



New York State Department of Environmental Conservation

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File 4840 Romc
NASH
~~RASH~~

MEMORANDUM

TO: DARRELL SWEREDOSKI & CLARENCE SHOEMAKER
FROM: PETER S. OUDERKIRK *PS*
SUBJ: NASH METALWARE

DATE: January 28, 1999

Attached, please find the summary of analytical results which were generated for the above referenced site.

Both water and sediment samples were taken at two locations. Sample SLI-1 indicates Storm Line I, Location 1, water sample; SLI-1A indicates Storm Line I, Location 1, sediment sample; Sample SLI-2 indicates Storm Line I, Location 2, water sample; SLI-2A indicates Storm Line I, Location 2, sediment sample.

All samples were analyzed for the full Target Compound List utilizing the Analytical Services Protocol.

Please see the attached maps which identifies the sample locations. Based on these results and field observations, further contamination at higher concentrations are expected to be found upgradient of SLI - 2.

If you have any questions, please let me know.

PSO:kw
Attachments

Sampling Conducted
On the 24 Inch Storm Sewer
Coming from the Nash Metal Ware Property

Location	Matrix	Contaminant	Concentration	SCG
SLI-1A	Soil	4,4'-DDD	57 P	2,900
SLI-1A	Soil	4,4'-DDT	69 P	2,100
SLI-1A	Soil	Aldrin	28 P	41
SLI-1A	Soil	Alpha Chlordane	23 P	540
SLI-1A	Soil	Anthracene	39000	50,000 ***
SLI-1A	Soil	Arochlor - 1260	1900 P	1,000
SLI-1A	Soil	Benzo (b) fluoranthene	110000	1,100
SLI-1A	Soil	Benzo (k) Fluoranthene	36000	1,100
SLI-1A	Soil	Benzo (a) pyrene	81000	61
SLI-1A	Soil	Benzo(a) anthracene	89000	224
SLI-1A	Soil	Benzo(g,h,i) perylene	33000	50,000***
SLI-1A	Soil	Chrysene	82000	400
SLI-1A	Soil	Dieldrin	15 P	44
SLI-1A	Soil	Endosulfan II	79 P	900
SLI-1A	Soil	Fluoranthene	170000	50,000***
SLI-1A	Soil	Gamma Chlordane	44 P	540
SLI-1A	Soil	Indeno(1,2,3-cd) pyrene	42000	3,200
SLI-1A	Soil	Methoxychlor	320 P	10,000
SLI-1A	Soil	Phenanthrene	92000	50,000***
SLI-1A	Soil	Pyrene	130000	50,000***
SLI-1	Water	Copper	202	3.4
SLI-1	Water	Iron	2600	300
SLI-1	Water	Manganese	372	300
SLI-1	Water	Thallium	7240	0.5
SLI-1	Water	Zinc	122	2000
SLI-2	Water	Barium	362	1000
SLI-2	Water	Cadmium	7.3	5

SLI-2	Water	Chromium	144	50
SLI-2	Water	Copper	13700	3.4
SLI-2	Water	Iron	46300	300
SLI-2	Water	Lead	534	50
SLI-2	Water	Manganese	824	300
SLI-2	Water	Vanadium	91.90	14
SLI-2	Water	Benzo (b) fluoranthene	18	.002
SLI-2	Water	Benzo (a) pyrene	11	.002
SLI-2	Water	Benzo (k) Fluoranthene	6 J	.002
SLI-2	Water	Benzo(a) anthracene	10	.002
SLI-2	Water	Bis (2-Ethylhexyl) Phthalate	11	5
SLI-2	Water	Chrysene	11	.002
SLI-2	Water	Fluoranthene	19	50
SLI-2	Water	Phenanthrene	10	50
SLI-2	Water	Pyrene	24	50
SLI-2A	Soil	2-Methylnaphthalene	14000 J	36,400
SLI-2A	Soil	4,4'-DDD	46 P	2,900
SLI-2A	Soil	4,4'-DDT	79	2,100
SLI-2A	Soil	Acenaphthene	40000 J	50,000***
SLI-2A	Soil	Alpha Chlordane	16 P	540
SLI-2A	Soil	Anthracene	74000	50,000***
SLI-2A	Soil	Arochlor - 1248	590 P	1,000
SLI-2A	Soil	Benzo(a) Pyrene	110000	61
SLI-2A	Soil	Benzo(a) anthracene	120000	224
SLI-2A	Soil	Benzo(b) fluoranthene	140000	1,100
SLI-2A	Soil	Benzo(k) Fluoranthene	69000	1,100
SLI-2A	Soil	Chrysene	130000	400
SLI-2A	Soil	Dibenzofuran	36000 J	6,200
SLI-2A	Soil	Dieldrin	6.6 P	44
SLI-2A	Soil	Fluoranthene	270000	50,000***

SLI-2A	Soil	Fluorene	43000 J	50,000***
SLI-2A	Soil	Gamma Chlordane	30 P	540
SLI-2A	Soil	Indeno(1,2,3-cd) pyrene	56000	3,200
SLI-2A	Soil	Methoxychlor	190 P	10,000
SLI-2A	Soil	Naphthalene	59000	13,000
SLI-2A	Soil	Phenanthrene	270000	50,000***
SLI-2A	Soil	Pyrene	220000	50,000***

Pesticides Note: *** Total Pesticides < 10 ppm

Semivolatiles Organics Note: ***Total VOC's < 10 ppm

SLI-1 refers to Storm Line I - Before Cleaning Sample at - Water Sample

SLI-2 refers to Storm Line I - Sample taken 85 feet into the Nash Property - Water Sample

