84577

TO STEVE SPRULIN

DATE 7/25/90

FILE NO. 8894

ATTENTION

SUBJECT MONTREAL COURT
DRUM ANALYTICAL
RE

☐ URGENT
☐ SOON AS POSSIBLE
☑ NO REPLY NEEDED

MESSAGE

> PLEASE REVIEW & CALL TOM MEEKS TO DISCUSS DISPOSAL OPTIONS

SIGNED MARK RIGATTI

REPLY

DATE OF REPLY

SIGNED

OHM Corporation

M E M O

To: Steve Spurlin

From: Tom Mears

Re: Montreal Court disposal and analytical plan

Date: 6/15/90

PC: M. Rigatti
6944 file

Attached is a copy of the analytical report from EcoTec LSI for the three previously unsampled drums and the oxidizer drum. As you recall, TAT had identified 7 disposal groups from the material they sampled. EPA directed OHM Remediation Services to only pursue disposal of those material which would be considered hazardous based on the analytical provided by TAT. Based on consultation with yourself and Shane Hitchcock it was decided that the hazardous materials consisted of two waste streams; all the organic liquids being one and the oxidizer a second. At that time we expressed our concern whether the analytical performed by TAT (namely a GC scan of priority pollutant compounds) would be sufficient to classify materials as hazardous or non-hazardous.

Further OHM was directed to sample and obtain preliminary analytical of two drums not previously sampled by TAT and one drum subsequently discovered at the site. Compatibility analyses were performed on each of these drums (attached). At this time there is sufficient evidence to believe that these materials are hazardous. Further analytical will be needed to obtain disposal of these materials. We would like to propose a few options for proceeding when you return to Atlanta next week.

At this time there is sufficient data to obtain disposal of the oxidizer drum and the organic liquids. Profiles and quotes are being prepared for these materials and should be complete by 6/20/90. If you have any questions, please do not hesitate to call me about the attached reports or to schedule coordinating meeting the week of June 18th.

1000 Holcomb Woods Parkway, Suite 112 ■ Roswell, Georgia 30076 ■ 404-641-1066

EcoTek LSI
EcoTek Laboratory Services Incorporated

ANALYTICAL RESULTS

SOLUBILITY/REACTIVITY WORKSHEET

Date Analyzed: 6/4/90 Analyst: Tim Welch

Client: OHM LSDG: 0121

Drums @ Site not sampled by TAT

Client Sample Number	Sample Number	Water	Hexane	Methylene Chloride	Acetone
D-11	012002	NR/IN	NR/IN	NR/PS	NR/PS
D-34	012003	NR/IN	NR/IN	NR/ *	NR/ * see comment

LEGEND:

REACTIVITY:

G = EVOLUTION OF GAS
T = TEMPERATURE CHANGE
C = COLOR CHANGE
S = STATE CHANGE
NR = NO REACTION
NA - NOT APPLICABLE

SOLUBILITY:

S = SOLUBLE
PS = PARTIALLY
IN = INSOLUBLE
NA = NOT APPLICABLE

EcoTek LSI
EcoTek Laboratory Services Incorporated

3342 International Park Drive, S.E.
Atlanta, Georgia 30316
(404) 244-0827
Fax # (404) 243-5355

ANALYTICAL RESULTS

CASE: MONTREAL LSDG: 0120

CLIENT: OHM

Oxidizer Drums at site not previously sampled

ANALYTE	LSDG 012001 SAMPLE# MCD-2	LSDG 012002 SAMPLE# D11	LSDG 012003 SAMPLE# D34
MBAS (mg/l)	11.0	NR	NR
Flashpoint (°F)	NR	176	338
Physical Description	NR	SOLID/ RUST BROWN, BLUE AND WHITE	SOLID ORANGE-BROWN
pH	NR	3.8	5.4
Beilstein Test	(-)	(+)	(+)
Peroxide Screen	NR	(-)	(-)
Sulfide Screen	NR	(-)	(+)
Oxidizer Screen	NR	(-)	(-)
Cyanide Screen	NR	(-)	(+)
Potassium - Total (mg/l)	16.20	NR	NR
Sodium - Total (mg/l)	68.80	NR	NR
Cd - EPToxicity (mg/l)	126.30	NR	NR
PCB Screen/ GC-ECD	NR	(-)	(-)

