GC Column(2): RTX-5

ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	86	85	55*	53*			2
02	7120	102	101	90	92			0
03	7130	106	109	96	99			0
04	7155	114	114	112	112			0
05	7161	94	93	36*	35*			2
06	7161MS	91	90	34*	38*			2
07	7161MSD	94	96	39*	39*			2
08	7205	103	103	94	96			0
09	8012BS	92	91	48*	51*			2
10	8110	104	104	93	103			0
11	8210	103	104	86	96			0
12	9205	100	96	60	101			0
13	DIBLK	104	107	92	89			0

ADVISORY
QC LIMITS
(60-150)
(60-150)

TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix Spike - EPA Sample No.: 7161

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	64.31	129	61-145
Trichloroethene	50.00	0	45.13	90	71-120
Benzene	50.00	0	48.30	97	76-127
Toluene	50.00	0	45.34	91	76-125
Chlorobenzene	50.00	0	48.42	97	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50.00	66.44	133	3	14	61-145
Trichloroethene	50.00	46.86	94	4	14	71-120
Benzene	50.00	49.08	98	1	11	76-127
Toluene	50.00	47.11	94	3	13	76-125
Chlorobenzene	50.00	48.86	98	1	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: 1715R 35 280 1.00
0 9

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7161MS

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931597

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

Lab File ID: 4_0722J

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.4 BJ
67-64-1	Acetone	1 BJ
75-15-0	Carbon Disulfide	10 U
75-35-4	1,1-Dichloroethene	64 B
75-34-3	1,1-Dichloroethane	10 U
540-59-0	1,2-Dichloroethene (total)	10 U
67-66-3	Chloroform	0.1 BJ
107-06-2	1,2-Dichloroethane	10 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	10 U
56-23-5	Carbon Tetrachloride	10 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	45 B
124-48-1	Dibromochloromethane	10 U
79-00-5	1,1,2-Trichloroethane	10 U
71-43-2	Benzene	48 B
10061-02-6	trans-1,3-Dichloropropene	10 U
75-25-2	Bromoform	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
591-78-6	2-Hexanone	10 U
127-18-4	Tetrachloroethene	10 U
79-34-5	1,1,2,2-Tetrachloroethane	10 U
108-88-3	Toluene	45 B
108-90-7	Chlorobenzene	48 B
100-41-4	Ethylbenzene	0.04 BJ
100-42-5	Styrene	10 U
1330-20-7	Xylene (total)	0.1 BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7161MSD

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931598

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

Lab File ID: 4_0722K

Level: (low/med) LOW

Date Received: 07/15/93

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.4	BJ
67-64-1-----	Acetone	17	B
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	66	B
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	0.05	BJ
67-66-3-----	Chloroform	0.1	BJ
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	0.08	BJ
56-23-5-----	Carbon Tetrachloride	10	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	47	B
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	49	B
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	47	B
108-90-7-----	Chlorobenzene	49	B
100-41-4-----	Ethylbenzene	0.06	BJ
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	0.06	BJ

30
WATER SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 02120

Matrix Spike - EPA Sample No.: 2161

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	0.00	19.00	25	112- 89
2-Chlorophenol	75.00	0.00	23.00	30	127-123
1,4-Dichlorobenzene	50.00	0.00	14.00	28 *	136- 97
N-Nitroso-di-n-prop. (1)	50.00	0.00	14.00	27 *	141-116
1,2,4-Trichlorobenzene	50.00	0.00	14.00	28 *	139- 98
4-Chloro-3-methylphenol	75.00	0.00	18.00	24	123- 97
Acenaphthene	50.00	0.00	13.00	26 *	146-118
4-Nitrophenol	75.00	0.00	6.60	8 *	110- 80
2,4-Dinitrotoluene	50.00	0.00	12.00	24	124- 96
Pentachlorophenol	75.00	0.00	16.00	21	9-103
Pyrene	50.00	0.00	8.30	16 *	126-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	75.00	27.00	35	33	42 112- 89
2-Chlorophenol	75.00	30.00	39	26	40 127-123
1,4-Dichlorobenzene	50.00	17.00	33 *	16	28 136- 97
N-Nitroso-di-n-prop. (1)	50.00	19.00	37 *	31	38 141-116
1,2,4-Trichlorobenzene	50.00	17.00	33 *	16	28 139- 98
4-Chloro-3-methylphenol	75.00	27.00	35	37	42 123- 97
Acenaphthene	50.00	17.00	34 *	26	31 146-118
4-Nitrophenol	75.00	18.00	23	96 *	50 110- 80
2,4-Dinitrotoluene	50.00	19.00	37	42 *	38 124- 96
Pentachlorophenol	75.00	25.00	33	44	50 9-103
Pyrene	50.00	15.00	29	57 *	31 126-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of qc limits

RPD: 3 out of 11 outside limits

Spike Recovery: 10 out of 22 outside limits

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2161MS

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 02120

Matrix: (soil/water) WATER

Lab Sample ID: 331597

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >10228

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/28/93

SPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	Q
108-95-2	Phenol	19. I S
111-44-4	bis(2-Chloroethyl)ether	10. III
95-57-8	2-Chlorophenol	23. I S
541-73-1	1,3-Dichlorobenzene	10. III
106-46-7	1,4-Dichlorobenzene	14. I S
95-50-1	1,2-Dichlorobenzene	10. III
95-48-7	2-Methylphenol	10. III
39638-32-9	bis(2-chloroisopropyl)ether	10. III
106-44-5	4-Methylphenol	10. III
621-64-7	N-Nitroso-di-n-propylamine	14. I S
62-72-1	Hexachloroethane	10. III
98-95-3	Nitrobenzene	10. III
78-59-1	Isophorone	10. III
88-75-5	2-Nitrophenol	10. III
105-67-9	2,4-Dimethylphenol	10. III
111-91-1	bis(2-Chloroethoxy)methane	10. III
120-83-2	2,4-Dichlorophenol	10. III
120-82-1	1,2,4-Trichlorobenzene	14. I S
91-20-3	Naphthalene	10. III
106-47-8	4-Chloroaniline	10. III
87-68-3	Hexachlorobutadiene	10. III
59-50-7	4-Chloro-3-methylphenol	16. I S
91-57-6	2-Methylnaphthalene	10. III
77-47-4	Hexachlorocyclopentadiene	10. III
88-06-2	2,4,6-Trichlorophenol	10. III
95-95-4	2,4,5-Trichlorophenol	25. III
91-58-7	2-Chloronaphthalene	10. III
88-74-4	2-Nitroaniline	25. III
131-11-3	Dimethylphthalate	10. III
208-96-8	Acenaphthylene	10. III
606-20-2	2,6-Dinitrotoluene	10. III
99-09-2	3-Nitroaniline	25. III
83-32-9	Acenaphthene	13. I S

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2161MS

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LCM93

SAS No.:

SDG No.: 0212M

Matrix: (soil/water) WATER

Lab Sample ID: 931587

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >10728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Sapf/Cont/Sonc) CONT

Date Analyzed: 7/28/93

SFC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

51-28-5-----	2,4-Dinitrophenol	25.	III
100-02-7-----	4-Nitrophenol	7.	LTS
132-64-3-----	Dibenzofuran	10.	III
121-14-2-----	2,4-Dinitrotoluene	12.	I S
84-66-2-----	Diethylphthalate	10.	III
2005-72-3-----	4-Chlorophenyl-phenylether	10.	III
86-23-7-----	Fluorene	10.	III
100-01-6-----	4-Nitroaniline	25.	III
534-52-1-----	4,6-Dinitro-2-methylphenol	25.	III
86-30-6-----	N-Nitrosodiphenylamine (1)	10.	III
101-55-3-----	4-Bromophenyl-phenylether	10.	III
118-74-1-----	Hexachlorobenzene	10.	III
87-86-5-----	Pentachlorophenol	16.	LTS
85-01-8-----	Phenanthrene	10.	III
120-12-7-----	Anthracene	10.	III
86-74-8-----	Carbazole	10.	III
84-74-2-----	Di-n-butylphthalate	10.	III
206-44-0-----	Fluoranthene	10.	III
129-00-0-----	Pyrene	8.	LTS
85-68-7-----	Butylbenzylphthalate	10.	III
91-94-1-----	3,3'-Dichlorobenzidine	10.	III
56-55-3-----	Benzo(a)anthracene	10.	III
218-01-9-----	Chrysene	10.	III
117-81-7-----	bis(2-Ethylhexyl)phthalate	1.	LTS
117-84-0-----	Di-n-octylphthalate	10.	III
205-99-2-----	Benzo(h)fluoranthene	10.	III
207-08-9-----	Benzo(k)fluoranthene	10.	III
50-37-8-----	Benzo(a)pyrene	10.	III
193-39-5-----	Indeno(1,2,3-cd)pyrene	10.	III
53-70-3-----	Dibenzo(a,h)anthracene	10.	III
191-24-2-----	Benzo(g,h,i)perylene	10.	III

(1) - Cannot be separated from Diphenylamine

18
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2161MSD

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 0212M

Matrix: (soil/water) WATER

Lab Sample ID: 931598

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >J0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/28/93

SPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ng/L or ug/Kg) ug/L

Q

108-85-2	Phenol	27.	S
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	30.	S
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	17.	S
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	19.	S
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	17.	S
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	27.	S
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	17.	S

10
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2161MSD

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LC893

SAS No.:

SDG No.: 07120

Matrix: (soil/water) WATER

Lab Sample ID: 931598

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >J0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Seph/Cont/Sonc) CONT

Date Analyzed: 7/28/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25.	III
100-02-7	4-Nitrophenol	18.	IJS
132-64-9	Dibenzofuran	10.	III
121-14-2	2,4-Dinitrotoluene	19.	I S
84-66-2	Diethylphthalate	10.	III
2005-72-3	4-Chlorophenyl-phenylether	10.	III
86-23-7	Fluorene	10.	III
100-01-6	4-Nitroaniline	25.	III
534-52-1	4,6-Dinitro-2-methylphenol	25.	III
86-30-6	N-Nitrosodiphenylamine (1)	10.	III
101-55-3	4-Bromophenyl-phenylether	10.	III
118-74-1	Hexachlorobenzene	10.	III
87-86-5	Pentachlorophenol	25.	I S
85-01-8	Phenanthrene	10.	III
120-12-7	Anthracene	10.	III
86-74-8	Carbazole	10.	III
84-74-2	Di-n-butylphthalate	10.	III
206-44-0	Fluoranthene	10.	III
129-00-0	Pyrene	15.	I S
85-68-7	Butylbenzylphthalate	10.	III
91-94-1	3,3'-Dichlorobenzidine	10.	III
56-55-3	Benzo(a)anthracene	10.	III
218-01-9	Chrysene	10.	III
117-81-7	bis(2-Ethylhexyl)phthalate	2.	IJB
117-84-0	Di-n-octylphthalate	10.	III
205-99-2	Benzo(b)fluoranthene	10.	III
207-08-9	Benzo(k)fluoranthene	10.	III
50-32-8	Benzo(a)pyrene	10.	III
193-39-5	Indeno(1,2,3-cd)pyrene	10.	III
53-70-3	Dibenzo(a,h)anthracene	10.	III
191-24-2	Benzo(g,h,i)perylene	10.	III

(1) - Cannot be separated from Diphenylamine

30
WATER SEMI-VOLATILE MATRIX SPIKE BLANK RECOVERY

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 02120

Matrix Spike - EPA Sample No.: 801485 (MSBLANK)

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(ng/L)	(ng/L)	(ng/L)	REC #	REC.
Phenol	75.00		45.00	59	112- 89
2-Chlorophenol	75.00		45.00	59	127-123
1,4-Dichlorobenzene	50.00		28.00	56	136- 97
N-Nitroso-di-n-prop. (1)	50.00		30.00	60	141-116
1,2,4-Trichlorobenzene	50.00		29.00	58	139- 98
4-Chloro-3-methylphenol	75.00		39.00	52	123- 97
Acenaphthene	50.00		32.00	63	146-118
4-Nitrophenol	75.00		41.00	54	110- 80
2,4-Dinitrotoluene	50.00		30.00	59	124- 96
Pentachlorophenol	75.00		46.00	61	9-103
Pyrene	50.00		31.00	62	126-127

COMPOUND	SPIKE	MSD	MSD			QC LIMITS	
	ADDED	CONCENTRATION	%	%		RPD	REC.
	(ng/L)	(ng/L)	REC #	RPD #			
Phenol	75.00						112- 89
2-Chlorophenol	75.00						127-123
1,4-Dichlorobenzene	50.00						136- 97
N-Nitroso-di-n-prop. (1)	50.00						141-116
1,2,4-Trichlorobenzene	50.00						139- 98
4-Chloro-3-methylphenol	75.00						123- 97
Acenaphthene	50.00						146-118
4-Nitrophenol	75.00						110- 80
2,4-Dinitrotoluene	50.00						124- 96
Pentachlorophenol	75.00						9-103
Pyrene	50.00						126-127

1) N-Nitroso-di-n-propylamine

1 Column to be used to flag recovery and RPD values with an asterisk
* Values outside of qc limits

RPD: out of outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: MOCLR

Contract:

801485

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 02120

Matrix: (soil/water) WATER

Lab Sample ID: 931608

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >J0729

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/29/93

IPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ng/L or ug/Kg) ng/L

Q

108-95-2-----Phenol	45.	I S
111-44-4-----bis(2-Chloroethyl)ether	10.	III
95-57-8-----2-Chlorophenol	45.	I S
541-73-1-----1,3-Dichlorobenzene	10.	III
106-46-7-----1,4-Dichlorobenzene	28.	I S
95-50-1-----1,2-Dichlorobenzene	10.	III
95-48-7-----2-Methylphenol	10.	III
39638-32-9-----bis(2-chloroisopropyl)ether	10.	III
106-44-5-----4-Methylphenol	10.	III
621-64-7-----N-Nitroso-di-n-propylamine	30.	I S
67-77-1-----Hexachloroethane	10.	III
98-95-3-----Nitrobenzene	10.	III
78-59-1-----Isophorone	10.	III
88-75-5-----2-Nitrophenol	10.	III
105-67-9-----2,4-Dimethylphenol	10.	III
111-91-1-----bis(2-Chloroethoxy)methane	10.	III
120-83-2-----2,4-Dichlorophenol	10.	III
120-82-1-----1,2,4-Trichlorobenzene	29.	I S
91-20-3-----Naphthalene	10.	III
106-47-8-----4-Chloroaniline	10.	III
87-68-3-----Hexachlorobutadiene	10.	III
59-50-7-----4-Chloro-3-methylphenol	39.	I S
91-57-6-----2-Methylnaphthalene	10.	III
77-47-4-----Hexachlorocyclopentadiene	10.	III
88-06-2-----2,4,6-Trichlorophenol	10.	III
95-95-4-----2,4,5-Trichlorophenol	25.	III
91-58-7-----2-Chloronaphthalene	10.	III
88-74-4-----2-Nitroaniline	25.	III
131-11-3-----Dimethylphthalate	10.	III
208-96-8-----Acenaphthylene	10.	III
606-20-2-----2,6-Dinitrotoluene	10.	III
99-09-2-----3-Nitroaniline	25.	III
83-32-9-----Acenaphthene	32.	I S

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8014BS

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 0712M

Matrix: (soil/water) WATER

Lab Sample ID: 931608

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >J0729

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/29/93

SPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ng/L or ug/Kg) ug/L

Q

CAS NO.	COMPOUND		
51-28-5	2,4-Dinitrophenol	25.	UU
100-02-7	4-Nitrophenol	41.	US
132-84-9	Dibenzofuran	10.	UU
121-14-2	2,4-Dinitrotoluene	30.	US
84-66-2	Diethylphthalate	10.	UU
7005-72-3	4-Chlorophenyl-phenylether	10.	UU
86-73-7	Fluorene	10.	UU
100-01-6	4-Nitroaniline	25.	UU
534-52-1	4,6-Dinitro-2-methylphenol	25.	UU
86-30-6	N-Nitrosodiphenylamine (1)	10.	UU
101-55-3	4-Bromophenyl-phenylether	10.	UU
118-74-1	Hexachlorobenzene	10.	UU
87-86-5	Pentachlorophenol	46.	US
85-01-8	Phenanthrene	10.	UU
120-12-7	Anthracene	10.	UU
86-74-8	Carbazole	10.	UU
84-74-2	Di-n-butylphthalate	10.	UU
206-44-0	Fluoranthene	10.	UU
129-00-0	Pyrene	31.	US
85-68-7	Butylbenzylphthalate	10.	UU
91-94-1	3,3'-Dichlorobenzidine	10.	UU
56-55-3	Benzo(a)anthracene	10.	UU
218-01-9	Chrysene	10.	UU
117-81-7	bis(2-Ethylhexyl)phthalate	10.	UU
117-84-0	Di-n-octylphthalate	10.	UU
205-99-2	Benzo(b)fluoranthene	10.	UU
207-08-9	Benzo(k)fluoranthene	10.	UU
50-32-8	Benzo(a)pyrene	10.	UU
193-39-5	Indeno(1,2,3-cd)pyrene	10.	UU
53-70-3	Dibenzo(a,h)anthracene	10.	UU
191-24-2	Benzo(g,h,i)perylene	10.	UU

(1) - Cannot be separated from Diphenylamine

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix Spike - EPA Sample No.: 7161

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0	0.485	97	56-123
Heptachlor	0.500	0	0.444	89	40-131
Aldrin	0.500	0	0.382	76	40-120
Dieldrin	1.000	0	0.925	92	52-126
Endrin	1.000	0	0.994	99	56-121
4,4'-DDT	1.000	0	0.715	72	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
gamma-BHC (Lindane)	0.500	0.490	98	1	15	56-123
Heptachlor	0.500	0.451	90	1	20	40-131
Aldrin	0.500	0.380	76	0	22	40-120
Dieldrin	1.000	0.918	92	0	18	52-126
Endrin	1.000	0.997	100	1	21	56-121
4,4'-DDT	1.000	0.700	70	3	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7161MS

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931597

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 07/15/93

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/19/93

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/21/93

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N

pH:

Sulfur Cleanup: (Y/N) N

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7161MSD

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931598

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 07/15/93

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/19/93

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/21/93

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

3E
WATER PESTICIDE MATRIX SPIKE BLANK RECOVERY

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix Spike Blank - EPA Sample No.: 8012BS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS BLANK CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0	0.497	99	56-123
Heptachlor	0.500	0	0.486	97	40-131
Aldrin	0.500	0	0.482	96	40-125
Dieldrin	1.000	0	0.965	97	52-126
Endrin	1.000	0	0.997	100	56-130
4,4'-DDT	1.000	0	0.954	95	38-127

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8012BS

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 931608

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received: 07/15/93

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/19/93

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/21/93

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

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

CAS NO.