SLI-1A refers to Storm Line I - Before Cleaning Sample - Soil Sample

SLI-2A refers to Storm Line I - - Sample taken 85 feet into the Nash Property - Soil Sample

Quantifiers:

U- Undetected at that detection limit

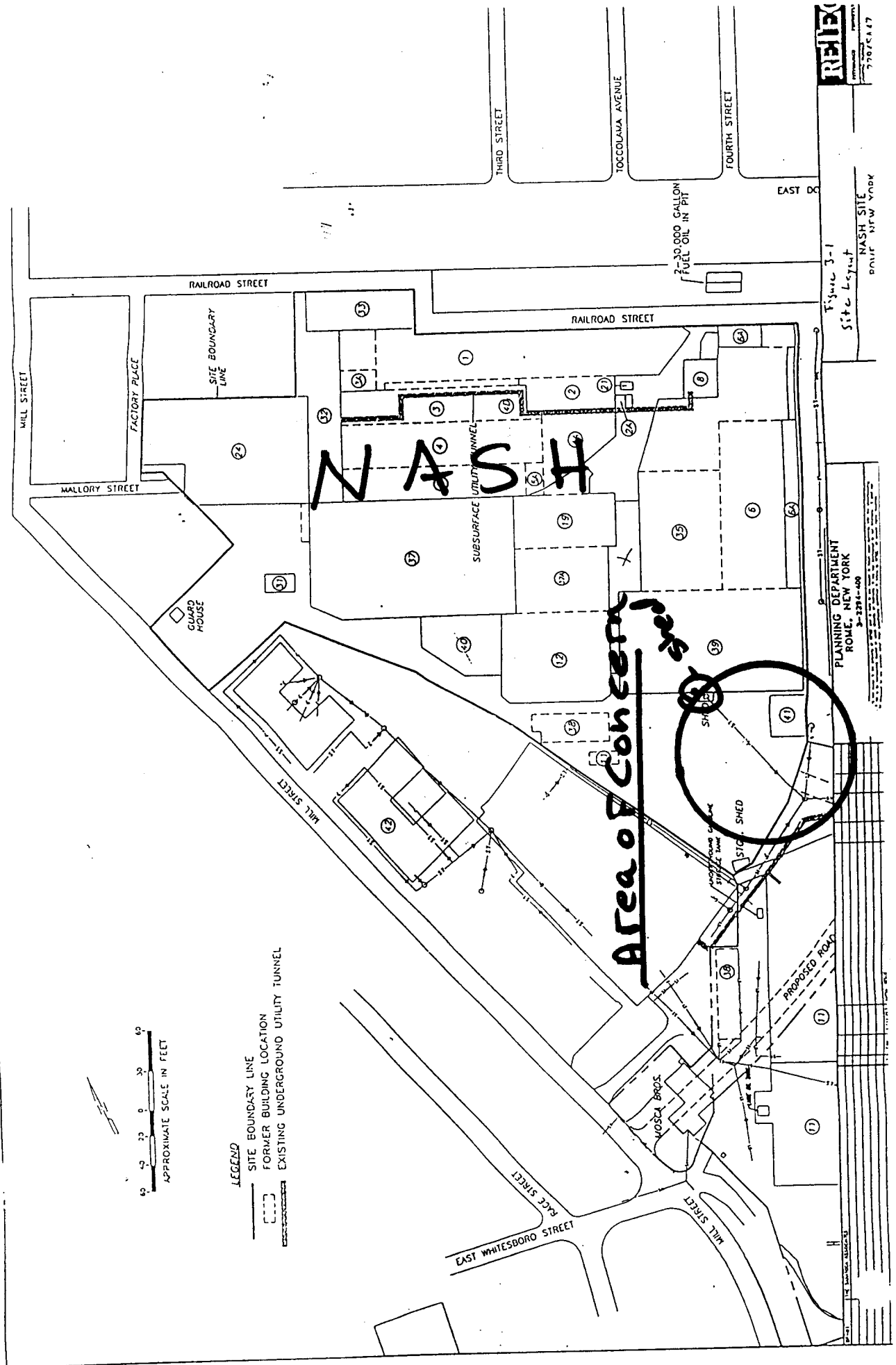
J - Estimated quantity below detection

P - Dual Column Method - 2nd column differs from the 1st by more 40 % - this is the lower value found. In other words this is most likely an under estimate. Actual Value

B- Detected below CRDL but above MDL

E - Sample and duplicate are outside acceptable % limits

N - Matrix spike was outside acceptable criteria



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EXCAVATION A
SCHEDULE 1 (BELOW)
NOTE 8 (RIGHT)

STORM LINE
TO BE CLEARED

EXCAVATION B
SEE SCHEDULE 1 (BELOW)
AND NOTE 8 (RIGHT)