NR = Not Required

EcoTek LSI
EcoTek Laboratory Services Incorporated

3342 International Park Drive, S.E.
Atlanta, Georgia 30316
(404) 244-0827
Fax # (404) 243-5355

ANALYTICAL RESULTS

CASE: MONTREAL LSDG: 0121

CLIENT: OHM SAMPLE #: D-038

newly discovered drum

ANALYTE	012101
Flashpoint (°F)	104
pH	6.5
Physical Description	SEMI-SOLID BROWNISH-GREY
Beilstein Test	(+)
Peroxide Screen	(-)
Sulfide Screen	(-)
Oxidizer Screen	(-)
Cyanide Screen	(+)
PCB Screen/GC-ECD	<13 mg/kg

EcoTek LSI
EcoTek Laboratory Services Incorporated

ANALYTICAL RESULTS

SOLUBILITY/REACTIVITY WORKSHEET

Date Analyzed: 6/4/90 Analyst: Tim Welch

Client: OHM LSDG: 0120

newly discovered drum

Client Sample Number	Sample Number	Water	Hexane	Methylene Chloride	Acetone
D-038	012101	NR/IN	NR/PS	NR/PS	NR/IN

LEGEND:

REACTIVITY:

G = EVOLUTION OF GAS
T = TEMPERATURE CHANGE
C = COLOR CHANGE
S = STATE CHANGE
NR = NO REACTION
NA - NOT APPLICABLE

SOLUBILITY:

S = SOLUBLE
PS = PARTIALLY
IN = INSOLUBLE
NA = NOT APPLICABLE

COMMENTS:

* 012003 was not soluble in Methylene chloride or acetone but the sample absorbed (became enlarged with) the solvent.

EcoTek LSI
EcoTek Laboratory Services Incorporated

MONTREAL
COURT

STEVE SPURLIN

[illegible]
Atlanta, Georgia 30336
(404) 244-0827
Fax (404) 243-[illegible]

July 23, 1990

Mr. Tom Mears
O.H. Materials
1000 Holcomb Woods Parkway
Suite 112
Roswell, GA 30076

Dear Mr. Mears:

Enclosed along with this letter are the hard copy results for the samples received July 5, 1990. This information was faxed to you on July 20, 1990.

Please contact me or Ms. Sushama Paranjape at (404)244-0827 if you have any questions. Also, please refer to LSDG number 0190 in future correspondence.

Sincerely,

ECOTEK LABORATORY SERVICES, INC.

Mike Buchanan
Laboratory Manager

Enclosures.
JMB/cjm

EcoTek LSI
EcoTek Laboratory Services Incorporated

Client: OHM

Sample Receipt Date: July 5, 1990

LSDG: 0190

Sample Report Date: July 19, 1990

Client Reference No.: Montreal #2

ANALYTICAL RESULTS

Lab Sample ID Client Sample ID ---------- **METALS** (mg/kg)	019001 MCD-2	019002 D11 / D34
Arsenic	<5.4	<5.6
Selenium	<4.9	<5.1
Barium	967.	<0.9
Cadmium	171.	<0.5
Chromium	1.0	<0.8
Lead	2.5	12.0
Mercury	<0.07	<0.08
Silver	<1.0	<1.0
Copper	<0.5	0.9
Iron	75.3	912.
Manganese	11.3	2.2
Nickel	<3.3	<3.4
Potassium	<34.8	<36.2
Thallium	<7.4	20.4
Sodium	57.7	120.
Zinc	142.	12.0

Cyanide	0.14	<1.20
Flashpoint °F	203.	144.
Density (g/ml)	2.19	0.51
pH	6	5
% solids	15.6	83.1
Physical Description Color	Light Brown	Blue
Physical Description Odor	Yes	Yes
Physical Description # Phases	2	1
Physical Description State	Liquid	Solid
Physical Description % by Volume Liquid	90%	100%
Physical Description % by Volume Solid	10%	0%

EcoTek LSI
EcoTek Laboratory Services, Incorporated

Client: OHM

Sample Receipt Date: July 5, 1990

LSDG: 0190

Sample Report Date: July 19, 1990

Client Reference No.: Montreal #2

ANALYTICAL RESULTS

Lab Sample ID	Client Sample ID	BTU/lb	Total Chloride (ppm)
019001	MCD-2	1,920	<200
019002	D11 / D34	10,770	1,200
Detection Limits			200