COMPOUND

Q

319-84-6-----alpha-BHC	0.050	U
319-85-7-----beta-BHC	0.050	U
319-86-8-----delta-BHC	0.050	U
58-89-9-----gamma-BHC (Lindane)	0.50	
76-44-8-----Heptachlor	0.49	
309-00-2-----Aldrin	0.48	
1024-57-3-----Heptachlor epoxide	0.050	U
959-98-8-----Endosulfan I	0.050	U
60-57-1-----Dieldrin	0.96	
72-55-9-----4,4'-DDE	0.10	U
72-20-8-----Endrin	1.0	
33213-65-9-----Endosulfan II	0.10	U
72-54-8-----4,4'-DDD	0.10	U
1031-07-8-----Endosulfan sulfate	0.10	U
50-29-3-----4,4'-DDT	0.95	
72-43-5-----Methoxychlor	0.50	U
53494-70-5-----Endrin ketone	0.018	JP
7421-93-4-----Endrin aldehyde	0.035	JP
5103-71-9-----alpha-Chlordane	0.050	U
5103-74-2-----gamma-Chlordane	0.050	U
8001-35-2-----Toxaphene	5.0	U
12674-11-2-----Aroclor-1016	1.0	U
11104-28-2-----Aroclor-1221	2.0	U
11141-16-5-----Aroclor-1232	1.0	U
53469-21-9-----Aroclor-1242	1.0	U
12672-29-6-----Aroclor-1248	1.0	U
11097-69-1-----Aroclor-1254	1.0	U
11096-82-5-----Aroclor-1260	1.0	U

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Lab File ID: 4_0722B

Lab Sample ID: 931604

Date Analyzed: 07/22/93

Time Analyzed: 1152

GC Column: HP5 ID: 0.530(mm)

Heated Purge: (Y/N) N

Instrument ID: HP4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	7120	931604	4_0722H	1637
02	7130	931603	4_0722G	1553
03	7130RE	931603	4_0722P	2143
04	7155	931602	4_0722F	1510
05	7161	931596	4_0722I	1715
06	7205	931601	4_0722E	1424
07	8013HB	931609	4_0722O	2114
08	8013TB	931607	4_0722N	2041
09	8110	931605	4_0722L	1928
10	8210	931600	4_0722D	1340
11	9205	931599	4_0722C	1251
12	DIBLNK	931606	4_0722M	2005
13	7161MS	931597	4_0722J	1819
14	7161MSD	931598	4_0722K	1855

COMMENTS: 1152R 35 280 1.00
0 9

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: 4_0722B

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5 ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	0.7	J
74-83-9	-----Bromomethane	0.7	J
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	0.8	J
75-09-2	-----Methylene Chloride	2	J
67-64-1	-----Acetone	12	
75-15-0	-----Carbon Disulfide	0.6	J
75-35-4	-----1,1-Dichloroethene	0.6	J
75-34-3	-----1,1-Dichloroethane	0.6	J
540-59-0	-----1,2-Dichloroethene (total)	1	J
67-66-3	-----Chloroform	0.7	J
107-06-2	-----1,2-Dichloroethane	0.7	J
78-93-3	-----2-Butanone	3	J
71-55-6	-----1,1,1-Trichloroethane	0.7	J
56-23-5	-----Carbon Tetrachloride	0.4	J
75-27-4	-----Bromodichloromethane	0.6	J
78-87-5	-----1,2-Dichloropropane	0.3	J
10061-01-5	-----cis-1,3-Dichloropropene	0.6	J
79-01-6	-----Trichloroethene	0.7	J
124-48-1	-----Dibromochloromethane	0.7	J
79-00-5	-----1,1,2-Trichloroethane	0.6	J
71-43-2	-----Benzene	0.7	J
10061-02-6	-----trans-1,3-Dichloropropene	0.6	J
75-25-2	-----Bromoform	0.8	J
108-10-1	-----4-Methyl-2-Pentanone	1	J
591-78-6	-----2-Hexanone	1	J
127-18-4	-----Tetrachloroethene	0.6	J
79-34-5	-----1,1,2,2-Tetrachloroethane	0.9	J
108-88-3	-----Toluene	0.7	J
108-90-7	-----Chlorobenzene	0.7	J
100-41-4	-----Ethylbenzene	0.7	J
100-42-5	-----Styrene	0.9	J
1330-20-7	-----Xylene (total)	2	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: 4_0722B

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 07/22/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: MCLR Contract:
 Lab Code: 10263 Case No.: LCM93 SAS No.: SDG No.: 07120
 Lab File ID: >F0728 Lab Sample ID: 8014MB1
 Data Extracted 7/19/93 Extraction: (SepF/Cont/Sonc) CONT
 Data Analyzed: 7/28/93 Time Analyzed: 15:18
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: 88 1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01 7161	931596	>H0728	7/28/93
02 7161MS	931597	>I0728	7/28/93
03 7161MSD	931598	>J0728	7/28/93
04 9205	931599	>L0728	7/28/93
05 7205	931601	>M0728	7/28/93
06 8210	931600	>N0728	7/29/93
07 7155	931602	>E0729	7/29/93
08 8014BS	931608	>J0729	7/29/93
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SALK01

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 0712M

Matrix: (soil/water) WATER

Lab Sample ID: 8014MB1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >F0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Seph/Cont/Sonc) CONT

Date Analyzed: 7/28/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

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

Q

CAS NO.	COMPOUND		
108-95-2	Phenol	10.	IU
111-44-4	bis(2-Chloroethyl)ether	10.	IU
95-57-8	2-Chlorophenol	10.	IU
541-73-1	1,3-Dichlorobenzene	10.	IU
106-46-7	1,4-Dichlorobenzene	10.	IU
95-50-1	1,2-Dichlorobenzene	10.	IU
95-48-7	2-Methylphenol	10.	IU
39638-32-9	bis(2-chloroisopropyl)ether	10.	IU
106-44-5	4-Methylphenol	10.	IU
621-64-7	N-Nitroso-di-n-propylamine	10.	IU
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	IU
78-59-1	Isophorone	10.	IU
88-75-5	2-Nitrophenol	10.	IU
105-67-9	2,4-Dimethylphenol	10.	IU
111-91-1	bis(2-Chloroethoxy)methane	10.	IU
120-83-2	2,4-Dichlorophenol	10.	IU
120-82-1	1,2,4-Trichlorobenzene	10.	IU
91-20-3	Naphthalene	10.	IU
106-47-8	4-Chloroaniline	10.	IU
87-68-3	Hexachlorobutadiene	10.	IU
59-50-7	4-Chloro-3-methylphenol	10.	IU
91-57-6	2-Methylnaphthalene	10.	IU
77-47-4	Hexachlorocyclopentadiene	10.	IU
88-06-2	2,4,6-Trichlorophenol	10.	IU
95-95-4	2,4,5-Trichlorophenol	25.	IU
91-58-7	2-Chloronaphthalene	10.	IU
88-74-4	2-Nitroaniline	25.	IU
131-11-3	Dimethylphthalate	10.	IU
208-96-8	Acenaphthylene	10.	IU
606-20-2	2,6-Dinitrotoluene	10.	IU
99-09-2	3-Nitroaniline	25.	IU
83-32-9	Acenaphthene	10.	IU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: MCLR

Contract:

SBLK01

Lab Code: 10763

Case No.: LCM93

SAS No.:

SDG No.: 07120

Matrix: (soil/water) WATER

Lab Sample ID: 8014MB1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >F0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (SepF/Cont/Song) CONT

Date Analyzed: 7/28/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
51-28-5-----	2,4-Dinitrophenol_____	25.	IU
100-02-7-----	4-Nitrophenol_____	25.	IU
132-64-9-----	Dibenzofuran_____	10.	IU
121-14-2-----	2,4-Dinitrotoluene_____	10.	IU
84-66-2-----	Diethylphthalate_____	10.	IU
2005-77-3-----	4-Chlorophenyl-phenylether__	10.	IU
86-73-7-----	Fluorene_____	10.	IU
100-01-6-----	4-Nitroaniline_____	25.	IU
534-52-1-----	4,6-Dinitro-2-methylphenol__	25.	IU
86-30-6-----	N-Nitrosodiphenylamine (1)___	10.	IU
101-55-3-----	4-Bromophenyl-phenylether__	10.	IU
118-74-1-----	Hexachlorobenzene_____	10.	IU
87-86-5-----	Pentachlorophenol_____	25.	IU
85-01-8-----	Phenanthrene_____	10.	IU
120-12-7-----	Anthracene_____	10.	IU
86-74-8-----	Carbazole_____	10.	IU
84-74-2-----	Di-n-butylphthalate_____	10.	IU
206-44-0-----	Fluoranthene_____	10.	IU
129-00-0-----	Pyrene_____	10.	IU
85-68-7-----	Butylbenzylphthalate_____	10.	IU
91-94-1-----	3,3'-Dichlorobenzidine_____	10.	IU
56-55-3-----	Benzo(a)anthracene_____	10.	IU
218-01-9-----	Chrysene_____	10.	IU
117-81-7-----	bis(2-Ethylhexyl)phthalate___	2.	IJB
117-84-0-----	Di-n-octylphthalate_____	10.	IU
205-99-2-----	Benzo(b)fluoranthene_____	10.	IU
207-08-9-----	Benzo(k)fluoranthene_____	10.	IU
50-32-8-----	Benzo(a)pyrene_____	10.	IU
193-39-5-----	Indeno(1,2,3-cd)pyrene_____	10.	IU
53-70-3-----	Dibenzo(a,h)anthracene_____	10.	IU
191-24-2-----	Benzo(g,h,i)perylene_____	10.	IU

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LCM93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 8014MB1

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >F0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/19/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/28/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.87	9.	B
2. 2605676	Acetic acid, (triphenylphosphoranylidene)-, methyl ester	33.59	16.	B
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

4R
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 02120

Lab File ID: >G0728

Lab Sample ID: 8014MB2

Date Extracted: 7/20/93

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 7/28/93

Time Analyzed: 16:28

Matrix: (soil/water) WATER

Level: (low/med) LOW

Instrument ID: 88 1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	7130	931603	>F0729	7/29/93
02	7120	931604	>G0729	7/29/93
03	8110	931605	>H0729	7/29/93
04	DIRBLANK	931606	>I0729	7/29/93
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

15
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SRLK02

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LCM93

SAS No.:

SDG No.: 07120

Matrix: (soil/water) WATER

Lab Sample ID: 8014MB2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >G0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/20/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/28/93

SPEC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L Q

108-95-2	Phenol	10.	UU
111-44-4	bis(2-Chloroethyl)ether	10.	UU
95-57-8	2-Chlorophenol	10.	UU
541-73-1	1,3-Dichlorobenzene	10.	UU
106-46-7	1,4-Dichlorobenzene	10.	UU
95-50-1	1,2-Dichlorobenzene	10.	UU
95-48-7	2-Methylphenol	10.	UU
39638-32-9	bis(2-chloroisopropyl)ether	10.	UU
106-44-5	4-Methylphenol	10.	UU
621-64-7	N-Nitroso-di-n-propylamine	10.	UU
67-72-1	Hexachloroethane	10.	UU
98-95-3	Nitrobenzene	10.	UU
78-59-1	Isophorone	10.	UU
88-75-5	2-Nitrophenol	10.	UU
105-67-9	2,4-Dimethylphenol	10.	UU
111-91-1	bis(2-Chloroethoxy)methane	10.	UU
120-83-2	2,4-Dichlorophenol	10.	UU
120-82-1	1,2,4-Trichlorobenzene	10.	UU
91-20-3	Naphthalene	10.	UU
106-47-8	4-Chloroaniline	10.	UU
87-68-3	Hexachlorobutadiene	10.	UU
59-50-7	4-Chloro-3-methylphenol	10.	UU
91-57-6	2-Methylnaphthalene	10.	UU
77-47-4	Hexachlorocyclopentadiene	10.	UU
88-06-2	2,4,6-Trichlorophenol	10.	UU
95-95-4	2,4,5-Trichlorophenol	25.	UU
91-58-7	2-Chloronaphthalene	10.	UU
88-74-4	2-Nitroaniline	25.	UU
131-11-3	Dimethylphthalate	10.	UU
208-96-8	Acenaphthylene	10.	UU
606-20-2	2,6-Dinitrotoluene	10.	UU
99-09-2	3-Nitroaniline	25.	UU
83-32-9	Acenaphthene	10.	UU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: MCLR

Contract:

SRLK02

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 071201

Matrix: (soil/water) WATER

Lab Sample ID: 8014MB2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >G0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/20/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 7/28/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	25.	III	
100-02-7-----	4-Nitrophenol	25.	III	
132-64-9-----	Dibenzofuran	10.	III	
121-14-2-----	2,4-Dinitrotoluene	10.	III	
84-66-2-----	Diethylphthalate	10.	III	
7005-72-3-----	4-Chlorophenyl-phenylether	10.	III	
86-73-7-----	Fluorene	10.	III	
100-01-6-----	4-Nitroaniline	25.	III	
534-52-1-----	4,6-Dinitro-2-methylphenol	25.	III	
86-30-6-----	N-Nitrosodiphenylamine (1)	10.	III	
101-55-3-----	4-Bromophenyl-phenylether	10.	III	
118-74-1-----	Hexachlorobenzene	10.	III	
87-86-5-----	Pentachlorophenol	25.	III	
85-01-8-----	Phenanthrene	10.	III	
120-12-7-----	Anthracene	10.	III	
86-74-8-----	Carbazole	10.	III	
84-74-2-----	Di-n-butylphthalate	10.	III	
206-44-0-----	Fluoranthene	10.	III	
129-00-0-----	Pyrene	10.	III	
85-68-7-----	Butylbenzylphthalate	10.	III	
91-94-1-----	3,3'-Dichlorobenzidine	10.	III	
56-55-3-----	Benzo(a)anthracene	10.	III	
218-01-9-----	Chrysene	10.	III	
117-81-7-----	bis(2-Ethylhexyl)phthalate	1.	IJB	
117-84-0-----	Di-n-octylphthalate	10.	III	
205-99-2-----	Benzo(b)fluoranthene	10.	III	
207-08-9-----	Benzo(k)fluoranthene	10.	III	
50-32-8-----	Benzo(a)pyrene	10.	III	
193-39-5-----	Indeno(1,2,3-cd)pyrene	10.	III	
53-70-3-----	Dibenzo(a,h)anthracene	10.	III	
191-24-2-----	Benzo(g,h,i)perylene	10.	III	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK02

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 07120

Matrix: (soil/water) WATER

Lab Sample ID: 8014MB2

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >G0728

Level: (low/med) LOW

Date Received: 7/15/93

% Moisture:

Date Extracted: 7/20/93

Extraction: (Sep/Cont/Sonc) CONT

Date Analyzed: 7/28/93

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 928972	13-Hexen-1-ol, (E)- (8CI9CI)	5.02	4.	B
2.	Unknown	8.87	6.	B
3. 2605676	Acetic acid, (triphenylphosphoranylidene)-, methyl ester	33.59	16.	B
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Lab Sample ID: 8012MB

Lab File ID:

Matrix: (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/19/93

Date Analyzed (1): 07/21/93

Date Analyzed (2): 07/21/93

Time Analyzed (1): 1427

Time Analyzed (2): 1427

Instrument ID (1): 5880C7

Instrument ID (2): 5880C8

GC Column (1): RTX-35 ID: 0.53 (mm) GC Column (2): RTX-5 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	7120	931604	07/22/93	07/22/93
02	7130	931603	07/22/93	07/22/93
03	7155	931602	07/22/93	07/22/93
04	7161	931596	07/21/93	07/21/93
05	7161MS	931597	07/21/93	07/21/93
06	7161MSD	931598	07/21/93	07/21/93
07	7205	931601	07/22/93	07/22/93
08	8012BS	931608	07/21/93	07/21/93
09	8110	931605	07/22/93	07/22/93
10	8210	931600	07/21/93	07/21/93
11	9205	931599	07/21/93	07/21/93
12	DIBLK	931606	07/21/93	07/21/93

COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0712W

Matrix: (soil/water) WATER

Lab Sample ID: 8012MB

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received:

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/19/93

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 07/21/93

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.

COMPOUND

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

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0712W

Lab File ID (Standard): 4_0722A

Date Analyzed: 07/22/93

Instrument ID: HP4

Time Analyzed: 1018

GC Column: HP5

ID: 0.530(mm)

Heated Purge: (Y/N) N

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	96522	2.98	672176	5.75	343376	13.26
UPPER LIMIT	193044	3.48	1344352	6.25	686752	13.76
LOWER LIMIT	48261	2.48	336088	5.25	171688	12.76
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 7120	93260	3.02	639290	5.82	354198	13.26
02 7130	103851	3.01	710089	5.84	361574	13.29
03 7130RE	103094	2.96	732331	5.73	384631	13.26
04 7155	100188	3.00	690324	5.80	373430	13.26
05 7161	100344	3.01	699973	5.83	346768	13.29
06 7205	102168	3.00	697573	5.80	372776	13.26
07 8013HB	105495	2.96	728826	5.75	386738	13.24
08 8013TB	107567	2.96	761913	5.73	403496	13.24
09 8110	100696	2.96	715546	5.73	386478	13.26
10 8210	98182	2.96	683022	5.75	365364	13.26
11 9205	99633	2.96	684316	5.75	359213	13.26
12 DIBLNK	113389	3.00	783084	5.80	406043	13.26
13 7161MS	108327	3.00	746601	5.82	387885	13.28
14 7161MSD	106686	3.00	747084	5.80	402566	13.28
15 VBLK01	102018	2.96	717088	5.73	361889	13.24

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

88
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: MCLR

Contract:

Lab Code: 10263

Case No.: LCM93

SAS No.:

SDG No.: 02120

Lab File ID (Standard): >E0728

Date Analyzed: 7/28/93

Instrument ID: 88 1

Time Analyzed: 13:45

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT	AREA #	RT	AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	13309.	10.67	50682.	14.53	24895.	20.05
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	26618.		101364.		49790.	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	6655.		25341.		12448.	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE						
NO.						
=====	=====	=====	=====	=====	=====	=====
01 SBLK01	10126.	10.67	37688.	14.52	18711.	20.04
02 SBLK02	11709.	10.67	42156.	14.52	21229.	20.05
03 7161	10843.	10.66	38107.	14.51	18805.	20.04
04 7161MS	12491.	10.67	47204.	14.52	23345.	20.05
05 7161MSD	11819.	10.67	44177.	14.52	22307.	20.04
06 19205	7886.	10.67	28294.	14.52	14400.	20.05
07 7205	10480.	10.64	39370.	14.51	19251.	20.05
08 18210	12583.	10.57	47973.	14.49	23640.	20.04
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

80
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LCM93

SAS No.:

SDG No.: 07120

Lab File ID (Standard): >E0728

Date Analyzed: 7/28/93

Instrument ID: 88 1

Time Analyzed: 13:45

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT	AREA #	RT	AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	41325.	24.64	28581.	33.01	24862.	37.19
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	82650.		57162.		49724.	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	20663.		14291.		12431.	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE						
NO.						
=====	=====	=====	=====	=====	=====	=====
01 SBLK01	32997.	24.63	23976.	33.00	20815.	37.17
02 SBLK02	34238.	24.63	25200.	33.00	22293.	37.18
03 7161	30461.	24.62	23415.	32.99	21090.	37.18
04 7161MS	39825.	24.63	28399.	33.00	24530.	37.18
05 7161MSD	36915.	24.63	27584.	32.99	24415.	37.18
06 9205	24632.	24.64	17471.	33.00	13214.	37.18
07 7205	32261.	24.64	23661.	33.00	20155.	37.18
08 8210	39066.	24.64	26919.	33.00	25064.	37.18
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

RR
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: WCLR

Contract:

Lab Code: 18263

Case No.: LCW93

SAS No.:

SDG No.: 07120

Lab File ID (Standard): >D0729

Date Analyzed: 7/29/93

Instrument ID: RR 1

Time Analyzed: 10:58

	IS1(DCB)		IS2(NPT)		IS3(ANT)	
	AREA #	RT	AREA #	RT	AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	15608.	10.70	59116.	14.55	30191.	20.07
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	31216.		118232.		60382.	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	7804.		29558.		15096.	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE						
NO.						
=====	=====	=====	=====	=====	=====	=====
0112155	14880.	10.68	55822.	14.53	27473.	20.05
0212130	13594.	10.69	51393.	14.54	25699.	20.07
0312120	15098.	10.68	59161.	14.53	30936.	20.06
0418110	15403.	10.67	57947.	14.52	30152.	20.05
051DI BLANK	10828.	10.68	41179.	14.53	22110.	20.06
0618014BS	18310.	10.68	66487.	14.54	33349.	20.06
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d6

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk

RC
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: MCLR

Contract:

Lab Code: 10763

Case No.: LCM93

SAS No.:

SDG No.: 07120

Lab File ID (Standard): >D0729

Date Analyzed: 7/29/93

Instrument ID: 88 1

Time Analyzed: 10:58

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT	AREA #	RT	AREA #	RT
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	48941.	24.67	31292.	33.04	26493.	37.22
=====	=====	=====	=====	=====	=====	=====
UPPER LIMIT	97882.		63584.		52986.	
=====	=====	=====	=====	=====	=====	=====
LOWER LIMIT	24471.		15896.		13247.	
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE						
NO.						
=====	=====	=====	=====	=====	=====	=====
0112155	42896.	24.63	21804.	33.00	17095.	37.19
0212130	41733.	24.66	23848.	33.01	19469.	37.20
0312120	52989.	24.64	35874.	33.00	27974.	37.19
0418110	45794.	24.64	21972.	33.00	16284.	37.18
051DIRLANK	38603.	24.64	29160.	33.00	24097.	37.19
0618014RS	56942.	24.65	40422.	33.01	35722.	37.19
071						
081						
091						
101						
111						
121						
131						
141						
151						
161						
171						
181						
191						
201						
211						
221						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

* Column used to flag internal standard area values with an asterisk

FEDERAL

EXPRESS

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE.
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS

well 2:342198850

AIRBILL NUMBER



YOUR FEDERAL EXPRESS ACCOUNT NUMBER

DATE

FROM (Your Name)

COMPANY DEPARTMENT/FLOOR NO.

STREET ADDRESS

CITY STATE

TO (Recipient's Name)

COMPANY DEPARTMENT/FLOOR NO.

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

CITY STATE

AIRBILL NO. 342198850

ZIP ACCURATE ZIP CODE REQUIRED FOR CORRECT INVOICING

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM CARRIAGE HEREOF. F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES NOT CARRY CARGO LIABILITY INSURANCE.

ZIP ACCURATE ZIP CODE REQUIRED FOR OVERNIGHT DELIVERY

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

PAYMENT ☒ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card

☐ Cash in Advance Account Number/Credit Card Number

SERVICES CHECK ONLY ONE BOX

PRIORITY 1
☒ (OVERNIGHT PACKAGES) (Up to 70 LBS.)

STANDARD AIR
☐ DELIVERY 2ND BUSINESS DAY FOLLOWING PICK-UP (Up to 70 LBS.)

ORM'S AND RADIOACTIVE MATERIAL ONLY

"OVERNIGHT" IS NEXT BUSINESS DAY (MONDAY THROUGH FRIDAY); TWO DAYS FROM ALASKA/HAWAII. SATURDAY DELIVERY AVAILABLE IN CONTINENTAL U.S. SEE "SPECIAL HANDLING."

DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED

1 ☐ HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE. RECIPIENT'S PHONE NUMBER IS REQUIRED.

2 ☒ DELIVER

3 ☒ SATURDAY SERVICE REQUIRED (See Reverse (Extra charge applies for delivery))

4 ☐ RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only, extra charge)

5 ☐ SSS (Signature Security Service required, extra charge applies)

6 ☐ DRY ICE _____ LBS.

7 ☐ OTHER SPECIAL SERVICE _____

8 ☐

9 ☐

PACKAGES	WEIGHT	DECLARED VALUE	Q/S
1	35		
TOTAL	TOTAL	TOTAL	

RECEIVED AT
SHIPPER'S DOOR
☐ REGULAR STOP
☒ ON-CALL STOP
☐ F.E.C. LOC.