UNDERGROUND
GASOLINE STORAGE
TANK REMOVAL NOT
IN THIS
CONTRACT

SLI-1+1A

TO STOP LINE
OF MACHINE

SLI-2A

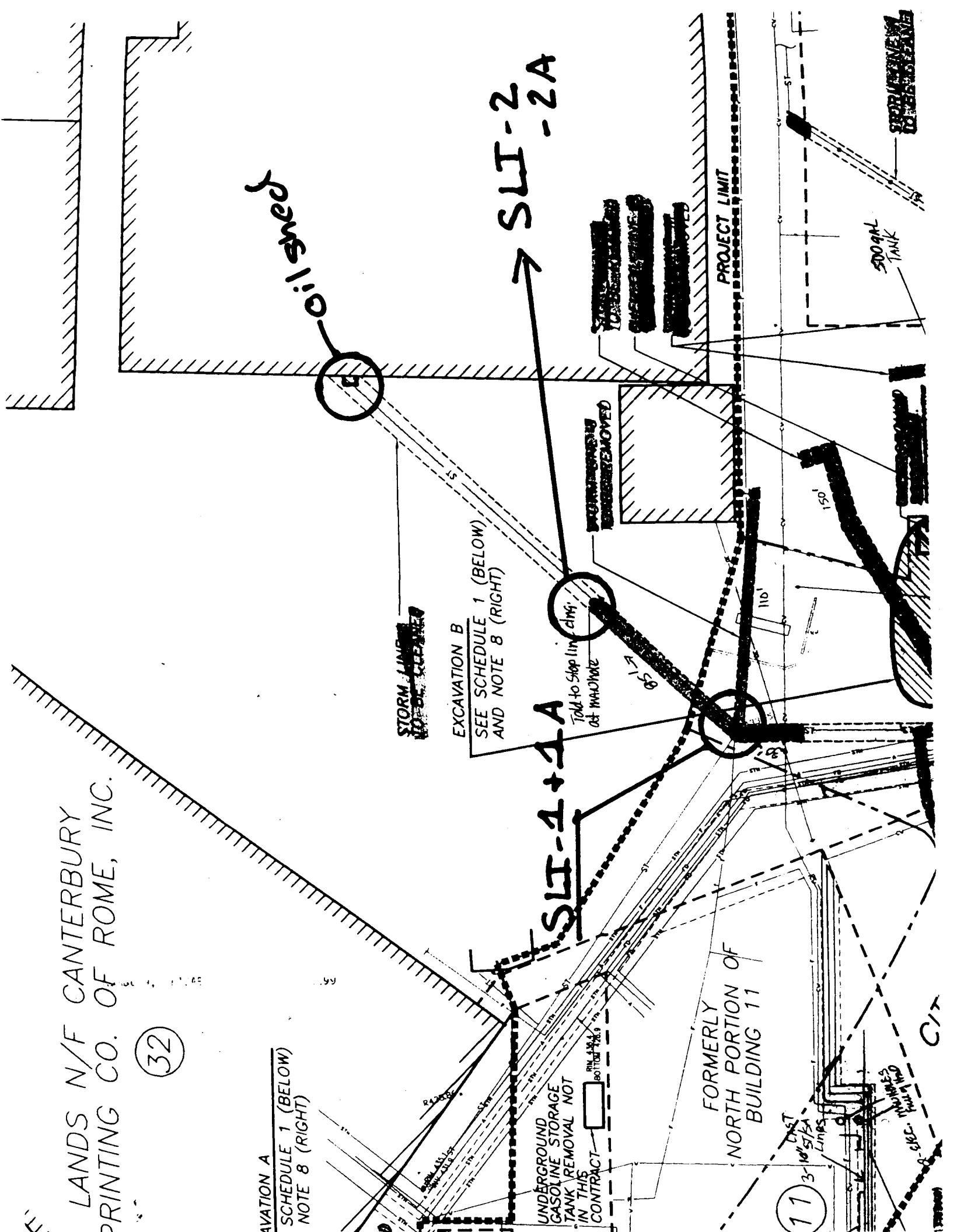
FORMERLY
NORTH PORTION OF
BUILDING 11

PROJECT LIMIT

500 GAL
TANK

11 3-10' DIA
LINES

C/T





January 15, 1999

Buck Engineering
3821 Buck Drive
Cortland, NY 13045
Attn: Mr. Phil Shaffner

RE: Client Project #: B 8209B
Lab Project #: E2086

Dear Mr. Shaffner:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

A handwritten signature in cursive script that reads "Kin Chiu".

Kin Chiu
Technical Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-1

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V1B9479

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. _____

Date Analyzed: 12/21/98

GC Column: DB-624 ID: 0.25 (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	12	
67-64-1-----	Acetone	10	U
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	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	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	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)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLI-1

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-03

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V1B9479

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. _____

Date Analyzed: 12/21/98

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.08	7	JB
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-1A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-04

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V5A8924

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. 61

Date Analyzed: 12/26/98

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	26	U
74-83-9-----	Bromomethane	26	U
75-01-4-----	Vinyl Chloride	26	U
75-00-3-----	Chloroethane	26	U
75-09-2-----	Methylene Chloride	26	U
67-64-1-----	Acetone	55	
75-15-0-----	Carbon Disulfide	26	U
75-35-4-----	1,1-Dichloroethene	26	U
75-34-3-----	1,1-Dichloroethane	26	U
540-59-0-----	1,2-Dichloroethene (Total)	26	U
67-66-3-----	Chloroform	26	U
107-06-2-----	1,2-Dichloroethane	26	U
78-93-3-----	2-Butanone	13	J
71-55-6-----	1,1,1-Trichloroethane	26	U
56-23-5-----	Carbon Tetrachloride	26	U
75-27-4-----	Bromodichloromethane	26	U
78-87-5-----	1,2-Dichloropropane	26	U
10061-01-5-----	cis-1,3-Dichloropropene	26	U
79-01-6-----	Trichloroethene	26	U
124-48-1-----	Dibromochloromethane	26	U
79-00-5-----	1,1,2-Trichloroethane	26	U
71-43-2-----	Benzene	26	U
10061-02-6-----	trans-1,3-Dichloropropene	26	U
75-25-2-----	Bromoform	26	U
108-10-1-----	4-Methyl-2-Pentanone	26	U
591-78-6-----	2-Hexanone	26	U
127-18-4-----	Tetrachloroethene	26	U
79-34-5-----	1,1,2,2-Tetrachloroethane	26	U
108-88-3-----	Toluene	26	U
108-90-7-----	Chlorobenzene	26	U
100-41-4-----	Ethylbenzene	26	U
100-42-5-----	Styrene	26	U
1330-20-7-----	Xylene (Total)	26	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLI-1A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-04