EcoTek LSI
EcoTek Laboratory Services Incorporated

Client: OHM

Sample Receipt Date: July 5, 1990

LSDG: 0190

Sample Report Date: July 19, 1990

Client Reference No.: Montreal #2

ANALYTICAL RESULTS

PAINT FILTER TEST

Lab Sample ID	Client Sample ID	% Free Liquid (by weight)
019001	MCD-2	82.6%
019002	D11 / D34	2.4%

EcoTek LSI
EcoTek Laboratory Services Incorporated

CASE NARRATIVE FOR VOLATILE ANALYSIS USING SW-846 METHOD 8240:

The analysis of volatiles were carried out using SW-846 method 8240. This method employs a purge and trap instrument to concentrate the purgeable organics which are subsequently analyzed by GC/MS using a 6 ft. X 2 mm i.d. glass column packed with 1 % SP1000 on 60-80 Carbopack-B. A Finnigan-Mat system equipped with a SuperIncos software was used to acquire and manipulate the data. The Target Compound List (TCL) and Tentatively Identified Compounds (TIC) identified and quantified in the samples are reported in the following sections of the data package. The appropriate calibration and quality control data where applicable is also included in the report.

All surrogate recoveries are within the matrix acceptable criteria limits. All soil samples were screened by MeOH extraction and method 602 (modified) analysis of the extract. Soil samples which were clean, were run by the low soil method. Screens showed high contamination and the sample was therefore run by medium soil method.

Method detection limits are as stated in SW-846 method 8240 - listed in SW-846 Test Methods for Evaluating Solid Waste, 3rd edition, USEPA - Office of Solid Waste and Emergency Response, Washington, D.C., November, 1986.

Sample #019001 (MCD-2) had only one compound (Acetone) greater than the method calibration range and reported as estimated concentration. Sample #019002 (D11 / D34) had a few surrogates out, reanalysis showed the same trend. Both of the analysis data are submitted with this report. This could be due to sample matrix interferences.

EPA-Defined Data Qualifiers

Under the column labeled "Q", a flag appears for each result. The definition of these qualifier flags are listed below:

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is corrected for dilution and percent moisture as applicable.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J - Indicates an estimated value 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.

E - Indicates compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D11/D34 RE

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTRP01SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 019002

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 019002B

Level: (low/med) MED Date Received: 7/ 5/90

% Moisture: not dec. 0. Date Analyzed: 7/12/90

Column: (pack/cap) PACK Dilution Factor: ~~1000.~~ 10.00 00 RP 7/19

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	12000.	U
74-83-9	BROMOMETHANE	12000.	U
75-01-4	VINYL CHLORIDE	12000.	U
75-00-3	CHLOROETHANE	12000.	U
75-09-2	METHYLENE CHLORIDE	18000.	B
67-64-1	ACETONE	120000.	BJ
75-15-0	CARBON DISULFIDE	130000.	
75-35-4	1,1-DICHLOROETHENE	6200.	U
75-34-3	1,1-DICHLOROETHANE	6200.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	6200.	U
67-66-3	CHLOROFORM	6200.	U
107-06-2	1,2-DICHLOROETHANE	6200.	U
78-93-3	2-BUTANONE	19000.	J
71-55-6	1,1,1-TRICHLOROETHANE	2700.	BJ
56-23-5	CARBON TETRACHLORIDE	6200.	U
108-05-4	VINYL ACETATE	62000.	U
75-27-4	BROMODICHLOROMETHANE	6200.	U
78-87-5	1,2-DICHLOROPROPANE	6200.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6200.	U
79-01-6	TRICHLOROETHENE	6200.	U
124-48-1	DIBROMOCHLOROMETHANE	6200.	U
79-00-5	1,1,2-TRICHLOROETHANE	6200.	U
71-43-2	BENZENE	6200.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6200.	U
75-25-2	BROMOFORM	6200.	U
108-10-1	4-METHYL-2-PENTANONE	62000.	U
591-78-6	2-HEXANONE	62000.	U
127-18-4	TETRACHLOROETHENE	6200.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6200.	U
108-88-3	TOLUENE	6200.	U
108-90-7	CHLOROBENZENE	6200.	U
100-41-4	ETHYLBENZENE	57000.	
100-42-5	STYRENE	210000000	E BP 7/19
1330-20-7	XYLENE (TOTAL)	100000.	
110-75-8	2-CHLOROETHYL VINYL ETHER	12000.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D11/D34 RE