Federal Express Corporation Employee No. _____

DATE/TIME For Federal Express Use _____

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

AGT/PRO ADVANCE ORIGIN

AGT/PRO ADVANCE DESTINATION

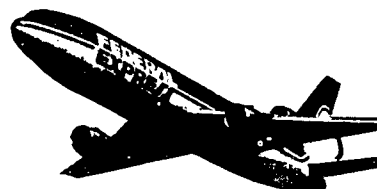
OTHER

TOTAL CHARGES

PART #2041730764

REVISION DATE 2/83 \$

PRINTED U.S.A.



SHIPPER'S COPY

1. In tendering the shipment for carriage the shipper agrees to these TERMS AND CONDITIONS OF CONTRACT which no agent or employee of the parties may alter and that this Federal Express Airbill is NON-NEGOTIABLE and has been prepared by him or on his behalf by Federal Express.

2. The shipper agrees that carriage is subject to terms and conditions of contract stated herein and those terms and conditions which are also stated in the most recent Federal Express Service Guide, which is available for inspection and incorporated into this contract by reference.

3. In tendering the shipment for carriage, THE SHIPPER WARRANTS that the shipment is packaged adequately to protect the enclosed goods and to insure safe transportation with ordinary care and handling, and that each package is appropriately labeled and is in good order (except as noted) for carriage as specified.

4. When the destination of the shipment is not within the Federal Express air terminal zone as listed in the most recent Federal Express Service Guide, Federal Express makes no commitment with respect to time of delivery of the shipment.

5. In the event of international carriage of any shipment hereunder, the rules relating to liability established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air signed at Warsaw, Poland on October 12, 1929 shall apply to the carriage insofar as the same is governed thereby.

6. **DECLARED VALUE AND LIMITATION OF LIABILITY. THE LIABILITY OF FEDERAL EXPRESS IS LIMITED TO THE SUM OF \$100.00** unless a higher value is declared for carriage herein and a greater charge paid at the rate of 30¢ per \$100.00 value. The maximum higher declared value is \$5000.00. Shipments containing items of extraordinary value, including, but not limited to, drawings, paintings, sculptures, porcelain, ceramics, furs, fur clothing, fur trimmed clothing, jewelry, watches, gems, stones (precious or semi-precious, cut or uncut), industrial diamonds, costume jewelry, precious metals, gold, silver, (bullion, dust or precipitates), platinum (except as an integral part of electronic machinery), money, currency, coins, trading stamps, stocks, bonds, cash letters (or their equivalent) or other extraordinary valuable items, are limited to a maximum declared value of \$500.00. When multiple packages are placed on a single airbill but the shipper has not specified the declared value of each individual package, the declared value for each individual package will be determined by dividing the total declared value on the airbill by the number of packages indicated on the airbill, subject to a \$100.00 minimum declared value per individual package. The liability of Federal Express is limited to the declared value of the shipment or the amount of loss or damage actually sustained, whichever is lower.

Federal Express is not liable for loss, damage, delay, mis-delivery or non-delivery not caused by its own negligence or any loss, damage, delay, mis-delivery or non-delivery caused by the act, default or omission of the shipper, consignee, or any other party who claims interest in the shipment, the nature of the shipment or any defect, characteristic of inherent vice thereof; violation by the shipper or consignee of any of the conditions of contract contained in this airbill or in the Federal Express Service Guide, including, but not limited to, improper or insufficient packing, securing, marking or addressing, or failure to observe any of the rules relating to shipments not acceptable for transportation or shipments acceptable only under

certain conditions; acts of God, perils of the air, public enemies, public authorities acting with actual or apparent authority, authority of law, acts or omissions of customs or quarantine officials, riots, strikes or other local disputes, civil commotions, hazards incident to a state of war, weather conditions or mechanical delay of the aircraft or acts or omissions of any person other than FEC, including compliance with delivery instructions from the shipper or consignee. FEC shall not be liable for the loss of articles loaded and sealed in packages by the shipper provided the seal is unbroken at the time of delivery and the package retains its basic integrity. **FEDERAL EXPRESS SHALL NOT BE LIABLE IN ANY EVENT FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR INCOME WHETHER OR NOT FEDERAL EXPRESS HAD KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED.**

7. **CLAIMS. WRITTEN NOTICE OF LOSS DUE TO DAMAGE, SHORTAGE OR DELAY MUST BE REPORTED BY THE SHIPPER WITHIN 15 DAYS AFTER THE DELIVERY OF THE SHIPMENT. WRITTEN NOTICE OF LOSS DUE TO NON-RECEIPT OF THE SHIPMENT OR CARRIAGE.** Written notification will be considered to have been made if the shipper calls and notifies the Customer Service Department at 800/238-5355 (in Tennessee 800/542-5171) and as soon as practicable thereafter files a written notification. Documentation of all claims other than overcharge claims must be submitted in writing to FEC within ninety (90) days after receipt of written notification. No claim for damage will be entertained until all transportation charges have been paid. The amount of a claim may not be deducted from the transportation charges. Receipt of the shipment by the consignee without written notification of damage on the delivery receipt shall be prima facie evidence that the shipment was delivered in good condition, except that in the case of claims for concealed damage which is not discovered at the time of delivery, the shipper shall notify FEC in writing as promptly as possible after the discovery thereof and in any event not later than 15 days from the date of delivery. The shipper must make the original shipping cartons and packing available for inspection by FEC. Claims for overcharges and refunds must be made in writing to FEC within twelve (12) months of the billing date. All claims must be filed by the shipper.

8. All shipments are subject to inspection by FEC, including but not limited to, opening the shipment. However, FEC is not obligated to perform such inspection.

9. C.O.D. services are not available and a C.O.D. shipment sent in error will be delivered as a normal pre-paid or collect shipment.

10. Federal Express carries no cargo liability insurance but maintains a separate fund for the satisfaction of cargo claims which may arise out of the carriage of cargo pursuant to the conditions of contract contained herein and in the most recent Federal Express Service Guide.

11. Notwithstanding the shipper's instructions to the contrary, the shipper shall be primarily liable for all costs and expenses related to the shipment of the package, and for costs incurred in either returning the shipment to the shipper or warehousing the shipment pending disposition.

12. Saturday Delivery: Recipient's phone number is required.

13. Federal Express assumes no responsibility for billing disputes resulting from inaccuracies contained in, or omissions from, the airbill.



MULTIPLE PACKAGE SHIPMENT LABELS

SHIPMENT DATE	
MASTER AIRBILL NUMBER	

2 3
OF

6	3	9	2	5	5	0	0	5	3
---	---	---	---	---	---	---	---	---	---

DESCRIPTION _____

3 3
OF

6	3	9	2	5	5	0	0	6	2
---	---	---	---	---	---	---	---	---	---

DESCRIPTION _____

____ OF ____

6	3	9	2	5	5	0	0	7	1
---	---	---	---	---	---	---	---	---	---

DESCRIPTION _____

____ OF ____

6	3	9	2	5	5	0	0	8	7
---	---	---	---	---	---	---	---	---	---

DESCRIPTION _____

____ OF ____

6	3	9	2	5	5	0	0	9	6
---	---	---	---	---	---	---	---	---	---

DESCRIPTION _____

FEDERAL EXPRESS

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN RANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS.

AIRBILL NUMBER

342198861



YOUR FEDERAL EXPRESS ACCOUNT NUMBER

DATE

TO (Recipient's Name)

If Hold For Pick-Up or Saturday Delivery,
Recipient's Phone Number

FROM (Your Name)

COMPANY

DEPARTMENT/FLOOR NO.

COMPANY

DEPARTMENT/FLOOR NO.

STREET ADDRESS

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

CITY

STATE

CITY

STATE

AIRBILL NO.

342198861

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT INVOICING

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM
CARRIAGE HEREOF. F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A
HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES
NOT CARRY CARGO LIABILITY INSURANCE.

ZIP ACCURATE ZIP CODE REQUIRED
FOR OVERNIGHT DELIVERY

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card

☐ Cash In Advance

Account Number/Credit Card Number

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES

CHECK ONLY ONE BOX

DELIVERY AND SPECIAL HANDLING

CHECK SERVICES REQUIRED

PACKAGES

WEIGHT

DECLARED
VALUE

O/S

PRIORITY 1

☐ (OVERNIGHT PACKAGES)
(Up to 70 LBS.)

1 ☐ HOLD FOR PICK-UP AT FOLLOWING
FEDERAL EXPRESS LOCATION SHOWN
IN SERVICE GUIDE. RECIPIENT'S
PHONE NUMBER IS REQUIRED

2 ☐ DELIVER

3 ☐ SATURDAY SERVICE REQUIRED
(See Reverse (Extra charge applies for delivery.)

4 ☐ RESTRICTED ARTICLES SERVICE (P-1 and
Standard Air Packages only, extra charge)

5 ☐ SSS (Signature Security Service
required, extra charge applies)

6 ☐ DRY ICE LBS

7 ☐ OTHER SPECIAL SERVICE

8 ☐

9 ☐

RECEIVED AT
SHIPPER'S DOOR
☐ REGULAR STOP
☐ ON-CALL STOP
☐ F.E.C. LOC.

Federal Express Corporation Employee No.

DATE/TIME For Federal Express Use

AGT/PRO

ADVANCE ORIGIN

AGT/PRO

ADVANCE DESTINATION

OTHER

TOTAL CHARGES

STANDARD AIR

☐ DELIVERY 2ND BUSINESS
DAY FOLLOWING PICK-UP
(Up to 70 LBS.)

ORM'S AND
RADIOACTIVE
MATERIAL ONLY

"OVERNIGHT" IS NEXT BUSINESS DAY
(MONDAY THROUGH FRIDAY); TWO DAYS
FROM ALASKA/HAWAII. SATURDAY DELIVERY
AVAILABLE IN CONTINENTAL U.S.
SEE "SPECIAL HANDLING."



PART
#2041730764
REVISION DATE
2/83 S
PRINTED U.S.A.

SHIPPER'S COPY

1. In tendering the shipment for carriage the shipper agrees to these **TERMS AND CONDITIONS OF CONTRACT** which no agent or employee of the parties may alter and that this Federal Express Airbill is **NON-NEGOTIABLE** and has been prepared by him or on his behalf by Federal Express.

2. The shipper agrees that package is subject to terms and conditions of contract stated herein and those terms and conditions which are also stated in the most recent Federal Express Service Guide, which is available for inspection and incorporated into this contract by reference.

3. In tendering the shipment for carriage **THE SHIPPER WARRANTS** that the shipment is packaged adequately to protect the enclosed goods and to insure safe transportation with ordinary care and handling, and that each package is appropriately labeled and is in good order (except as noted) for carriage as specified.

4. When the destination of the shipment is not within the Federal Express air terminal zone as listed in the most recent Federal Express Service Guide, Federal Express makes no commitment with respect to time of delivery of the shipment.

5. In the event of international carriage of any shipment hereunder, the rules relating to liability established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air signed at Warsaw, Poland on October 12, 1929 shall apply to the carriage insofar as the same is governed thereby.

6. **DECLARED VALUE AND LIMITATION OF LIABILITY. THE LIABILITY OF FEDERAL EXPRESS IS LIMITED TO THE SUM OF \$100.00** unless a higher value is declared for carriage herein and a greater charge paid at the rate of 30¢ per \$100.00 value. The maximum higher declared value is \$5000.00. Shipments containing items of extraordinary value, including, but not limited to, drawings, paintings, sculptures, porcelain, ceramics, furs, fur clothing, fur trimmed clothing, jewelry, watches, gems, stones (precious or semi-precious, cut or uncut), industrial diamonds, costume jewelry, precious metals, gold, silver, (bulion, dust or precipitates), platinum (except as an integral part of electronic machinery), money, currency, coins, trading stamps, stocks, bonds, cash letters (or their equivalent) or other extraordinary valuable items, are limited to a maximum declared value of \$500.00. When multiple packages are placed on a single airbill but the shipper has not specified the declared value of each individual package, the declared value for each individual package will be determined by dividing the total declared value on the airbill by the number of packages indicated on the airbill, subject to a \$100.00 minimum declared value per individual package. The liability of Federal Express is limited to the declared value of the shipment or the amount of loss or damage actually sustained, whichever is lower.

Federal Express is not liable for loss, damage, delay, mis-delivery or non-delivery not caused by its own negligence or any loss, damage, delay, mis-delivery or non-delivery caused by the act, default or omission of the shipper, consignee, or any other party who claims interest in the shipment, the nature of the shipment or any defect, characteristic of inherent vice thereof, violation by the shipper or consignee of any of the conditions of contract contained in this airbill or in the Federal Express Service Guide, including, but not limited to, improper or insufficient packing, securing, marking or addressing or failure to observe any of the rules relating to shipments not acceptable for transportation or shipments acceptable only under

certain conditions; acts of God, perils of the air, public enemies, public authorities acting with actual or apparent authority, authority of law, acts or omissions of customs or quarantine officials, riots, strikes or other local disputes, civil commotions, hazards incident to a state of war, weather conditions or mechanical delay of the aircraft or acts or omissions of any person other than FEC, including compliance with delivery instructions from the shipper or consignee. FEC shall not be liable for the loss of articles loaded and sealed in packages by the shipper provided the seal is unbroken at the time of delivery and the package retains its basic integrity. **FEDERAL EXPRESS SHALL NOT BE LIABLE IN ANY EVENT FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR INCOME WHETHER OR NOT FEDERAL EXPRESS HAD KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED.**

7. **CLAIMS. WRITTEN NOTICE OF LOSS DUE TO DAMAGE, SHORTAGE OR DELAY MUST BE REPORTED BY THE SHIPPER WITHIN 15 DAYS AFTER THE DELIVERY OF THE SHIPMENT. WRITTEN NOTICE OF LOSS DUE TO NON-RECEIPT OF THE SHIPMENT OR CARRIAGE.** Written notification will be considered to have been made if the shipper calls and notifies the Customer Service Department at 604/238-5355 (in Tennessee 800/542-1171) and as soon as practicable thereafter files a written notification. Documentation of all claims other than overcharge claims must be submitted in writing to FEC within ninety (90) days after receipt of written notification. No claim for damage will be entertained until all transportation charges have been paid. The amount of a claim may not be deducted from the transportation charges. Receipt of the shipment by the consignee without written notification of damage on the delivery receipt shall be prima facie evidence that the shipment was delivered in good condition except that in the case of claims for concealed damage which is not discovered at the time of delivery, the shipper shall notify FEC in writing as promptly as possible after the discovery thereof and in any event not later than 15 days from the date of delivery. The shipper must make the original shipping cartons and packing available for inspection by FEC. Claims for overcharges and refunds must be made in writing to FEC within twelve (12) months of the billing date. All claims must be filed by the shipper.

8. All shipments are subject to inspection by FEC, including but not limited to, opening the shipment. However, FEC is not obligated to perform such inspection.

9. C.O.D. services are not available and a C.O.D. shipment sent in error will be delivered as a normal pre-paid or collect shipment.

10. Federal Express carries no cargo liability insurance but maintains a separate fund for the satisfaction of cargo claims which may arise out of the carriage of cargo pursuant to the conditions of contract contained herein and in the most recent Federal Express Service Guide.

11. Notwithstanding the shipper's instructions to the contrary, the shipper shall be primarily liable for all costs and expenses related to the shipment of the package, and for costs incurred in either returning the shipment to the shipper or warehousing the shipment pending disposition.

12. Saturday Delivery: Recipient's phone number is required.

13. Federal Express assumes no responsibility for billing disputes resulting from inaccuracies contained in, or omissions from, the airbill.

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
 Year _____ Month _____ Day _____ Military Hour 00-24
 Test Pattern _____

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORIAL
 Source Number _____ County NIAGARA
 Drainage Basin 01 Name NIAG. River New York Gazetteer No. 3102 Town NIAGARA Falls
 Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
 Z Direction, altitude or depth, include units 0 FT

LOCATION : 60 character maximum. PLEASE PRINT.

Love Canal Remediation Site #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

~~XX~~ Glove blank

TIME OF SAMPLING

Grab/Composite 93 08 04 08 43
 Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 93 08 04 08 40

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list)

250 Description BLANK (glove)

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
 To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number: (716) 283-0012

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL

☐ WQSN

☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory
Use Only

Lab Accession Number _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-24

Test Pattern _____

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES LOVE CANALSource Number _____ County NIAGARA Long Term MonitoringDrainage Basin 01 Name NIAB. River New York Gazetteer No 31102 Town NIAGARA FallsLatitude 43° 04' 00.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units _____

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 1150 A

TIME OF SAMPLING

Grab/Composite 93 08 04 13 15
Finish Year Month Day Mil hrs. 00-23 MinuteComposite Start 93 08 04 13 05

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 250 Description Overburden Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sampleReport Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. M. O. R.Phone Number (716) 883-0112USE CAUTION
NAPL NOTED IN Bottom of well
SCREEN - suspect. HOT!!!

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL
ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin D1 Name NIAGARA RIVER New York Gazetteer No. 31102 Town NIAGARA FALLS
Latitude 43° 04' 00" N Longitude 78° 57' 03" W
Z Direction, altitude or depth, include units _____

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 1151 A

TIME OF SAMPLING

Grab/Composite _____
Finish Year 93 Month 08 Day 04 Mil hrs. 00-23 12 Minute 45

Composite Start Year 93 Month 08 Day 04 Mil hrs. 00-23 12 Minute 35

Chlorine Residual (Field)

Sample Temp.

Free	24 CHLORRES	4 °C
Total	23 CHLORRES	

Type of Sample (Select from list) 257 Description OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number (716) 283-6112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink.

Program Code 110 Program Name STATE SURFUM ANALYTICAL SERVICES LOVE CANAL
ANNUAL LONG TERM MONITORING

Source Number _____ County NIAGARA

Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS

Latitude 43° 04' 0.6" N Longitude 78° 57' 0.3" W

Z Direction, altitude or depth, include units _____

LOCATION : 60 character maximum. PLEASE PRINT.

Love Canal Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 3251

TIME OF SAMPLING

Grab/Composite 9.3 08 04 09 30
Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 9.3 08 04 09 20

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 2.50 Description Bedrock Ground Water

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. M. O. R. E.

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL
ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL ANNUAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 04.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units _____

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 10174A

TIME OF SAMPLING					Chlorine Residual (Field)		Sample Temp.	
Grab/Composite	<u>8.3</u>	<u>08</u>	<u>04</u>	<u>10</u>	<u>05</u>	Free	24 CHLORRES	<u>4</u> °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute	Total	23 CHLORRES	
Composite Start	<u>9.3</u>	<u>08</u>	<u>04</u>	<u>09</u>	<u>55</u>			

Type of Sample (Select from list) 250 Description OVERBURDEN Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. M. D. O. R. L.

Phone Number (716) 283 0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES LOVE CANAL
Long Term Monitoring
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 31102 Town NIAGARA FALLS
Latitude 43°04'06.00" N Longitude 78°57'03.00" W
Z Direction, altitude or depth, include units _____

LOCATION : 60 character maximum. PLEASE PRINT.

Love CANAL Remediation site #A-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 10147

TIME OF SAMPLING

Grab/Composite 93 08 04 10 40
Finish Year Month Day Mil hrs. 00-23 Minute
Composite Start 93 08 04 10 30

Chlorine Residual (Field)

Sample Temp.

Free	24 CHLORRES	4 °C
Total	23 CHLORRES	

Type of Sample (Select from list) 250 Description OVERBURDEN GROUNDWATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. MODER

Phone Number 716.283.0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL
ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL

☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

Request for Analysis

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES LOVE CANAL
Long Term Monitoring

Source Number _____ County NIAGARA

Drainage Basin 01 Name NIAGARA River New York Gazetteer No. 3102 Town NIAGARA Falls

Latitude 43° 04' 06.00" N Longitude 76° 51' 03.00" W

Z Direction, altitude or depth, include units _____

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 6209

TIME OF SAMPLING

Grab/Composite 93 08 04 11 50
Finish Year Month Day Mil Hrs. 00-23 Minute

Composite Start 93 08 04 11 20

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 250 Description Bedrock Ground water

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐

To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL
ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL

☐ WQSN

☐ Other _____

Nuclear Chemistry

☐ Scheduled Analysis

☐ Other _____

CHAIN OF CUSTODY RECORD

T&A CODE: 6204

LABORATORY ACCESSION BY: (Signature, date/time) _____

SDG NARRATIVE

Laboratory Name: New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences

Case Number: LCW93
Sample Delivery Group: 0802W (LOAC batches 8025, 8026 and 8027)
Contract Number:
Sample Numbers: 931914 to 931925

VOLATILE: No problems were encountered with VOA analyses with the exceptions of marginal recovery (84% and 85% at a lower acceptance limit of 85%) of bromofluorobenzene surrogate in the blank for 8/9/93 (VBLK02), sample 3251 and the holding blank.

The method blank run contained several target analytes at levels less than 1 µg/L, probably due to carryover from the standard run which immediately preceded it. The concentrations were well below the CRQLs for these compounds but we are concerned about this problem and are working to correct it.

The sample designated as a "Glove Blank" showed the presence of 3 isomers of chloropropene. These compounds were also present in the "DI Blank" of SDG 0712W and the "Rinse Blank" of SDG 0726W.

Sample 1150A contained significant levels of compounds typical of Love Canal leachate (i.e. chlorotoluenes). This sample was analyzed at dilutions of 500- and 50-fold.

SEMIVOLATILE: Samples were extracted and analyzed within the required holding times.

Recoveries of surrogates for all samples were within acceptance limits except for terphenyl-d14 in sample 1150A (low) and tribromophenol in sample 1150ADL (high).

Matrix spike compound 4-nitrophenol was not recovered from these samples, presumably due to the fact that GPC cleanup was performed. 2,4-dinitrotoluene %RPD was outside acceptance limits.

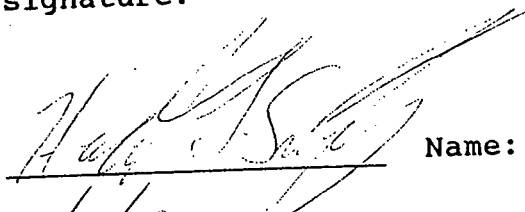
Response was depressed for 4 of 6 internal standards in sample 1150A (at both dilutions used), possibly due to a matrix effect from the abundant components present. Results at the two levels analyzed support one another so some credence may be given to the analytical results.

PESTICIDE/PCB: The laboratory experienced a problem meeting retention-time window requirements during the analytical sequence. Endrin breakdown on one GC-column exceeded the QC limits. Also, a total of four values (on one column) exceed the 25% RPD limit in the continuing calibration standards.

For EPA (DEC) sample number 1150A (Lab. No. 931922) run at 1:100 and 1:1000 dilution a number of compounds were identified on both columns but were not confirmed by GC/MS. This data is identified on Form I PEST with a qualifier of "X". Concentrations calculated by GC/ECD were high enough that GC/MS confirmation should have been positive if these compounds were present. The level of EC positive compounds was such that running the sample at a dilution less than 1:100 was not practical. Small quantities of beta and gamma BHC were found by GC/MS in the semi-volatiles extract but were not present at levels high enough to be listed with the twenty most prevalent TICS.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer as verified by the following signature.

Signature



Name: Herbert L. Swift

Date

9/8/93

Title: Quality Assurance Officer

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000000 000053
EPA SAMPLE NO.

8025HB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0802W

Matrix: (soil/water) WATER

Lab Sample ID: 931925

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

Lab File ID: 4_0806D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/06/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

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	0.5	BJ
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	0.2	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	0.05	BJ
67-66-3	Chloroform	0.08	BJ
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	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	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.06	BJ
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	0.1	BJ
100-42-5	Styrene	0.1	BJ
1330-20-7	Xylene (total)	0.3	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000055

EPA SAMPLE NO.

8025TB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0802W

Matrix: (soil/water) WATER

Lab Sample ID: 931924

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

Lab File ID: 4_0810D

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/10/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.5	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	0.2	J
75-35-4	1,1-Dichloroethene	0.1	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	0.08	BJ
67-66-3	Chloroform	0.08	BJ
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	0.7	BJ
71-55-6	1,1,1-Trichloroethane	0.2	BJ
56-23-5	Carbon Tetrachloride	10	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	0.08	BJ
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	0.1	J
108-88-3	Toluene	0.2	BJ
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	0.1	BJ
100-42-5	Styrene	0.2	BJ
1330-20-7	Xylene (total)	0.5	BJ

000052

EPA SAMPLE NO.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

GLOVBK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0802W

Matrix: (soil/water) WATER

Lab Sample ID: 931923

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

Lab File ID: 4_0806G

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/06/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 107-05-1	1-Propene, 3-chloro	1.10	2	JN
2. 107-05-1	1-Propene, 3-chloro	1.32	2	JN
3. 107-05-1	1-Propene, 3-chloro	1.39	2	JN
4. 598-77-6	Propane, 1,1,2-trichloro	6.60	2	JN
5. 106-35-4	3-Heptanone	14.66	2	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000051

EPA SAMPLE NO.

GLOVBK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0802W

Matrix: (soil/water) WATER

Lab Sample ID: 931923

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

Lab File ID: 4_0806G

Level: (low/med) LOW

Date Received: 08/06/93

% Moisture: not dec.

Date Analyzed: 08/06/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	1	BJ
67-64-1	Acetone	30	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	8	BJ
107-06-2	1,2-Dichloroethane	0.7	BJ
78-93-3	2-Butanone	14	B
71-55-6	1,1,1-Trichloroethane	0.2	BJ
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	0.4	BJ
78-87-5	1,2-Dichloropropane	3	BJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	0.06	BJ
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.2	BJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	4	BJ
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.2	BJ
108-90-7	Chlorobenzene	0.2	BJ
100-41-4	Ethylbenzene	0.7	BJ
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.7	BJ



USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

7467275196

3089N

7467275196

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER

Date

1172-1691-8

8/12/93

From (Your Name) Please Print

Your Phone Number (Very Important)

To (Recipient's Name) Please Print

Recipient's Phone Number (Very Important)

MAURICE F MOORE

619-457-0913

RON PAUSE

(518) 473-0323

Company

Department/Floor No.

Company

Department/Floor No.

NYS DEPT OF ENV/REMEDIATION

NYS D.O.H. WCLER

Rm 519

Street Address

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)

LOADING DOCK

50 WOLF RD ROOM 208

Empire STATE PLZ tower

LOADING DOCK

City

State

ZIP Required

City

State

ZIP Required

ALBANY

NY

1 2 2 3 3

ALBANY

12201

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

9-32-020

IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street

Address

City

State

ZIP Required

PAYMENT

1

Bill Sender

2

Bill Recipient's FedEx Acct. No.

3

Bill 3rd Party FedEx Acct. No.

4

Bill Credit Card

5

Cash/Check

6

Account/Credit Card No.

7

Exp. Date

8

Account/Credit Card No.

9

Exp. Date

10

Account/Credit Card No.

11

Exp. Date

12

Account/Credit Card No.

13

Exp. Date

14

Account/Credit Card No.

15

Exp. Date

16

Account/Credit Card No.

17

Exp. Date

18

Account/Credit Card No.

19

Exp. Date

20

Account/Credit Card No.

21

Exp. Date

SERVICES
(Check only one box)

DELIVERY AND SPECIAL HANDLING
(Check services required)

PACKAGES

WEIGHT
In Pounds
Only

YOUR DECLARED
VALUE
(See right)

SERVICE CONDITIONS, DECLARED VALUE
AND LIMIT OF LIABILITY

Federal Express Use

Priority Overnight
(Delivery by next business morning)

Standard Overnight
(Delivery by next business afternoon,
No Saturday delivery)

11 OTHER PACKAGING

51 OTHER PACKAGING

16 FEDEX LETTER*

56 FEDEX LETTER*

12 FEDEX PAK*

52 FEDEX PAK*

13 FEDEX BOX

53 FEDEX BOX

14 FEDEX TUBE

54 FEDEX TUBE

Economy Two-Day
(Delivery by second business day)

Government Overnight
(Restricted for authorized users only)

30 ECONOMY

46 GOVT LETTER

70 OVERNIGHT FREIGHT**

41 GOVT PACKAGE

80 TWO-DAY FREIGHT**

(Confirmed reservation required)

*Delivery commitment may be later in some areas.

**Call for delivery schedule.

Declared Value Limit \$500.

Call for delivery schedule.

HOLD FOR PICK-UP

(Fill in Box 1)

1 WEEKDAY

31 or SATURDAY

DELIVER

2

WEEKDAY

or SATURDAY

3

SATURDAY

(Extra charge)

4 DANGEROUS GOODS

(Extra charge)

5

DRY ICE

6

Dangerous Goods Shipper's Declaration not required

7

OTHER SPECIAL SERVICE

8

SATURDAY PICK-UP

9

(Extra charge)

10

HOLIDAY DELIVERY (If offered)

11

(Extra charge)

DIM SHIPMENT (Chargeable Weight)

lbs.

L x W x H

Received At

1 Regular Stop 3 Drop Box

4 B.S.C.

2 On-Call Stop 5 Station

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details.

We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500.00.

In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.

Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Release Signature: *[Signature]*

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 5/92

PART #137204 NCREC 2/93

FORMAT #136

136

© 1991-92 FEDEX

PRINTED IN U.S.A.

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms of this Airbill and in our current Service Guide, which is available upon request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission or false number of packages and weight per package from this Airbill will result in a billing based on our current estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax, required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, sealing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our Agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to force majeure events of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, strikes or omissions of public authorities (including customs and quarantine officials) and other circumstances beyond our control.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value" include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$125,000.)

If more than one package is shipped on this Airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.



USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

7467275185

3089N

7467275185

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER

Date

1 1172-1691-8

8/12/93

From (Your Name) Please Print

Your Phone Number (Very Important)

To (Recipient's Name) Please Print

Recipient's Phone Number (Very Important)

Company

MAURICE MOORE

018-457-0913

FRED WOODWARD

018-457-3252

Department/Floor No.

Company

Department/Floor No.

Street Address

50 WOLF RD ROOM 208

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)

City

ALBANY

State

NY

ZIP Required

1 2 2 3 3

City

ALBANY

State

NY

ZIP Required

1 2 2 3 3

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

9-32-020

IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street Address

PAYMENT

1 Bill Sender

2 Bill Recipient's FedEx Acct. No.

3 Bill 3rd Party FedEx Acct. No.

4 Bill Credit Card

5 Cash

6 Check

Acct./Credit Card No.

Exp. Date

City

State

ZIP Required

7 SERVICES

(Check only one box)

8 DELIVERY AND SPECIAL HANDLING

(Check services required)

9 PACKAGES

WEIGHT

YOUR DECLARED VALUE

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Federal Express Use

Priority Overnight

(Delivery by next business morning)

11 ☒ OTHER PACKAGING

16 ☐ FEDEX LETTER*

12 ☐ FEDEX PAK*

13 ☐ FEDEX BOX

14 ☐ FEDEX TUBE

Standard Overnight

(Delivery by next business afternoon)

51 ☐ OTHER PACKAGING

56 ☐ FEDEX LETTER*

52 ☐ FEDEX PAK*

53 ☐ FEDEX BOX

54 ☐ FEDEX TUBE

Economy Two-Day

(Delivery by second business day)

30 ☐ ECONOMY

Government Overnight

(Restricted for authorized users only)

46 ☐ GOVT LETTER

41 ☐ GOVT PACKAGE

HOLD FOR PICK-UP

(Fill in Box H)

1 ☐ WEEKDAY

31 ☐ SATURDAY

DELIVER

2 ☒ WEEKDAY

3 ☐ SATURDAY (Extra charge)

4 ☐ DANGEROUS GOODS (Extra charge)

5 ☐

6 ☐ DRY ICE

Dangerous Goods Shipper's Declaration not required

By ☐ 9, JAN 1985, X kg, III

7 ☐ OTHER SPECIAL SERVICE

9 ☐ SATURDAY PICK-UP (Extra charge)

12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

1 14

Total Total Total

1 14

DIM SHIPMENT (Chargeable Weight)

L x W x H

Regular Stop 3 Drop Box

4 B.S.C.

2 On-Cell Stop 5 Station

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details.

We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500.00.

In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.

Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Release Signature: *Maurice Moore*

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 6/92
PART #137204 NCREC 2/93
FORMAT #136

136

© 1991-92 FEDEX
PRINTED IN
U.S.A.

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

TERMS AND CONDITIONS

INTRODUCTION

These terms and conditions apply to all shipments of goods by air, sea, or land, depending on the mode of transport. Your acceptance of these terms and conditions is required for shipment.

SHIPMENT TO BE MADE

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

SHIPMENT TO BE MADE AND CARRIER'S RESPONSIBILITY

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

SHIPMENT TO BE MADE AND CARRIER'S RESPONSIBILITY

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

SHIPMENT TO BE MADE AND CARRIER'S RESPONSIBILITY

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

The shipper must provide a copy of the terms of the AIAI and its current shipping schedule to the carrier. The carrier must be a member of the International Air Transport Association (IATA) and must be licensed to operate in the United States.

If you send more than one package on the AIAI, you may be liable for the total declared value for all packages, not to exceed the \$100,000 or \$250,000 per package limit described above. (Example: 5 packages each have a total declared value of \$50,000.)

If more than one package is shipped on the AIAI, the liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limit described above). You have the responsibility of proving the actual loss or damage.

CLAIMS & CANCELS

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within 90 days of the date of shipment.

For a complete list of claims, see the AIAI and its current shipping schedule.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may be liable for the amount of your claim from these charges.

If a sample and sample your package without having any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, retain the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIAI. If C.O.D. Service is required, please use a Federal Express C.O.D. claim for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or transporting it pending disposition.

RIGHT OF RESCUE

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or in violation of any other statute. In the AIAI and our current Service Guide.

EXCESS CARGO CARRIAGE

In the event of an early delivery, Federal Express will, at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____ Year _____ Month _____ Day _____ Military Hour 00-24
Test Pattern _____

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING

Source Number _____ County NIAGARA

Drainage Basin 01 Name NIAG. River New York Gazetteer No. 31102 Town NIAGARA Falls

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units off

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Rinse blank

TIME OF SAMPLING						Chlorine Residual (Field)		Sample Temp.
Grab/Composite	93	08	11	12	15	Free	24 CHLORRES	4 °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute			
Composite Start	93	08	11	12	10	Total	23 CHLORRES	

Type of Sample (Select from list) 250 Description WATER

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐	Special Mail Code	Additional Information Regarding This Sample	
To (No. of copies) FED ☐ INFO ☐ LAB ☐			
Submitted by <u>M. Mowbray</u>	<u>Rinse blank - geoguard</u> <u>pump w/ HPLC water</u>		
Phone Number <u>(716) 283-0112</u>			

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 011 Name NIAG. RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 00" N Longitude 78° 05' 03" W
Z Direction, altitude or depth, include units 15 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site #9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well 10210B

TIME OF SAMPLING

Grab/Composite 93 08 11 10 49
Finish Year Month Day Mil hrs. 00-23 Minute
Composite Start 93 08 11 10 30

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 250 Description Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M Moore
Phone Number (716) 283-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory
Use Only

Lab Accession Number _____

Sample

Rec'd

Year

Month

Day

Military Hour 00-24

Test Pattern _____

Please print all information legibly in ink

Program Code

110

Program Name

STATE SUPERFUND ANALYTICAL SERVICES LOVE CANAL
LONG TERM MONITORING

Source Number

County

NIAGARA

Drainage Basin

011

Name

NIAG. RIVER

New York Gazetteer No

31102

Town

NIAGARA FALLS

Latitude

43° 04' 06.00" N

Longitude

78° 57' 03.00" W

Z Direction, altitude or depth, include units

14 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well # 10210 C

TIME OF SAMPLING

Grab/Composite

93

08

11

10

15

Finish

Year

Month

Day

Mil hrs. 00-23

Minute

Composite Start

93

08

11

10

00

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list)

250

Description

Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

☐ Illness (A)☐ Turbidity (C)☐ Natural Disaster (E)☐ New Equip. or Proc. (G)☐ Interruption in Chlorination (I)☐ Taste/Odor (B)☐ Color (D)☐ Fishkill (F)☐ Equip. Failure (H)☒ Other (J)☒ Chain of custody form accompanying sample

Report Results

CO

RO

LPHE

Special

Mail

Code

Additional Information Regarding This Sample

To (No. of copies) FED

INFO

LAB

Submitted by

M. MOORE

Phone Number

(716) 287-0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
- ☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
- ☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
- ☐ Total Coliforms MPN & SPC
Potable Water
- ☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
- ☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
- ☐ Herbicides
- ☐ PCBs
- ☐ Purgeable Halocarbons
- ☐ Purgeable Aromatics
- ☐ Nitrogen/Phosphorus Pesticides
- ☐ Petroleum Products
- ☐ Priority Pollutants
- ☐ Dioxin/Furan
- ☐ Ketones
- ☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
- ☐ Fluoride
- ☐ Nitrate
- ☐ Trace Metals, HSL
- ☐ WQSN
- ☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
- ☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
 Year _____ Month _____ Day _____ Military Hour 00-24
 Test Pattern _____

Please print all information legibly in ink.

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES LOVE CANAL
LONGTERM MONITORING

Source Number _____ County NIAGARA

Drainage Basin D-1 Name NIAG. River New York Gazetteer No. B-1 D-2 Town Niagara Falls

Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W

Z Direction, altitude or depth, include units 12 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring well # 10210 A

TIME OF SAMPLING

Grab/Composite 93 08 11 10 50
 Finish Year Month Day Mil hrs. 00-23 Minute

Composite Start 93 08 11 10 45

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 25D Description Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
 To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special
Mail
Code

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number 716 283 0112

Sanitary Bacteriology

- ☐ Total Coliforms MF
Chlorinated Potable Water
☐ Total Coliforms MF & SPC
Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF
Nonpotable Surface Water
☐ Total Coliforms MPN & SPC
Potable Water
☐ Total & Fecal Coliforms MPN
Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL
ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF TECHNICAL SERVICES

CHAIN OF CUSTODY RECORD

SITE NAME: Love Canal

SITE CODE: 137-010

DEC REGION: 9

T&A CODE: 2001

1 TB broken
0.1 ml

plus
Trip Blank
40ml
Lot # Va 93

VOA (40ml)	BNA; PEST/PCB (1 liter)	METALS (preserved) (500ml/1 liter)	SOIL JARS
LA # V2-93 2	BNAI-93-1 Pest/PCBI-93-1		

BOTTLES RELEASED BY: (Signature, date/time) J. J. A. D. 8/4/93 4:30 pm

BOTTLES RECEIVED BY: (Signature, date/time) _____

FIELD ID	TYPE <u>GRAB</u> COMP	MATRIX	DATE	VOA	BNA PES PCB	MET	LAB ID
10210C	11	Water		X			
10210C	11	11		X			
10210C	11	11			PS 13 76		
10210C	11	11			BNA		

COLLECTED BY: (Signature, date/time) Shirley Moore

RELINQUISHED BY: (Signature, date/time) Shirley Moore

LABORATORY ACCESSION BY: (Signature, date/time) _____

SDG NARRATIVE

Laboratory Name: New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences

Case Number: LCW93
Sample Delivery Group: 0809W (LOAC batches 8028, 8029 and 8030)
Contract Number:
Sample Numbers: 931954 to 931962

VOLATILE: Due to a GC malfunction the volatiles samples were not run within the 7-day window. This does not appear to be critical since no trace of the polychlorobenzene and chlorotoluene compounds characteristic of the Love Canal landfill was detected in any of the three samples. Almost all of these compounds are sufficiently non-volatile to persist well beyond the holding time.

All surrogate and spike recoveries were within acceptance limits.

The method-blank run yielded several target analytes at levels less than 1 µg/L, probably due to carryover from the standard run which immediately preceded it. The concentrations were well below the CRQLs for these compounds but we are concerned about this problem and are working to correct it.

In contrast to previous similar field-blanks, the sample designated as a "Glove Blank" failed to show the presence of 3 isomers of chloropropene.

SEMIVOLATILE: Samples were extracted and analyzed within the required holding times.

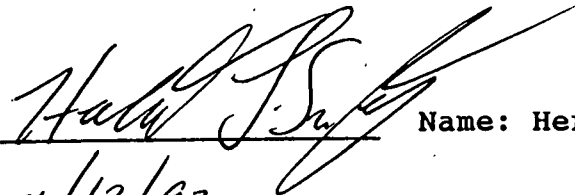
Recoveries of surrogates for all samples were within acceptance limits except for terphenyl-d14 in sample 10210A. The batch sheet reports presence of a precipitate during extraction of this sample. Both volatile and semivolatile samples contained alkyl-polysulfides although it is not clear how the terphenyl would be selectively removed due to presence of these compounds. No interferences were present in the chromatographic region of this surrogate.

Matrix-spike compound 4-nitrophenol was not recovered from these samples, presumably due to the fact that GPC cleanup was performed.

PESTICIDE/PCB: The laboratory experienced a problem meeting retention-time window requirements during the analytical sequence. Endrin breakdown on one GC-column exceeded the QC limits. Also, one compound (heptachlor) on one column exceeded the 25% RPD limit in the final continuing calibration standard.

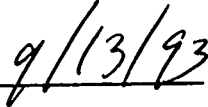
I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer as verified by the following signature.

Signature

A handwritten signature in dark ink, appearing to read 'Herbert L. Swift', written over a horizontal line.

Name: Herbert L. Swift

Date

A handwritten date '9/13/93' in dark ink, written over a horizontal line.

Title: Quality Assurance Officer

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000036

EPA SAMPLE NO.

8029HB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0809W

Matrix: (soil/water) WATER

Lab Sample ID: 931962

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

Lab File ID: 4_0830E

Level: (low/med) LOW

Date Received: 08/13/93

% Moisture: not dec.

Date Analyzed: 08/30/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.

COMPOUND

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	0.2	BJ
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.6	BJ
67-64-1	Acetone	3	BJ
75-15-0	Carbon Disulfide	0.2	BJ
75-35-4	1,1-Dichloroethene	0.2	BJ
75-34-3	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	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	0.1	BJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	0.3	BJ
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.3	BJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	0.02	BJ
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	0.06	BJ
127-18-4	Tetrachloroethene	0.03	BJ
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.4	BJ
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	0.05	BJ
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.4	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000038

EPA SAMPLE NO.

RINSBK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0809W

Matrix: (soil/water) WATER

Lab Sample ID: 931960

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

Lab File ID: 4_0830G

Level: (low/med) LOW

Date Received: 08/13/93

% Moisture: not dec.

Date Analyzed: 08/30/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.3	BJ
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	0.1	BJ
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	0.07	BJ
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	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	0.1	BJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	0.08	BJ
124-48-1	Dibromochloromethane	0.02	BJ
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.04	BJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	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
1330-20-7	Xylene (total)	0.2	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000048 EPA SAMPLE NO.

8029TB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0809W

Matrix: (soil/water) WATER

Lab Sample ID: 931961

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

Lab File ID: 4_0830F

Level: (low/med) LOW

Date Received: 08/13/93

% Moisture: not dec.

Date Analyzed: 08/30/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.4	BJ
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	0.1	BJ
75-35-4	1,1-Dichloroethene	0.07	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene-(total)	0.04	BJ
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	0.2	BJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	0.1	BJ
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.1	BJ
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	0.06	BJ
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.2	BJ
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	0.05	BJ
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.2	BJ

**FEDERAL
EXPRESS**

**MULTIPLE PACKAGE
SHIPMENT LABELS**

SHIPMENT
DATE

MASTER
AIRBILL NUMBER

22
OF

6392549003

DESCRIPTION

OR

6392549012

DESCRIPTION

OF

6392549021

DESCRIPTION

OF

6392549037

DESCRIPTION

OF

6392549046

ON

REV. 4/80 © 1990 F.E.C. GBFE 3/93
PY FORMAT #073



USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

7467275163

3089N

7467275163

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER

Date

1172-1691-0

8/14/93

From (Your Name) Please Print

Your Phone Number (Very Important)

To (Recipient's Name) Please Print

Recipient's Phone Number (Very Important)

Company

MAURICE MOORE

618-57-0913

Department/Floor No.

Company

RONALD PAUSE

Department/Floor No.

578 473 0333

NYS DEPT OF ENV/REMEDIATION

Street Address

NYS DOH WCLER
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)

Rm 519
LOADING DOCK

50 WOLF RD ROOM 208

City

State

ZIP Required

ALBANY

NY

1 2 2 3 3

City

Empire state Plaza tower

State

ZIP Required

ALBANY

NY

12201

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

9-32-020

IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street Address

City

State

ZIP Required

PAYMENT

1 Bill Sender

2 Bill Recipient's FedEx Acct. No.

3 Bill 3rd Party FedEx Acct. No.

4 Bill Credit Card

5 Cash

6 Check

Acct./Credit Card No.

Exp. Date

4 SERVICES

(Check only one box)

5 DELIVERY AND SPECIAL HANDLING

(Check services required)

6 PACKAGES

WEIGHT

In Pounds

Only

YOUR DECLARED

VALUE

(See right)

SERVICE CONDITIONS, DECLARED VALUE
AND LIMIT OF LIABILITY

Federal Express Use

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 6/92
PART #137204 NCREC 2/93
FORMAT #136

136

3 1991-92 FEDEX
PRINTED IN
U.S.A.

Priority Overnight
(Delivery by next business morning)

11 ☒ OTHER PACKAGING

16 ☒ FEDEX LETTER

12 ☒ FEDEX PAK

13 ☒ FEDEX BOX

14 ☒ FEDEX TUBE

Economy Two-Day
(Delivery by second business day)

30 ☒ ECONOMY

Standard Overnight
(Delivery by next business afternoon,
No Saturday delivery)

51 ☐ OTHER PACKAGING

56 ☐ FEDEX LETTER

52 ☐ FEDEX PAK

53 ☐ FEDEX BOX

54 ☐ FEDEX TUBE

Government Overnight
(Restricted for authorized users only)

46 ☐ GOVT LETTER

41 ☐ GOVT PACKAGE

HOLD FOR PICK-UP

(Fill in Box H)

1 WEEKDAY

31 SATURDAY

DELIVER

2 WEEKDAY

3 SATURDAY (Extra charge)

(Not available to all locations)

4 DANGEROUS GOODS (Extra charge)

5 DRY ICE

Dangerous Goods Shipper's Declaration not required

Day by, 9, UN 1845, X kg. III

7 OTHER SPECIAL SERVICE

9 SATURDAY PICK-UP

(Extra charge)

12 HOLIDAY DELIVERY (If offered)

(Extra charge)

Total Total Total

2 103

1 57

1 46

DIM SHIPMENT (Chargeable Weight)

lbs.

L x W x H

Received At

1 Regular Stop

3 Drop Box

4 B.S.C.

2 On-Call Stop

5 Station

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details.

We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500.00.

In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.

Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Release Signature: *James Moore*

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

Freight Service
(for packages over 150 lbs.)

70 OVERNIGHT FREIGHT

(Confirmed reservation required)

Delivery commitment may be later in some areas.

80 TWO-DAY FREIGHT

(Confirmed reservation required)

Declared Value Limit \$500.
Call for delivery schedule.

TERMS AND CONDITIONS

DEFINITIONS

All references herein to the Federal Express Corporation, its employees and agents. You agree to indemnify and hold the Corporation harmless.

AGREEMENT TO TERMS

By using the service, you agree to all the terms of this Agreement and in our current Service Guide. If there is a conflict between the current Service Guide and the terms of this Agreement, the terms of this Agreement shall prevail.

THE SERVICE YOU ARE USING (AND COMPLETION AMOUNT)

The service you are using is subject to our guide and for properly filling out this Agreement. If you do not follow the instructions, we may not be liable for any damage to your package. The amount of the damage will be the actual value of the package less the amount of any damage to the package from the time it was received from you and an estimated "defect" or "damage" to the package was made by us.

YOUR RESPONSIBILITY FOR DAMAGE

You are responsible for the damage to your package. If you are the owner of the package, you are responsible for the damage to the package. If you are not the owner, you are responsible for the damage to the package.

WE DO NOT GUARANTEE THE QUALITY AND QUANTITY OF THE SERVICE

We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service.

We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service.

We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service.

We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service.

We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service.

WE DO NOT GUARANTEE THE QUALITY AND QUANTITY OF THE SERVICE

We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service.

We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service. We do not guarantee the quality and quantity of the service.

If you send more than one package on this Agreement, you may fill in the total declared value for all packages, not to exceed the \$100,000 or \$55,000 per package limit described above. (Exemption: 5 packages can have a total declared value of up to \$125,000.)

If more than one package is shipped on this Agreement, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limit described above). You have the responsibility of proving the actual loss or damage.

MAKING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within eight days of the date of the loss or damage.

We will consider your claim first if you call and notify our Customer Service Department at 800-235-8235 and notify us in writing as soon as possible.

Within 60 days after you notify us of your claim, you must send us all relevant information about it. We do not intend to put on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing materials for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AGREEMENT. If C.O.D. Service is required, please use a Federal Express C.O.D. label for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cash we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment if any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any laws contained in this Agreement or our current Service Guide.

MONETARY-DAWN GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.



USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

7467275174

3069N

7467275174

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER

Date

1 1172-1691-6

8/19/93

From (Your Name) Please Print

Your Phone Number (Very Important)

To (Recipient's Name) Please Print

Recipient's Phone Number (Very Important)

MAURICE MOORE

618-457-0913

Fred Woodward

(518) 457-3252

Company

Department/Floor No.

Company

Department/Floor No.

NYS DEPT OF ENV/REMEDATION

NYS DEC Rm 208

Street Address

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)

50 WOLF RD ROOM 208

50 WOLF RD

City

State

ZIP Required

City

State

ZIP Required

ALBANY

NY

12233

ALBANY

NY

12233

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

IF HOLD FOR PICK-UP, Print FEDEX Address Here

9-32-020

Street Address

PAYMENT

1 Bill Sender

2 Bill Recipient's FedEx Acct. No.

3 Bill 3rd Party FedEx Acct. No.

4 Bill Credit Card

5 Cash/Check

Acct./Credit Card No.

Exp. Date

City

State

ZIP Required

4 SERVICES
(Check only one box)

5 DELIVERY AND SPECIAL HANDLING
(Check services required)

6 PACKAGES

WEIGHT

In Pounds Only

YOUR DECLARED VALUE

(See right)

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Federal Express Use

Priority Overnight
(Delivery by next business morning)

Standard Overnight
(Delivery by next business afternoon, no Saturday delivery)

HOLD FOR PICK-UP
(Fill in Box H)

1 WEEKDAY
31 or SATURDAY

1.14

1.14

11 OTHER PACKAGING

51 OTHER PACKAGING

DELIVER

2 WEEKDAY

16 FEDEX LETTER*

56 FEDEX LETTER*

3 SATURDAY (Extra charge)
(Not available to all locations)

12 FEDEX PAK*

52 FEDEX PAK*

4 DANGEROUS GOODS (Extra charge)

13 FEDEX BOX

53 FEDEX BOX

5 DRY ICE
Dangerous Goods Shipper's Declaration not required

14 FEDEX TUBE

54 FEDEX TUBE

6 DRY ICE
Dangerous Goods Shipper's Declaration not required

Economy Two-Day
(Delivery by second business day)

Government Overnight
(Restricted for authorized users only)

7 OTHER SPECIAL SERVICE

9 SATURDAY PICK-UP
(Extra charge)

10 DIM SHIPMENT (Chargeable Weight)

11 L x W x H

30 ECONOMY

46 GOVT. LETTER

8 OTHER SPECIAL SERVICE

12 HOLIDAY DELIVERY (if offered)
(Extra charge)

1 Regular Stop

3 Drop Box

4 B.S.C.

Freight Service
(for packages over 150 lbs.)

70 OVERNIGHT FREIGHT**
(Confirmed reservation required)

8 SATURDAY PICK-UP
(Extra charge)

11 L x W x H

12 HOLIDAY DELIVERY (if offered)
(Extra charge)

2 On-Call Stop

5 Station

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details.

We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is \$500.00.

In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 6/92
PART #137204 NCRC 2/93
FORMAT #136

Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from all claims resulting therefrom.

Release Signature: *Maurice Moore*

136

© 1991-92 FEDEX
PRINTED IN U.S.A.

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms of this Airbill and in our current Service Guide, which is available upon request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional \$100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable, if you or the recipient violates any of the terms of our Agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) and all other competent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is \$500. For other shipments, the highest declared value we allow is \$25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is \$500. Items of "extraordinary value" include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$125,000.)

If more than one package is shipped on this Airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF TECHNICAL SERVICES

CHAIN OF CUSTODY RECORD

SITE NAME: Love Canal

SITE CODE: 9-32-020

DEC REGION: 9

T&A CODE: 6204

VOA (40ml)	BNA; PEST/PCB (1 liter)	METALS (preserved) (500ml/1 liter)	SOIL JARS
Lot # V2-93 = 2	Lot # BNA1-93-1 Lot # P-1/PCB1-93-1		

BOTTLES RELEASED BY: (Signature, date/time) D. J. A. Dineen 8/17/93 8:30 AM

BOTTLES RECEIVED BY: (Signature, date/time) Maurice More 8/18/93 1:07

FIELD ID	TYPE GRAB/ COMP	MATRIX	DATE	VOA	BNA PES PCB	MET	LAB ID
10225C	6	H2O	8/18/93	X			
10225C	6	"	"	X			
10225C	6	"	"		BNA		
10225C	6	"	"		Pest		

COLLECTED BY: (Signature, date/time) Maurice More 8/18/93

RELINQUISHED BY: (Signature, date/time) Maurice More 8/19/93

LABORATORY ACCESSION BY: (Signature, date/time) _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. River New York Gazetteer No. 31.02 Town NIAGARA Falls
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units _____

LOCATION: 60 character maximum. PLEASE PRINT
LOVE CANAL ~~REMED~~ Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

TUBING RINSE BLANK

TIME OF SAMPLING					Chlorine Residual (Field)		Sample Temp.	
Grab/Composite	<u>93</u>	<u>08</u>	<u>19</u>	<u>15</u>	<u>50</u>	Free	24 CHLORRES	<u>4</u> °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute	Total	23 CHLORRES	
Composite Start	<u>93</u>	<u>08</u>	<u>19</u>	<u>15</u>	<u>45</u>			

Type of Sample (Select from list) 250 Description Water

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code _____

Additional Information Regarding This Sample

Submitted by M. Moore

Phone Number 716 283 0112

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☒ Ketones LOVE CANAL ANALYTES
☐ Other _____

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Year _____ Month _____ Day _____ Military Hour 00-24
Test Pattern _____

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES.
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 15 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well 10135

TIME OF SAMPLING						Chlorine Residual (Field)		Sample Temp.
Grab/Composite	93	08	19	09	50	Free	24 CHLORRES	4 °C
Finish	Year	Month	Day	Mil hrs. 00-23	Minute			
Composite Start	93	08	19	09	43	Total	23 CHLORRES	

Type of Sample (Select from list) 250 Description Overburden Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Submitted by M Moore

Phone Number (716) 283-0112

Special Mail Code

Additional Information Regarding This Sample

* This well is suspected to be hot !!!
use Caution

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
Source Number _____ County NIAGARA LOVE CANAL LONG TERM MONITORING
Drainage Basin 01 Name NIAG. RIVER New York Gazetteer No. 3163 Town NIAGARA FALLS
Latitude 43° 04' 00.00" N Longitude 78° 57' 03.00" W
Z Direction, altitude or depth, include units 16 FT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation Site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well 10225 C

TIME OF SAMPLING	Chlorine Residual (Field)	Sample Temp.
Grab/Composite <u>9.3</u> <u>08</u> <u>19</u> <u>14</u> <u>05</u> Finish Year Month Day Mil hrs. 00-23 Minute	Free 24 CHLORRES	<u>4</u> °C
Composite Start <u>9.3</u> <u>08</u> <u>19</u> <u>13</u> <u>50</u>	Total 23 CHLORRES	

Type of Sample (Select from list) 250 Description Bedrock Ground Water

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐ To (No. of copies) FED ☐ INFO ☐ LAB ☐	Special Mail Code _____	Additional Information Regarding This Sample _____ _____ _____
Submitted by <u>M MOORE</u>		
Phone Number <u>(716) 283.0112</u>		

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG RIVER New York Gazetteer No 3160 Town NIAGARA FALLS
Latitude 43° 04' 06.60" N Longitude 78° 57' 03.60" W
Z Direction, altitude or depth, include units 15BT

LOCATION : 60 character maximum. PLEASE PRINT.

LOVE CANAL Remediation site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

MONITORING well #1-10225B

TIME OF SAMPLING

Grab/Composite 93 08 19 15 05
Finish Year Month Day Mil hrs. 00-23 Minute
Composite Start 93 08 19 14 55

Chlorine Residual (Field)

Sample Temp.

Free

24 CHLORRES

4 °C

Total

23 CHLORRES

Type of Sample (Select from list) 250 Description Bedrock Ground water

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐
To (No. of copies) FED ☐ INFO ☐ LAB ☐

Special Mail Code

Additional Information Regarding This Sample

Submitted by M. MOORE

Phone Number 714 283-042

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☐ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

For Laboratory Use Only Lab Accession Number _____ Sample Rec'd _____
Test Pattern _____ Year _____ Month _____ Day _____ Military Hour 00-24

Please print all information legibly in ink

Program Code 110 Program Name STATE SUPERFUND ANALYTICAL SERVICES
LOVE CANAL LONG TERM MONITORING
Source Number _____ County NIAGARA
Drainage Basin 01 Name NIAG. River New York Gazetteer No. 3102 Town NIAGARA FALLS
Latitude 43° 04' 06.00" N Longitude 79° 57' 03.00" W
Z Direction, altitude or depth, include units 15 FT

LOCATION : 60 character maximum. PLEASE PRINT.

Love Canal Remediation site # 9-32-020

EXACT DESCRIPTION OF SITE: (name of resident, street address, precise sampling point) 58 character maximum. PLEASE PRINT.

Monitoring Well 10225 A

TIME OF SAMPLING		Chlorine Residual (Field)		Sample Temp.
Grab/Composite	<u>93</u> <u>08</u> <u>19</u> <u>15</u> <u>00</u>	Free	<u>24</u> CHLORRES	<u>4</u> °C
Finish	Year Month Day Mil hrs. 00-23 Minute	Total	<u>23</u> CHLORRES	
Composite Start	<u>93</u> <u>08</u> <u>19</u> <u>08</u> <u>10</u>			

Type of Sample (Select from list) 250 Description Bedrock Groundwater

COMPLAINTS, OBSERVATIONS, REASONS FOR SUBMISSION (Do not check if routine surveillance)

- ☐ Illness (A) ☐ Turbidity (C) ☐ Natural Disaster (E) ☐ New Equip. or Proc. (G) ☐ Interruption in Chlorination (I)
☐ Taste/Odor (B) ☐ Color (D) ☐ Fishkill (F) ☐ Equip. Failure (H) ☒ Other (J)

☒ Chain of custody form accompanying sample

Report Results CO ☐ RO ☐ LPHE ☐ 1	Special Mail Code	Additional Information Regarding This Sample
To (No. of copies) FED ☐ INFO ☐ LAB ☐		
Submitted by <u>M Moore</u>		
Phone Number <u>716 283-0112</u>		

Sanitary Bacteriology

- ☐ Total Coliforms MF Chlorinated Potable Water
☐ Total Coliforms MF & SPC Unchlorinated Potable Water
☐ Total & Fecal Coliforms MF Nonpotable Surface Water
☐ Total Coliforms MPN & SPC Potable Water
☐ Total & Fecal Coliforms MPN Chlorinated Waste Water
☐ Other _____

Organic Chemistry

- ☐ Insecticides ☐ Expanded List
☐ Herbicides
☐ PCBs
☐ Purgeable Halocarbons
☐ Purgeable Aromatics
☐ Nitrogen/Phosphorus Pesticides
☐ Petroleum Products
☐ Priority Pollutants
☐ Dioxin/Furan
☐ Ketones
☒ Other LOVE CANAL ANALYTES

Inorganic Chemistry

- ☐ Potable Water, OCSS-I
☐ Fluoride
☐ Nitrate
☐ Trace Metals, HSL
☐ WQSN
☐ Other _____

Nuclear Chemistry

- ☐ Scheduled Analysis
☐ Other _____

NEW YORK STATE DEPARTMENT OF HEALTH
Wadsworth Center for Laboratories & Research
Albany, NY 12201-0509

CHAIN OF CUSTODY RECORD

INSTRUCTIONS: This form must be completed for any sample which might be used in enforcement proceedings or litigation. **TRANSPORTING SAMPLES:** During transport of the sample from sampling site to the laboratory, the chain of custody must be unbroken. Generally this will require that the sample be delivered by the sample collector or his designated representative who will sign for the receipt, integrity and transfer of the sample during shipment. If integrity of the sample is questionable, describe problem on the reverse side of this form.

SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
40mt Lot 2113013 VIALS / 058848	RB	8/11/93	1210	KINSE BLANK	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058859	RB	8/11/93	1210	KINSE BLANK	☒ Water ☐ Air ☐ Soil ☐ Other
/ 058860	10225A	8/19/93	810	10225 A	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058861	10225A	8/19/93	8:13	10225 A	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058862	10225B	8/19/93	1455	10225 B	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058863	10225B	8/18/93	1458	10225 B	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058864	10225C	8/18/93	1350	10225 C	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058872	10225C	8/18/93	1353	10225 C	☐ Water ☐ Air ☐ Soil ☐ Other

CUSTODY OF SAMPLES

NAME AFFILIATION DATE TIME

- 1a. Sample container prepared by
- b. Sample container prepared by
2. Received by
3. Received by
4. Sample Collected by
5. Sample Received by
6. Sample Received by
7. Sample Received by
8. Sample Received by
9. Sample Received by
10. Sample Received at Lab by
11. Sample Accessioned by

I Chem			
Rafaela Perna	WCLH	8.2.93	1400
[Signature]	NYSDEC	8/10/93	1500
[Signature]	NYSDEC	8/11/93	1200
[Signature]	NYSDEC	8/19/93	

NEW YORK STATE DEPARTMENT OF HEALTH
Wadsworth Center for Laboratories & Research
Albany, NY 12201-0509

CHAIN OF CUSTODY RECORD

INSTRUCTIONS: This form must be completed for any sample which might be used in enforcement proceedings or litigation. TRANSPORTING SAMPLES: During transport of the sample from sampling site to the laboratory, the chain of custody must be unbroken. Generally this will require that the sample be delivered by the sample collector or his designated representative who will sign for the receipt, integrity and transfer of the sample during shipment. If integrity of the sample is questionable, describe problem on the reverse side of this form.

SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
40ml VIALS / LOT 2113013 / 058873	10225C	8/18/93	1356	10225C MSMSD	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058874	10225C	9/16/93	1359	10225C MSMSD	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058890	10135	8/19/93	9:43	10135 HTO	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058891	10135	8/19/93	9:45	10135 HTO	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058892	BLNK	8/18/93	1545	TUBING RINSE BLANK	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058893	BLNK	8/18/93	1550	TUBING RINSE BLANK	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058902				XTRA	☐ Water ☐ Air ☐ Soil ☐ Other
/ 058903				XTRA	☐ Water ☐ Air ☐ Soil ☐ Other

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1a. Sample container prepared by	E Chern			
b. Sample container prepared by				
2. Received by	Ronald P. Kane	WCLM	8/12/93	1400
3. Received by	Agnes T. Khan	NYSDEC	8/10/93	1100
4. Sample Collected by	Agnes T. Khan	NYSDEC	8/17/93	
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Received at Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
Wadsworth Center for Laboratories & Research
Albany, NY 12201-0509

CHAIN OF CUSTODY RECORD

INSTRUCTIONS: This form must be completed for any sample which might be used in enforcement proceedings or litigation. TRANSPORTING SAMPLES: During transport of the sample from sampling site to the laboratory, the chain of custody must be unbroken. Generally this will require that the sample be delivered by the sample collector or his designated representative who will sign for the receipt, integrity and transfer of the sample during shipment. If integrity of the sample is questionable, describe problem on the reverse side of this form.

SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
4L LOT 2099012 040969	mw 10210C	8/11/93	10:10	10210 C	☒ Water ☐ Air ☐ Soil ☐ Other
040970	mw 10210C	8/11/93	10:15	10210 C MS/MSA	☒ Water ☐ Air ☐ Soil ☐ Other
040971	10225A	8/19/93	8:20	10225 A	☐ Water ☐ Air ☐ Soil ☐ Other
040974	mw 6209	8/4/93	11:55	6209 MS MSO	☐ Water ☐ Air ☐ Soil ☐ Other
2. 3L LOT 1317032 111866	mw 9251	8/4/93	0930	3251	☒ Water ☐ Air ☐ Soil ☐ Other
111867	mw 10174A	8/4/93	1005	10174A	☒ Water ☐ Air ☐ Soil ☐ Other
111873		8/4/93		DID NOT USE	☒ Water ☐ Air ☐ Soil ☐ Other
111874		8/4/93		DID NOT USE	☒ Water ☐ Air ☐ Soil ☐ Other

CUSTODY OF SAMPLES

NAME AFFILIATION DATE TIME

- 1a. Sample container prepared by E Chem
- b. Sample container prepared by E Chem
2. Received by W. L. H. R. 7/21/93 1145
3. Received by NYSDEC 7/28/93
4. Sample Collected by NYSDEC 8/14/93
5. Sample Received by NYSDEC 8/14/93
6. Sample Received by NYSDEC 8/14/93
7. Sample Received by NYSDEC 8/14/93
8. Sample Received by NYSDEC 8/14/93
9. Sample Received by NYSDEC 8/14/93
10. Sample Received at Lab by NYSDEC 8/14/93
11. Sample Accessioned by NYSDEC 8/14/93

NEW YORK STATE DEPARTMENT OF HEALTH
Wadsworth Center for Laboratories & Research
Albany, NY 12201-0509

CHAIN OF CUSTODY RECORD

INSTRUCTIONS: This form must be completed for any sample which might be used in enforcement proceedings or litigation. TRANSPORTING SAMPLES: During transport of the sample from sampling site to the laboratory, the chain of custody must be unbroken. Generally this will require that the sample be delivered by the sample collector or his designated representative who will sign for the receipt, integrity and transfer of the sample during shipment. If integrity of the sample is questionable, describe problem on the reverse side of this form.

SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE ☐ Water ☐ Air ☐ Soil ☐ Other
LOT 2115013 058858		7/21/93	1145	W4 TRIP BLANK ✓	☒ Water ☐ Air ☐ Soil ☐ Other
058977		7/21/93	1145	W4 TRIP BLANK ✓	☒ Water ☐ Air ☐ Soil ☐ Other
058979		7/21/93	1145	W5 TRIP BLANK ✓	☒ Water ☐ Air ☐ Soil ☐ Other
058884		7/21/93	1145	W5 TRIP BLANK ✓	☒ Water ☐ Air ☐ Soil ☐ Other
058885		7/21/93	1145	W6 TRIP BLANK /	☒ Water ☐ Air ☐ Soil ☐ Other
059071		7/21/93	1145	W6 TRIP BLANK /	☒ Water ☐ Air ☐ Soil ☐ Other
					☐ Water ☐ Air ☐ Soil ☐ Other
					☐ Water ☐ Air ☐ Soil ☐ Other

CUSTODY OF SAMPLES

NAME AFFILIATION DATE TIME

1a. Sample container prepared by	<u>ECheon</u>			
b. Sample container prepared by	<u>Ronald W. Payne</u>	<u>WCLHR</u>	<u>7/21/93</u>	<u>1145</u>
2. Received by	<u>[Signature]</u>	<u>NYSDEC</u>	<u>7/21/93</u>	
3. Received by	<u>[Signature]</u>	<u>NYSDEC</u>	<u>8/19/93</u>	
4. Sample Collected by				
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Received at Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
Wadsworth Center for Laboratories & Research
Albany, NY 12201-0509

CHAIN OF CUSTODY RECORD

INSTRUCTIONS: This form must be completed for any sample which might be used in enforcement proceedings or litigation. TRANSPORTING SAMPLES: During transport of the sample from sampling site to the laboratory, the chain of custody must be unbroken. Generally this will require that the sample be delivered by the sample collector or his designated representative who will sign for the receipt, integrity and transfer of the sample during shipment. If integrity of the sample is questionable, describe problem on the reverse side of this form.

SAMPLE ID (Lab Use Only)	FIELD REF #	COLL. DATE	COLL. TIME	COLLECTION POINT	SAMPLE TYPE
1642 LOT 2099012 BOTTLES ✓ 040975		8/18/93	1500	10225 B	☐ Water ☐ Air ☐ Soil ☐ Other
✓ 040979		8/18/93	1405	10225C MS/MSD	☐ Water ☐ Air ☐ Soil ☐ Other
✓ 040978		8/18/93	1400	10225C	☐ Water ☐ Air ☐ Soil ☐ Other
✓ 040980		8/19/93	950	10135 (HOT)	☐ Water ☐ Air ☐ Soil ☐ Other
/ 040976				XTRA	☐ Water ☐ Air ☐ Soil ☐ Other
_____					☐ Water ☐ Air ☐ Soil ☐ Other
_____					☐ Water ☐ Air ☐ Soil ☐ Other
_____					☐ Water ☐ Air ☐ Soil ☐ Other

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1a. Sample container prepared by	J Chem			
b. Sample container prepared by				
2. Received by	Russell Pauer	WCLM	8-2-93	1400
3. Received by	James M...	NYSDCL	8-4-93	
4. Sample Collected by	James M...	NYSDCL	8-19-93	
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Received at Lab by				
11. Sample Accessioned by				

5/19/93

FAX MESSAGE:

TO E. TENCZAR
O&M Section B.C.S.
Room 208
457-0927

FROM M. MOORE
LOVE CANAL T.P.
716 283-0111

3 plus Cover.

Liz, would you see that Jerry
Romie Ben & Dave Foster get copies of
this schedule? Thanks for the help!!!

Maurice

Copy To: Jerry
Ben
Ronnie
Dave Foster

(1)

Here is a tentative schedule for long term monitoring 1993. There is little flexibility in wells sampled. They are chosen for location, pump type & purge speed. Procedure will be as last year. Purge then sample all at once. We need to include method blanks each week. They are as follows.

Week #1 De-ionized water, straight from our supply into sample bottles.
BNA'S & VOA'S

Week #2 HPLC Grade water from our supply @ Love Canal same as above.
- this will check lab equipment & bottles.

Week #3 Instruments are sprayed clean after use. HPLC grade water will be drizzled & captured as a sample.

Week #4 Rainwater Blank - precipitation will be collected and sampled. This blank is weather dependant & will be taken any week it rains. Volume will be as much as possible.

(2)

Week #5 There is a sample this week of
expressway runoff. This sample has to
float through the weeks to be grabbed
when possible. The method blank for
this week is HPLC GRADE H_2O exposed
to AIR in clean wide mouth beakers
After no less than 6 hrs it will
be transferred to sample containers.

Week 6 The method blank will be
a tubing rinse from the geoguard tubing
taken directly from its storage bag as
it is sprayed off with deionized water.

A little flexibility is needed I
would like to have ~~one~~ extra set of
bottles to carry throughout sampling for
spares. I will not sample more wells
~~during~~ during a week but less is possible.
We're not sure of delivery of samples
I may need bottles all at once to
reduce transportation cost. I'll need a
supply of Blue ice.

SDG NARRATIVE

Laboratory Name: New York State Department of Health
Wadsworth Center for Laboratories and Research
Division of Environmental Sciences

Case Number: LCW93
Sample Delivery Group: 0816W (LOAC batches 8031, 8032 and 8033)
Contract Number:
Sample Numbers: 932023 to 932032

VOLATILE: Analyses were performed within time limits. Surrogate and spike recoveries were within acceptance limits.

~~The method-blank run contained several target analytes at levels less than 1 µg/L, probably due to carryover from the standard run which immediately preceded it.~~ The concentrations were well below the CRQLs for these compounds but we are concerned about this problem and are working to correct it.

As in previous similar field blanks, ~~the sample designated as a "Tubing Blank" showed the presence of 3 isomers of chloropropene.~~ These compounds have been found in no other samples or blanks.

SEMIVOLATILE: Samples were extracted and analyzed within the required holding times.

Recoveries of surrogates for all samples were within acceptance limits.

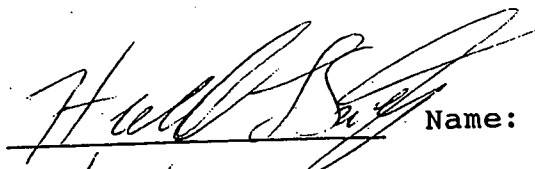
Matrix-spike compound 4-nitrophenol was not recovered from these samples. One of the possible causes of this may have been that GPC cleanup was performed.

PESTICIDE/PCB: The laboratory experienced a problem meeting retention-time window requirements during the analytical sequence. Endrin breakdown on one GC-column exceeded the QC limits.

EPA sample number 10135 (lab no. 932029) contains EC positive responses for all four BHCs on both GC columns. Only alpha-BHC was confirmed by GC/MS. The other BHCs were not confirmed because the concentrations in the extract were below nominal GC/MS detection limits. Also, EPA sample number 10135 (lab no. 932029) surrogate recovery for tetrachloro-m-xylene is outside the advisory QC limits. This appears to be ascribable to coeluting interferants in the extract.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Quality Assurance Officer as verified by the following signature.

Signature



Name: Herbert L. Swift

Date

9/15/93

Title: Quality Assurance Officer

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000056

EPA SAMPLE NO.

8031HB

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 932032

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

Lab File ID: 4_0826E

Level: (low/med) LOW

Date Received: 08/20/93

% Moisture: not dec.

Date Analyzed: 08/26/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume:

(uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.

COMPOUND

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	0.4	BJ
67-64-1	-----Acetone	1	BJ
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	0.3	BJ
75-34-3	-----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	0.4	BJ
71-55-6	-----1,1,1-Trichloroethane	0.2	BJ
56-23-5	-----Carbon Tetrachloride	10	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	0.1	J
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	0.03	BJ
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	0.05	J
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	0.1	BJ
108-90-7	-----Chlorobenzene	0.2	BJ
100-41-4	-----Ethylbenzene	0.06	BJ
100-42-5	-----Styrene	0.05	BJ
1330-20-7	-----Xylene (total)	0.4	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000058

EPA SAMPLE NO.

(8031TB)

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 932031

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

Lab File ID: 4_0826F

Level: (low/med) LOW

Date Received: 08/20/93

% Moisture: not dec.

Date Analyzed: 08/26/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.

COMPOUND

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.3	BJ
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	0.1	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	0.09	BJ
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	0.09	BJ
56-23-5	Carbon Tetrachloride	10	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	0.04	J
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.1	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	0.03	BJ
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.2	BJ
108-90-7	Chlorobenzene	0.2	BJ
100-41-4	Ethylbenzene	0.08	BJ
100-42-5	Styrene	0.09	BJ
1330-20-7	Xylene (total)	0.3	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000059 EPA SAMPLE NO.

TUBE BK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 932030

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

Lab File ID: 4_0826G

Level: (low/med) LOW

Date Received: 08/20/93

% Moisture: not dec.

Date Analyzed: 08/26/93

GC Column: HP5

ID#: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.6	BJ
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	0.09	BJ
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	BJ
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	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	0.08	J
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	0.1	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.1	BJ
108-90-7	Chlorobenzene	0.1	BJ
100-41-4	Ethylbenzene	0.07	BJ
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	0.4	BJ

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000060

EPA SAMPLE NO.

TUBE BK

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 932030

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

Lab File ID: 4_0826G

Level: (low/med) LOW

Date Received: 08/20/93

% Moisture: not dec.

Date Analyzed: 08/26/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 107-05-1	1-Propene, 3-chloro	1.06	2	JN
2. 104-76-7	1-Hexanol, 2-ethyl	17.83	3	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93_

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: 4_0826C

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/26/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.

COMPOUND

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene-Chloride	0.8	J
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	0.1	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	0.09	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	0.4	J
71-55-6	1,1,1-Trichloroethane	0.1	J
56-23-5	Carbon Tetrachloride	0.04	J
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	0.06	J
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	0.1	J
108-88-3	Toluene	0.1	J
108-90-7	Chlorobenzene	0.1	J
100-41-4	Ethylbenzene	0.2	J
100-42-5	Styrene	0.2	J
1330-20-7	Xylene (total)	0.6	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLBK02

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID:

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

Lab File ID: 4_0827C

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 08/27/93

GC Column: HP5

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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	0.4	J
75-09-2	Methylene Chloride	0.6	J
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	0.3	J
75-35-4	1,1-Dichloroethene	0.2	J
75-34-3	1,1-Dichloroethane	0.1	J
540-59-0	1,2-Dichloroethene (total)	0.4	J
67-66-3	Chloroform	0.2	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	0.7	J
71-55-6	1,1,1-Trichloroethane	0.2	J
56-23-5	Carbon Tetrachloride	0.05	J
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	0.2	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	0.1	J
108-10-1	4-Methyl-2-Pentanone	0.2	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	0.2	J
79-34-5	1,1,2,2-Tetrachloroethane	0.2	J
108-88-3	Toluene	0.2	J
108-90-7	Chlorobenzene	0.2	J
100-41-4	Ethylbenzene	0.2	J
100-42-5	Styrene	0.2	J
1330-20-7	Xylene (total)	0.6	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 8033MB

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >D0903

Level: (low/med) LOW

Date Received: 8/20/93

Moisture:

Date Extracted: 8/23/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 9/03/93

SPC Cleanup: (Y/N) Y pH:

Dilution Factor: 1.0

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

Q

CAS NO.	COMPOUND		
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl) ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl) ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
111-91-1	bis(2-Chloroethoxy) methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 8033MB

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >D0903

Level: (low/med) LOW

Date Received: 8/20/93

Moisture:

Date Extracted: 8/23/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 9/03/93

IPC Cleanup: (Y/N) Y

pH:

Dilution Factor: 1.0

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25.	U
100-02-7-----	4-Nitrophenol	25.	U
132-64-9-----	Dibenzofuran	10.	U
121-14-2-----	2,4-Dinitrotoluene	10.	U
84-66-2-----	Diethylphthalate	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether	10.	U
86-73-7-----	Fluorene	10.	U
100-01-6-----	4-Nitroaniline	25.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25.	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	U
118-74-1-----	Hexachlorobenzene	10.	U
87-86-5-----	Pentachlorophenol	25.	U
85-01-8-----	Phenanthrene	10.	U
120-12-7-----	Anthracene	10.	U
86-74-8-----	Carbazole	10.	U
84-74-2-----	Di-n-butylphthalate	10.	U
206-44-0-----	Fluoranthene	10.	U
129-00-0-----	Pyrene	10.	U
85-68-7-----	Butylbenzylphthalate	10.	U
91-94-1-----	3,3'-Dichlorobenzidine	5	JB
56-55-3-----	Benzo(a)anthracene	10.	U
218-01-9-----	Chrysene	4	JB
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	JB
117-84-0-----	Di-n-octylphthalate	10.	U
205-99-2-----	Benzo(b)fluoranthene	4	JB
207-08-9-----	Benzo(k)fluoranthene	4	JB
50-32-8-----	Benzo(a)pyrene	3	JB
193-39-5-----	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3-----	Dibenzo(a,h)anthracene	10.	U
191-24-2-----	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 8033MB

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >D0903

Level: (low/med) LOW

Date Received: 8/20/93

Moisture:

Date Extracted: 8/23/93

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 9/03/93

PC Cleanup: (Y/N) Y

pH:

Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 6376927	Cyclopentanone, 2-(1-methylpropyl)- (9CI)	8.23	6.	B
2. 32064770	5-Nonen-4-one (8CI9CI)	9.05	4.	B
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: WCLR

Contract:

Lab Code: 10763

Case No.: LCW93

SAS No.:

SDG No.: 0816W

Matrix: (soil/water) WATER

Lab Sample ID: 8032MB

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

% Moisture: decanted: (Y/N)

Date Received:

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 08/23/93

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/31/93

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 5.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.050	U
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

FEDERAL

Express

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN GRAY.
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS.

well 1

AIRBILL NUMBER

342199034



YOUR FEDERAL EXPRESS ACCOUNT NUMBER

1172-1253-3

DATE

7/15/85

If Hold For Pick-Up or Saturday Delivery,
Recipient's Phone Number

FROM (Your Name)

COMPANY

DEPARTMENT/FLOOR NO.

STREET ADDRESS

TO (Recipient's Name)

COMPANY

DEPARTMENT/FLOOR NO.

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

CITY

STATE

CITY

STATE

AIRBILL NO. 342199034

ZIP ACCURATE ZIP CODE REQUIRED FOR CORRECT INVOICING

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM CARRIAGE HEREOF. F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00. FEDERAL EXPRESS DOES NOT CARRY CARGO LIABILITY INSURANCE.

ZIP ACCURATE ZIP CODE REQUIRED FOR OVERNIGHT DELIVERY

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

PAYMENT: ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card
☐ Cash In Advance Account Number/Credit Card Number

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES CHECK ONLY ONE BOX	DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED	PACKAGES	WEIGHT	DECLARED VALUE	D/S
☒ PRIORITY 1 (OVERNIGHT PACKAGES) (Up to 70 LBS.)	☐ HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION. SIGN IN SERVICE GUIDE. RECIPIENT'S PHONE NUMBER IS REQUIRED.				
☐ STANDARD AIR DELIVERY 2ND BUSINESS DAY FOLLOWING PICK-UP (Up to 70 LBS.)	☐ DELIVER				
☐ ORM'S AND RADIOACTIVE MATERIAL ONLY	☐ SATURDAY SERVICE REQUIRED See Reverse (Extra charge applies for delivery)				
	☐ RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only; extra charge)				
	☐ SSS (Signature Security Service required; extra charge applies)				
	☐ DRY ICE _____ LBS.				
	☐ OTHER SPECIAL SERVICE _____				
	☐				
	☐				
	☐				

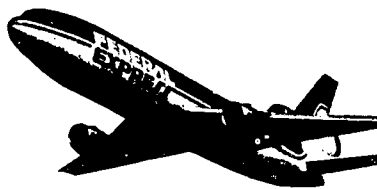
PACKAGES	WEIGHT	DECLARED VALUE	D/S
TOTAL	TOTAL	TOTAL	

RECEIVED AT SHIPPER'S DOOR
☐ REGULAR STOP
☐ ON-CALL STOP
☐ F.E.C. LOC.

Federal Express Corporation Employee No. _____

DATE/TIME For Federal Express Use _____

AGT/PRO	ADVANCE ORIGIN
AGT/PRO	ADVANCE DESTINATION
	OTHER
	TOTAL CHARGES



PART #2041730764
REVISION DATE 2/83 \$
PRINTED U.S.A.

SHIPPER'S COPY

1. In tendering the shipment for carriage the shipper agrees to these TERMS AND CONDITIONS OF CONTRACT which no agent or employee of the parties may alter and that this Federal Express Airbill is NON-NEGOTIABLE and has been prepared by him or on his behalf by Federal Express.

2. The shipper agrees that carriage is subject to terms and conditions of contract stated herein and those terms and conditions which are as so stated in the most recent Federal Express Service Guide, which is available for inspection and incorporated into this contract by reference.

3. In tendering the shipment for carriage, THE SHIPPER WARRANTS that the shipment is packaged adequately to protect the enclosed goods and to insure safe transportation with ordinary care and handling, and that each package is appropriately labeled and is in good order (except as noted for carriage as specified).

4. When the destination of the shipment is not within the Federal Express Air terminal zone as listed in the most recent Federal Express Service Guide, Federal Express makes no commitment with respect to time of delivery of the shipment.

5. In the event of international carriage of any shipment hereunder, the rules relating to liability established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air signed at Warsaw, Poland on October 12, 1929 shall apply to the carriage insofar as the same is governed thereby.

6. **DECLARED VALUE AND LIMITATION OF LIABILITY. THE LIABILITY OF FEDERAL EXPRESS IS LIMITED TO THE SUM OF \$100.00** unless a higher value is declared for carriage herein and a greater charge paid at the rate of 30¢ per \$100.00 value. The maximum higher declared value is \$2000.00. Shipments containing items of extraordinary value, including, but not limited to, drawings, paintings, sculptures, porcelain, ceramics, furs, fur clothing, fur trimmed clothing, jewelry, watches, gems, stones (precious or semi-precious cut or uncut), industrial diamonds, costumes, jewelry, precious metals, gold, silver, (bullion, dust or precipitates), platinum (except as an integral part of electronic machinery), money, currency, coins, trading stamps, stocks, bonds, cash letters or their equivalent or other extraordinary valuable items, are limited to a maximum declared value of \$500.00. When multiple packages are placed on a single airbill but the shipper has not specified the declared value of each individual package, the declared value for each individual package will be determined by dividing the total declared value on the airbill by the number of packages indicated on the airbill, subject to a \$100.00 minimum declared value per individual package. The liability of Federal Express is limited to the declared value of the shipment or the amount of loss or damage actually sustained, whichever is lower.

Federal Express is not liable for loss, damage, delay, mis-delivery or non-delivery not caused by its own negligence or any loss, damage, delay, mis-delivery or non-delivery caused by the act, default or omission of the shipper, consignee, or any other party who claims interest in the shipment, the nature of the shipment or any defect, characteristic of inherent vice thereof; violation by the shipper or consignee of any of the conditions of contract contained in the airbill or in the Federal Express Service Guide, including, but not limited to, improper or insufficient packing, securing, marking or addressing, or failure to observe any of the rules relating to shipments not acceptable for transportation or shipments acceptable only under

certain conditions; acts of God, perils of the air, public enemies, public authorities acting with actual or apparent authority, authority of law, acts or omissions of customs or quarantine officials, riots, strikes or other local disputes, civil commotions, hazards incident to a state of war, weather conditions or mechanical delay of the aircraft or acts or omissions of any person other than FEC, including compliance with delivery instructions from the shipper or consignee. FEC shall not be liable for the loss of articles loaded and sealed in packages by the shipper provided the seal is unbroken at the time of delivery and the package retains its basic integrity. **FEDERAL EXPRESS SHALL NOT BE LIABLE IN ANY EVENT FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR INCOME WHETHER OR NOT FEDERAL EXPRESS HAD KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED.**

7. **CLAIMS. WRITTEN NOTICE OF LOSS DUE TO DAMAGE, SHORTAGE OR DELAY MUST BE REPORTED BY THE SHIPPER WITHIN 15 DAYS AFTER THE DELIVERY OF THE SHIPMENT. WRITTEN NOTICE OF LOSS DUE TO NON-RECEIPT OF THE SHIPMENT OR CARRIAGE.** Written notification will be considered to have been made if the shipper calls and notifies the Customer Service Department at 800/238-5355 (in Tennessee 800/542-5171) and as soon as practicable thereafter files a written notification. Documentation of all claims other than over-charge claims must be submitted in writing to FEC within ninety (90) days after receipt of written notification. No claim for damage will be entertained until all transportation charges have been paid. The amount of a claim may not be deducted from the transportation charges. Receipt of the shipment by the consignee without written notification of damage on the delivery receipt shall be prima facie evidence that the shipment was delivered in good condition, except that in the case of claims for concealed damage which is not discovered at the time of delivery, the shipper shall notify FEC in writing as promptly as possible after the discovery thereof and in any event not later than 15 days from the date of delivery. The shipper must make the original shipping cartons and packing available for inspection by FEC. Claims for overcharges and refunds must be made in writing to FEC within twelve (12) months of the billing date. All claims must be filed by the shipper.

8. All shipments are subject to inspection by FEC, including but not limited to, opening the shipment. However, FEC is not obligated to perform such inspection.

9. C.O.D. services are not available and a C.O.D. shipment sent in error will be delivered as a normal pre-paid or collect shipment.

10. Federal Express carries no cargo liability insurance but maintains a separate fund for the satisfaction of cargo claims which may arise out of the carriage of cargo pursuant to the conditions of contract contained herein and in the most recent Federal Express Service Guide.

11. Notwithstanding the shipper's instructions to the contrary, the shipper shall be prima facie liable for all costs and expenses related to the shipment of the package, and for costs incurred in either returning the shipment to the shipper or warehousing the shipment pending disposition.

12. Saturday Delivery: Recipient's phone number is required.

13. Federal Express assumes no responsibility for billing disputes resulting from inaccuracies contained in, or omissions from, the airbill.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

①

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
4L LOT # 2099012 04/005 ↓ 04/006	7161	W1	MW 7161 Pest PCBs BNA MS/MSD	WATER
23L Lot 1317032 111799	9205	W2	MW BNA & Pest/PCB MS/MSD	
111800	8210		MW 8210 BNA	
111802	7205		MW 7205 BNA	
111807	7161		MW 7161 BNA	
111805	7155		MW 7155 BNA	
111806	7130		MW 7130 BNA	WATER

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
☒ Cool, 4°C
☐ Acidification (specify)
☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO
LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN.
GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED
BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE
WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER
OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE
IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS
FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container				
Prepared by	I Chem			
2. Received by	Ronald W. Pauer	WCLTR	6/24/93	1330
3. Received by	BEN LUGGDO	NYSDOC	6/23/93	9:11
4. Sample Collected by	Maureen Mo	MS DEC	6/24/93	9:00
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

(2)

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
23C Lot 1317032				
BNA's 112032 ✓	7120		mw 7120 BNA	WATER
111849 ✓	8110		mw 8110 BNA	
1C Lot 2114012				
043123 ✓	9205		mw 9205 Pest	
043163 ✓	8210		mw 8210 Pest	
043166 ✓	7205		mw 7205 Pest	
043167 ✓	7161		mw 7161 Pest	
1C Lot 2128012				
051316 ✓	7155		mw 7155 Pest	
051318 ✓	7130		mw 7130 Pest	WATER

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
- ☒ Cool, 4°C
- ☐ Acidification (specify)
- ☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container Prepared by	I Chem			
2. Received by	R. J. P. P. P.	WCL + R	6/23/93	1330
3. Received by	BEN LOPEZ	NYSDEC	6/23/93	9:10
4. Sample Collected by	Spencer Mo	NYSDEC	6/24/93	9:10
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

3

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
1C Lot 212811				
Pest 05/13/93	7120		MW 7120 Pest	WATER
05/13/93	8110		MW 8110 Pest	
40ml Lot 213013				
059869	9205		MW 9205	
870	9205		MW 9205	
871	8210		MW 8210	
872	8210		MW 8210	
873	7205			
874	7205			WATER

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
☒ Cool, 4°C
☐ Acidification (specify)
☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO
LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN.
GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED
BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE
WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER
OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE
IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS
FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container				
Prepared by	I Chem			
2. Received by	Ronald R. R...	WCLH	6/20/93	1530
3. Received by	BEN LOREDO	NYS DEC	6/23/93	9:11
4. Sample Collected by	James M...	NYS DEC	6/24/93	9:12
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

(4)

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
40ml Wt 2113013 875	7161		MW 7161	WATER
876	7161		MW 7161	
877	7155		MW 7155	
878	7155		MW 7155	
879	7130		MW 7130	
880	7130		MW 7130	
881	7120		MW 7120	WATER
882	7120		MW 7120	

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
- ☒ Cool, 4°C
- ☐ Acidification (specify)
- ☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO
LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN.
GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED
BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE
WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER
OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE
IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS
FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container Prepared by	I Chem			
2. Received by	Ronald W. Panni	WCCAR	6/22/93	1330
3. Received by	BEN LOREDO	NYSDEC	6/23/93	9:11
4. Sample Collected by	Maurice J. Moore	NYSDEC	6/24/93	900
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

(5)

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
Wont hot 2112013 059900	8110 ✓		MW 8110	WATER
901	W1TB ✓		WEEK ONE TRIP BLANKS	
902	W1TB ✓		WEEK ONE	
903	W2TB		WEEK TWO	
904	W2TB		WEEK TWO	
883	8110 ✓		MW 8110	
				WATER

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
☒ Cool, 4°C
☐ Acidification (specify)
☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container Prepared by	I Chem			
2. Received by	Ronald Rance	WCC+R	6/14/93	1330
3. Received by	BEN LOREDO	NYSDEC	6/23/93	9:11
4. Sample Collected by	Alfonso M.	NYSDEC	6/24/93	9:10
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

(6)

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
40 ml Lot 2113013 884	7161 MS		MW 7161	WATER
885	7161 MSD		MW 7161	
886	DI H2O		DI WATER BLANK	
887	DI H2O		DI WATER BLANK	
888				
889				
890				
891				WATER

SPECIFY METHOD OF PRESERVATION

☐ NaOH

☒ Cool, 4°C

☐ Acidification (specify)

☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO
LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN.
GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED
BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE
WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER
OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE
IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS
FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container Prepared by	I Chem			
2. Received by	Ronald J. Paul	WCC #1	6/23/93	1330
3. Received by	BEN LOREDO	NYSDOC	6/23/93	9:11
4. Sample Collected by	Spencer M. ...	NYSDOC	6/24/93	9:10
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

7

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
2. 3C Lot 1311032 111836 x				WATER
111838 x				
111841 x				
111843 x				
111844 x				
112024 112027 x				
112027 x				
112030 x				WATER

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
☒ Cool, 4°C
☐ Acidification (specify)
☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO
LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN.
GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED
BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE
WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER
OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE
IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS
FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container				
Prepared by	I Chem			
2. Received by	Ronald P. Pano	WCC+R	6/14/93	1330
3. Received by	BEN LOREDO	NYS DEC	6/23/93	9:11
4. Sample Collected by	James J. No	NYS DEC	6/24/93	9:12
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

(9)

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
1C Lot 2128012 051319 x				WATER
051320 x				
051321 x				
051322 x				
051323 x				
051324 x				
051325 x				
051326 x				WATER

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
☒ Cool, 4°C
☐ Acidification (specify)
☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO
LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN.
GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED
BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE
WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER
OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE
IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS
FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container Prepared by	I Chem			
2. Received by	Ronald W. Paine	WCC+R	6/24/93	1330
3. Received by	BEN LOPEZ	NYS DEC	6/23/93	9:11
4. Sample Collected by	James L. Moore	NYS DEC	6/24/93	9:00
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH
ALBANY, N.Y. 12201-0509

(9)

CHAIN OF CUSTODY RECORD

Must be completed for samples which might be used
for enforcement proceedings or litigation.

SAMPLE ID (LAB USE ONLY)	FIELD REFERENCE NO.	DATE/TIME COLLECTED	SAMPLE COLLECTION POINT	TYPE: WATER, AIR SOIL, ETC.
40 ml Lot 2113013 892				WATER
893				
894				
895				
896				
897				
898				
899				WATER

SPECIFY METHOD OF PRESERVATION

- ☐ NaOH
☒ Cool, 4°C
☐ Acidification (specify)
☐ Other (specify)

TRANSPORTING SAMPLES

DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO
LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN.
GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED
BY THE SAMPLE COLLECTOR OF HIS DESIGNATED REPRESENTATIVE
WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER
OF THE SAMPLE DURING SHIPMENT. IF INTEGRITY OF SAMPLE
IS QUESTIONED, DESCRIBE PROBLEM ON REVERSE SIDE OF THIS
FORM.

CUSTODY OF SAMPLES

	NAME	AFFILIATION	DATE	TIME
1. Sample Container Prepared by	J. Chem			
2. Received by	Ronald R. Rouse	WCCRA	6/24/93	1330
3. Received by	BEN LOREDO	NYSDOC	6/23/93	9:11
4. Sample Collected by	James M. Mory	NYSDOC	6/24/93	9:00
5. Sample Received by				
6. Sample Received by				
7. Sample Received by				
8. Sample Received by				
9. Sample Received by				
10. Sample Rec'd Lab by				
11. Sample Accessioned by				

SPLITS AT
LaSalle ?

N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
BUREAU OF HAZARDOUS SITE CONTROL

* ANALYTICAL REPORT *

SITE NAME: LOVE CANAL

SITE CODE: 93202

SUBMITTED BY: MAURICE MOORE

DATE OF REPORT: 11/30/93

DATA RELEASED BY: F. WOODWARD

REPORT QUALIFIERS: VOLATILES, BNA AND PESTICIDES ONLY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SAMPLE SUBMISSION

SITE NAME: LOVE CANAL

REGISTRY NUMBER: 932020

SAMPLE SUBMISSION DATE:

SAMPLES SUBMITTED BY: MAURICE MOORE

T&A code: 6204

TOTAL NUMBER OF SAMPLES SUBMITTED: 8

***** ORGANIC SAMPLES BY MATRIX *****

WATER: VOA: 8 BNA: 8 PEST: 8 PCB:

SOIL: VOA: BNA: PEST: PCB:

OTHER: VOA: BNA: PEST: PCB:

OTHER:

***** METALS SAMPLES BY MATRIX *****

WATER: SOIL: OTHER:

METALS SELECTED:

=====

COMMENTS: SAMPLES WERE SUBMITTED OVER SEVERAL WEEKS

=====

***** REPORT INFORMATION *****

VOLATILE DATA REPORTED ____/____/____ BY_G.DIETER_____

BNA DATA REPORTED ____/____/____ BY_M.McEWEN_____

PEST/PCB DATA REPORTED ____/____/____ BY_M.McEWEN_____

METALS DATA REPORTED ____/____/____ BY_____

REPORT COMPLETED AND FILED _11/_30/_93 BY_F.WOODWARD_____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: TRIP BLANK

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-197-02

MATRIX: WATER

SUBMISSION DATE: 07/16/93

ARCHIVE NO.: U19702

ANALYSIS DATE: 07/26/93

DATA FILE NO.: 9303B49A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10272

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-204-01

MATRIX: WATER

SUBMISSION DATE: 07/23/93

ARCHIVE NO.: U20401

ANALYSIS DATE: 07/26/93

DATA FILE NO.: 9303B53A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS: YES
Chloromethane	ND	3 - METHYL PENTANE = 285 PPB
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SEMI-VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10272

% SOLID: NA

SAMPLE NUMBER: 993-204-01

MATRIX: GROUNDWATER

SUBMISSION DATE: 07/23/93

ARCHIVE NO.: S20401

ANALYSIS DATE: 08/31/93

DATA FILE NO.: 9305F71A

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	ND	Detection limit - CRDL
2-Chlorophenol	ND	
Bis(2-Chloroethyl)Ether	ND	
1 3-Dichlorobenzene	ND	
1 4-Dichlorobenzene	ND	TIC -
1 2-Dichlorobenzene	ND	
Benzyl Alcohol	ND	
2-Methylphenol	ND	
bis(2-chloroisopropyl)Ether	ND	Molecular sulfur - 39 ug/V
Hexachloroethane	ND	
4-Methylphenol	ND	
N-Nitroso-di-propylamine	ND	
Nitrobenzene	ND	
Isophorone	ND	
2-Nitrophenol	ND	
2 4-Dimethylphenol	ND	
bis(2-chloroethoxy)Methane	ND	
2 4-Dichlorophenol	ND	
1 2 4-Trichlorobenzene	ND	
Naphthalene	ND	
Benzoic acid	ND	
4-Chloroaniline	ND	
Hexachlorobutadiene	ND	
4-Chloro-3-Methylphenol	ND	
2-Methylnaphthalene	ND	
Hexachlorocyclopentadiene	ND	
2,4,6-Trichlorophenol	ND	
2,4,5-trichlorophenol	ND	
2-Chloronaphthalene	ND	
2-Nitroaniline	ND	
Acenaphthylene	ND	
Dimethyl Phthalate	ND	
2,6-Dinitrotoluene	ND	
Acenaphthene	ND	
3-Nitroaniline	ND	
2,4-Dinitrophenol	ND	
Dibenzofuran	ND	
4-Nitrophenol	ND	

CON'T SAMPLE NUMBER: 993-204-01

DATA FILE: 9305F71A

page 2

COMPOUND	CONC(ug/l)	
2,4-Dinitrotoluene	ND	
Fluorene	ND	
4-Chlorophenyl-phenylether	ND	
Diethylphthalate	ND	
2 Methyl 4,6-Dinitrophenol	ND	
N-Nitrosodiphenylamine	ND	
4-Nitroaniline	ND	
4-Bromophenyl-phenylether	ND	
Hexachlorobenzene	ND	
Pentachlorophenol	ND	
Phenanthrene	ND	
Anthracene	ND	
Di-N-Butylphthalate	2.9	B - 3
Carbazole	ND	
Fluoranthene	ND	
Pyrene	ND	
4,4'-DDD	ND	
Butylbenzylphthalate	ND	
Chrysene	ND	
Benzo (a) Anthracene	ND	
bis(2-Ethylhexyl)Phthalate	1.1	
Di-N-Octyl Phthalate	ND	
Benzo(b/k)Fluoranthene	ND	
Benzo(a)Pyrene	ND	
Indeno(1,2,3-cd)Pyrene	ND	
Dibenz(a,h)Anthracene	ND	
Benzo(g,h,i)Perylene	ND	

TCL PESTICIDES/AROCLORS ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10272

SAMPLE NUMBER: 993-204-01

EXTRACTION METHOD: SPE

MATRIX: GROUNDWATER

% SOLID: NA

PESTICIDE	QUANT (ug/L)		
ALPHA-BHC	I	ND	I
BETA-BHC	I	ND	I
DELTA-BHC	I	ND	I
GAMMA-BHC	I	ND	I
HEPTACHLOR	I	ND	I
ALDRIN	I	ND	I
HEPTACHLOR EPOXIDE	I	ND	I
ENDOSULFAN I	I	ND	I
DIELDRIN	I	ND	I
4,4'-DDE	I	ND	I
ENDRIN	I	ND	I
ENDOSULFAN II	I	ND	I
4,4'-DDD	I	ND	I
ENDOSULFAN SULFATE	I	ND	I
4,4'-DDT	I	ND	I
ENDRIN ALDEHYDE	I	ND	I
ENDRIN KETONE	I	ND	I
METHOXYCHLOR	I	ND	I
CHLORDANE (ALPHA; GAMMA)	I	ND	I
TOXAPHENE	I	NA	I

DETECTION LIMIT:

PESTICIDES - 0.05 ug/l

AROCLORS - Not Analyzed

AROCLOR	QUANT ()	
1016	I	NA
1221	I	NA
1232	I	NA
1242	I	NA
1248	I	NA
1254	I	NA
1260	I	NA

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: TRIP BLANK

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-204-02

MATRIX: WATER

SUBMISSION DATE: 07/23/93

ARCHIVE NO.: U20402

ANALYSIS DATE: 07/26/93

DATA FILE NO.: 9303B52A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10205

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-211-04

MATRIX: WATER

SUBMISSION DATE: 07/30/93

ARCHIVE NO.: V21104

ANALYSIS DATE: 08/02/93

DATA FILE NO.: 9303B91A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SEMI-VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10205

% SOLID: NA

SAMPLE NUMBER: 993-211-04

MATRIX: GROUNDWATER

SUBMISSION DATE: 07/30/93

ARCHIVE NO.: S21104

ANALYSIS DATE: 08/31/93

DATA FILE NO.: 9305F73A

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	ND	Detection limit - CRDL
2-Chlorophenol	ND	
Bis(2-Chloroethyl)Ether	ND	
1 3-Dichlorobenzene	ND	
1 4-Dichlorobenzene	ND	TIC -
1 2-Dichlorobenzene	ND	
Benzyl Alcohol	ND	
2-Methylphenol	ND	
bis(2-chloroisopropyl)Ether	ND	Molecular sulfur - 101 ug/l
Hexachloroethane	ND	
4-Methylphenol	ND	
N-Nitroso-di-propylamine	ND	
Nitrobenzene	ND	
Isophorone	ND	
2-Nitrophenol	ND	
2 4-Dimethylphenol	ND	
bis(2-chloroethoxy)Methane	ND	
2 4-Dichlorophenol	ND	
1 2 4-Trichlorobenzene	ND	
Naphthalene	ND	
Benzoic acid	ND	
4-Chloroaniline	ND	
Hexachlorobutadiene	ND	
4-Chloro-3-Methylphenol	ND	
2-Methylnaphthalene	ND	
Hexachlorocyclopentadiene	ND	
2,4,6-Trichlorophenol	ND	
2,4,5-trichlorophenol	ND	
2-Chloronaphthalene	ND	
2-Nitroaniline	ND	
Acenaphthylene	ND	
Dimethyl Phthalate	ND	
2,6-Dinitrotoluene	ND	
Acenaphthene	ND	
3-Nitroaniline	ND	
2,4-Dinitrophenol	ND	
Dibenzofuran	ND	
4-Nitrophenol	ND	

CON'T SAMPLE NUMBER: 993-211-04

DATA FILE: 9305F73A

page 2

COMPOUND	CONC(ug/l)
2,4-Dinitrotoluene	ND
Fluorene	ND
4-Chlorophenyl-phenylether	ND
Diethylphthalate	ND
2 Methyl 4,6-Dinitrophenol	ND
N-Nitrosodiphenylamine	ND
4-Nitroaniline	ND
4-Bromophenyl-phenylether	ND
Hexachlorobenzene	ND
Pentachlorophenol	ND
Phenanthrene	ND
Anthracene	ND
Di-N-Butylphthalate	5 B - 3
Carbazole	ND
Fluoranthene	ND
Pyrene	ND
4,4'-DDD	ND
Butylbenzylphthalate	ND
Chrysene	ND
Benzo (a) Anthracene	ND
bis(2-Ethylhexyl)Phthalate	1.4 B - 2.4
Di-N-Octyl Phthalate	ND
Benzo(b/k)Fluoranthene	ND
Benzo(a)Pyrene	ND
Indeno(1,2,3-cd)Pyrene	ND
Dibenz(a,h)Anthracene	ND
Benzo(g,h,i)Perylene	ND

TCL PESTICIDES/AROCLORS ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10205

SAMPLE NUMBER: 993-211-04

EXTRACTION METHOD: SPE

MATRIX: GROUNDWATER

% SOLID: NA

PESTICIDE QUANT (ug/L)

ALPHA-BHC | ND |

BETA-BHC | ND |

DELTA-BHC | ND |

GAMMA-BHC | ND |

HEPTACHLOR | ND |

ALDRIN | ND |

HEPTACHLOR EPOXIDE | ND |

ENDOSULFAN I | ND |

DIELDRIN | ND |

4,4'-DDE | ND |

ENDRIN | ND |

ENDOSULFAN II | ND |

4,4'-DDD | ND |

ENDOSULFAN SULFATE | ND |

4,4'-DDT | ND |

ENDRIN ALDEHYDE | ND |

ENDRIN KETONE | ND |

METHOXYCHLOR | ND |

CHLORDANE (ALPHA; GAMMA) | ND |

TOXAPHENE | NA |

DETECTION LIMIT:

PESTICIDES - 0.05 ug/l

AROCLORS - Not Analyzed

AROCLOR QUANT ()

1016 | NA

1221 | NA

1232 | NA

1242 | NA

1248 | NA

1254 | NA

1260 | NA

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: TRIP BLANK

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-211-05

MATRIX: WATER

SUBMISSION DATE: 07/30/93

ARCHIVE NO.: U21105

ANALYSIS DATE: 08/02/93

DATA FILE NO.: 9303B92A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 6209

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-218-01

MATRIX: WATER

SUBMISSION DATE: 08/06/93

ARCHIVE NO.: V21801

ANALYSIS DATE: 08/13/93

DATA FILE NO.: 9304B03A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SEMI-VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 6209

% SOLID: NA

SAMPLE NUMBER: 993-218-01

MATRIX: GROUNDWATER

SUBMISSION DATE: 08/06/93

ARCHIVE NO.: S21801

ANALYSIS DATE: 08/31/93

DATA FILE NO.: 9305F74

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	ND	Detection limit - CRDL
2-Chlorophenol	ND	
Bis(2-Chloroethyl)Ether	ND	
1 3-Dichlorobenzene	ND	
1 4-Dichlorobenzene	ND	TIC - Molecular sulfur - 810 ug/l
1 2-Dichlorobenzene	ND	
Benzyl Alcohol	ND	
2-Methylphenol	ND	
bis(2-chloroisopropyl)Ether	ND	
Hexachloroethane	ND	
4-Methylphenol	ND	
N-Nitroso-di-propylamine	ND	
Nitrobenzene	ND	
Isophorone	ND	
2-Nitrophenol	ND	
2 4-Dimethylphenol	ND	
bis(2-chloroethoxy)Methane	ND	
2 4-Dichlorophenol	ND	
1 2 4-Trichlorobenzene	ND	
Naphthalene	ND	
Benzoic acid	ND	
4-Chloroaniline	ND	
Hexachlorobutadiene	ND	
4-Chloro-3-Methylphenol	ND	
2-Methylnaphthalene	ND	
Hexachlorocyclopentadiene	ND	
2,4,6-Trichlorophenol	ND	
2,4,5-trichlorophenol	ND	
2-Chloronaphthalene	ND	
2-Nitroaniline	ND	
Acenaphthylene	ND	
Dimethyl Phthalate	ND	
2,6-Dinitrotoluene	ND	
Acenaphthene	ND	
3-Nitroaniline	ND	
2,4-Dinitrophenol	ND	
Dibenzofuran	ND	
4-Nitrophenol	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 7161

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-197-01

MATRIX: WATER

SUBMISSION DATE: 07/16/93

ARCHIVE NO.: V19701

ANALYSIS DATE: 07/26/93

DATA FILE NO.: 9303B51A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SEMI-VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 7161

% SOLID: NA

SAMPLE NUMBER: 993-197-01

MATRIX: GROUNDWATER

SUBMISSION DATE: 07/16/93

ARCHIVE NO.: S19701

ANALYSIS DATE: 08/31/93

DATA FILE NO.: 9305F70A

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	ND	Detection limit - CRDL
2-Chlorophenol	ND	
Bis(2-Chloroethyl)Ether	ND	
1 3-Dichlorobenzene	ND	
1 4-Dichlorobenzene	ND	
1 2-Dichlorobenzene	ND	TIC - No TICs identified
Benzyl Alcohol	ND	
2-Methylphenol	ND	
bis(2-chloroisopropyl)Ether	ND	
Hexachloroethane	ND	
4-Methylphenol	ND	
N-Nitroso-di-propylamine	ND	
Nitrobenzene	ND	
Isophorone	ND	
2-Nitrophenol	ND	
2 4-Dimethylphenol	ND	
bis(2-chloroethoxy)Methane	ND	
2 4-Dichlorophenol	ND	
1 2 4-Trichlorobenzene	ND	
Naphthalene	ND	
Benzoic acid	ND	
4-Chloroaniline	ND	
Hexachlorobutadiene	ND	
4-Chloro-3-Methylphenol	ND	
2-Methylnaphthalene	ND	
Hexachlorocyclopentadiene	ND	
2,4,6-Trichlorophenol	ND	
2,4,5-trichlorophenol	ND	
2-Chloronaphthalene	ND	
2-Nitroaniline	ND	
Acenaphthylene	ND	
Dimethyl Phthalate	ND	
2,6-Dinitrotoluene	ND	
Acenaphthene	ND	
3-Nitroaniline	ND	
2,4-Dinitrophenol	ND	
Dibenzofuran	ND	
4-Nitrophenol	ND	

CON'T SAMPLE NUMBER: 993-197-01

DATA FILE: 9305F70A

page 2

COMPOUND	CONC(ug/l)
2,4-Dinitrotoluene	ND
Fluorene	ND
4-Chlorophenyl-phenylether	ND
Diethylphthalate	ND
2 Methyl 4,6-Dinitrophenol	ND
N-Nitrosodiphenylamine	ND
4-Nitroaniline	ND
4-Bromophenyl-phenylether	ND
Hexachlorobenzene	ND
Pentachlorophenol	ND
Phenanthrene	ND
Anthracene	ND
Di-N-Butylphthalate	2.3 ✓ B - 3.2
Carbazole	ND
Fluoranthene	ND
Pyrene	ND
4,4'-DDD	ND
Butylbenzylphthalate	ND
Chrysene	ND
Benzo (a) Anthracene	ND
bis(2-Ethylhexyl)Phthalate	ND
Di-N-Octyl Phthalate	ND
Benzo(b/k)Fluoranthene	ND
Benzo(a)Pyrene	ND
Indeno(1,2,3-cd)Pyrene	ND
Dibenz(a,h)Anthracene	ND
Benzo(g,h,i)Perylene	ND

TCL PESTICIDES/AROCLORS ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 7161

SAMPLE NUMBER: 993-197-01

EXTRACTION METHOD: SPE

MATRIX: GROUNDWATER

% SOLID: NA

PESTICIDE	QUANT (ug/L)
ALPHA-BHC	ND
BETA-BHC	ND
DELTA-BHC	ND
GAMMA-BHC	ND
HEPTACHLOR	ND
ALDRIN	ND
HEPTACHLOR EPOXIDE	ND
ENDOSULFAN I	ND
DIELDRIN	ND
4,4'-DDE	ND
ENDRIN	ND
ENDOSULFAN II	ND
4,4'-DDD	ND
ENDOSULFAN SULFATE	ND
4,4'-DDT	ND
ENDRIN ALDEHYDE	ND
ENDRIN KETONE	ND
METHOXYCHLOR	ND
CHLORDANE (ALPHA; GAMMA)	ND
TOXAPHENE	NA

DETECTION LIMIT:

PESTICIDES - 0.05 ug/l

AROCLORS - Not Analyzed

AROCLOR	QUANT ()
1016	NA
1221	NA
1232	NA
1242	NA
1248	NA
1254	NA
1260	NA

CON'T SAMPLE NUMBER: 993-218-01

DATA FILE: 9305F74A

page 2

COMPOUND	CONC(ug/l)	
2,4-Dinitrotoluene	ND	
Fluorene	ND	
4-Chlorophenyl-phenylether	ND	
Diethylphthalate	ND	
2 Methyl 4,6-Dinitrophenol	ND	
N-Nitrosodiphenylamine	ND	
4-Nitroaniline	ND	
4-Bromophenyl-phenylether	ND	
Hexachlorobenzene	ND	
Pentachlorophenol	ND	
Phenanthrene	ND	
Anthracene	ND	
Di-N-Butylphthalate	4	B - 3
Carbazole	ND	
Fluoranthene	ND	
Pyrene	ND	
4,4'-DDD	ND	
Butylbenzylphthalate	ND	
Chrysene	ND	
Benzo (a) Anthracene	ND	
bis(2-Ethylhexyl)Phthalate	5	B - 2.4
Di-N-Octyl Phthalate	ND	
Benzo(b/k)Fluoranthene	ND	
Benzo(a)Pyrene	ND	
Indeno(1,2,3-cd)Pyrene	ND	
Dibenz(a,h)Anthracene	ND	
Benzo(g,h,i)Perylene	ND	

TCL PESTICIDES/AROCLORS ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 6209

SAMPLE NUMBER: 993-218-01

EXTRACTION METHOD: SPE

MATRIX: GROUNDWATER

% SOLID: NA

PESTICIDE	QUANT (ug/L)		
ALPHA-BHC	I	ND	I
BETA-BHC	I	ND	I
DELTA-BHC	I	ND	I
GAMMA-BHC	I	ND	I
HEPTACHLOR	I	ND	I
ALDRIN	I	ND	I
HEPTACHLOR EPOXIDE	I	ND	I
ENDOSULFAN I	I	ND	I
DIELDRIN	I	ND	I
4,4'-DDE	I	ND	I
ENDRIN	I	ND	I
ENDOSULFAN II	I	ND	I
4,4'-DDD	I	ND	I
ENDOSULFAN SULFATE	I	ND	I
4,4'-DDT	I	ND	I
ENDRIN ALDEHYDE	I	ND	I
ENDRIN KETONE	I	ND	I
METHOXYCHLOR	I	ND	I
CHLORDANE (ALPHA; GAMMA)	I	ND	I
TOXAPHENE	I	NA	I

DETECTION LIMIT:

PESTICIDES - 0.05 ug/l

AROCLORS - Not Analyzed

AROCLOR	QUANT ()	
1016	I	NA
1221	I	NA
1232	I	NA
1242	I	NA
1248	I	NA
1254	I	NA
1260	I	NA

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: TRIP BLANK

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-218-02

MATRIX: WATER

SUBMISSION DATE: 08/06/93

ARCHIVE NO.: U21802

ANALYSIS DATE: 08/13/93

DATA FILE NO.: 9304B02A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10210C

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-225-01

MATRIX: WATER

SUBMISSION DATE: 08/13/93

ARCHIVE NO.: V22501

ANALYSIS DATE: 08/13/93

DATA FILE NO.: 9304B05A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SEMI-VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10210C

% SOLID: NA

SAMPLE NUMBER: 993-225-01

MATRIX: GROUNDWATER

SUBMISSION DATE: 08/13/93

ARCHIVE NO.: S22501

ANALYSIS DATE: 08/31/93

DATA FILE NO.: 9305F75A

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	ND	Detection limit - CRDL
2-Chlorophenol	ND	
Bis(2-Chloroethyl)Ether	ND	
1 3-Dichlorobenzene	ND	
1 4-Dichlorobenzene	ND	
1 2-Dichlorobenzene	ND	TIC -
Benzyl Alcohol	ND	
2-Methylphenol	ND	
bis(2-chloroisopropyl)Ether	ND	
Hexachloroethane	ND	
4-Methylphenol	ND	
N-Nitroso-di-propylamine	ND	
Nitrobenzene	ND	
Isophorone	ND	
2-Nitrophenol	ND	
2 4-Dimethylphenol	ND	
bis(2-chloroethoxy)Methane	ND	
2 4-Dichlorophenol	ND	
1 2 4-Trichlorobenzene	ND	
Naphthalene	ND	
Benzoic acid	ND	
4-Chloroaniline	ND	
Hexachlorobutadiene	ND	
4-Chloro-3-Methylphenol	ND	
2-Methylnaphthalene	ND	
Hexachlorocyclopentadiene	ND	
2,4,6-Trichlorophenol	ND	
2,4,5-trichlorophenol	ND	
2-Chloronaphthalene	ND	
2-Nitroaniline	ND	
Acenaphthylene	ND	
Dimethyl Phthalate	ND	
2,6-Dinitrotoluene	ND	
Acenaphthene	ND	
3-Nitroaniline	ND	
2,4-Dinitrophenol	ND	
Dibenzofuran	ND	
4-Nitrophenol	ND	

COMPOUND	CONC(ug/l)	
2,4-Dinitrotoluene	ND	
Fluorene	ND	
4-Chlorophenyl-phenylether	ND	
Diethylphthalate	1	
2 Methyl 4,6-Dinitrophenol	ND	
N-Nitrosodiphenylamine	ND	
4-Nitroaniline	ND	
4-Bromophenyl-phenylether	ND	
Hexachlorobenzene	ND	
Pentachlorophenol	ND	
Phenanthrene	ND	
Anthracene	ND	
Di-N-Butylphthalate	10	B/ - 10
Carbazole	ND	
Fluoranthene	ND	
Pyrene	ND	
4,4'-DDD	ND	
Butylbenzylphthalate	ND	
Chrysene	ND	
Benzo (a) Anthracene	ND	
bis(2-Ethylhexyl)Phthalate	4	B/ - 2.4
Di-N-Octyl Phthalate	ND	
Benzo(b/k)Fluoranthene	ND	
Benzo(a)Pyrene	ND	
Indeno(1,2,3-cd)Pyrene	ND	
Dibenz(a,h)Anthracene	ND	
Benzo(g,h,i)Perylene	ND	

TCL PESTICIDES/AROCLORS ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10210C

SAMPLE NUMBER: 993-225-01

EXTRACTION METHOD: SPE

MATRIX: GROUNDWATER

% SOLID: NA

PESTICIDE	QUANT (ug/L)		
ALPHA-BHC	I	ND	I
BETA-BHC	I	ND	I
DELTA-BHC	I	ND	I
GAMMA-BHC	I	ND	I
HEPTACHLOR	I	ND	I
ALDRIN	I	ND	I
HEPTACHLOR EPOXIDE	I	ND	I
ENDOSULFAN I	I	ND	I
DIELDRIN	I	ND	I
4,4'-DDE	I	ND	I
ENDRIN	I	ND	I
ENDOSULFAN II	I	ND	I
4,4'-DDD	I	ND	I
ENDOSULFAN SULFATE	I	ND	I
4,4'-DDT	I	ND	I
ENDRIN ALDEHYDE	I	ND	I
ENDRIN KETONE	I	ND	I
METHOXYCHLOR	I	ND	I
CHLORDANE (ALPHA; GAMMA)	I	ND	I
TOXAPHENE	I	NA	I

DETECTION LIMIT:

PESTICIDES - 0.05 ug/l

AROCLORS - Not Analyzed

AROCLOR	QUANT ()	
1016	I	NA
1221	I	NA
1232	I	NA
1242	I	NA
1248	I	NA
1254	I	NA
1260	I	NA

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: TRIP BLANK

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-225-02

MATRIX: WATER

SUBMISSION DATE: 08/13/93

ARCHIVE NO.: V22502

ANALYSIS DATE: 08/13/93

DATA FILE NO.: 9304B04A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10225C

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-232-01

MATRIX: WATER

SUBMISSION DATE: 08/20/93

ARCHIVE NO.: U23201

ANALYSIS DATE: 08/24/93

DATA FILE NO.: 9304C66A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	ND = LESS THAN 5 PPB
Ethylbenzene	ND	
Styrene	ND	ALL CONCENTRATIONS LESS THAN
Total Xylenes	ND	5 PPB ARE ESTIMATES
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY SEMI-VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10225C

% SOLID: NA

SAMPLE NUMBER: 993-232-01

MATRIX: GROUNDWATER

SUBMISSION DATE: 08/20/93

ARCHIVE NO.: S23201

ANALYSIS DATE: 08/31/93

DATA FILE NO.: 9305F76A

COMPOUND	CONC (ug/L)	TIC AND COMMENT SECTION
Phenol	ND	
2-Chlorophenol	ND	Detection limit - CRDL
Bis(2-Chloroethyl)Ether	ND	
1 3-Dichlorobenzene	ND	
1 4-Dichlorobenzene	ND	
1 2-Dichlorobenzene	ND	
Benzyl Alcohol	ND	
2-Methylphenol	ND	
bis(2-chloroisopropyl)Ether	ND	
Hexachloroethane	ND	TIC -
4-Methylphenol	ND	Molecular sulfur - 128 ug/l
N-Nitroso-di-propylamine	ND	
Nitrobenzene	ND	
Isophorone	ND	
2-Nitrophenol	ND	
2 4-Dimethylphenol	ND	
bis(2-chloroethoxy)Methane	ND	
2 4-Dichlorophenol	ND	
1 2 4-Trichlorobenzene	1.8	
Naphthalene	ND	
Benzoic acid	ND	
4-Chloroaniline	ND	
Hexachlorobutadiene	ND	
4-Chloro-3-Methylphenol	ND	
2-Methylnaphthalene	ND	
Hexachlorocyclopentadiene	ND	
2,4,6-Trichlorophenol	ND	
2,4,5-trichlorophenol	ND	
2-Chloronaphthalene	ND	
2-Nitroaniline	ND	
Acenaphthylene	ND	
Dimethyl Phthalate	ND	
2,6-Dinitrotoluene	ND	
Acenaphthene	ND	
3-Nitroaniline	ND	
2,4-Dinitrophenol	ND	
Dibenzofuran	ND	
4-Nitrophenol	ND	

CON'T SAMPLE NUMBER: 993-232-01

DATA FILE: 9305F76A

page 2

COMPOUND	CONC(ug/l)	
2,4-Dinitrotoluene	ND	
Fluorene	ND	
4-Chlorophenyl-phenylether	ND	
Diethylphthalate	ND	
2 Methyl 4,6-Dinitrophenol	ND	
N-Nitrosodiphenylamine	ND	
4-Nitroaniline	ND	
4-Bromophenyl-phenylether	ND	
Hexachlorobenzene	ND	
Pentachlorophenol	ND	
Phenanthrene	ND	
Anthracene	ND	
Di-N-Butylphthalate	1.7	B - 3
Carbazole	ND	
Fluoranthene	ND	
Pyrene	ND	
4,4'-DDD	ND	
Butylbenzylphthalate	ND	
Chrysene	ND	
Benzo (a) Anthracene	ND	
bis(2-Ethylhexyl)Phthalate	3.5	B - 2.4
Di-N-Octyl Phthalate	ND	
Benzo(b/k)Fluoranthene	ND	
Benzo(a)Pyrene	ND	
Indeno(1,2,3-cd)Pyrene	ND	
Dibenz(a,h)Anthracene	ND	
Benzo(g,h,i)Perylene	ND	

TCL PESTICIDES/AROCLORS ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: 10225C

SAMPLE NUMBER: 993-232-01

EXTRACTION METHOD: SPE

MATRIX: GROUNDWATER

% SOLID: NA

PESTICIDE	QUANT (ug/L)		
ALPHA-BHC	I	ND	I
BETA-BHC	I	ND	I
DELTA-BHC	I	ND	I
GAMMA-BHC	I	ND	I
HEPTACHLOR	I	ND	I
ALDRIN	I	ND	I
HEPTACHLOR EPOXIDE	I	ND	I
ENDOSULFAN I	I	ND	I
DIELDRIN	I	ND	I
4,4'-DDE	I	ND	I
ENDRIN	I	ND	I
ENDOSULFAN II	I	ND	I
4,4'-DDD	I	ND	I
ENDOSULFAN SULFATE	I	ND	I
4,4'-DDT	I	ND	I
ENDRIN ALDEHYDE	I	ND	I
ENDRIN KETONE	I	ND	I
METHOXYCHLOR	I	ND	I
CHLORDANE (ALPHA; GAMMA)	I	ND	I
TOXAPHENE	I	NA	I

DETECTION LIMIT:

PESTICIDES - 0.05 ug/l

AROCLORS - Not Analyzed

AROCLOR	QUANT ()	
1016	I	NA
1221	I	NA
1232	I	NA
1242	I	NA
1248	I	NA
1254	I	NA
1260	I	NA

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

MOBILE LABORATORY VOLATILE ANALYSIS

SITE NAME: LOVE CANAL

FIELD ID: TRIP BLANK

SITE CODE: 932020

PERCENT SOLIDS: NA

SAMPLE NUMBER: 993-232-02

MATRIX: WATER

SUBMISSION DATE: 08/20/93

ARCHIVE NO.: U23202

ANALYSIS DATE: 08/24/93

DATA FILE NO.: 9304C67A.D

COMPOUND	CONC (PPB)	NON TARGET COMPOUNDS:
Chloromethane	ND	
Bromomethane	ND	
Vinyl chloride	ND	
Chloroethane	ND	
Methylene chloride	ND	
Acetone	ND	
Carbon disulfide	ND	
1,1-Dichloroethene	ND	
1,1-Dichloroethane	ND	
trans-1,2-Dichloroethene	ND	
Chloroform	ND	
1,2-Dichloroethane	ND	
2-Butanone	ND	
1,1,1-Trichloroethane	ND	
Carbontetrachloride	ND	
Vinyl acetate	ND	
Bromodichloromethane	ND	
1,1,2,2-Tetrachloroethane	ND	
1,2-Dichloropropane	ND	
trans-1,3-Dichloropropene	ND	
Trichloroethene	ND	
Dibromochloromethane	ND	
1,1,2-Trichloroethane	ND	
Benzene	ND	
cis-1,3-Dichloropropene	ND	
2-Chloroethylvinylether	ND	
Bromoform	ND	
2-Hexanone	ND	
4-Methyl-2-pentanone	ND	
Tetrachloroethene	ND	
Toluene	ND	
Chlorobenzene	ND	
Ethylbenzene	ND	
Styrene	ND	
Total Xylenes	ND	
Total Chlorotoluene	ND	
Total Dichlorobenzene	ND	

ND = LESS THAN 5 PPB

ALL CONCENTRATIONS LESS THAN
5 PPB ARE ESTIMATES