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V5A8924

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. 61

Date Analyzed: 12/26/98

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C9H20 ISOMER	10.06	130	J
2.	UNKNOWN ALKANE	10.68	180	J
3.	UNKNOWN	10.87	270	J
4.	UNKNOWN	11.08	180	J
5.	UNKNOWN ALKANE	11.31	200	J
6.	C10H20 ISOMER	11.44	250	J
7.	UNKNOWN ALCOHOL	11.62	120	J
8.	UNKNOWN ALKANE	11.78	860	J
9.	UNKNOWN	12.03	190	J
10.	UNKNOWN ALKANE	12.17	480	J
11.	UNKNOWN	12.28	180	J
12.	UNKNOWN ALKANE	12.47	210	J
13.	UNKNOWN CYCLOALKANE	12.58	150	J
14.	UNKNOWN ALKANE	12.71	180	J
15.	UNKNOWN	12.76	180	J
16. 6975-98-0	DECANE, 2-METHYL-	12.81	170	NJ
17. 13151-34-3	DECANE, 3-METHYL-	12.94	280	NJ
18. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	13.24	350	NJ
19.	UNKNOWN ALKANE	13.36	820	J
20.	UNKNOWN	13.49	300	J
21.	UNKNOWN	13.64	440	J
22.	C12H24 ISOMER	13.81	120	J
23.	UNKNOWN	14.02	120	J
24.	UNKNOWN	14.11	160	J
25.	C11H22 ISOMER	14.19	260	J
26. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	14.40	240	NJ
27.	UNKNOWN ALKANE	14.84	190	J
28.	UNKNOWN	14.92	140	J
29.	UNKNOWN ALKANE	15.04	180	J
30.	UNKNOWN	15.14	140	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V1B9478

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. _____

Date Analyzed: 12/21/98

GC Column: DB-624 ID: 0.25 (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	13	
67-64-1-----	Acetone	10	U
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	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	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	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)	10	U

FORM I VOA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLI-2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-01

Sample wt/vol: 5.000 (g/mL) ML

Lab File ID: V1B9478

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. _____

Date Analyzed: 12/21/98

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN	15.08	10	JB
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V5A8920

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. 38

Date Analyzed: 12/26/98

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	16	U
74-83-9-----	Bromomethane	16	U
75-01-4-----	Vinyl Chloride	16	U
75-00-3-----	Chloroethane	16	U
75-09-2-----	Methylene Chloride	28	
67-64-1-----	Acetone	21	
75-15-0-----	Carbon Disulfide	16	U
75-35-4-----	1,1-Dichloroethene	16	U
75-34-3-----	1,1-Dichloroethane	16	U
540-59-0-----	1,2-Dichloroethene (Total)	16	U
67-66-3-----	Chloroform	16	U
107-06-2-----	1,2-Dichloroethane	16	U
78-93-3-----	2-Butanone	16	U
71-55-6-----	1,1,1-Trichloroethane	16	U
56-23-5-----	Carbon Tetrachloride	16	U
75-27-4-----	Bromodichloromethane	16	U
78-87-5-----	1,2-Dichloropropane	16	U
10061-01-5-----	cis-1,3-Dichloropropene	16	U
79-01-6-----	Trichloroethene	16	U
124-48-1-----	Dibromochloromethane	16	U
79-00-5-----	1,1,2-Trichloroethane	16	U
71-43-2-----	Benzene	16	U
10061-02-6-----	trans-1,3-Dichloropropene	16	U
75-25-2-----	Bromoform	16	U
108-10-1-----	4-Methyl-2-Pentanone	16	U
591-78-6-----	2-Hexanone	16	U
127-18-4-----	Tetrachloroethene	16	U
79-34-5-----	1,1,2,2-Tetrachloroethane	16	U
108-88-3-----	Toluene	16	U
108-90-7-----	Chlorobenzene	16	U
100-41-4-----	Ethylbenzene	16	U
100-42-5-----	Styrene	16	U
1330-20-7-----	Xylene (Total)	16	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLI-2A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: V5A8920

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: not dec. 38

Date Analyzed: 12/26/98

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.51	20	J
2.	UNKNOWN	13.29	10	J
3.	UNKNOWN	13.48	10	J
4.	UNKNOWN HYDROCARBON	13.63	14	J
5.	UNKNOWN	13.91	11	JB
6.	C11H20 ISOMER	14.39	10	J
7.	UNKNOWN	14.92	11	J
8.	UNKNOWN ALKANE	15.04	11	J
9.	UNKNOWN	15.14	17	J
10.	UNKNOWN	15.52	10	J
11.	C13H26 ISOMER	15.64	9	J
12. 91-20-3	NAPHTHALENE	15.76	41	NJ
13.	UNKNOWN ALKANE	15.84	11	J
14.	UNKNOWN	15.98	13	J
15.	UNKNOWN	16.12	9	J
16.	UNKNOWN	16.28	15	J
17.	UNKNOWN	16.81	10	J
18.	UNKNOWN HYDROCARBON	17.99	10	J
19.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-1

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: E2086

Matrix: (soil/water) WATER Lab Sample ID: E2086-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1A5940

Level: (low/med) LOW Date Received: 12/17/98

% Moisture: decanted: (Y/N) Date Extracted: 12/21/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/24/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	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-----	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.