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTRP01SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 019002

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 019002B

Level: (low/med) MED Date Received: 7/ 5/90

% Moisture: not dec. 0. Date Analyzed: 7/12/90

Column: (pack/cap) PACK Dilution Factor: ~~1000~~.00 10.00 BP 7/19

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	3638-35-5	CYCLOPROPANE, (1-METHYLETHYL	15.83	5000.	J
2.	110-54-3	HEXANE (DOT)	19.87	8000.	J
3.	98-67-9	BENZENESULFONIC ACID, 4-HYDR	27.27	300000.	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK0A

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTRP01SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0A

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 21902

Level: (low/med) MED Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 7/11/90

Column: (pack/cap) PACK Dilution Factor: ~~100.00~~ 1.0 BP 7/19

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	1300.	U
74-83-9	BROMOMETHANE	1300.	U
75-01-4	VINYL CHLORIDE	1300.	U
75-00-3	CHLOROETHANE	1300.	U
75-09-2	METHYLENE CHLORIDE	580.	J
67-64-1	ACETONE	1200.	J
75-15-0	CARBON DISULFIDE	630.	U
75-35-4	1,1-DICHLOROETHENE	630.	U
75-34-3	1,1-DICHLOROETHANE	630.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	630.	U
67-66-3	CHLOROFORM	630.	U
107-06-2	1,2-DICHLOROETHANE	630.	U
78-93-3	2-BUTANONE	13000.	U
71-55-6	1,1,1-TRICHLOROETHANE	190.	J
56-23-5	CARBON TETRACHLORIDE	630.	U
108-05-4	VINYL ACETATE	6300.	U
75-27-4	BROMODICHLOROMETHANE	630.	U
78-87-5	1,2-DICHLOROPROPANE	630.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	630.	U
79-01-6	TRICHLOROETHENE	630.	U
124-48-1	DIBROMOCHLOROMETHANE	630.	U
79-00-5	1,1,2-TRICHLOROETHANE	630.	U
71-43-2	BENZENE	630.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	630.	U
75-25-2	BROMOFORM	630.	U
108-10-1	4-METHYL-2-PENTANONE	6300.	U
591-78-6	2-HEXANONE	6300.	U
127-18-4	TETRACHLOROETHENE	630.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	630.	U
108-88-3	TOLUENE	630.	U
108-90-7	CHLOROBENZENE	630.	U
100-41-4	ETHYLBENZENE	630.	U
100-42-5	STYRENE	630.	U
1330-20-7	XYLENE (TOTAL)	630.	U
110-75-8	2-CHLOROETHYL VINYL ETHER	1300.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKOA

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTRP01SAS No.: SDG No.:

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

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 21902

Level: (low/med) MED Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 7/11/90

Column: (pack/cap) PACK Dilution Factor: ~~100~~.00 1.0 BP 7/19

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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EcoTek LSI
EcoTek Laboratory Services, Incorporated

CASE NARRATIVE FOR SEMI-VOLATILE HAZARDOUS SUBSTANCE LIST COMPOUNDS

CLIENT: O. H. MATERIALS

LSDG: 0190

SAMPLES: MCD-2, D11/D34

* All semi-volatile organics were analyzed by GC/MS on either or both of the instruments listed below.

Hewlett-Packard MSD	Inst. ID.	7001
Extrel ELQ-400	Inst. ID.	EXTR

* Chromatography was performed on a 30m J & W fused silica DB-5 capillary columns.

* Approximately 1 gram of sample was diluted with methylene chloride to a final volume of 10 mls. which was then submitted for analysis.

* The reports of the compounds identified and quantified in the samples are contained in the following sections of the data package. Also included are the appropriate calibration and quality control data where applicable.

* Method detection limits or practical quantitation limits (PQL) are a function of the instrument detection limits factored for initial sample weight and final extract volume. The basis for the PQLs is EPA SW-846 Method 8270.

* The following exceptions and/or considerations should be noted for the sample group contained within.

  - The method blank included in this case consists of the analysis of the diluent methylene chloride.

  - The E qualifier noted for Phenol on sample MCD-2 indicates that this quantity is above the highest calibration level. However, saturation for this compound was not noted thus quantitation without dilution was deemed appropriate.