SLI-1

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-03

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

Lab File ID: S1A5940

Level: (low/med) LOW

Date Received: 12/17/98

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

Date Extracted: 12/21/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/24/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

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

Number TICs found: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.05	6	J
2. 58-08-2	CAFFEINE	15.76	5	NJ
3.	UNKNOWN ORGANIC ACID	16.46	3	J
4. 57-10-3	HEXADECANOIC ACID	16.68	8	NJ
5. 10544-50-0	SULFUR, MOL. (S8)	17.69	4	NJ
6.	UNKNOWN	20.31	6	J
7.	UNKNOWN ORGANIC ACID	20.85	30	J
8.	UNKNOWN ALKANE	26.32	3	J
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-1A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: E2086

Matrix: (soil/water) SOIL Lab Sample ID: E2086-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S1A6925

Level: (low/med) LOW Date Received: 12/17/98

% Moisture: 41 decanted: (Y/N) N Date Extracted: 12/21/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/12/99

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	71000	U
100-02-7-----	4-Nitrophenol	71000	U
132-64-9-----	Dibenzofuran	28000	U
121-14-2-----	2,4-Dinitrotoluene	28000	U
84-66-2-----	Diethylphthalate	28000	U
7005-72-3-----	4-Chlorophenyl-phenylether	28000	U
86-73-7-----	Fluorene	5800	J
100-01-6-----	4-Nitroaniline	71000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	71000	U
86-30-6-----	N-nitrosodiphenylamine (1)	28000	U
101-55-3-----	4-Bromophenyl-phenylether	28000	U
118-74-1-----	Hexachlorobenzene	28000	U
87-86-5-----	Pentachlorophenol	71000	U
85-01-8-----	Phenanthrene	90000	
120-12-7-----	Anthracene	37000	
86-74-8-----	Carbazole	4200	J
84-74-2-----	Di-n-butylphthalate	28000	U
206-44-0-----	Fluoranthene	160000	
129-00-0-----	Pyrene	130000	
85-68-7-----	Butylbenzylphthalate	28000	U
91-94-1-----	3,3'-Dichlorobenzidine	28000	U
56-55-3-----	Benzo(a)anthracene	90000	
218-01-9-----	Chrysene	82000	
117-81-7-----	bis(2-Ethylhexyl)phthalate	5400	J
117-84-0-----	Di-n-octylphthalate	28000	U
205-99-2-----	Benzo(b)fluoranthene	89000	
207-08-9-----	Benzo(k)fluoranthene	51000	
50-32-8-----	Benzo(a)pyrene	78000	
193-39-5-----	Indeno(1,2,3-cd)pyrene	39000	
53-70-3-----	Dibenzo(a,h)anthracene	9500	J
191-24-2-----	Benzo(g,h,i)perylene	32000	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLI-1A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-04

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1A6925

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 12/21/98

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 01/12/99

Injection Volume: 2.0 (uL)

Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y

pH: 7.8

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

Number TICs found: 21

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.45	14000	J
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	1.75	180000	aNJ
3.	UNKNOWN	2.84	7600	J
4.	UNKNOWN	11.54	7000	J
5.	UNKNOWN PAH	11.93	6000	J
6. 132-65-0	DIBENZOTHIOPHENE	12.38	8900	NJ
7.	METHYL PHENANTHRENE ISOMER	13.64	22000	J
8.	UNKNOWN	13.74	8000	J
9.	NAPHTHALENE, PHENYL- ISOMER	14.24	13000	J
10. 10544-50-0	SULFUR, MOL. (S8)	14.75	8500	NJ
11.	UNKNOWN PAH	15.60	6700	J
12.	UNKNOWN PAH	15.79	6600	J
13.	UNKNOWN PAH	16.00	9200	J
14.	UNKNOWN PAH	16.14	7500	J
15.	UNKNOWN PAH	16.31	5900	J
16.	UNKNOWN PAH	17.22	7500	J
17.	UNKNOWN	18.44	14000	J
18.	UNKNOWN PAH	19.92	16000	J
19.	UNKNOWN PAH	20.00	13000	J
20.	UNKNOWN PAH	21.61	29000	J
21.	UNKNOWN	22.56	24000	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-01

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

Lab File ID: S1A5943

Level: (low/med) LOW

Date Received: 12/17/98

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

Date Extracted: 12/21/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/24/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	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
108-60-1-----	2,2'-oxybis(1-Chloropropane)	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
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	1	J
106-47-8-----	4-Chloroaniline	10	U
111-91-1-----	bis(-2-Chloroethoxy) methane	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	1	J

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-01

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

Lab File ID: S1A5943

Level: (low/med) LOW

Date Received: 12/17/98

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

Date Extracted: 12/21/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/24/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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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	1	J
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	
120-12-7-----	Anthracene	2	J
86-74-8-----	Carbazole	4	J
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	19	
129-00-0-----	Pyrene	24	
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a) anthracene	10	
218-01-9-----	Chrysene	11	
117-81-7-----	bis(2-Ethylhexyl)phthalate	11	
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b) fluoranthene	18	
207-08-9-----	Benzo(k) fluoranthene	6	J
50-32-8-----	Benzo(a) pyrene	11	
193-39-5-----	Indeno(1,2,3-cd) pyrene	4	J
53-70-3-----	Dibenzo(a,h) anthracene	1	J
191-24-2-----	Benzo(g,h,i) perylene	3	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLI-2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-01

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

Lab File ID: S1A5943

Level: (low/med) LOW

Date Received: 12/17/98

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

Date Extracted: 12/21/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/24/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

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

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

Number TICs found: 18

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALCOHOL	6.38	5	J
2.	UNKNOWN ALCOHOL	6.80	2	J
3.	UNKNOWN	7.35	2	J
4.	UNKNOWN	9.03	6	J
5.	UNKNOWN	12.82	10	J
6.	UNKNOWN	13.08	4	J
7.	UNKNOWN	13.27	4	J
8.	UNKNOWN	14.38	5	J
9.	UNKNOWN ALKANE	14.83	8	J
10.	UNKNOWN ORGANIC ACID	14.98	4	J
11.	UNKNOWN	15.54	7	J
12.	UNKNOWN PAH	16.58	48	J
13. 57-10-3	HEXADECANOIC ACID	16.76	31	NJ
14.	UNKNOWN	17.59	76	J
15.	UNKNOWN ALKANE	18.04	9	J
16. 57-11-4	OCTADECANOIC ACID	18.33	14	NJ
17.	UNKNOWN PAH	24.15	9	J
18.	UNKNOWN	24.61	36	J
19.				
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FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: E2086
Matrix: (soil/water) SOIL Lab Sample ID: E2086-02
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S1A6924
Level: (low/med) LOW Date Received: 12/17/98
% Moisture: 33 decanted: (Y/N) N Date Extracted: 12/21/98
Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/12/99
Injection Volume: 2.0 (uL) Dilution Factor: 100.0
GPC Cleanup: (Y/N) Y pH: 8.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	50000	U
111-44-4	bis(-2-Chloroethyl) Ether	50000	U
95-57-8	2-Chlorophenol	50000	U
541-73-1	1,3-Dichlorobenzene	50000	U
106-46-7	1,4-Dichlorobenzene	50000	U
95-50-1	1,2-Dichlorobenzene	50000	U
95-48-7	2-Methylphenol	50000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	50000	U
106-44-5	4-Methylphenol	50000	U
621-64-7	N-Nitroso-di-n-propylamine	50000	U
67-72-1	Hexachloroethane	50000	U
98-95-3	Nitrobenzene	50000	U
78-59-1	Isophorone	50000	U
88-75-5	2-Nitrophenol	50000	U
105-67-9	2,4-Dimethyphenol	50000	U
120-83-2	2,4-Dichlorophenol	50000	U
120-82-1	1,2,4-Trichlorobenzene	50000	U
91-20-3	Naphthalene	57000	
106-47-8	4-Chloroaniline	50000	U
111-91-1	bis(-2-Chloroethoxy) methane	50000	U
87-68-3	Hexachlorobutadiene	50000	U
59-50-7	4-Chloro-3-Methylphenol	50000	U
91-57-6	2-Methylnaphthalene	14000	J
77-47-4	Hexachlorocyclopentadiene	50000	U
88-06-2	2,4,6-Trichlorophenol	50000	U
95-95-4	2,4,5-Trichlorophenol	120000	U
91-58-7	2-Chloronaphthalene	50000	U
88-74-4	2-Nitroaniline	120000	U
131-11-3	Dimethylphthalate	50000	U
208-96-8	Acenaphthylene	50000	U
606-20-2	2,6-Dinitrotoluene	50000	U
99-09-2	3-Nitroaniline	120000	U
83-32-9	Acenaphthene	39000	J

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: E2086

Matrix: (soil/water) SOIL Lab Sample ID: E2086-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S1A6924

Level: (low/med) LOW Date Received: 12/17/98

% Moisture: 33 decanted: (Y/N) N Date Extracted: 12/21/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/12/99

Injection Volume: 2.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 8.9

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
51-28-5-----	2,4-Dinitrophenol	120000	U
100-02-7-----	4-Nitrophenol	120000	U
132-64-9-----	Dibenzofuran	36000	J
121-14-2-----	2,4-Dinitrotoluene	50000	U
84-66-2-----	Diethylphthalate	50000	U
7005-72-3-----	4-Chlorophenyl-phenylether	50000	U
86-73-7-----	Fluorene	44000	J
100-01-6-----	4-Nitroaniline	120000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	120000	U
86-30-6-----	N-nitrosodiphenylamine (1)	50000	U
101-55-3-----	4-Bromophenyl-phenylether	50000	U
118-74-1-----	Hexachlorobenzene	50000	U
87-86-5-----	Pentachlorophenol	120000	U
85-01-8-----	Phenanthrene	280000	
120-12-7-----	Anthracene	72000	
86-74-8-----	Carbazole	56000	
84-74-2-----	Di-n-butylphthalate	50000	U
206-44-0-----	Fluoranthene	260000	
129-00-0-----	Pyrene	230000	
85-68-7-----	Butylbenzylphthalate	50000	U
91-94-1-----	3,3'-Dichlorobenzidine	50000	U
56-55-3-----	Benzo(a)anthracene	120000	
218-01-9-----	Chrysene	120000	
117-81-7-----	bis(2-Ethylhexyl)phthalate	50000	U
117-84-0-----	Di-n-octylphthalate	50000	U
205-99-2-----	Benzo(b)fluoranthene	130000	
207-08-9-----	Benzo(k)fluoranthene	64000	
50-32-8-----	Benzo(a)pyrene	110000	
193-39-5-----	Indeno(1,2,3-cd)pyrene	55000	
53-70-3-----	Dibenzo(a,h)anthracene	13000	J
191-24-2-----	Benzo(g,h,i)perylene	46000	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLI-2A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-02