  - On sample D11/D34, the area for Bicylo[4.2.0]octa-1,3,5-triene was manually integrated to achieve the approximate concentration level.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 01071303

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 42077

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: .10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(2-Chloroethyl)ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
108-60-1	bis(2-Chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1600.	U
111-91-1	bis(2-Chloroethoxy)methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1600.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1600.	U
131-11-3	Dimethylphthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: Q1071803

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 42077

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: .10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1600.	U
100-02-7	4-Nitrophenol	1600.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1600.	U
534-52-1	4,6-Dinitro-2-methylphenol	1600.	U
86-30-6	N-Nitrosodiphenylamine	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1600.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-butylphthalate	330.	U
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	660.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-Ethylhexyl)phthalate	330.	U
117-84-0	Di-n-octylphthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenz(a,h)anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BLANK

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 01071803

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 42077

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: .10

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCD-2

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 019001

Sample wt/vol: 1.0 (g/mL) G Lab File ID: 42078

Level: (low/med) LOW Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	5100000.	E
111-44-4	bis(2-Chloroethyl)ether	100000.	U
95-57-8	2-Chlorophenol	100000.	U
541-73-1	1,3-Dichlorobenzene	100000.	U
106-46-7	1,4-Dichlorobenzene	100000.	U
100-51-6	Benzyl alcohol	100000.	U
95-50-1	1,2-Dichlorobenzene	100000.	U
95-48-7	2-Methylphenol	100000.	U
108-60-1	bis(2-Chloroisopropyl)ether	100000.	U
106-44-5	4-Methylphenol	100000.	U
621-64-7	N-Nitroso-di-n-propylamine	100000.	U
67-72-1	Hexachloroethane	100000.	U
98-95-3	Nitrobenzene	100000.	U
78-59-1	Isophorone	100000.	U
88-75-5	2-Nitrophenol	100000.	U
105-67-9	2,4-Dimethylphenol	100000.	U
65-85-0	Benzoic acid	490000.	U
111-91-1	bis(2-Chloroethoxy)methane	100000.	U
120-83-2	2,4-Dichlorophenol	100000.	U
120-82-1	1,2,4-Trichlorobenzene	100000.	U
91-20-3	Naphthalene	100000.	U
106-47-8	4-Chloroaniline	100000.	U
87-68-3	Hexachlorobutadiene	100000.	U
59-50-7	4-Chloro-3-methylphenol	100000.	U
91-57-6	2-Methylnaphthalene	100000.	U
77-47-4	Hexachlorocyclopentadiene	100000.	U
88-06-2	2,4,6-Trichlorophenol	100000.	U
95-95-4	2,4,5-Trichlorophenol	490000.	U
91-58-7	2-Chloronaphthalene	100000.	U
88-74-4	2-Nitroaniline	490000.	U
131-11-3	Dimethylphthalate	100000.	U
208-96-8	Acenaphthylene	100000.	U
606-20-2	2,6-Dinitrotoluene	100000.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCD-2

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 019001

Sample wt/vol: 1.0 (g/mL) G Lab File ID: 42078

Level: (low/med) LOW Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	490000.	U
83-32-9	Acenaphthene	100000.	U
51-28-5	2,4-Dinitrophenol	490000.	U
100-02-7	4-Nitrophenol	490000.	U
132-64-9	Dibenzofuran	100000.	U
121-14-2	2,4-Dinitrotoluene	100000.	U
84-66-2	Diethylphthalate	100000.	U
7005-72-3	4-Chlorophenyl-phenylether	100000.	U
86-73-7	Fluorene	100000.	U
100-01-6	4-Nitroaniline	490000.	U
534-52-1	4,6-Dinitro-2-methylphenol	490000.	U
86-30-6	N-Nitrosodiphenylamine	100000.	U
101-55-3	4-Bromophenyl-phenylether	100000.	U
118-74-1	Hexachlorobenzene	100000.	U
87-86-5	Pentachlorophenol	490000.	U
85-01-8	Phenanthrene	100000.	U
120-12-7	Anthracene	100000.	U
84-74-2	Di-n-butylphthalate	100000.	U
206-44-0	Fluoranthene	100000.	U
129-00-0	Pyrene	100000.	U
85-68-7	Butylbenzylphthalate	100000.	U
91-94-1	3,3'-Dichlorobenzidine	200000.	U
56-55-3	Benzo(a)anthracene	100000.	U
218-01-9	Chrysene	100000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	100000.	U
117-84-0	Di-n-octylphthalate	100000.	U
205-99-2	Benzo(b)fluoranthene	100000.	U
207-08-9	Benzo(k)fluoranthene	100000.	U
50-32-8	Benzo(a)pyrene	100000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	100000.	U
53-70-3	Dibenz(a,h)anthracene	100000.	U
191-24-2	Benzo(g,h,i)perylene	100000.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MCD-2

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 019001

Sample wt/vol: 1.0 (g/mL) G Lab File ID: 42078

Level: (low/med) LOW Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -0	PBM found no hits for this U	10.44	100000.	J
2.	107-49-3	Diphosphoric acid, tetraethy	12.94	300000.	J
3.	- -	UNKNOWN	13.16	100000.	J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D11/D34

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 019002

Sample wt/vol: 1.3 (g/mL) G Lab File ID: 42079

Level: (low/med) HIGH Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	76000.	U
111-44-4	bis(2-Chloroethyl)ether	76000.	U
95-57-8	2-Chlorophenol	76000.	U
541-73-1	1,3-Dichlorobenzene	76000.	U
106-46-7	1,4-Dichlorobenzene	76000.	U
100-51-6	Benzyl alcohol	76000.	U
95-50-1	1,2-Dichlorobenzene	76000.	U
95-48-7	2-Methylphenol	76000.	U
108-60-1	bis(2-Chloroisopropyl)ether	76000.	U
106-44-5	4-Methylphenol	76000.	U
621-64-7	N-Nitroso-di-n-propylamine	76000.	U
67-72-1	Hexachloroethane	76000.	U
98-95-3	Nitrobenzene	76000.	U
78-59-1	Isophorone	76000.	U
88-75-5	2-Nitrophenol	76000.	U
105-67-9	2,4-Dimethylphenol	76000.	U
65-85-0	Benzoic acid	640000.	
111-91-1	bis(2-Chloroethoxy)methane	76000.	U
120-83-2	2,4-Dichlorophenol	76000.	U
120-82-1	1,2,4-Trichlorobenzene	76000.	U
91-20-3	Naphthalene	76000.	U
106-47-8	4-Chloroaniline	76000.	U
87-68-3	Hexachlorobutadiene	76000.	U
59-50-7	4-Chloro-3-methylphenol	76000.	U
91-57-6	2-Methylnaphthalene	76000.	U
77-47-4	Hexachlorocyclopentadiene	76000.	U
88-06-2	2,4,6-Trichlorophenol	76000.	U
95-95-4	2,4,5-Trichlorophenol	370000.	U
91-58-7	2-Chloronaphthalene	76000.	U
88-74-4	2-Nitroaniline	370000.	U
131-11-3	Dimethylphthalate	76000.	U
208-96-8	Acenaphthylene	76000.	U
606-20-2	2,6-Dinitrotoluene	76000.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D11/D34

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 019002

Sample wt/vol: 1.3 (g/mL) G Lab File ID: 42079

Level: (low/med) HIGH Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	370000.	U
83-32-9	Acenaphthene	76000.	U
51-28-5	2,4-Dinitrophenol	370000.	U
100-02-7	4-Nitrophenol	370000.	U
132-64-9	Dibenzofuran	76000.	U
121-14-2	2,4-Dinitrotoluene	76000.	U
84-66-2	Diethylphthalate	76000.	U
7005-72-3	4-Chlorophenyl-phenylether	76000.	U
86-73-7	Fluorene	76000.	U
100-01-6	4-Nitroaniline	370000.	U
534-52-1	4,6-Dinitro-2-methylphenol	370000.	U
86-30-6	N-Nitrosodiphenylamine	76000.	U
101-55-3	4-Bromophenyl-phenylether	76000.	U
118-74-1	Hexachlorobenzene	76000.	U
87-86-5	Pentachlorophenol	370000.	U
85-01-8	Phenanthrene	76000.	U
120-12-7	Anthracene	76000.	U
84-74-2	Di-n-butylphthalate	12000.	J
206-44-0	Fluoranthene	76000.	U
129-00-0	Pyrene	76000.	U
85-68-7	Butylbenzylphthalate	76000.	U
91-94-1	3,3'-Dichlorobenzidine	150000.	U
56-55-3	Benzo(a)anthracene	76000.	U
218-01-9	Chrysene	76000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	53000.	J
117-84-0	Di-n-octylphthalate	76000.	U
205-99-2	Benzo(b)fluoranthene	76000.	U
207-08-9	Benzo(k)fluoranthene	76000.	U
50-32-8	Benzo(a)pyrene	76000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	76000.	U
53-70-3	Dibenz(a,h)anthracene	76000.	U
191-24-2	Benzo(g,h,i)perylene	76000.	U

(1) - Cannot be separated from diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

D11/D34

Lab Name: ECOTEK Contract: OHM

Lab Code: ECOTEK Case No.: MONTREALSAS No.: SDG No.: 0190

Matrix: (soil/water) SOIL Lab Sample ID: 019002

Sample wt/vol: 1.3 (g/mL) G Lab File ID: 42079

Level: (low/med) HIGH Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

Number TICs found: 19

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -0	PBM found no hits for this U	8.16	200000.	J
2.	- -	UNKNOWN	9.88	2000000.	J
3.	98-86-2	Ethanone, 1-phenyl- (9CI)	11.92	200000.	J
4.	579-07-7	1,2-Propanedione, 1-phenyl-	12.02	200000.	J
5.	149-57-5	Hexanoic acid, 2-ethyl- (8CI	12.99	200000.	J
6.	774-40-3	Benzeneacetic acid, .alpha.-	16.10	1000000.	J
7.	1875-48-5	1H-Isoindole-1,3(2H)-dione,	20.89	80000.	J
8.	- -	UNKNOWN	21.51	100000.	J
9.	- -	UNKNOWN	21.65	200000.	J
10.	- -	UNKNOWN	21.77	100000.	J
11.	- -	UNKNOWN	22.99	80000.	J
12.	- -	UNKNOWN	23.39	600000.	J
13.	94-41-7	2-Propen-1-one, 1,3-diphenyl	24.46	200000.	J
14.	- -	UNKNOWN	24.97	100000.	J
15.	- -	UNKNOWN	25.40	400000.	J
16.	- -	UNKNOWN	25.55	400000.	J
17.	- -	UNKNOWN	38.02	100000.	J
18.	- -	UNKNOWN	38.52	100000.	J
19.	694-87-1	BICYCLO[4.2.0]OCTA-1,3,5-TRI	8.38	10000000.	J
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EcoTek Laboratory Services Incorporated

METHOD SUMMARY FOR CLP 2/88 SOW - Pesticides/PCB's

Samples are analyzed according to the 2/88 SOW for contract laboratories using a gas chromatograph equipped with an ECD (electron capture detector). This analysis is suitable for chlorinated pesticides and polychlorinated biphenyls found in water and soil/sediment sample matrices at the ppb (part per billion) level. Tentative identification of pesticides and polychlorinated biphenyls is supported by at least one other qualitative analysis using either gas chromatography or GC/MS (if the concentration of the sample allows detection with a mass spectrometer). All appropriate quality control samples are analyzed with the samples.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCD-2

Lab Name: WANTEC Contract: O.H.M

Lab Code: WANTEC Case No.: SAS No.: SDG No.: MCD-2

Matrix: (soil/water) SOIL Lab Sample ID: 019001

Sample wt/vol: 1. (g/mL) G Lab File ID: 1030B66

Level: (low/med) LOW Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	130.	U
319-85-7	BETA-BHC	130.	U
319-86-8	DELTA-BHC	130.	U
58-89-9	GAMMA-BHC	130.	U
76-44-8	HEPTACHLOR	130.	U
309-00-2	ALDRIN	130.	U
1024-57-3	HEPTACHLOR EPOXIDE	130.	U
959-98-8	ENDOSULFAN I	130.	U
60-57-1	DIELDRIN	250.	U
72-55-9	4,4'-DDE	250.	U
72-20-8	ENDRIN	250.	U
33213-65-9	ENDOSULFAN II	250.	U
72-54-8	4,4'-DDD	250.	U
1031-07-8	ENDOSULFAN SULFATE	250.	U
50-29-3	4,4'-DDT	250.	U
72-43-5	METHOXYCHLOR	1300.	U
53494-70-5	ENDRIN KETONE	250.	U
5103-71-9	ALPHA CHLORDANE	1300.	U
5103-74-2	GAMMA CHLORDANE	1300.	U
8001-35-2	TOXAPHENE	2500.	U
12674-11-2	AROCLOR-1016	1300.	U
11104-28-2	AROCLOR-1221	1300.	U
11141-16-5	AROCLOR-1232	1300.	U
53469-21-9	AROCLOR-1242	1300.	U
12672-29-6	AROCLOR-1248	1300.	U
11097-69-1	AROCLOR-1254	2500.	U
11096-82-5	AROCLOR-1260	2500.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK

Lab Name: ECOTEK ~~WANTEC~~ Contract: O.H.M

Lab Code: ECOTEK ~~WANTEC~~ Case No.: SAS No.: SDG No.: MCD-2

Matrix: (soil/water) SOIL Lab Sample ID: Q1071804

Sample wt/vol: 15. (g/mL) G Lab File ID: 1030B65

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	8.0	U
319-85-7	BETA-BHC	8.0	U
319-86-8	DELTA-BHC	8.0	U
58-89-9	GAMMA-BHC	8.0	U
76-44-8	HEPTACHLOR	8.0	U
309-00-2	ALDRIN	8.0	U
1024-57-3	HEPTACHLOR EPOXIDE	8.0	U
959-98-8	ENDOSULFAN I	8.0	U
60-57-1	DIELDRIN	16.	U
72-55-9	4,4'-DDE	16.	U
72-20-8	ENDRIN	16.	U
33213-65-9	ENDOSULFAN II	16.	U
72-54-8	4,4'-DDD	16.	U
1031-07-8	ENDOSULFAN SULFATE	16.	U
50-29-3	4,4'-DDT	16.	U
72-43-5	METHOXYCHLOR	80.	U
53494-70-5	ENDRIN KETONE	16.	U
5103-71-9	ALPHA CHLORDANE	80.	U
5103-74-2	GAMMA CHLORDANE	80.	U
8001-35-2	TOXAPHENE	160.	U
12674-11-2	AROCLOR-1016	80.	U
11104-28-2	AROCLOR-1221	80.	U
11141-16-5	AROCLOR-1232	80.	U
53469-21-9	AROCLOR-1242	80.	U
12672-29-6	AROCLOR-1248	80.	U
11097-69-1	AROCLOR-1254	160.	U
11096-82-5	AROCLOR-1260	160.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D11/D34

Lab Name: ~~WANTEC~~ ECOTEK Contract: O.H.M

Lab Code: ~~WANTEC~~ ECOTEK Case No.: SAS No.: SDG No.: MCD-2

Matrix: (soil/water) SOIL Lab Sample ID: 019002

Sample wt/vol: 1. (g/mL) G Lab File ID: 1030B67

Level: (low/med) LOW Date Received: 7/ 5/90

% Moisture: not dec. 0. dec. 0. Date Extracted: 7/18/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: .0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	DL
319-84-6	ALPHA-BHC	160.	U	
319-85-7	BETA-BHC	160.	U	
319-86-8	DELTA-BHC	150.	J	160
58-89-9	GAMMA-BHC	160.	U	
76-44-8	HEPTACHLOR	160.	U	
309-00-2	ALDRIN	160.	U	
1024-57-3	HEPTACHLOR EPOXIDE	100.	J	160
959-98-8	ENDOSULFAN I	160.	U	
60-57-1	DIELDRIN	330.	U	
72-55-9	4,4'-DDE	330.	U	
72-20-8	ENDRIN	330.	U	
33213-65-9	ENDOSULFAN II	330.	U	
72-54-8	4,4'-DDD	330.	U	
1031-07-8	ENDOSULFAN SULFATE	330.	U	
50-29-3	4,4'-DDT	330.	U	
72-43-5	METHOXYCHLOR	1600.	U	
53494-70-5	ENDRIN KETONE	330.	U	
5103-71-9	ALPHA CHLORDANE	1600.	U	
5103-74-2	GAMMA CHLORDANE	1600.	U	
8001-35-2	TOXAPHENE	3300.	U	
12674-11-2	AROCLOR-1016	1600.	U	
11104-28-2	AROCLOR-1221	1600.	U	
11141-16-5	AROCLOR-1232	1600.	U	
53469-21-9	AROCLOR-1242	1600.	U	
12672-29-6	AROCLOR-1248	1600.	U	
11097-69-1	AROCLOR-1254	3300.	U	
11096-82-5	AROCLOR-1260	3300.	U	