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S1A6924

Level: (low/med) LOW

Date Received: 12/17/98

% Moisture: 33 decanted: (Y/N) N

Date Extracted: 12/21/98

Concentrated Extract Volume: 500 (uL)

Date Analyzed: 01/12/99

Injection Volume: 2.0 (uL)

Dilution Factor: 100.0

GPC Cleanup: (Y/N) N

pH: 8.9

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

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	1.74	200000	ANJ
2.	UNKNOWN ALDOL CONDENSATE	2.84	25000	JA
3.	C2-NAPHTHALENE ISOMER	9.21	15000	J
4.	UNKNOWN PAH	11.35	19000	J
5.	UNKNOWN	12.25	27000	J
6. 132-65-0	DIBENZOTHIOPHENE	12.38	21000	NJ
7.	UNKNOWN PAH	13.64	53000	J
8.	UNKNOWN PAH	13.73	49000	J
9. 84-65-1	9,10-ANTHRACENEDIONE	14.21	21000	NJ
10.	UNKNOWN PAH	15.99	12000	J
11.	UNKNOWN PAH	17.21	15000	J
12.	UNKNOWN PAH	19.99	42000	J
13.	UNKNOWN PAH	21.60	11000	J
14.	UNKNOWN PAH	23.53	12000	J
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-1A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-04

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E2A8873F

% Moisture: 41 decanted: (Y/N) N

Date Received: 12/17/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/21/98

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 01/09/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) Y

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

319-84-6-----alpha-BHC	2.9	U
319-85-7-----beta-BHC	2.9	U
319-86-8-----delta-BHC	2.9	U
58-89-9-----gamma-BHC (Lindane)	2.9	U
76-44-8-----Heptachlor	2.9	U
309-00-2-----Aldrin	15	P
1024-57-3-----Heptachlor epoxide	2.9	U
959-98-8-----Endosulfan I	2.9	U
60-57-1-----Dieldrin	28	P
72-55-9-----4,4'-DDE	5.6	U
72-20-8-----Endrin	5.6	U
33213-65-9-----Endosulfan II	79	P
72-54-8-----4,4'-DDD	57	P
1031-07-8-----Endosulfan sulfate	5.6	U
50-29-3-----4,4'-DDT	69	P
72-43-5-----Methoxychlor	320	P
53494-70-5-----Endrin ketone	20	P
7421-93-4-----Endrin aldehyde	5.6	U
5103-71-9-----alpha-Chlordane	23	P
5103-74-2-----gamma-Chlordane	44	P
8001-35-2-----Toxaphene	290	U
12674-11-2-----Aroclor-1016	56	U
11104-28-2-----Aroclor-1221	110	U
11141-16-5-----Aroclor-1232	56	U
53469-21-9-----Aroclor-1242	56	U
12672-29-6-----Aroclor-1248	56	U
11097-69-1-----Aroclor-1254	56	U
11096-82-5-----Aroclor-1260	1900	P

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2A

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) SOIL

Lab Sample ID: E2086-02

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: E2A8870F

% Moisture: 33 decanted: (Y/N) N

Date Received: 12/17/98

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 12/21/98

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 01/09/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

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

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

319-84-6-----	alpha-BHC	2.5	U
319-85-7-----	beta-BHC	2.5	U
319-86-8-----	delta-BHC	2.5	U
58-89-9-----	gamma-BHC (Lindane)	2.5	U
76-44-8-----	Heptachlor	2.5	U
309-00-2-----	Aldrin	2.5	U
1024-57-3-----	Heptachlor epoxide	2.5	U
959-98-8-----	Endosulfan I	2.5	U
60-57-1-----	Dieldrin	6.6	P
72-55-9-----	4,4'-DDE	4.9	U
72-20-8-----	Endrin	4.9	U
33213-65-9-----	Endosulfan II	4.9	U
72-54-8-----	4,4'-DDD	46	P
1031-07-8-----	Endosulfan sulfate	4.9	U
50-29-3-----	4,4'-DDT	79	
72-43-5-----	Methoxychlor	190	P
53494-70-5-----	Endrin ketone	69	P
7421-93-4-----	Endrin aldehyde	4.9	U
5103-71-9-----	alpha-Chlordane	16	P
5103-74-2-----	gamma-Chlordane	30	P
8001-35-2-----	Toxaphene	250	U
12674-11-2-----	Aroclor-1016	49	U
11104-28-2-----	Aroclor-1221	100	U
11141-16-5-----	Aroclor-1232	49	U
53469-21-9-----	Aroclor-1242	49	U
12672-29-6-----	Aroclor-1248	590	P
11097-69-1-----	Aroclor-1254	49	U
11096-82-5-----	Aroclor-1260	49	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: E2086

Matrix: (soil/water) WATER

Lab Sample ID: E2086-01

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

Lab File ID: E2A8751F

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

Date Received: 12/17/98

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 12/21/98

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 01/01/99

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Sulfur Cleanup: (Y/N) Y

CONCENTRATION UNITS:
CAS NO. COMPOUND (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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: E2086
Matrix: (soil/water) WATER Lab Sample ID: E2086-03
Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2A8752F
% Moisture: _____ decanted: (Y/N) _____ Date Received: 12/17/98
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/21/98
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 01/01/99
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND		
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

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO. _____

SLI-1

Lab Name: MITKEM

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: E2086

Matrix (soil/water):

WATER

Lab Sample ID:

E2086-03

Level (low/med):

LOW

Date Received:

12/17/98

% Solids: _____

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

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	82.3	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	128	B	E	P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.82	B	N	P
7440-70-2	Calcium	65000			P
7440-47-3	Chromium	6.4	B		P
7440-48-4	Cobalt	7.3	B		P
7440-50-8	Copper	202		E*N	P
7439-89-6	Iron	2600		N	P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	4980	B		P
7439-96-5	Manganese	372			P
7439-97-6	Mercury	0.26	U	N	CV
7440-02-0	Nickel	9.2	B		P
7440-09-7	Potassium	5300		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	14.5			P
7440-23-5	Sodium	7240			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	122		E	P
	Cyanide	8.0	B		C

Color Before:

COLORLESS

Clarity Before:

CLEAR

Texture: _____

Color After:

YELLOW

Clarity After:

CLEAR

Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-1A

Lab Name: MITKEM

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: E2086Matrix (soil/water): SOILLab Sample ID: E2086-04Level (low/med): MEDDate Received: 12/17/98% Solids: 34.0

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

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6240		*	P
7440-36-0	Antimony	13.3	B		P
7440-38-2	Arsenic	14.1		*	P
7440-39-3	Barium	155		*N	P
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium	4.9		*N	P
7440-70-2	Calcium	28800		*	P
7440-47-3	Chromium	288		*	P
7440-48-4	Cobalt	14.5	B	E	P
7440-50-8	Copper	40600 10500		*	P
7439-89-6	Iron	39100		*	P
7439-92-1	Lead	2590		*	P
7439-95-4	Magnesium	2480	B		P
7439-96-5	Manganese	317		*N	P
7439-97-6	Mercury	1.8		*N	CV
7440-02-0	Nickel	178		*N	P
7440-09-7	Potassium	516	B		P
7782-49-2	Selenium	9.1			P
7440-22-4	Silver	11.6		*N	P
7440-23-5	Sodium	1770	B		P
7440-28-0	Thallium	2.8	B		P
7440-62-2	Vanadium	69.7		*	P
7440-66-6	Zinc	1790		*	P
	Cyanide	6.3		*	C

Color Before: BLACK

Clarity Before: _____

Texture: COARSEColor After: YELLOWClarity After: CLEAR

Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2

Lab Name: MITKEM

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: E2086Matrix (soil/water): WATERLab Sample ID: E2086-01Level (low/med): LOWDate Received: 12/17/98

% Solids: _____

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

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4830			P
7440-36-0	Antimony	7.3	B		P
7440-38-2	Arsenic	19.7			P
7440-39-3	Barium	362		E	P
7440-41-7	Beryllium	1.5	B		P
7440-43-9	Cadmium	7.3		N	P
7440-70-2	Calcium	85600			P
7440-47-3	Chromium	144			P
7440-48-4	Cobalt	20.8	B		P
7440-50-8	Copper	13700		E*N	P
7439-89-6	Iron	46300		N	P
7439-92-1	Lead	534			P
7439-95-4	Magnesium	6780			P
7439-96-5	Manganese	824			P
7439-97-6	Mercury	0.38		N	CV
7440-02-0	Nickel	55.4			P
7440-09-7	Potassium	6760		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	31.4			P
7440-23-5	Sodium	11400			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	91.9			P
7440-66-6	Zinc	1330		E	P
	Cyanide	1.0	U		C

Color Before: BROWNClarity Before: CLOUDY

Texture: _____

Color After: YELLOWClarity After: CLOUDY

Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLI-2A

Lab Name: MITKEM

Contract: _____

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG No.: E2086Matrix (soil/water): SOILLab Sample ID: E2086-02Level (low/med): MEDDate Received: 12/17/98% Solids: 35.0

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

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7960		*	P
7440-36-0	Antimony	11.5	B		P
7440-38-2	Arsenic	19.7		*	P
7440-39-3	Barium	205		*N	P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	5.2		*N	P
7440-70-2	Calcium	96400		*	P
7440-47-3	Chromium	901		*	P
7440-48-4	Cobalt	14.2	B	E	P
7440-50-8	Copper	15600 18800		*	P
7439-89-6	Iron	51800		*	P
7439-92-1	Lead	1010		*	P
7439-95-4	Magnesium	2070	B		P
7439-96-5	Manganese	758		*N	P
7439-97-6	Mercury	0.39		*N	CV
7440-02-0	Nickel	158		*N	P
7440-09-7	Potassium	446	B		P
7782-49-2	Selenium	6.6			P
7440-22-4	Silver	21.8		*N	P
7440-23-5	Sodium	1330	B		P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	116		*	P
7440-66-6	Zinc	1210		*	P
	Cyanide	2.4		*	C

Color Before: BROWN

Clarity Before: _____

Texture: COARSEColor After: YELLOWClarity After: CLEAR

Artifacts: _____

Comments:
