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FINAL
SITE INSPECTION PRIORITIZATION REPORT
SPECTRUM FINISHING CORPORATION
BABYLON, SUFFOLK COUNTY, NEW YORK

CERCLIS I.D. No.: NYD044466910

OCTOBER 1998

Volume 3 of 3

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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355907

REFERENCE 25 (CONT.)

001313 190

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM42

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2724708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D21

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: 29 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2300	U
111-44-4	bis(2-Chloroethyl)ether	2300	U
95-57-8	2-Chlorophenol	2300	U
541-73-1	1,3-Dichlorobenzene	2300	U
106-46-7	1,4-Dichlorobenzene	2300	U
95-50-1	1,2-Dichlorobenzene	2300	U
95-48-7	2-Methylphenol	2300	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2300	U
106-44-5	4-Methylphenol	2300	U
621-64-7	N-Nitroso-di-n-propylamine	2300	U
67-72-1	Hexachloroethane	2300	U
98-95-3	Nitrobenzene	2300	U
78-59-1	Isophorone	480	J
88-75-5	2-Nitrophenol	2300	U
105-67-9	2,4-Dimethylphenol	2300	U
111-91-1	bis(2-Chloroethoxy)methane	2300	U
120-83-2	2,4-Dichlorophenol	2300	U
120-82-1	1,2,4-Trichlorobenzene	2300	U
91-20-3	Naphthalene	2300	U
106-47-8	4-Chloroaniline	2300	U J
87-68-3	Hexachlorobutadiene	2300	U
59-50-7	4-Chloro-3-methylphenol	2300	U
91-57-6	2-Methylnaphthalene	360	J
77-47-4	Hexachlorocyclopentadiene	2300	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	5800	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	5800	U
131-11-3	Dimethylphthalate	2300	U
208-96-8	Acenaphthylene	2300	U
606-20-2	2,6-Dinitrotoluene	2300	U
99-09-2	3-Nitroaniline	5800	U
83-32-9	Acenaphthene	2300	U

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EPA SAMPLE NO.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BMM42

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2724708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D21

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: 29 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5800	U
100-02-7	4-Nitrophenol	5800	U
132-64-9	Dibenzofuran	2300	U
121-14-2	2,4-Dinitrotoluene	2300	U
84-66-2	Diethylphthalate	2300	U
7005-72-3	4-Chlorophenyl-phenylether	2300	U
86-73-7	Fluorene	2300	U
100-01-6	4-Nitroaniline	5800	U
534-52-1	4,6-Dinitro-2-methylphenol	5800	U
86-30-6	N-Nitrosodiphenylamine (1)	1100	J
101-55-3	4-Bromophenyl-phenylether	2300	U
118-74-1	Hexachlorobenzene	2300	U
87-86-5	Pentachlorophenol	5800	U
85-01-8	Phenanthrene	1400	J
120-12-7	Anthracene	2300	U
86-74-8	Carbazole	2300	U
84-74-2	Di-n-butylphthalate	2300	U
206-44-0	Fluoranthene	300	J
129-00-0	Pyrene	470	J
85-68-7	Butylbenzylphthalate	3200	
91-94-1	3,3'-Dichlorobenzidine	2300	U
56-55-3	Benzo(a)anthracene	2300	U
218-01-9	Chrysene	2300	U
117-81-7	bis(2-Ethylhexyl)phthalate	16000	
117-84-0	Di-n-octylphthalate	840	J
205-99-2	Benzo(b)fluoranthene	2300	U
207-08-9	Benzo(k)fluoranthene	2300	U
50-32-8	Benzo(a)pyrene	2300	U
193-39-5	Indeno(1,2,3-cd)pyrene	2300	U
53-70-3	Dibenz(a,h)anthracene	2300	U
191-24-2	Benzo(g,h,i)perylene	2300	U

(1) - Cannot be separated from Diphenylamine

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EPA SAMPLE NO.

BMM42

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2724708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D21

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: 29 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.9

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2613-76-5	1H-Indene, 2,3-dihydro-1,1,3	9.13	1700	JN
2. 575-37-1	Naphthalene, 1,7-dimethyl-	9.25	2600	JN
3. 581-40-8	Naphthalene, 2,3-dimethyl-	9.37	7500	JN
4.	Unknown	9.52	2000	J
5. 2131-42-2	Naphthalene, 1,4,6-trimethyl	9.97	3200	JN
6. 2245-38-7	Naphthalene, 1,6,7-trimethyl	10.12	3600	JN
7. 2131-42-2	Naphthalene, 1,4,6-trimethyl	10.17	3700	JN
8. 2131-42-2	Naphthalene, 1,4,6-trimethyl	10.37	2900	JN
9.	Unknown	11.47	3100	J
10. 779-02-2	Anthracene, 9-methyl-	12.78	2300	JN
11. 2531-84-2	Phenanthrene, 2-methyl-	12.95	2100	JN
12. 883-20-5	Phenanthrene, 9-methyl-	13.00	2200	JN
13.	Unknown	14.07	1600	J
14.	Unknown	15.17	1500	J
15.	Unknown	17.78	2000	J
16.	Unknown	17.97	2000	J
17.	Unknown	18.67	2100	J
18.	Unknown	18.97	2200	J
19.	Unknown	19.33	3000	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM43

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 123D07

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 3 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/03/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	UJ
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	UJ
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	UJ
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	340	U

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EPA SAMPLE NO.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BMM43

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 123D07

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 3 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/03/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

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EPA SAMPLE NO.

BMM43

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 123D07

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 3 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/03/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	5.72	~~81~~	~~JB~~
2.	Aldol condensation	5.84	~~81~~	~~JB~~
3.	Unknown	6.35	78	J
4.	Unknown	13.27	94	J
5. 78-51-3	Ethanol, 2-butoxy-, phosphat	15.57	370	JN

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM44

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D12

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 5 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	870	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	870	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	870	U
83-32-9	Acenaphthene	350	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM44

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D12

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 5 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	870	U
100-02-7	4-Nitrophenol	870	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	870	U
534-52-1	4,6-Dinitro-2-methylphenol	870	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	870	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350 ~~47~~	~~BJ~~ U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	87	J
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	900	
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

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EPA SAMPLE NO.

BMM44

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D12

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 5 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	5.70	~~420~~	~~JN~~ R
2.		Aldol condensation	5.84	~~110~~	~~JN~~ R
3.	541-02-6	Cyclopentasiloxane, decameth	7.27	77	JN
4.		Unknown	7.53	85	J
5.		Unknown	9.62	85	J
6.	70-55-3	Benzenesulfonamide, 4-methyl	11.20	92	JN
7.		Unknown	11.67	78	J
8.		Unknown	12.92	81	J
9.		Unknown	13.07	140	J
10.		Unknown	13.17	82	J
11.		Unknown	13.27	250	J
12.		Unknown	13.32	130	J
13.		Unknown	13.38	170	J
14.		Unknown	13.48	110	J
15.		Unknown	13.58	110	J
16.		Unknown	13.63	130	J
17.	32598-13-3	1,1'-Biphenyl, 3,3',4,4'-tet	13.78	86	JN
18.		Unknown	13.83	140	J
19.		Unknown	13.93	130	J
20.	38380-01-7	1,1'-Biphenyl, 2,2',4,4',5-p	14.12	78	JN
21.	25429-29-2	1,1'-Biphenyl, pentachloro-	14.58	89	JN
22.		Unknown	15.45	82	J
23.		Unknown	16.85	84	J
24.		Unknown	17.50	91	J
25.		Unknown	18.63	76	J
26.		Unknown	18.97	90	J
27.		Unknown	19.17	83	J
28.		Unknown	19.25	250	J
29.		Unknown	19.30	83	J
30.		Unknown	19.63	170	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM48

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D08

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 8 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	UJ
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	360	U

001429 200

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM48

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D08

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 8 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360 ~~45~~	~~BU~~ U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	140	J
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	66	J
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

001430 201

EPA SAMPLE NO.

BMM48

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D08

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 8 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.07	100	J
2.	Unknown	13.27	230	J
3.	Unknown	13.32	130	J
4.	Unknown	13.40	77	J
5.	Unknown	13.42	130	J
6.	Unknown	13.52	120	J
7.	Unknown	13.57	85	J
8.	Unknown	13.63	160	J
9.	Unknown	13.73	120	J
10.	Unknown	13.77	110	J
11.	Unknown	13.93	110	J
12.	Unknown	14.07	120	J
13.	Unknown	14.26	82	J

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001448

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 202

BMM49

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D06

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 4 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U J
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

001449 EPA SAMPLE NO. 203

BMM49

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D06

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 4 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

001450 204

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BMM49

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D06

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 4 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	5.72	~~22~~	~~AJ~~ R
2.	Unknown	17.8~~3~~4	89	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM50

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D14

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 6 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	UJ
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	350	U

206

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM50

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D14

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 6 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350 ~~38~~	~~BJ~~ U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	70	J
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

001457 207

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BMM50

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D14

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 6 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	5.72	[illegible]	[illegible]
2.	Aldol condensation	5.83	[illegible]	[illegible]
3.	Unknown	13.27	100	J
4. 473-13-2	Naphthalene, 1,2,3,4,4a,5,6,	19.87	120	JN
5.	Unknown	20.17	100	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM51

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726009

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 123D09

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 7 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/03/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-di-n-propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	UJ
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	bis(2-Chloroethoxy)methane	1800	UJ
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	1800	U
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	UJ
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	1800	U
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4500	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4500	U
131-11-3	Dimethylphthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	4500	U
83-32-9	Acenaphthene	1800	U

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EPA SAMPLE NO.

BMM51

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726009

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 123D09

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 7 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/03/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4500	U
100-02-7	4-Nitrophenol	4500	U J
132-64-9	Dibenzofuran	1800	U
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U J
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	1800	U
100-01-6	4-Nitroaniline	4500	U
534-52-1	4,6-Dinitro-2-methylphenol	4500	U J
86-30-6	N-Nitrosodiphenylamine (1)	640	J
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	4500	U
85-01-8	Phenanthrene	1800	U
120-12-7	Anthracene	1800	U
86-74-8	Carbazole	1800	U
84-74-2	Di-n-butylphthalate	1800	U
206-44-0	Fluoranthene	1800	U
129-00-0	Pyrene	660	J
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	1800	U
218-01-9	Chrysene	1800	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	J
117-84-0	Di-n-octylphthalate	1800	U
205-99-2	Benzo(b)fluoranthene	1800	U J
207-08-9	Benzo(k)fluoranthene	1800	U
50-32-8	Benzo(a)pyrene	1800	U
193-39-5	Indeno(1,2,3-cd)pyrene	1800	U
53-70-3	Dibenz(a,h)anthracene	1800	U
191-24-2	Benzo(g,h,i)perylene	1800	U

(1) - Cannot be separated from Diphenylamine

001468 210

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BMM51

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726009

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 123D09

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 7 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/03/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

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

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.58	2700	J
2. 2613-76-5	1H-Indene, 2,3-dihydro-1,1,3	9.14	2200	JN
3.	Unknown	9.27	1800	J
4.	Unknown	9.38	8000	J
5. 54832-83-6	1H-Indene, octahydro-2,2,4,4	9.67	5700	JN
6.	Unknown	10.37	3100	J
7.	Unknown	10.53	2100	J
8. 829-26-5	Naphthalene, 2,3,6-trimethyl	10.57	2800	JN
9.	Unknown	10.65	3800	J
10.	Unknown	10.71	2000	J
11.	Unknown	12.43	2000	J
12.	Unknown	12.82	2500	J
13.	Unknown	13.07	1900	J
14.	Unknown	15.00	2300	J

MAY 26 1998

001523 211

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM52

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D16

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 10 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U J
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	920	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	920	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	920	U
83-32-9	Acenaphthene	370	U

001524 212

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM52

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D16

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 10 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	920	U
100-02-7	4-Nitrophenol	920	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	920	U
534-52-1	4,6-Dinitro-2-methylphenol	920	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370 ~~52~~	~~BJ~~ U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	160	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenz(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

001525 213

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BMM52

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2726010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D16

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: 10 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	5.72	~~[illegible]~~	~~AJ~~ R
2.	Aldol condensation	5.82	~~150~~	~~AJ~~ R
3.	Unknown	12.08	76	J
4.	Unknown	13.27	180	J
5.	Unknown	13.32	97	J
6.	Unknown	13.38	110	J
7.	Unknown	13.42	87	J
8.	Unknown	13.58	92	J
9.	Unknown	14.07	100	J
10.	Unknown	15.57	100	J
11.	Unknown	18.53	150	J
12.	Unknown	18.87	99	J
13.	Unknown	18.92	160	J
14.	Unknown	19.72	130	J
15.	Unknown	19.88	140	J
16.	Unknown	20.90	110	J

MAY 26 1998

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EPA SAMPLE NO.

BMM54

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2724709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D22

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2200	U
111-44-4	bis(2-Chloroethyl)ether	2200	U
95-57-8	2-Chlorophenol	2200	U
541-73-1	1,3-Dichlorobenzene	2200	U
106-46-7	1,4-Dichlorobenzene	2200	U
95-50-1	1,2-Dichlorobenzene	2200	U
95-48-7	2-Methylphenol	2200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2200	U
106-44-5	4-Methylphenol	2200	U
621-64-7	N-Nitroso-di-n-propylamine	2200	U
67-72-1	Hexachloroethane	2200	U
98-95-3	Nitrobenzene	2200	U
78-59-1	Isophorone	2200	U
88-75-5	2-Nitrophenol	2200	U
105-67-9	2,4-Dimethylphenol	2200	U
111-91-1	bis(2-Chloroethoxy)methane	2200	U
120-83-2	2,4-Dichlorophenol	2200	U
120-82-1	1,2,4-Trichlorobenzene	2200	U
91-20-3	Naphthalene	2200	U
106-47-8	4-Chloroaniline	2200	UJ
87-68-3	Hexachlorobutadiene	2200	U
59-50-7	4-Chloro-3-methylphenol	2200	U
91-57-6	2-Methylnaphthalene	660	J
77-47-4	Hexachlorocyclopentadiene	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U
95-95-4	2,4,5-Trichlorophenol	5600	U
91-58-7	2-Chloronaphthalene	2200	U
88-74-4	2-Nitroaniline	5600	U
131-11-3	Dimethylphthalate	2200	U
208-96-8	Acenaphthylene	2200	U
606-20-2	2,6-Dinitrotoluene	2200	U
99-09-2	3-Nitroaniline	5600	U
83-32-9	Acenaphthene	330	J

1C 001555

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM54

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 2724709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 122D22

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/10/98

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/02/98

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5600	U
100-02-7	4-Nitrophenol	5600	U
132-64-9	Dibenzofuran	2200	U
121-14-2	2,4-Dinitrotoluene	2200	U
84-66-2	Diethylphthalate	2200	U
7005-72-3	4-Chlorophenyl-phenylether	2200	U
86-73-7	Fluorene	2200	U
100-01-6	4-Nitroaniline	5600	U
534-52-1	4,6-Dinitro-2-methylphenol	5600	U
86-30-6	N-Nitrosodiphenylamine (1)	2200	U
101-55-3	4-Bromophenyl-phenylether	2200	U
118-74-1	Hexachlorobenzene	2200	U
87-86-5	Pentachlorophenol	5600	U
85-01-8	Phenanthrene	3000	
120-12-7	Anthracene	250	J
86-74-8	Carbazole	2200	U
84-74-2	Di-n-butylphthalate	2200 ~~950~~	~~BJ~~ U
206-44-0	Fluoranthene	630	J
129-00-0	Pyrene	1200	J
85-68-7	Butylbenzylphthalate	5000	
91-94-1	3,3'-Dichlorobenzidine	2200	U
56-55-3	Benzo(a)anthracene	2200	U
218-01-9	Chrysene	2200	U
117-81-7	bis(2-Ethylhexyl)phthalate	19000* ~~21000~~	~~E~~
117-84-0	Di-n-octylphthalate	1600	J
205-99-2	Benzo(b)fluoranthene	240	J
207-08-9	Benzo(k)fluoranthene	160	J
50-32-8	Benzo(a)pyrene	2200	U
193-39-5	Indeno(1,2,3-cd)pyrene	2200	U
53-70-3	Dibenz(a,h)anthracene	2200	U
191-24-2	Benzo(g,h,i)perylene	2200	U

(1) - Cannot be separated from Diphenylamine

* Result from BMM54DL.

001990 217

EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

BMM33

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.01

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

% Moisture: 5 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	~~8.8~~	~~P~~ R
319-85-7	beta-BHC	~~2.1~~	~~P~~ R
319-86-8	delta-BHC	1.8	U J
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	14	~~P~~ J
72-55-9	4,4'-DDE	31	~~P~~ J
72-20-8	Endrin	~~39~~	~~P~~ R
33213-65-9	Endosulfan II	3.5	U J
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	16	
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

002000 218

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM34

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.04

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

% Moisture: 8 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/01/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	28	~~P~~
72-55-9	4,4'-DDE	24	~~P~~
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	33	~~P~~
50-29-3	4,4'-DDT	~~16~~	~~P~~
72-43-5	Methoxychlor	25	~~P~~
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	20	~~P~~
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	~~9.8~~	~~P~~
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	73	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	1000	~~P~~
11096-82-5	Aroclor-1260	36	U

002018 219

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM35

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.05

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

% Moisture: 10 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
319-84-6	alpha-BHC	1.8	J	J
319-85-7	beta-BHC	1.9	U	
319-86-8	delta-BHC	1.9	U	
58-89-9	gamma-BHC (Lindane)	1.9	U	
76-44-8	Heptachlor	1.9	U	
309-00-2	Aldrin	1.9	U	
1024-57-3	Heptachlor epoxide	2.5	~~P~~	NJ
959-98-8	Endosulfan I	1.9	U	
60-57-1	Dieldrin	~~5.4~~	~~P~~	R
72-55-9	4,4'-DDE	6.6	~~P~~	NJ
72-20-8	Endrin	3.7	U	
33213-65-9	Endosulfan II	3.7	U	
72-54-8	4,4'-DDD	3.7	U	
1031-07-8	Endosulfan sulfate	~~3.8~~	~~P~~	R
50-29-3	4,4'-DDT	3.7	U	
72-43-5	Methoxychlor	19	U	
53494-70-5	Endrin ketone	3.7	U	
7421-93-4	Endrin aldehyde	4.1	~~P~~	UJ
5103-71-9	alpha-Chlordane	1.9	U	
5103-74-2	gamma-Chlordane	9.8		
8001-35-2	Toxaphene	190	U	
12674-11-2	Aroclor-1016	37	U	
11104-28-2	Aroclor-1221	74	U	
11141-16-5	Aroclor-1232	37	U	
53469-21-9	Aroclor-1242	37	U	
12672-29-6	Aroclor-1248	37	U	
11097-69-1	Aroclor-1254	320		
11096-82-5	Aroclor-1260	37	U	

002027 220

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM36

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.06

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

% Moisture: 2 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/25/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U J
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.6	
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	4.7	
50-29-3	4,4'-DDT	5.6	~~P~~ NJ
72-43-5	Methoxychlor	17	U J
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	68	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	83	
11096-82-5	Aroclor-1260	34	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM37

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.04D2

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

% Moisture: 5 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.1	~~P~~ NJ
319-85-7	beta-BHC	3.6 ~~2.8~~	~~JP~~
319-86-8	delta-BHC	3.6	U
58-89-9	gamma-BHC (Lindane)	3.6	U
76-44-8	Heptachlor	3.6	U
309-00-2	Aldrin	3.6 ~~1.8~~	~~JP~~ UJ
1024-57-3	Heptachlor epoxide	~~45~~	~~P~~
959-98-8	Endosulfan I	~~24~~	~~P~~
60-57-1	Dieldrin	~~16~~	~~P~~
72-55-9	4,4'-DDE	6.9	U
72-20-8	Endrin	6.9	U
33213-65-9	Endosulfan II	~~30~~	~~P~~
72-54-8	4,4'-DDD	~~43~~	~~P~~
1031-07-8	Endosulfan sulfate	44	P
50-29-3	4,4'-DDT	6.9	U
72-43-5	Methoxychlor	36 ~~18~~	~~JP~~ UJ
53494-70-5	Endrin ketone	41	P
7421-93-4	Endrin aldehyde	700NJ * ~~620~~	~~P~~
5103-71-9	alpha-Chlordane	3.6	U
5103-74-2	gamma-Chlordane	140NJ * ~~98~~	~~P~~
8001-35-2	Toxaphene	360	U
12674-11-2	Aroclor-1016	69	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	69	U
53469-21-9	Aroclor-1242	69	U
12672-29-6	Aroclor-1248	69	U
11097-69-1	Aroclor-1254	69	U
11096-82-5	Aroclor-1260	69	U

*Result from BMM37DL

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM38

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.12

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

% Moisture: 17 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
319-84-6	alpha-BHC	2.0	U	J
319-85-7	beta-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
76-44-8	Heptachlor	2.0	U	
309-00-2	Aldrin	2.0	U	
1024-57-3	Heptachlor epoxide	2.0	U	
959-98-8	Endosulfan I	2.0	U	
60-57-1	Dieldrin	19	~~P~~	NJ
72-55-9	4,4'-DDE	18	~~P~~	J
72-20-8	Endrin	4.0	U	
33213-65-9	Endosulfan II	4.0	U	
72-54-8	4,4'-DDD	4.0	U	
1031-07-8	Endosulfan sulfate	14	~~P~~	J
50-29-3	4,4'-DDT	~~16~~	~~P~~	R
72-43-5	Methoxychlor	20	U	J
53494-70-5	Endrin ketone	4.0	U	J
7421-93-4	Endrin aldehyde	14	~~P~~	NJ
5103-71-9	alpha-Chlordane	6.8	~~P~~	NJ
5103-74-2	gamma-Chlordane	~~18~~	~~P~~	R
8001-35-2	Toxaphene	200	U	J
12674-11-2	Aroclor-1016	40	U	
11104-28-2	Aroclor-1221	81	U	
11141-16-5	Aroclor-1232	40	U	
53469-21-9	Aroclor-1242	40	U	
12672-29-6	Aroclor-1248	40	U	
11097-69-1	Aroclor-1254	940		
11096-82-5	Aroclor-1260	40	U	

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM39

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.13D10

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

% Moisture: 20 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/18/98

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	~~21~~	~~U~~
319-85-7	beta-BHC	~~21~~	~~U~~
319-86-8	delta-BHC	~~21~~	~~U~~
58-89-9	gamma-BHC (Lindane)	~~21~~	~~U~~
76-44-8	Heptachlor	~~21~~	~~U~~
309-00-2	Aldrin	~~21~~	~~U~~
1024-57-3	Heptachlor epoxide	~~21~~	~~U~~
959-98-8	Endosulfan I	~~21~~	~~U~~
60-57-1	Dieldrin	270	~~P~~ NJ
72-55-9	4,4'-DDE	250	~~P~~ NJ
72-20-8	Endrin	~~41~~	~~U~~
33213-65-9	Endosulfan II	~~41~~	~~U~~
72-54-8	4,4'-DDD	~~41~~	~~U~~
1031-07-8	Endosulfan sulfate	390	~~P~~ NJ
50-29-3	4,4'-DDT	~~198~~	~~P~~
72-43-5	Methoxychlor	260	~~P~~
53494-70-5	Endrin ketone	~~41~~	~~U~~
7421-93-4	Endrin aldehyde	300	~~P~~ NJ
5103-71-9	alpha-Chlordane	~~21~~	~~U~~
5103-74-2	gamma-Chlordane	~~21~~	~~U~~
8001-35-2	Toxaphene	~~2100~~	~~U~~
12674-11-2	Aroclor-1016	~~410~~	~~U~~
11104-28-2	Aroclor-1221	840	~~P~~
11141-16-5	Aroclor-1232	410	~~U~~
53469-21-9	Aroclor-1242	~~41~~	~~U~~
12672-29-6	Aroclor-1248	~~410~~	~~U~~
11097-69-1	Aroclor-1254	10000	~~P~~
11096-82-5	Aroclor-1260	~~410~~	~~U~~

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EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

BMM40

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.06

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

% Moisture: 30 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	15	P
72-55-9	4,4'-DDE	~~35~~	P
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	4.7	U
1031-07-8	Endosulfan sulfate	26	
50-29-3	4,4'-DDT	~~8.9~~	P
72-43-5	Methoxychlor	~~91~~	P
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	14	P
5103-71-9	alpha-Chlordane	6.0	P
5103-74-2	gamma-Chlordane	31	P
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	530	P
11096-82-5	Aroclor-1260	47	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM41

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.07

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

% Moisture: 36 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	~~P~~ NJ
319-85-7	beta-BHC	3.3	~~P~~ NJ
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor epoxide	2.6	U
959-98-8	Endosulfan I	~~4.0~~	~~P~~ R
60-57-1	Dieldrin	16	~~P~~ J
72-55-9	4,4'-DDE	24	
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	17	~~P~~ J
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	68	~~P~~ NJ
53494-70-5	Endrin ketone	7.9	
7421-93-4	Endrin aldehyde	18	~~P~~ NJ
5103-71-9	alpha-Chlordane	7.9	~~P~~
5103-74-2	gamma-Chlordane	9.4	~~P~~
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	52	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	540	
11096-82-5	Aroclor-1260	52	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM42

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.08

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

% Moisture: 29 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
319-84-6	alpha-BHC	2.4	U	J
319-85-7	beta-BHC	4.0		
319-86-8	delta-BHC	2.4	U	
58-89-9	gamma-BHC (Lindane)	2.4	U	
76-44-8	Heptachlor	2.4	U	
309-00-2	Aldrin	2.4	U	
1024-57-3	Heptachlor epoxide	2.4	U	
959-98-8	Endosulfan I	~~5.7~~	~~P~~	R
60-57-1	Dieldrin	15	~~P~~	J
72-55-9	4,4'-DDE	29	~~P~~	J
72-20-8	Endrin	4.6	U	J
33213-65-9	Endosulfan II	14	~~P~~	J
72-54-8	4,4'-DDD	15	~~P~~	NJ
1031-07-8	Endosulfan sulfate	16		J
50-29-3	4,4'-DDT	4.6	U	
72-43-5	Methoxychlor	24	U	
53494-70-5	Endrin ketone	4.6	U	
7421-93-4	Endrin aldehyde	18		
5103-71-9	alpha-Chlordane	6.8	~~P~~	J
5103-74-2	gamma-Chlordane	~~11~~	~~P~~	R
8001-35-2	Toxaphene	240	U	J
12674-11-2	Aroclor-1016	46	U	
11104-28-2	Aroclor-1221	94	U	
11141-16-5	Aroclor-1232	46	U	
53469-21-9	Aroclor-1242	46	U	
12672-29-6	Aroclor-1248	46	U	
11097-69-1	Aroclor-1254	440	~~P~~	J
11096-82-5	Aroclor-1260	46	U	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM43

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.03

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

% Moisture: 3 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/25/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	1.9	JP
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	3.4	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	69	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	34	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM44

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.05

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

% Moisture: 5 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.8	
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	140	U
11096-82-5	Aroclor-1260	~~35~~	~~U~~

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM48

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.02

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

% Moisture: 4 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/25/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	3.4	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	34	U
11096-82-5	Aroclor-1260	34	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM49

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.01

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

% Moisture: 4 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	Endrin	3.4	U
33213-65-9	Endosulfan II	3.4	U
72-54-8	4,4'-DDD	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	3.4	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	70	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	37	
11096-82-5	Aroclor-1260	34	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM50

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.07

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

% Moisture: 6 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	71	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	86	
11096-82-5	Aroclor-1260	55	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM51

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.09

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

% Moisture: 7 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	2.4	~~P~~
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	7.8	~~P~~
60-57-1	Dieldrin	17	~~P~~
72-55-9	4,4'-DDE	18	~~P~~
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	~~4.2~~	~~P~~
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	23	~~P~~
50-29-3	4,4'-DDT	50	
72-43-5	Methoxychlor	~~10~~	~~P~~
53494-70-5	Endrin ketone	3.5	U
7421-93-4	Endrin aldehyde	60	
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	~~2.4~~	~~P~~
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	72	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM52

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27260.10

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

% Moisture: 10 decanted: (Y/N) N Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/25/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
319-84-6	alpha-BHC	1.9	U	J
319-85-7	beta-BHC	1.9	U	
319-86-8	delta-BHC	1.9	U	
58-89-9	gamma-BHC (Lindane)	1.9	U	
76-44-8	Heptachlor	1.9	U	
309-00-2	Aldrin	1.9	U	
1024-57-3	Heptachlor epoxide	1.9	U	
959-98-8	Endosulfan I	1.9	U	
60-57-1	Dieldrin	3.7	U	
72-55-9	4,4'-DDE	31	~~P~~	NJ
72-20-8	Endrin	3.7	U	J
33213-65-9	Endosulfan II	3.7	U	
72-54-8	4,4'-DDD	3.7	U	
1031-07-8	Endosulfan sulfate	3.7	U	
50-29-3	4,4'-DDT	38	~~P~~	NJ
72-43-5	Methoxychlor	19	U	J
53494-70-5	Endrin ketone	3.7	U	
7421-93-4	Endrin aldehyde	3.7	U	
5103-71-9	alpha-Chlordane	1.9	U	
5103-74-2	gamma-Chlordane	1.9	U	
8001-35-2	Toxaphene	190	U	
12674-11-2	Aroclor-1016	37	U	
11104-28-2	Aroclor-1221	74	U	
11141-16-5	Aroclor-1232	37	U	
53469-21-9	Aroclor-1242	37	U	
12672-29-6	Aroclor-1248	37	U	
11097-69-1	Aroclor-1254	37	U	
11096-82-5	Aroclor-1260	37	U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM54

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM33

Matrix: (soil/water) SOIL Lab Sample ID: 27247.09

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

% Moisture: 26 decanted: (Y/N) N Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/10/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/12/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.8	~~P~~ J
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	~~6.6~~	~~P~~ R
60-57-1	Dieldrin	17	~~P~~ J
72-55-9	4,4'-DDE	30	
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	14	~~P~~ J
72-54-8	4,4'-DDD	15	~~P~~ NJ
1031-07-8	Endosulfan sulfate	18	~~P~~ NJ
50-29-3	4,4'-DDT	~~4.3~~	~~P~~ R
72-43-5	Methoxychlor	~~28~~	~~P~~ R
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	17	J
5103-71-9	alpha-Chlordane	8.2	~~P~~ NJ
5103-74-2	gamma-Chlordane	~~13~~	~~P~~ R
8001-35-2	Toxaphene	230	U J
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	90	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	500	~~P~~ NJ
11096-82-5	Aroclor-1260	44	U J

AATS

SDG NARRATIVE

Laboratory Name: AATSLA, Baton Rouge

Case No: **26114**
SDG No: BMM56
Contract: **68-D5-0023**

Eighteen (18) water samples were received 08 and 09 April 1998 for Full Target Compound List organic analysis utilizing USEPA's CLP SOW OLM03.2 protocol. The samples are listed below in Table 1:

TABLE 1

EPA Sample No:	**EPA Sample No.:**
BMM56	BMM66
BMM57	BMM67
BMM58	BMM68
BMM59	BMM69
BMM60	BMM70
BMM61	BMM71
BMM61MS	BMM72
BMM61MSD	BMM73
BMM62	
BMM63	
BMM64	
BMM65	

The pH of the volatile fraction of samples BMM70 and BMM73 (Field QC) was recorded as >2 just prior to analysis.

Volatile Organic Analysis:

No problems were noted.

A 75 m x 0.53 mm ID with a 3 µm film DB-624 J&W capillary column was utilized. Also a 30.5 cm Supelco Purge Trap F consisting of 1 cm 3% SP-2100, 15 cm Tenax TA, and 7.7 cm Silica gel 15 was used.

All manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Semivolatile Organic Analysis:

No problems were noted.

Alkanes detected as a result of the library search routine are listed below:

BMM56

Unknown alkane	2 µg/L
Unknown alkane	4 ug/L
Unknown alkane	2 µg/L
Unknown alkane	2 µg/L

BMM57

Unknown alkane	2 µg/L

A 30m x 0.25 mm ID with a 0.25 µm film XTI-5 Restek capillary column was utilized.

Manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Pesticide Organic Analysis:

No significant problems were noted.

Columns used for Pesticide/PCB analysis were:

a. RTX-35, 0.53 mm ID, 30 m length
Restek Crossbonded® 65% dimethyl - 35% diphenyl polysiloxane, 1.5 micron thickness

b. DB-1701P, 0.53 mm ID, 30 m length
Restek Crossbonded® 14% cyanopropylphenyl - 86% methyl polysiloxane, 1.5 micron thickness

Where manual integrations were performed, the modifications were dated and initialed.

"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 diskette has been authorized by the laboratory manager or his designee, as verified by the following signature."

J.R. Troost, GC/MS Manager
19 May 1998
JT:jt

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: American Analytical & Technical Services, Inc. Contract No.: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: -

Full Sample Analysis Price ___

SDG No./First Sample in SDG: BMM56 Sample Receipt Date: 04/08/98
(Lowest EPA Sample Number in first shipment of samples received under SDG) (MM/DD/YY)

Last Sample in SDG: BMM73 Sample Receipt Date: 04/09/98
(Highest EPA Sample Number in last shipment of samples received under SDG) (MM/DD/YY)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1.	BMM56	11.	BMM66
2.	BMM57	12.	BMM67
3.	BMM58	13.	BMM68
4.	BMM59	14.	BMM69
5.	BMM60	15.	BMM70
6.	BMM61	16.	BMM71
7.	BMM62	17.	BMM72
8.	BMM63	18.	BMM73
9.	BMM64	19.	
10.	BMM65	20.	

NOTE: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order
(i.e., the order listed on this form).

Nancy LeBlanc
Sample Custodian

April 22, 1998
Date

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 238

BMM70 FB

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724614

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 106A11

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: not dec. Date Analyzed: 04/16/98

GC Column: CAP 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	10	U
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	2	J
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 J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	3	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	3	J
108-88-3	Toluene	10	U J
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

000017 239

EPA SAMPLE NO.

BMM70

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724614

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 106A11

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: not dec. Date Analyzed: 04/16/98

GC Column: CAP 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.

BMM73 FB

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726105

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 107A06

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: not dec. Date Analyzed: 04/17/98

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 5.0

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	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	50	U
67-64-1	Acetone	680	B J
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	50	U J
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	50	U J
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	50	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BMM73

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726105

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 107A06

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: not dec. Date Analyzed: 04/17/98

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 5.0

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

000083 242

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM56

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724601

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D09

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

MAY 19 98

GPC Cleanup: (Y/N) N pH:

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	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
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.

BMM56

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724601

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D09

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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

CAS NO.	COMPOUND	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	17	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	6	J
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	Dibenz(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.

BMM56

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724601

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D09

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH: MAY 19 1998 ml

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.

BMM57

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D10

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH: MAY 19 1998

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
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

000094 246

EPA SAMPLE NO.

BMM57

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D10

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1.000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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 ~~2~~	~~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	3	J
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	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

000095247

EPA SAMPLE NO.

BMM57

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724602

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D10

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0 ve

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0

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

MAY 19 1998

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000101 248

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D11

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0 ml

MAY 19 1998

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
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.

BMM58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D11

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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-octylpnthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U J
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

(1) - Cannot be separated from Diphenylamine

000103 250

EPA SAMPLE NO.

BMM58

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724603

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D11

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

MAY 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000106 251

EPA SAMPLE NO.

BMM59

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724604

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D12

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0 nl

GPC Cleanup: (Y/N) N pH:

Q MAY 19 1998

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

000107 252

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM59

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724604

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D12

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	UJ
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

(1) - Cannot be separated from Diphenylamine

000108253

EPA SAMPLE NO.

BMM59

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724604

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D12

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

MAY 19 1998

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	Cyclotetrasiloxane, octameth	6.10	~~5~~	~~JN~~ R

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM60

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724605

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D14

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

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	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
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.

BMM60

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724605

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D14

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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 J
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

(1) - Cannot be separated from Diphenylamine

000115 256

EPA SAMPLE NO.

BMM60

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724605

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D14

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

MAY 19 1998

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000118 257

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724606

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D15

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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
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

000119 258

EPA SAMPLE NO.

BMM61

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724606

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D15

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0 ~~2.0~~

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	Dibenz(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.: BMM61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724606

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D15

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000123260

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM62

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726101

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D21

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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
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

000124 261

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM62

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726101

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D21

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
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 J
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 J
205-99-2	Benzo(b)fluoranthene	10	U J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U J
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

(1) - Cannot be separated from Diphenylamine

000125 262

EPA SAMPLE NO.

BMM62

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726101

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D21

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/30/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	15.034	15	J
2.	Unknown	22.08	6	J

000130263

EPA SAMPLE NO.

BMM63

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724609

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D18

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19

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
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

000131 264

EPA SAMPLE NO.

BMM63

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724609

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D18

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	UJ
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

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BMM63

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724609

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D18

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

MAY 19 1998

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000135 266

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM64

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724610

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D19

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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
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

000136 267
EPA SAMPLE NO.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BMM64

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724610

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D19

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	1	J
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	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

000137268

EPA SAMPLE NO.

BMM64

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724610

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D19

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	15.02	23	J
2.	Unknown	20.7~~7~~10	5	J
3.	Unknown	20.82	3	J
4.	Unknown	22.~~2~~009	24	J
5.	Unknown	22.17	2	J

000146 269

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM65

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724611

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D20

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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
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

000147 270

EPA SAMPLE NO.

BMM65

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724611

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D20

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

000148 271

EPA SAMPLE NO.

BMM65

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.. 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724611

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D20

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 3

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

MAY 19 98

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2008-58-4	Benzamide, 2,6-dichloro-	11.20	4	JN
2. 538-24-9	Dodecanoic acid, 1,2,3-propa	19.889	10	JN
3.	Unknown	20.05	5	J

000154272

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM66

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726103

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D23

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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
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

000155 273

EPA SAMPLE NO.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BMM66

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726103

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D23

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
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 J
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 J
205-99-2	Benzo(b)fluoranthene	10	U J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U J
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

(1) - Cannot be separated from Diphenylamine

000156 274

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BMM66

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726103

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D23

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2008-58-4	Benzamide, 2,6-dichloro-	11.22	4	JN
2.	Unknown	14.18	2	J
3.	Unknown	14.33	2	J
4.	Unknown	15.02	13	J
5.	Unknown	19.77	4	J
6.	Unknown	19.90	6	J
7.	Unknown	20.07	3	J
8.	Unknown	20.77	8	J
9.	Unknown	20.83	5	J
10.	Unknown	22.12	36	J
11.	Unknown	22.18	4	J

000170 275

EPA SAMPLE NO.

BMM67

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724612

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D21

Level: (low/med) LOW Date Received: 04/08/98

Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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	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
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

000171 276

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM67

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724612

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D21

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

000172 277
EPA SAMPLE NO.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BMM67

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724612

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D21

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124-07-2	Octanoic Acid	7.60	4	JN
2. 97-78-9	Glycine, N-methyl-N-(1-oxodo	10.27	7	JN
3. 57-10-3	Hexadecanoic acid	12.95	2	JN
4. 112-80-1	Oleic Acid	14.07	4	JN
5.	Unknown	15.10	56	J
6.	Unknown	17.45	3	J
7.	Unknown	19.77	2	J
8.	Unknown	20.77	7	J
9.	Unknown	20.82	4	J
10.	Unknown	22.08	33	J
11.	Unknown	22.17	3	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM68

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724613

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D22

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 1 ? 19

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
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

000187 279

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM68

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724613

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D22

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

000188 280
EPA SAMPLE NO.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BMM68

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724613

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D22

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2008-58-4	Benzamide, 2,6-dichloro-	11.20	3	JN
2. 112-80-1	Oleic Acid	14.05	2	JN
3.	Unknown	14.97	3	J
4. 538-24-9	Dodecanoic acid, 1,2,3-propa	19.88	14	JN
5.	Unknown	20.03	6	J
6.	Unknown	20.65	15	J
7.	Unknown	22.07	9	J

000198 281

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM69

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D22

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 1 9 1998

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
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

000199 282

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM69

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D22

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
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 J
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 J
205-99-2	Benzo(b)fluoranthene	10	U J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U J
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

(1) - Cannot be separated from Diphenylamine

000200 283

EPA SAMPLE NO.

BMM69

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D22

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

MAY 19 1998

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 105-60-2	Caprolactam	8.22	6	JN
2.	Unknown	15.024	21	J
3.	Unknown	15.089	20	J
4.	Unknown	19.889	2	J
5.	Unknown	20.77	3	J
6.	Unknown	20.82	2	J
7.	Unknown	22.1609	14	J

000210 284

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM70

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724614

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D23

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

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	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
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

000211 285

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM70

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724614

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D23

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	Dibenz(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.

BMM70

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724614

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D23

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	17.45	4	J
2.	Unknown	19.87	4	J

000217 287

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM71

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724615

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D24

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19

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
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.

BMM71

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724615

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D24

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	2	J
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	Dibenz(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.

BMM71

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2724615

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 121D24

Level: (low/med) LOW Date Received: 04/08/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0

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

MAY 19 1998

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000223 290

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM72

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726104

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D24

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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
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

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EPA SAMPLE NO.

BMM72

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726104

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D24

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

000225 292

EPA SAMPLE NO.

BMM72

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726104

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D24

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: NA ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	19.90	8	J
2.	Unknown	20.08	4	J
3.	Unknown	20.70	13	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM73

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726105

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D25

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	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
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

000232 294

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM73

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726105

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D25

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	UJ
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	UJ
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	UJ
205-99-2	Benzo(b)fluoranthene	10	UJ
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	UJ
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

(1) - Cannot be separated from Diphenylamine

EPA SAMPLE NO.

BMM73

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 2726105

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 120D25

Level: (low/med) LOW Date Received: 04/09/98

% Moisture: decanted: (Y/N) Date Extracted: 04/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/01/98

Injection Volume: 2.0(uL) Dilution Factor: ~~2.0~~ 1.0

GPC Cleanup: (Y/N) N pH:

MAY 19 1998

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM56

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.01

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM57

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.02

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.03

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM59

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.04

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000366 300

EPA SAMPLE NO.

BMM60

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.05

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.06

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000382 302

EPA SAMPLE NO.

BMM62

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27261.01

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/27/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000392303

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM63

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.09

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000404 304

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM64

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.10

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000412305

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM65

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.11

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM66

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27261.03

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/27/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000429 307

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM67

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.12

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM68

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.13

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000445 309

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM69

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27261.02

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/27/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000454310

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM70

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.14

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

000464 311

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM71

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27246.15

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/08/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM72

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27261.04

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BMM73

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 26114 SAS No.: SDG No.: BMM56

Matrix: (soil/water) WATER Lab Sample ID: 27261.05

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

% Moisture: _____ decanted: (Y/N) __ Date Received: 04/09/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/11/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/28/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

RECORD OF COMMUNICATION

TO: YUNRU YANG

FROM: *JANET TROTTER*
Region II ESAT/RSCC

DATE: 6/17/98

SUBJECT: QUALITY ASSURED DATA

MESSAGE

PLEASE SIGN BELOW IN ACKNOWLEDGEMENT OF RECEIPT OF THE FOLLOWING AND RETURN ONE COPY OF THIS RECORD OF COMMUNICATION TO THE RSCC-REGION II.

① Spectrum Finishing Corp 26114 PDP Org LowConVoa 18W

REPLY BY:

SIGNATURE: [signature] DATE: 6/23/98

DATE RECEIVED BY RSCC: / /

cc: EPA TASK MONITOR
ESAT, MANAGER
file

315

RECORD OF COMMUNICATION

REGIONAL SAMPLE CONTROL CENTER

RECEIVED
JUN 16 1998

DATE: MAY 2, 1998
SUBJECT: CLP Data Package for Quality Assurance Review
FROM: RSCC / ESAT
TO: George Karras, Hazardous Waste Support Section

Attached is the following ORGANIC Data Package to be reviewed for Quality Assurance

SITE SPECTRUM FINISHING CORP.
CASE# 26114
CONTRACTOR AWES
#SAMPLES 18
MATRIX WATER
PHASE SSI
LAB PDP
FRACTION LOW CONC. VOA ONLY
TURN-AROUND-TIME ; 14 DAYS

REGION II RSCC DATA TRANSFER LOG

Relinquished By Signature	Date/Time	Received By Signature	Date/Time
		John Bulich	4/23/98
John Bulich	5/2/98	Judy Snyder ESAT Reg 3	5-26-98
Judy Snyder	6/1/98 0730	Kenneth W. [illegible] ESAT Reg 3	6/2/98 0730
M. Region III	6/4/98	Maybelle Puckace	6/16/98
Maybelle Puckace	6/16/98	J. Trotter	6/16/98
J. Trotter DCR	6/16/98	G. Karras	6/16/98
G. Karras	6/16/98		

(over for instructions) revised 10/97

CLP DATA ASSESSMENT

Functional Guidelines for Evaluating Organic Analysis

CASE No.:26114 SDG No.: BMM56
LABORATORY: PDP
SITE: Spectrum Fishing Corporation
Low Concentration VOA only.

DATA ASSESSMENT

The current SOP HW-13 (Revision 2) October 1996, USEPA Region II Data Validation SOP for Statement of Work OLCO 2.1. for evaluating organic data have been applied.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N"(presumptive evidence for the presence of the material, "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's
Signature: K. W. Curry/ M. Mecanic Date: 6/8/98

Verified By: P. Karras Date: 6/16/98

CLP DATA ASSESSMENT

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems.

3. LABORATORY CONTROL SPIKE, LCS:

The LCS data is generated to determine the long term precision and accuracy of the analytical method in various matrices. The LCS may be used in conjunction with other QC criteria for additional qualification of data.

No problems.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have

CLP DATA ASSESSMENT

been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

No contamination in associated method blanks.

B) Field or rinse blank contamination:
Acetone was detected at a concentration exceeding CRQL (9 µg/L) in the field blank collected 4/8/98 (BMM72). Methylene chloride was detected below CRQL (0.6J µg/L) in the field blank collected 4/7/98(BMM71). No data were qualified based on field blank contamination, because concentrations of contaminants were greater in the trip blanks as discussed below.

C) Trip blank contamination:
Acetone was detected at concentration of ten (10) µg/L in the trip blank collected 4/8/98 (BMM75). Acetone in samples BMM62 and BMM69 had concentrations > 10X the blank concentration and were qualified "U" based on this contamination. Methylene chloride was detected below CRQL (1J µg/L) in the trip blank collected 4/7/98(BMM74). This contamination did not impact the associated samples.

D) Storage Blank

No contamination in storage blank.

E) Tics "R" rejected

One (1) TIC at retention time 13.62 was rejected in samples BMM62 and BMM69 in the field blank collected same day as the samples.

CLP DATA ASSESSMENT

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenylphosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

Initial Calibration:
Compounds acetone, 2-butanone and 2-hexanone had initial

CLP DATA ASSESSMENT

calibration RRFs <0.05. All samples, blanks and quality control analyses were affected by this deficiency. Therefore, the following samples were "R" qualified for non-detects: VBLK92, VLCS92, BMM59, BMM60, BMM61, BMM63, BMM64, BMM65, BMM68, BMM71, BMM74, VBLK93, VLCS93, BMM56, BMM57, BMM58, BMM62, BMM67, BMM67DL, BMM69, BMM72, BMM75, VBLK95, VLCS95, BMM62DL2*, BMM63DL*, BMM67DL2*, BMM69DL2*, VIBLK02, VBLK96, VLCS96, BMM62DL*, VIBLK03, BMM66DL*, BMM69DL*, VIBLK04, BMM66, VHBLK01. The following samples had positive acetone values and were "J" qualified: BMM60, BMM62, BMM69, BMM72 and BMM75.*

**Samples were marked "DO NOT USE".*

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

For the PEST/PCB fraction, if %RSD exceeds 20% for all analytes except for the two surrogates (which must not exceed 30% RSD), qualify all associated positive results "J" and non-detects "UJ".

The following analytes in the sample shown were qualified for %RSD and %D:

No Problems.

CLP DATA ASSESSMENT

8. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than ±30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgement to determine either partial or total rejection of the data for that sample fraction.

No problems.

9. COMPOUND IDENTIFICATION:

A) Volatile and Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems.

CLP DATA ASSESSMENT

10. CONTRACT PROBLEMS NON-COMPLIANCE:

11. FIELD DOCUMENTATION:

12. OTHER PROBLEMS

13. This package contains one (1) or two (2) dilutions for samples listed below because one (1) or more compounds exceeded the calibration range. Therefore, the values for these compounds were transferred from dilutions to the original analysis Form Is and the Form Is for diluted samples were marked "Do Not Use". The following samples were marked "DO NOT USE": *BMM62DL BMM62DL2, BMM63DL, BMM66DL, BMM67DL, BMM67DL2.*

		Results Reported From	
Sample	*Compound*	*1st Dilution*	*2nd Dilution*
BMM62	*cis-1,2-dichloroethene*	*BMM62DL*	---
	Trichloroethene	*BMM62DL*	---
	Tetrachloroethene	---	*BMM62DL2*
BMM63	*cis-1,2-dichloroethene*	*BMM63DL*	*NA*
	Tetrachloroethene	*BMM63DL*	*NA*
BMM66	*cis-1,2-dichloroethene*	*BMM66DL*	*NA*
BMM67	*cis-1,2-dichloroethene*	---	*BMM67DL2*
	Trichloroethene	*BMM67DL*	---
	Tetrachloroethene	*BMM67DL*	---
BMM69	*cis-1,2-dichloroethene*	*BMM69DL*	---
	Trichloroethene	*BMM69DL*	---
	Tetrachloroethene	---	*BMM69DL2*

TPO: [ ]ACTION [X]FYI REGION II

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO.: 26114
SDG NO.: BMM56
SOW: OLC02.1
NO. OF SAMPLES: 18 WATER

LABORATORY: PDP Analytical Corp.
DATA USER: EPA Region II
REVIEW COMPLETION DATE: 6/8/98

REVIEWER: [ ] ED [ ] ESAT [ ] OTHER, CONTRACTOR _____

QC ITEM	VOA	BNA	PEST		
HOLDING TIMES	O				
GC-MS PERFORMANCE	O				
INITIAL CALIBRATIONS	M				
CONTINUING CALIBRATIONS	M				
FIELD BLANKS(F = N/A)	X				
LABORATORY BLANKS	O				
SURROGATES	O				
LAB CONTROL SAMPLE (LCS)	O				
QC SAMPLES (LES)	O				
INTERNAL STANDARDS	O				
COMPOUND IDENTIFICATION	O				
COMPOUND QUANTITATION	O				
SYSTEM PERFORMANCE	O				
OVERALL ASSESSMENT	M				

O = No problems or minor problems that do not affect data usability.
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as either estimated or unusable.
Z = More than about 5% of the data points are qualified as unusable.

TPO ACTION ITEMS: NONE

AREAS OF CONCERN: NONE

DATA REJECTION SUMMARY

Type of Review: Organic Date: 6/2/98 Case No.: 26114

Site Name: Spectrum Fishing Corp. Lab Name: PDP Analytical Corp.

Reviewer's Initials: KWC

Number of Samples: 18

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	LCS	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples			
VOA(41)	0	0	49	0	0	0	0	0	18	49	738	7	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	LCS	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples			
VOA(41)	0	0	5	0	0	0	0	0	18	5	738	1	%

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

STANDARD OPERATING PROCEDURE

USEPA Region II
Method: CLP/SOW, OLC02.1

Date: October, 1996
SOP HW-13, Revision 2

YES NO N/A

PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBER: 26114 LAB: PDP Analytical Corporation

SITE NAME: Spectrum Fishing Corp. SDG No(s).: BMM56

1.0 Chain of Custody and Sampling Trip Reports

1.1 Are the Traffic Reports/Chain-of-Custody Records present for all samples? [X] ___ ___

ACTION: If no contact RSCC, or the WAM to obtain replacement of missing or illegible copies from the lab.

1.2 Is the Sampling Trip Report present for all samples and all fractions? [X] ___ ___

ACTION: If no, contact either RSCC or ask the WAM to obtain the necessary information from the prime contractor.

2.0 Data Completeness and Deliverables

2.1 Have any missing deliverables been received and added to the data package? X ___

ACTION: Contact the WAM to obtain an explanation or resubmittal of any missing deliverables from the lab. If lab cannot provide them, note the effect on the review of the data package in the Contract Problems/Non-compliance section of the Data Assessment and the Organic Regional Data Assessment Summary form.

2.2 Was CLASS CCS checklist included with the package? [X] ___ ___

2.3 Are there any discrepancies between the Traffic Reports/Chain-of-Custody Records, Sampling Trip Report and Sample Tags? ___ [X] ___

ACTION: If yes, contact the WAM to obtain an explanation or resubmittal of any missing deliverables from the laboratory.

		YES	NO	N/A
3.0 Cover Letter SDG Narrative				
3.1	Is the Narrative or Cover Letter Present?	[X]	___	___
3.2	Are the Case number and SDG number contained in the Narrative or Cover letter?	[X]	___	___
3.3	Does the Narrative contain the following information (see SOW, page B-11, section 2.6.1):			
	VOA: description or trap and column(s) used during sample analyses?	[X]	___	___
	BNA: descriptions of column(s) used during sample analyses?	[ ]	___	X
	PEST: description of columns used during sample analyses?	[ ]	___	X

NOTE: As stated in the SOW, page D-11/PEST, section 6.1.1.3.7, packed columns cannot be used.

3.4	Does the narrative, VOA and BNA sections, contain a list of all TICs identified as alkanes and their estimated concentrations?	[ ]	___	X
3.5	Does the narrative contain a record of all cooler temperatures? If the temperature of a cooler exceeded 10° C, the lab must list by fraction and sample number, all affected samples.	[X]	___	___
3.6	Does the narrative contain a list of the pH values determined for each water sample submitted for volatiles analysis (SOW, page B-11, section 2.6.1.2)?	[X]	___	___
3.7	Does the Case Narrative contain the "verbatim" statement as required on page B-11, section 2.6.1 of the SOW?	[X]	___	___

ACTION: If "No", to any question in this section, contact the WAM to obtain necessary resubmittals. If the information is unavailable, document under the Contract Problems/Non-Compliance section of the Data Assessment.

	YES	NO	N/A

4.0 Data Validation Checklist

4.1 Check the package for the following (see SOW reporting requirements, section 2.1, page B-7):

a. Is the package paginated in ascending order starting from the SDG narrative?	[X]	___	___
b. Are all forms and copies legible?	[X]	___	___
c. Is each fraction assembled in the order set forth in the SOW?	[X]	___	___
d. Is a Sample Data Summary Package submitted immediately preceding the Sample Data Package?	[X]	___	___

The following checklist is divided into three parts. Part A is filled out if the data package contains any Low Concentration Volatile analyses, Part B for any Low Concentration Semivolatile analyses and Part C for Low Concentration Pesticide/Aroclors.

Does this package contain:

Low Concentration Volatiles Data?	X	___
Low Concentration Semivolatiles Data?	___	X
Low Concentration Pesticides/Aroclors data?	___	X

ACTION: Complete corresponding parts of checklist.

YES NO N/A

PART A: VOA ANALYSES

1.0 Sample Conditions/Problems

1.1 Do the Traffic Reports/Chain-of-Custody Records, Sampling Trip Report or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data? ___ [X] ___

ACTION: If samples were not iced or the ice was melted upon arrival at the laboratory and the temperature of the cooler was > 10° C, then flag all positive results with a "J" and all non-detects "UJ".

ACTION: If both VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".

2.0 Holding Times

2.1 Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded? ___ [X] ___

Technical Holding Times: Unpreserved samples maintained at 4°C, being evaluated for aromatic hydrocarbons, must be analyzed within 7 days of collection. If preserved with HCl (pH < 2) and stored at 4°C, then samples must be analyzed within 14 days of collection. If uncertain about preservation, notify the WAM to contact the sampler and determine whether or not samples were preserved.

ACTION: List sampling, VTSR, analysis dates and preservation for samples which missed holding time in the table below.

YES NO N/A

Table of Holding Time Violations
(See Chain-of-Custody Records)

Sample ID	Was Sample Preserved?	Date Sampled	Date Lab Received	Date Analyzed

ACTION: If technical holding times were exceeded, flag all positive results as estimated (J) and sample quantitation limits as estimated (UJ), and document in the narrative that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all results must be qualified "J", but the reviewer may determine that non-detect data are unusable (R). If holding times are exceeded by more than 28 days, flag all non-detects "R".

NOTE: Contractual Holding Times: Sample must be analyzed within 10 days from validated time of sample receipt (VTSR) at the laboratory.

3.0 System Monitoring Compound (SMC) Recovery (Form II LCV)

3.1 Are the Volatile SMC Recovery Summaries (Form II LCV) present? [X] ___ ___

ACTION: Call the WAM to obtain an explanation/resubmittal from the lab. If missing deliverables are unavailable, document the effect in the Data Assessment.

	YES	NO	N/A
3.2 Were outliers marked correctly with an asterisk?	[ ]	___	X

ACTION: Circle all outliers in red.

3.3 Was the surrogate, p-bromofluorobenzene, recovery outside contract limits of 80 - 120% for any sample or method blank?	___	[X]	___
If yes, were samples re-analyzed?	[ ]	___	X
Were method blanks re-analyzed?	[ ]	___	X

ACTION: If p-bromofluorobenzene recovery was > 10%, but failed to meet SOW specifications:

1. Qualify all positive results estimated (J).
2. Flag all non-detects as estimated detection limits (UJ) where recovery is < 80%.
3. Do not qualify non-detects if surrogate recovery is > 120%.

If p-bromofluorobenzene recovery was < 10%:

1. Flag all positive results estimated (J).
2. Flag all non-detects unusable (R).

Professional judgement should be used to qualify data that only have an associated method blank with the SMC recovery out of specification in both the original and reanalysis. Check internal standard areas.

3.4 Are there any transcription/calculation errors between raw data and Form II?	___	[X]	___

ACTION: If large errors exist, ask the WAM to obtain an explanation/resubmittal from the lab, make any necessary corrections and note errors in the data assessment.

4.0 Laboratory Control Sample (LCS) Recovery (Form III LCV)

4.1 Is the LCS Recovery Form (Form III LCV) present?	[X]	___	___

4.2 Was the LCS analyzed at the required frequency (once per SDG, or every 20 samples, whichever is

	YES	NO	N/A
more frequent) for the Low Concentration VOA method?	[X]	___	___

ACTION: If any LCS data are missing, take action as specified in section 3.1 above.

4.3 How many VOA LCS recoveries are outside the specified QC limits of 60 - 140%?

__0__ out of 12

ACTION: Qualify associated samples for only the specific analytes included in the LCS solution in the following two situations:

1. If the LCS recovery is > 140%, flag positive results for the affected compound(s) estimated (J). Do not flag non-detects.

2. If the LCS recovery is < 60%, but mass spectral criteria were met, flag positive results for the affected compound(s) estimated (J) and non-detect(s) unusable (R).

Qualify all sample results in the following circumstances:

1. If 25% of the LCS recoveries were < 60%, qualify all positive results in the associated samples "J" and all non-detects "R".

2. If two or more LCS recoveries were < 10%, qualify all positive results in the associated samples "J" and all non-detects "R".

NOTE: It should be noted for TPO action (Organic Regional Data Assessment Summary Form) if a laboratory fails to analyze an LCS with each SDG, or if a laboratory consistently fails LCS recovery criteria.

5.0 Method Blanks (Form IV LCV)

	YES	NO	N/A
5.1 Is the Volatile Method Blank Summary (Form IV LCV) present?	[X]	___	___
5.2 Frequency of Analysis: For the analysis of Low Concentration VOA TCL compounds, has a method blank been analyzed for each SDG or every 20 samples, whichever is more frequent?	[X]	___	___

	YES	NO	N/A
5.3 Has a VOA method blank been analyzed at least once every twelve hours for each GC/MS system used?	[X]	___	___
5.4 Was a VOA instrument blank analyzed after each sample/dilution which contained a target compound at a concentration > 25 µg/ℓ (see SOW, page D-52/VOA, section 12.1.1.3)?	[X]	___	___

ACTION: If any method/instrument blank data are missing, notify the WAM to obtain resubmittals or an explanation from the lab. If method blank data are unavailable, reject (R) all associated positive results. However, the reviewer may use professional judgement and substitute field blank or trip blank data for missing method blank data.

If an instrument blank was not analyzed after a sample containing > 25 µg/ℓ, inspect the sample chromatogram acquired immediately after this sample for possible carryover. Use professional judgement to determine if carryover occurred and qualify analyte(s) accordingly.

5.5 Was a storage blank analyzed once per SDG after all the samples were analyzed?	[X]	___	___

ACTION: If storage blank data is missing, contact the WAM to obtain any missing deliverables from the laboratory. If unavailable, note in the Contract Problems/Non-Compliance section of the Data Assessment.

5.6 The validator should verify that the correct identification scheme for EPA blanks was used. (See SOW page B-31, section 3.3.7.3 for more information.)

Was the correct identification scheme used for all Low Concentration VOA blanks?	[X]	___	___

ACTION: Contact the WAM to obtain corrections from the lab, or make the necessary corrections. Document in the "Contract Problems/Non-Compliance section of the Data Assessment all corrections made by the validator.

5.7 Chromatography: review the blank raw data - chromatograms (RICs), quant. reports, data system printouts and spectra.

	YES	NO	N/A
Also compare the storage blank raw data with the method blank. Determine if contamination in the storage blank is also present in the method blank.			
Is the chromatographic performance (baseline stability) for each instrument acceptable for Low Concentration VOAs?	[X]	___	___

ACTION: Use professional judgement to determine the effect on the data.

5.8 Are all detected hits for target compounds in method, instrument and storage blanks less than the CRQL for that analyte?	[X]	___	___

Exception: Acetone and 2-butanone must be less than 5 times the CRQL, and methylene chloride must be less than 2.5 times its CRQL.

ACTION: If no, an explanation and laboratory's corrective actions must be addressed in the case narrative. If the narrative contains no explanation, then make a note in the Contract Problems/Non-Compliance section of the Data Assessment.

6.0 Contamination

NOTE: "Water blanks", "drill blanks", and distilled water blanks" are validated like any other sample, and are not used to qualify data. Do not confuse them with the other QC blanks discussed below.

6.1 Does the storage blank contain positive results (TCL and/or TICs) for Low Concentration VOAs?	[ ]	X	___

ACTION: If the storage blank contains target compounds at a concentration greater than the CRQL, positive sample results for those compounds should be flagged "J". If gross contamination occurred positive sample results for that compound may be rejected (R).

6.2 Do any method/reagent/instrument blanks contain positive results (including TICs) for Low Concentration VOAs? When applied as described in the table below, the contaminant concentration in these blanks are multiplied by the sample dilution factor.	[ ]	X	___

YES NO N/A

NOTE: Contaminated instrument blanks are unacceptable under this SOW (see page D-52/VOA, section 12.1.2.3).

ACTION: Document in the Data Assessment under Contract Problems/Non-Compliance if a contaminated instrument blank was submitted.

ACTION: Sample analysis results after the high concentration sample must be evaluated for carryover. Instrument cross-contamination should be noted for TPO action (Organic Regional Data Assessment Summary Form) if an effect on the data is suspected.

6.3 Do any field/trip/rinse blanks have positive Low Concentration VOA results (including TICs)? _X_ [ ] ___

ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.) See table 1.

NOTE: All field blank results associated with a particular group of samples (may exceed one per case) must be used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped. Blanks may not be qualified because of contamination in another blank. Field blanks & trip blanks must be qualified for system monitoring compound, instrument performance criteria, spectral or calibration QC problems.

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If any blanks are grossly contaminated, all associated sample data should be qualified unusable (R).

For:	Flag sample result with a "U" when:	Report CRQL & qualify "U" when:	No qualification is needed when:
Methylene Chloride Acetone Toluene 2-Butanone	Sample conc. is > CRQL, but < 10x blank value.	Sample conc. is < CRQL and < 10x blank value.	Sample conc. is > CRQL and > 10x blank value.
Other Contaminants	Sample conc. is > CRQL, but < 5x blank value.	Sample conc. is < CRQL and < 5x blank value.	Sample conc. is > CRQL and > 5x blank value.

YES NO N/A

NOTE: Analytes qualified "U" for blank contamination are treated as "hits" when qualifying for calibration criteria.

ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R" (unusable).

6.4 Are there field/rinse/equipment blanks associated with every sample? [X] ___ ___

ACTION: Note in data assessment that there is no associated field/rinse/equipment blank.

Exception: samples taken from a drinking water tap do not have associated field blanks.

7.0 GC/MS Instrument Performance Check (Form V-LCV)

7.1 Are the GC/MS Instrument Performance Check Forms (Form V-LCV) present for Bromofluorobenzene (BFB)? [X] ___ ___

7.2 Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift? [X] ___ ___

7.3 Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument? [X] ___ ___

ACTION: List date, time, instrument ID and sample analyses for which associated GC/MS tuning data are missing.

DATE	TIME	INSTRUMENT ID	SAMPLE NUMBERS

	YES	NO	N/A

ACTION: Notify the WAM to obtain missing data from the lab. If the lab cannot provide missing data, reject (R) all data generated outside an acceptable twelve hour calibration interval.

7.4 Have the ion abundances been normalized to m/z 95 (see SOW, page D-60/VOA)?	[X]	___	___

NOTE: All ion abundance ratios must be normalized to m/z 95, the nominal base peak, even though the ion abundance of m/z 174 may be up to 120% that of m/z 95.

ACTION: If mass assignment is in error, qualify all associated data as unusable (R).

7.5 Have the ion abundance criteria been met for each instrument used?	[X]	___	___

ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).

ACTION: If ion abundance criteria are not met, the Region II TPO must be notified.

7.6 Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values but if errors are found, check more.)	___	[X]	___
7.7 Is the number of significant figures for the reported relative abundances consistent with the number given in the ion abundance criteria column on Form V LCV?	[X]	___	___

ACTION: If large errors exist, take action as specified in section 3.4 above.

7.8 Is the spectrum of the mass calibration compound acceptable?	[X]	___	___

ACTION: Use professional judgement to determine whether associated data should be accepted, qualified, or rejected.

	YES	NO	N/A

8.0 Target Compound List (TCL) Analytes (Form I LCV)

8.1 Are the Organic Analysis Data Sheets (Form I LCV) present with required header information on each page, for each of the following:

a. Samples and/or fractions as appropriate?	[X]	___	___
b. Laboratory Control Samples?	[X]	___	___
c. Blanks?	[X]	___	___

8.2 Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following:

a. Samples and/or fractions as appropriate?	[X]	___	___
b. Laboratory Control Samples?	[X]	___	___
c. Blanks?	[X]	___	___

ACTION: If any data are missing, take action specified in 3.1 above.

8.3 Are the response factors shown in the quant report?	[X]	___	___

8.4 Is chromatographic performance acceptable with respect to:

Baseline stability?	[X]	___	___
Resolution?	[X]	___	___
Peak shape?	[X]	___	___
Full-scale graph (attenuation)?	[X]	___	___
Other: _____?	[ ]	___	X

ACTION: Use professional judgement to determine the acceptability of the data.

8.5 Are lab-generated standard mass spectra of the identified VOA compounds present for each sample?	[X]	___	___

	YES	NO	N/A

ACTION: If any mass spectra are missing, take action as specified in 3.1 above. If lab does not generate their own standard spectra, make note under the "Contract Problems/Non-Compliance" section of the Data Assessment.

8.6 Is the RRT of each reported compound within ±0.06 RRT units of the standard RRT in the continuing calibration?	[X]	___	___
8.7 Are all ions present in the standard mass spectrum at a relative intensity greater than 25% also present in the sample mass spectrum?	[X]	___	___
8.8 Do sample and standard relative ion intensities agree to within ±20%?	[X]	___	___

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected (R) flagged "N" (presumptive evidence of the presence of the compound) or changed to not detected (U) at the calculated detection limit. In order to be positively identified, the data must comply with the criteria listed in the SOW page VOA D-32, section 21.

ACTION: When sample carry-over is suspected, use professional judgement to determine if instrument cross-contamination has affected positive compound identifications.

9.0 Tentatively Identified Compounds (TIC)

9.1 Are all Tentatively Identified Compound Forms (Form I LCV-TIC) present? Do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	[X]	___	___
9.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
a. Samples and/or fractions as appropriate?	[X]	___	___
b. Blanks?	[X]	___	___
b. Alkanes listed for each sample?	[X]	___	___

	YES	NO	N/A

ACTION: If any TIC data are missing, take action specified in 3.1 above.

ACTION: Add "JN" qualifier to all chemically named TICs if missing.

9.3 Are any target compounds (from any fraction) listed as TICs? (Example: 1,2-dimethylbenzene is xylene - a VOA target analyte - and should not be reported as a TIC.)	___	[X]	___

ACTION: Flag with "R" any target compound listed as a TIC.

9.4 Are all ions present in the reference mass spectrum with a relative intensity greater than 25% also present in the sample mass spectrum?	[X]	___	___
9.5 Do TIC and "best match" standard relative ion intensities agree within 20%?	[ ]	___	X

ACTION: Use professional judgement to determine the acceptability of TIC identifications. If it is determined that an incorrect identification was made, change its identification to "unknown" or to some less specific identification (example: "C3 substituted benzene") as appropriate. Also, when a compound is not found in any blank, but is detected in a sample and is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable (R). (I.e., common lab contaminants such as CO_2 - M/E 44, siloxanes - M/E 73, hexane, aldol condensation products, solvent preservatives, and related by-products. See the National Functional Guidelines for further guidance.)

10.0 Compound Quantitation and Reported Detection Limits

10.1 Are there any transcription/calculation errors in Form I results? (Check at least two positive values. Verify that the correct internal standards, quantitation ions, and RRFs were used to calculate Form I results.)	___	[X]	___
10.2 Are the CRQLs adjusted to reflect sample dilutions?	[X]	___	___

ACTION: If errors are large, take action as specified in section 3.4 above.

YES NO N/A

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQLs are used (unless a QC exceedance dictates the use of the higher CRQLs data from the diluted sample). Replace concentrations that exceed the calibration range in the original analysis by crossing out the "E" and its corresponding value on the original Form I and substituting the data from the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form I's not to be used, including any in the data summary package.

11.0 Standards Data (GC/MS)

11.1 Are the reconstructed ion chromatograms, and data system printouts (quant. reports) present for each initial and continuing calibration? [X] ___ ___

ACTION: If any calibration standard data are missing, take action specified in section 3.1 above.

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI LCV) present and complete for the volatile fraction at concentrations of 1, 2, 5, 10, and 25 µg/ℓ? [X] ___ ___

ACTION: If any Initial Calibration forms are missing, take action as specified in section 3.1 above.

12.2 Are response factors stable for VOA's over the concentration range of the calibration (e.g., %RSD ≤ 30.0)? [X] ___ ___

ACTION: Circle all outliers in red.

NOTE: Although 13 Low Conc. VOA compounds have no maximum %RSD and require only minimal RRF performance (see Table D-3, page D-61/VOA), the technical acceptance criteria are the same for all analytes.

ACTION: If %RSD > 30.0%, qualify associated positive results for that analyte "J" (estimated) and non-detects using professional judgement. If %RSD is > 90, flag all non-detects for that analyte "R" (unusable) and positive hits "J".

YES NO N/A

NOTE: Analytes previously qualified "U" for blank contamination are still treated as "hits" when qualifying for initial calibration criteria.

12.3 Are any $\overline{RRFs}$ < 0.05? X [ ] ___

ACTION: Circle all outliers in red.

ACTION: If any $\overline{RRF}$ values are < 0.05, qualify associated non-detects unusable (R) and associated positive results estimated (J).

NOTE: Contract Requirements: The SOW allows up to two of the required analytes (see compounds marked with a "*" on Form VI and Table D-3, page D-61/VOA) to fail contractual %RSD and RRF criteria, provided the %RSD is ≤ 40.0 and RRF ≥ 0.010.

ACTION: If more than two of the required analytes failed %RSD or RRF criteria, document in the Data Assessment under Contract Problems/Non-Compliance and the Organic Regional Data Assessment Summary.

12.4 Are there any transcription/calculation errors in the reporting of $\overline{RRFs}$, RRFs or %RSD values? (Check at least 2 values, but if errors are found, check more.) ___ [X] ___

ACTION: Circle errors in red.

ACTION: If errors are large, contact the WAM to obtain an explanation/resubmittal from the lab, document in the Data Assessment under Contract Problems/Non-Compliance and in the Organic Regional Data Assessment Summary.

13.0 GC/MS Continuing Calibration (Form VII LCV)

13.1 Are the Continuing Calibration Forms (Form VII LCV) present and complete for the volatile fraction? [X] ___ ___

13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument? [X] ___ ___

ACTION: If any forms are missing or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, ask the WAM to obtain

	YES	NO	N/A
13.5 Are there any transcription/calculation errors in the reporting of RRFs, or %D between initial RRFs and continuing RRFs? (Check at least two values but if errors are found, check more.)	___	[X]	___

ACTION: Circle errors in red.

ACTION: If errors are large, notify the WAM to obtain explanation/resubmittals from the lab. Document errors in the Contract Problems/Non-Compliance section of the Data Assessment.

14.0 Internal Standard (Form VIII LCV)

	YES	NO	N/A
14.1 Are the internal standard areas (Form VIII LCV) of every sample and blank within the upper and lower limits (± 40%) for each continuing calibration?	[X]	___	___
If no, was the sample reanalyzed?	[ ]	___	X

ACTION: 1. Circle all outliers in red.

2. List all the outliers below.

Sample #	Int. Std.	Area	Lower Limit	Upper Limit

(Attach additional sheets if necessary, or attach copies of Form VIIIs.)

ACTION: 1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results quantitated with this internal standard.

2. Do not qualify non-detects when associated IS area counts are > +40%.

3. If the IS area is less than the lower limit (-40%), qualify all associated non-detects "UJ". If extremely low area counts are reported, (< 20%) or if performance exhibits a major, abrupt drop- off, flag all associated non-detects as unusable (R).

14.2 Are the retention times of the internal standards within ±20 seconds of the associated calibration standard? [X] ___ ___

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 20 seconds.

NOTE: Contract Requirements: The SOW (section 11.8.4, page D-51/VOA) states that any sample which fails the acceptance criteria for IS response must be reanalyzed.

ACTION: Document in the Data Assessment under Contract Problems/Non-Compliance any sample(s) which failed the above IS acceptance criteria.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for Low Concentration VOA analysis? [X] ___ ___

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between duplicate results must be addressed in the reviewer narrative. If large differences exist, contact the WAM to confirm identification of field duplicates with the sampler.

TABLE 1

Samples Associated With Trip @ Field Blanks
Collected 4/8/98

Samples:	Type
BMM62, BMM66, BMM69	Field Samples
BMM72	Field Blank
BMM75	Trip Blank

Field/Trip Blanks

Blank	Type	Associated Samples
BMM71	Field	BMM56, BMM57, BMM58, BMM59, BMM60, BMM61, BMM63, BMM64, BMM65, BMM67, BMM68
BMM72	Field	BMM62, BMM66, BMM69
BMM74	Trip	BMM56, BMM57, BMM58, BMM59, BMM60, BMM61, BMM63, BMM64, BMM65, BMM67, BMM68
BMM75	Trip	BMM62, BMM66, BMM69

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TPO: [ ]ACTION [X]FYI REGION II

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE NO.: 26114 LABORATORY: PDP Analytical Corp.
SDG NO.: BMM56 DATA USER: EPA Region II
SOW: OLC02.1 REVIEW COMPLETION DATE: 6/2/98
NO. OF SAMPLES: 18 WATER

REVIEWER: [ ] ED [ ] ESAT [ ] OTHER, CONTRACTOR _____

QC ITEM	VOA	BNA	PEST		
HOLDING TIMES	O				
GC-MS PERFORMANCE	O				
INITIAL CALIBRATIONS	M				
CONTINUING	M				
FIELD BLANKS(F = N/A)	X				
LABORATORY BLANKS	O				
SURROGATES	O				
LAB CONTROL SAMPLE	O				
QC SAMPLES (LES)	O				
INTERNAL STANDARDS	O				
COMPOUND	O				
COMPOUND QUANTITATION	O				
SYSTEM PERFORMANCE	O				
OVERALL ASSESSMENT	M				

O = No problems or minor problems that do not affect data usability.
X = No more than about 5% of the data points are qualified as either estimated or unusable.
M = More than about 5% of the data points are qualified as either estimated or unusable.
Z = More than about 5% of the data points are qualified as unusable.

TPO ACTION ITEMS: NONE

AREAS OF CONCERN: NONE

DATA REJECTION SUMMARY

Type of Review: Organic Date: 6/2/98 Case No.: 26114
Site Name: Spectrum Fishing Corp. Lab Name: PDP Analytical Corp.
Reviewer's Initials: KWC Number of Samples: 18

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	LCS	ID	Internal Standards	Other	Total # of Samples	Total # Rejected/Total # in All Samples
VOA(33)	0	0	49	0	0	0	0	0	18	49 738 7 %

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)

	Surrogates	Holding Time	Calibration	Contamination	LCS	ID	Internal Standards	Other	Total # of Samples	Total # Estimated/Total # in All Samples
VOA(33)	0	0	5	0	0	0	0	0	18	5 738 1 %

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

Definitions

BFB - bromofluorobenzene
BHC - benzene hexachloride
BNA - base neutral acid
CADRE - Computer Aided Data Review and Evaluation
CARD - CLP Analytical Results Database
CCS - contract compliance screening
CLASS - Contract Laboratory Analytical Services Support
CLP - Contract Laboratory Program
CRQL - Contract Required Quantitation Limit
DCB -decachlorobiphenyl
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenylethane
DDT - dichlorodiphenyltrichloroethane
GC - gas chromatography
GC/EC - gas chromatography/electron capture detector
GC/MS - gas chromatography/mass spectroscopy
GPC - gel permeation chromatography
kg - kilogram
µg - microgram
MAGIC - Mainframe Access Graphical Interface with CARD
ℓ - liter
LCS - Laboratory Control Sample
LES - Laboratory Evaluation Sample
mℓ - miliiiter
PCB - polychlorinated biphenyl
PEM - Performance Evaluation Mixture
QC - quality control
RAS - Routine Analytical Services
RIC - reconstructed ion chromatogram
RPD - relative percent difference
RRF - relative response factor
$\overline{RRF}$ - average relative response factor (from initial calibration)
RRT - relative retention time
RSD - relative standard deviation
RT - retention time
RSCC - Regional Sample Control Center
SDG - sample delivery group
SMC - system monitoring compound
SOP - standard operating procedure
SOW - Statement of Work
SVOA - semivolatile organic acid
TCL - Target Compound List
TCLP - Toxicity Characteristics Leachate Procedure
TCX -tetrachloro-m-xylene
TIC - tentatively identified compound
TPO - technical project officer
VOA - volatile organic acid
VTSR - validated time of sample receipt
WAM - work assignment manager

DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the present of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

REFERENCES

SOW/CLP OLC02.1
National Functional Guidelines (Feb 94)
EPA QA/G-6, Nov 1995

ATTACHMENTS

Low Concentration Data Assessment

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B ◦ The Woodlands, TX 77380 ◦ Phone (281)363-2233

RECEIVED
APR 23 1998
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Contract No. 68-D7-0004	Case No. 26114	SDG No. BMM56

SDG NARRATIVE

SAMPLE RECEIPT :

4/8/98 - Received one cooler :

Cooler 1 temperature: 3°C (COC # 347271/012645) contained the following:

BMM59-	3 - VOA Vials
BMM61-	3 - VOA Vials
BMM58-	3- VOA Vials
BMM65-	3 - VOA Vials
BMM60-	3 - VOA Vials
BMM74-	3- VOA Vials
BMM63-	3 - VOA Vials
BMM67-	3 - VOA Vials
BMM56-	3- VOA Vials
BMM57-	3 - VOA Vials
BMM71-	3 - VOA Vials
BMM64-	3- VOA Vials
BMM68-	3- VOA Vials

No problems encountered.

The Federal Express airbill (# 803269342140) was inadvertantly misplaced and therfore could not be submitted with the package.

4/9/98 - Received one cooler :

Cooler 1 temperature: 3°C (COC # 012649) contained the following:

BSK75-	3 - VOA Vials
BSK62-	3 - VOA Vials
BSK69-	3- VOA Vials
BSK66-	3 - VOA Vials
BSK72-	3 - VOA Vials

No problems encountered.

VOLATILES:

All samples were analyzed on a HP 5971 GC/MS using a 60 meters long DB-624 column having a 0.53mm ID and 3um film thickness. The trap used was a OV-1/Tenax/Silica Gel (Tekmar #6. Cat 14-1755-003) . A 20 mL purge

Contract No. 68-D7-0004	Case No. 26114	SDG No. BMM56

SDG NARRATIVE

volume was used for all samples, blanks and standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The following field samples are analyzed for volatiles in this SDG. The pH of the samples is listed against them.

BMM56	2.0	BMM64	2.0	BMM74	2.0
BMM57	2.0	BMM65	2.0	BMM75	2.0
BMM58	2.0	BMM66	2.0		
BMM59	2.0	BMM67	2.0		
BMM60	2.0	BMM68	2.0		
BMM61	2.0	BMM69	2.0		
BMM62	2.0	BMM71	2.0		
BMM63	2.0	BMM72	2.0		

Manual integration's were performed for the following samples for the compounds listed against them.

VSTD00182 - Vinyl chloride, Chloroethane, Chloromethane, Bromomethane, Acetone.
VSTD00282 - Vinyl chloride, Chloroethane, Chloromethane, Bromomethane, 1,1-Dichloroethene, Carbon disulfide, Acetone .
VSTD00582 - Vinyl chloride, Chloroethane, Bromomethane, 1,1-Dichloroethene, trans 1,2-dichloroethene.
VSTD01082 - Vinyl chloride, Chloroethane, Chloromethane, Bromomethane, Carbon disulfide, Acetone, 1,1-dichloroethene, Methylene chloride
VSTD02582 - Vinyl chloride, Chloroethane, Chloromethane, Bromomethane, Carbon disulfide, Acetone, 1,1-dichloroethene.
VSTD00597- Vinyl chloride, Chloroethane, Chloromethane, Bromomethane, 1,1-Dichloroethene, Carbon disulfide.
VSTD00598- 1,4-Dichlorobenzene (when a manual integration is performed on an internal standard, the software automatically flags all compounds associated with that IS with a "m".)
VSTD00501- 1,4-Dichlorobenzene (when a manual integration is performed on an internal standard, the software automatically flags all compounds associated with that IS with a "m".), 1,4-Dichlorobenzene.
VSTD00502- 1,4-Dichlorobenzene (when a manual integration is performed on an internal standard, the software automatically flags all compounds associated with that IS with a "m".), 1,4-Dichlorobenzene.
VLCS92- Vinyl Chloride
VLCS93- Vinyl Chloride
VLCS96- Vinyl chloride

PDP ANALYTICAL SERVICES
1680 Lake Front Circle, Suite B ◦ The Woodlands, TX 77380 ◦ Phone (281)363-2233

Contract No. 68-D7-0004	Case No. 26114	SDG No. BMM56

SDG NARRATIVE

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package .

Due to high concentration of target compounds, the following samples were analyzed at a dilution. Secondary dilutions had to be performed on some samples to get the concentration of all target compounds within the calibration range.

Sample BMM62 was analyzed at a 1X, 4X, and a 20X dilution.
Sample BMM63 was analyzed at a 1X,and a 2.5X dilution.
Sample BMM66 was analyzed at a 1X,and a 4X dilution.
Sample BMM67 was analyzed at a 1X, 20X and a 100X dilution.
Sample BMM69 was analyzed at a 1X, 4X, and a 20X dilution.

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 hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature:

Signature and Title: [signature] / Organic Supervisor

Date of Signature: 04/22/98

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SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: PDP Analytical Services Contract No.: 68-D7-0004

Lab Code: PDP Case No. 26114
Full Sample Analysis Price in Contrac _____

SDG No./First Sample in SDG: BMM56 Sample Receipt Date: 04/08/98
(Lowest EPA Sample Number in first shipment of samples received under SDG.) (MM/DD/YY)

Last Sample in SDG: BMM75 Sample Receipt Date: 04/09/98
(Highest EPA Sample Number in last shipment of samples received under SDG.) (MM/DD/YY)

EPA Sample Numbers in the SDG (listed in alphanumeric order)

1	BMM56	11	BMM66
2	BMM57	12	BMM67
3	BMM58	13	BMM68
4	BMM59	14	BMM69
5	BMM60	15	BMM71
6	BMM61	16	BMM72
7	BMM62	17	BMM74
8	BMM63	18	BMM75
9	BMM64	19	
10	BMM65	20	

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Skid Chadha 04/13/98
Signature Date

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 355

BMM56

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.010 Date Received: 04/08/98

Lab File ID: B6810 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~U~~ R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~ R
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 356

BMM56

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.010 Date Received: 04/08/98

Lab File ID: B6810 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 357

BMM57

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.011 Date Received: 04/08/98

Lab File ID: B6808 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~U~~R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~R
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 358

BMM57

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.011 Date Received: 04/08/98

Lab File ID: B6808 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 359

BMM58

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.004 Date Received: 04/08/98

Lab File ID: B6800 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~U~~ R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~ R
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 360

BMM58

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.004 Date Received: 04/08/98

Lab File ID: B6800 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 361

BMM59

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4544.002 Date Received: 04/08/98

Lab File ID: B6782 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	UR
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	UR
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	UR
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 362

BMM59

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4544.002 Date Received: 04/08/98

Lab File ID: B6782 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 363

BMM60

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.006 Date Received: 04/08/98

Lab File ID: B6786 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	11	
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	UR
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	UR
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 364

BMM60

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.006 Date Received: 04/08/98

Lab File ID: B6786 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 365

BMM61

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.003 Date Received: 04/08/98

Lab File ID: B6783 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~U~~R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~R
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 366

BMM61

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.003 Date Received: 04/08/98

Lab File ID: B6783 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 367

BMM62

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.002 Date Received: 04/09/98

Lab File ID: B6802 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	6	UJ
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	0.8	J
156-59-2	cis-1,2-Dichloroethene	60 ~~56~~	~~E~~
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	45 ~~39~~	~~E~~
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~ R
127-18-4	Tetrachloroethene	210 ~~200~~	~~E~~
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

*Reported from BMM62DL

1 Reported from BMM62DL2

FORM I LCV

OLC02.0

0000159

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 368

BMM62

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.002 Date Received: 04/09/98

Lab File ID: B6802 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
1.		UNKNOWN	10.28	4	NJ
2.		UNKNOWN	13.34	2	
3.					
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 369

BMM63

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.008 Date Received: 04/08/98

Lab File ID: B6788 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~U~~ R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	26 ~~31~~	~~E~~
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	0.6	J
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	16	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	*5	~~U~~ R
127-18-4	Tetrachloroethene	35 ~~27~~	~~E~~
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

* Reported from BMM63DL

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 370

BMM63

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.008 Date Received: 04/08/98

Lab File ID: B6788 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
1.	UNKNOWN	10.11	5	NJ
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 371

BMM64

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.013 Date Received: 04/08/98

Lab File ID: B6793 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	UR
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	0.8	J
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	UR
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	2	
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	UR
127-18-4	Tetrachloroethene	8	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 372

BMM64

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.013 Date Received: 04/08/98

Lab File ID: B6793 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 373

BMM65

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.005 Date Received: 04/08/98

Lab File ID: B6785 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~UR~~
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~UR~~
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	0.8	J
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~UR~~
127-18-4	Tetrachloroethene	0.9	J
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 374

BMM65

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.005 Date Received: 04/08/98

Lab File ID: B6785 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 375

BMM66

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.004 Date Received: 04/08/98

Lab File ID: B6838 Date Analyzed: 04/13/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~U~~ R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	2928	~~E~~
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	0.5	J
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	15	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~ R
127-18-4	Tetrachloroethene	24	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

*Value transferred BMM66D

FORM I LCV

OLC02.0

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 376

BMM66

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.004 Date Received: 04/08/98

Lab File ID: B6838 Date Analyzed: 04/13/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 377

BMM67

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.009 Date Received: 04/08/98

Lab File ID: B6799 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	5	
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	~~U~~ R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	0.6	J
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1300* ~~1000~~	~~E~~
156-60-5	trans-1,2-Dichloroethene	4	
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	250* ~~360~~	~~E~~
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~ R
127-18-4	Tetrachloroethene	3500* ~~550~~	~~E~~
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.9	J

* Values transfered from BMM67 OL2
0 Value transfered from BMM67 OL2

FORM I LCV

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000155

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 378

BMM67

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.009 Date Received: 04/08/98

Lab File ID: B6799 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 379

BMM68

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.014 Date Received: 04/08/98

Lab File ID: B6794 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	UR
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	2	
156-59-2	cis-1,2-Dichloroethene	4	
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	UR
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	2	
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	UR
127-18-4	Tetrachloroethene	21	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 380

BMM68

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.014 Date Received: 04/08/98

Lab File ID: B6794 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
1.				
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 381

BMM69

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.003 Date Received: 04/09/98

Lab File ID: B6804 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	7	~~U~~
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	*0.8	J
156-59-2	cis-1,2-Dichloroethene	59 ~~57~~	~~E~~
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	43* ~~38~~	~~E~~
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~ R
127-18-4	Tetrachloroethene	210' ~~190~~	~~E~~
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

*TRANSFERED FROM BMM69DL

'TRANSFERED FROM BMM69DL2

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 382

BMM69

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.003 Date Received: 04/09/98

Lab File ID: B6804 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
1.	UNKNOWN	10.27	4	NJ
2.	UNKNOWN	13.32	2	~~NJ~~ R
3.				
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 383

BMM71

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.012 Date Received: 04/08/98

Lab File ID: B6792 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	0.6	J
67-64-1	Acetone	5	UR
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	5	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	UR
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	UR
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 384

BMM71

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.012 Date Received: 04/08/98

Lab File ID: B6792 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 385

BMM72

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.005 Date Received: 04/09/98

Lab File ID: B6803 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	9	J
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	UR
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	UR
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

0000233

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 386

BMM72

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.005 Date Received: 04/09/98

Lab File ID: B6803 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1.	UNKNOWN	13.32	3	NJ
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 387

BMM74

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.007 Date Received: 04/08/98

Lab File ID: B6787 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	5	~~U~~ R
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	6	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	~~U~~ R
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	~~U~~ R
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 388

BMM74

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4554.007 Date Received: 04/08/98

Lab File ID: B6787 Date Analyzed: 04/08/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
1.				
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 389

BMM75

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.001 Date Received: 04/09/98

Lab File ID: B6805 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	10	
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 390

BMM75

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 26114 SAS No.: SDG No.: BMM56

Lab Sample ID: 4556.001 Date Received: 04/09/98

Lab File ID: B6805 Date Analyzed: 04/09/98

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST.CONC. (UG/L)	Q
1.				
2.				
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.				

RECORD OF COMMUNICATION

TO: YUNRU YANG

FROM: *JANET TROTTER*
Region II ESAT/RSCC

DATE: 6/26/98

SUBJECT: QUALITY ASSURED DATA

MESSAGE

PLEASE SIGN BELOW IN ACKNOWLEDGEMENT OF RECEIPT OF THE FOLLOWING AND RETURN ONE COPY OF THIS RECORD OF COMMUNICATION TO THE RSCC-REGION II.

① Spectrum Finishing 26114 AATS Inorg 18S/18W

REPLY BY:

SIGNATURE: [illegible] DATE: 6/29/98

DATE RECEIVED BY RSCC: / /

cc: EPA TASK MONITOR
ESAT, MANAGER
file

392

RECORD OF COMMUNICATION

REGIONAL SAMPLE CONTROL CENTER

RECEIVED
JUN 25 1998

DATE: JUNE 2, 1998
SUBJECT: CLP Data Package for Quality Assurance Review
FROM: RSCC / ESAT
TO: Hanif Sheikh, Hazardous Waste Support Section

Attached is the following INORGANIC Data Package to be reviewed for Quality Assurance

SITE SPECTRUM FINISHING
CASE# 26114
CONTRACTOR AWES
#SAMPLES 18 MATRIX SOIL
18 WATER
PHASE SSI
LAB AATS
FRACTION TAL & CN
TURN-AROUND-TIME 35 DAYS

REGION II RSCC DATA TRANSFER LOG

Relinquished By		Received By	
Signature	Date/Time	Signature	Date/Time
		John Bulich	5-13-98
John Bulich	6-2-98	CS	6/10/98
CS	6/23/98	John Bulich	6/23/98
John Bulich (DCR)	6/23/98	Hanif Sheikh	6/23/98
~~DCR~~	~~6/23/98~~		
Hanif Sheikh	6/25/98	DCR J Bulich	6/25/98

(over for instructions) revised 10/97

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.2: Data Assessment Narrative

Date: Jan. 1992
Number: HW-2
Revision: 11

Case: # 26114	Site: SPECTRUM FINISHING	Matrix: Soil: 18
SDG: # MBKL09, MBKL46	Lab: AMERICAN ANALYTICAL	Water: 18
Contractor: AWES	Reviewer: C. STANCA/ESAT	Other:

A.2.1. Validation flags -The following flags have been applied in red by the data validator and must be considered by the data user.

J - This flag indicates the result qualified as estimated.

Red-Line - A red-line drawn through a sample result indicates unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data -The results that do not carry "J" or "red-line" are fully usable.

Contractual Qualifiers -The legend of contractual qualifiers applied by the lab on Form I's is found on page B-20 of SOW ILM01.0

A.2.2. The data assessment is given below and on the attached sheets.

This case consists of eighteen (18) aqueous and eighteen (18) soil samples collected at the Spectrum Finishing site on 04/07 - 04/08/98 for TAL Metals and cyanide analysis according to the USEPA CLP SOW No. ILM04.0. The following samples were identified as field blanks: MBKL46, -47, -48, -49. Samples MBKL18/30 and MBKL38/45 are the field duplicate pairs for this sampling event. Matrix spike, laboratory duplicate and serial dilution analyses were performed on MBKL30 and MBKL27 for soil matrix and MBKL37 and MBKL45 for aqueous matrix.

SDG MBKL09

CSF

1. Page 300A was inserted.
2. Page 352 is not legible.
3. Pages 91 -> 144 do not indicate where the originals were located.
4. Laboratory used blue ink to fill out DC-2 forms and also in other parts of the data package.
5. Pages 91 -> 144 and 256 -> 289 are two-sided copies.

A.2.2. (continuation)

CRDL STANDARD

The CRDL standard recoveries fell outside the control limits of 80 - 120% for Hg (%R = 75.0). All associated Hg results within the affected range of True Value ± CRDL should be considered estimated and flagged "J". The following action has been taken:

"J": Hg in MBKL09, -10, -11, -14 --> 18, -30, -32 --> 37, -39, -40, -41, -43, -44.

MATRIX SPIKE

SOIL

The matrix spike recovery was outside the control limits of 75 - 125% when sample concentration was less than 4 X spike concentration for Sb (%R = 72.4). If the spike recovery is low the results in the associated samples are biased low and the true values may be greater than the values reported. All associated Sb results should be considered estimated and flagged "J". The following action has been taken:

"J": Sb in MBKL09, -10, -11, -14 --> 18, -30.

AQUEOUS

The matrix spike recovery was outside the control limits of 75 - 125% when sample concentration was less than 4 X spike concentration for Al (%R = 156.6) and Hg (%R = 55.6). If the spike recovery is low the results in the associated samples are biased low and the true values may be greater than the values reported. If the spike recovery is high the results in the associated samples are biased high and the true values may be lower than the values reported. All associated positive Al results should be rejected and all associated Hg results should be considered estimated and flagged "J". The following action has been taken:

"R": Al in MBKL32 --> 37, -39, -40, -41, -43, -44.

Note: The Hg results were already qualified due to CRDL criteria.

LABORATORY DUPLICATE

SOIL

The RPD between sample and duplicate results was greater than 100% for Pb (131.5%) when both sample and

A.2.2. (continuation)

duplicate results were greater than 5 X CRDL. All associated sample results should be considered estimated and flagged "J". The following action has been taken:

"J": Pb in MBKL09, -10, -11, -14 --> 18, -30.

ICP SERIAL DILUTION

SOIL

The ICP serial dilution analysis yielded percent differences greater than 10 but less than 100 when the initial concentration was equal to or greater than 10 X IDL for Co (%D = 15.2). All associated sample results greater or equal to CRDL or 10 X IDL, whichever is greater, should be considered estimated and flagged "J". The following action has been taken:

"J": Co in MBKL17.

AQUEOUS

The ICP serial dilution analysis yielded percent differences greater than 10 but less than 100 when the initial concentration was equal to or greater than 10 X IDL for Cu (%D = 13.4), K (%D = 44.3), and Zn (%D = 31.4). All associated sample results greater or equal to CRDL or 10 X IDL, whichever is greater, should be considered estimated and flagged "J". The following action has been taken:

"J": Cu in MBKL32, -34 --> 37, -39, -40, -44.
Zn in MBKL32 --> 37, -39, -40, -41, -43, -44.

SDG MBKL46

CSF

1. Pages 120 -> 135, 137 -> 152, 191 -> 212, and 220 -> 241 are two-sided copies.
2. Laboratory used blue ink to fill out DC-2 forms and also in other parts of the data package.

CRDL STANDARD

The CRDL standard recoveries fell outside the control limits of 80 - 120% for Hg, run of 04/24/98 (%R = 75.0) and Pb, second run of 04/30/98 ($\%R_{initial}$ = 77.8).

A.2.2. (continuation)

All associated Hg and Pb results not qualified due to other criteria within the affected range of True Value ± 2CRDL for ICP and True Value ± CRDL for AA should be considered estimated and flagged "J". The following action has been taken:

"J": Hg in MBKL12, -13, -19, -20, -25, -26, -28.
Pb in MBKL12, -19.

MATRIX SPIKE

SOIL

The matrix spike recovery was outside the control limits of 75 - 125% when sample concentration was less than 4 X spike concentration for Sb (%R = 74.4), As (%R = 172.0), and Cr (%R = 140.7). If the spike recovery is low the results in the associated samples are biased low and the true values may be greater than the values reported. If the spike recovery is high the results in the associated samples are biased high and the true values may be lower than the values reported. All associated positive As and Cr results and all associated Sb results should be considered estimated and flagged "J". The following action has been taken:

"J": Sb, As, Cr in MBKL12, -13, -19, -20, -24 –> 28.

AQUEOUS

The matrix spike recovery was outside the control limits of 75 - 125% when sample concentration was less than 4 X spike concentration for Al (%R = 172.3) and Hg (%R = 45.1). If the spike recovery is low the results in the associated samples are biased low and the true values may be greater than the values reported. If the spike recovery is high the results in the associated samples are biased high and the true values may be lower than the values reported. All associated positive Al results should be rejected and all associated Hg results should be considered estimated and flagged "J". The following action has been taken:

"R": Al in MBKL38, -42, -45, -47, -48, -49.

"J": Hg in MBKL38, -42, -45, -46, -47, -48, -49.

A.2.2. (continuation)

ICP SERIAL DILUTION

SOIL

The ICP serial dilution analysis yielded percent differences greater than 10 but less than 100 when the initial concentration was equal to or greater than 10 X IDL for Cu (%D = 16.5), Na (%D = 36.4) and Zn (%D = 21.3). All associated sample results greater or equal to CRDL or 10 X IDL, whichever is greater, should be considered estimated and flagged "J". The following action has been taken:

"J": Cu, Zn in MBKL12, -13, -19, -20, -24 --> 28.
Na in MBKL13.

AQUEOUS

The ICP serial dilution analysis yielded percent differences greater than 10 but less than 100 when the initial concentration was equal to or greater than 10 X IDL for Cr (%D = 39.9), K (%D = 22.0), and Zn (%D = 17.5). All associated sample results greater or equal to CRDL or 10 X IDL, whichever is greater, should be considered estimated and flagged "J". The following action has been taken:

"J": Cr in MBKL38, -45.
Zn in MBKL38, -42, -45, -48.

FIELD BLANK

The Fe and Zn results in some field blanks were greater than the CRDL indicating sample contamination due to poor decontamination procedures. However, the sequence of sampling in relation to rinsate blanks indicates that no samples could be associated with the contaminated blanks. (The field blanks were collected after the field samples). No action was required.

FIELD DUPLICATE

The absolute difference between sample (MBKL38) and duplicate (MBKL45) results was greater than CRDL for Ca when sample and/or duplicate results were less than 5 X CRDL. All associated sample results should be considered estimated and flagged "J". The following action has been taken:

"J": Ca in MBKL38, -45.

A.2.3. Contract-Problems/Non-Compliance

1. The contractual holding time was not met for cyanide. However, the technical holding time was within the acceptable interval, therefore no action was taken.

2. The cooler temperature for sample MBKL11, as reported on the laboratory log-in sheets , was 14°C. Although the acceptable range, as stated in the current CLP SOW is 4°C $\pm$ 2°C, there are no data or guidelines available regarding the effect of elevated temperature on metals in water or soil samples. No action based on this criteria was taken. However, it is strongly recommended that all metals data for sample MBKL11, and especially Hg and CN data (Hg and CN being the least stable elements), be used with caution.

MMB Reviewer: _____ Date: _____
Signature

Contractor Reviewer: _____ Date: 6/18/98
Signature

Verified by: _____ Date: _____
Signature

STANDARD OPERATING PROCEDURE

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.3: Contract Non-Compliance (SAS Report)

Date: Jan. 1992
Number: HW-2
Revision: 11

CONTRACT NON-COMPLIANCE
(SAS REPORT)

Regional Review of Uncontrolled Hazardous Waste
Site Contract Laboratory Data Package

CASE NO. 26114

The hardcopied (laboratory name) _____
Inorganic data package received at Region II has been reviewed and the quality assurance and performance data summarized. The data reviewed included:
SDG Sample No.: _____

Conc. & Matrix: _____

Contract No. (_____) requires that specific analytical work be done and that associated reports be provided by the contractor to the Region, ESD-PW, and SMC. The several criteria used to determine the performance were based on an examination of:

- Data Completeness
- Matrix Spike Results
- Calibration Standards Results
- Duplicate Analysis Results
- Blank Analysis Results
- MSA Results

Items of non-compliance with the above contract are described below.

Items: _____

CS
Reviewer's Initial

6/18/98
Date

STANDARD OPERATING PROCEDURE

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.4: Mailing List for Data Reviewers

Date: Jan. 19
Number: HW
Revision:

DPO MAILING LIST FOR DATA REVIEWERS

1. USEPA Region I (ESD)
60 Westview Street
Lexington, MA 02173
Deb Szaro
(617) 861-4312
CT, ME, MA, NH, RI, VT
CAA, Resource Analysts, York,
E3I, Skinner, TMA

2. USEPA Region II ESD
Woodbridge Avenue
Edison, NJ 08837
Lisa Gatton Vidulich
(201) 321-6676
NJ, NY, PR, VI
Century, Chemtech, US Test, Nanco
ETC, Gadson, EMS, Galson, ICM

3. USEPA Region III (CRL)
839 Bestgate Road
Annapolis, MD 21401
Chuck Sands
(301) 266-9180
DE, MD, PA, VA, WV, DC
Centec, Hitman, JTC, MACX, VERSAR,
ITAS, Weston, MMES, EA Engineering,
Subject Tech., KEYPA

4. USEPA Region IV (ESD)
Analytical Support Branch
College Station Road
Athens, GA 30613
Tom Bennett, Jr.
(404) 546-3112
AL, FL, GA, KY, MS, NC, SC, TN
CompuChem, EPS, ESE, PBS&J,
Triangle Labs

5. USEPA Region V (ESD)
536 South Clark Street
Tenth Floor, CRL
Chicago, IL 60605
Pat Churilla
(312) 353-9037
IL, IN, MI, MN, OH, WI
NLE, TAI/ENG

6. USEPA Region VI (ESD)
Monterey Park Plaza, Bldg. C
6608 Hornwood Drive
Houston, TX 77074
David Stockton
(713) 933-3425
AR, LA, NM, TX, OK
ANACON, RADIAN, SPECS, EIS, Glocken
Research, Inc., SPL Inc., SWRI,
Allied, KEYTX, EIRA

7. USEPA Region VII Laboratory
25 Funston Road
Kansas City, KS 66115
Debra Morey
(913) 236-3031
IO, KS, NB, MO
Wilson, Kansas City Scientific
Enterprises, Eagle Picher

8. USEPA Region VIII Laboratory
Box 25366
Denver Federal Center
Lakewood, CO 80225
Eva Hoffman
(303) 236-7371
CO, ND, SD, UT, WY, MT
ACCU, CSMRI, RMAL, Data Chem., Conrad

9. USEPA Region XI (ESD)
QA Management Section
215 Fremont Street
San Francisco, CA 94105
Kent Kitchingman
(415) 974-0924
AZ, CA, HI, NV, American Samoa,
Guam Trust Territories of Pacific
Islands, Wake Island
ALI, CAL, Weston, S-Cubed, IT_CA,
Vegas

10. USEPA Region X Laboratory
P.O. Box 549
Manchester, WA 98353
Gerald Muth
(206) 442-0370
AK, ID, OR, WA
Laucks Testing Labs, Century Testing
Labs (For VOA Only), Weyerhauser Co.,
Columbia Testing, Silver Valley

11. Carla Dempsey - (OS-230)
USEPA
401 "M" Street S.W.
Washington, DC 20460
FTS 382-5746

12. Edward Kantor
USEPA
EMSL-LV
944 E. Harmon Avenue
Box 93478
Las Vegas, NV 89119

13. Sample Management Office

CLP DATA ASSESSMENT SUMMARY FORM

TYPE OF REVIEW: INORGANIC **DATE:** 06/18/98 **CASE #:** 26114

SITE: SPECTRUM FINISHING **LAB NAME:** AMERICAN ANALYTICAL

REVIEWER'S INITIALS: CS **NUMBER OF SAMPLES:** 18 WATER
18 SOIL

ANALYTES REJECTED DUE TO EXCEEDING REVIEW CRITERIA:*

	Holding Time	CRDL	Prep Blank	Field Blank	Interference	Spike Recovery	Detection Limit	LCS	Serial Dilution	MSA	Total Analytes	Rejections
ICP						17					792	17
Flame AA												
Furnace AA												
Mercury											36	0
Cyanide											36	0
Total						17					864	17

ANALYTES FLAGGED AS ESTIMATED (J) DUE TO EXCEEDING CRITERIA FOR:*

	Holding Time	CRDL	Prep Blank	Percent Solids	Preservation	Spike Recovery	Dup Lab	Dup Field	Detection Limit	LCS	Serial Dilution	MSA	Total Analytes	Estimation
ICP		2				36	9	2			45		792	94
Flame AA														
Furnace AA														
Mercury		27				7							36	34
Cyanide													36	0
Total		29				43	9	2			45		864	128

Note: Asterisk (*) indicates additional exceedances of review criteria.

Region II

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.: 26114

SITE: SPECTRUM FINISHING

LABORATORY: AMERICAN ANALYTICAL

NO. OF SAMPLES/MATRIX: 18 WATER, 18 SOIL

SDG#: MBKL09, -46

REVIEWER (IF NOT ESD):

SOW#: ILM04.0

REVIEWER'S NAME: C. STANCA

DPO: ACTION FYI

COMPLETION DATE: 06/18/98

DATA ASSESSMENT SUMMARY

	ICP	AA	MERCURY	CYANIDE
Holding Times	O		O	O
Calibration	O		O	O
Blanks	O		O	O
ICS	O		N/A	N/A
LCS	O		N/A	N/A
Duplicate Analysis	O		O	O
Matrix Spike	Z		O	O
MSA	O		N/A	N/A
Serial Dilution	O		N/A	N/A
Sample Verification	O		O	O
Other QC	O		O	O
Overall Assessment	M		O	O

O = Data has no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS:
AREAS OF CONCERN:
NOTABLE PERFORMANCE:

U.S. EPA - CLP

EPA SAMPLE NO.
MBKL30D

6

LAB DUPLICATES

Lab Name: AMERICAN ANALYTICAL
Contract: 68-D5-0141
Lab Code: AATS
Case No.: 26114
SDG No.: MBKL09
Matrix (Soil/Water): WATER
Level (low/med.): Low
%Solids Sample: 75.5
%Solids Duplicate: 95.1

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

Analyte	Action Limit	Sample Concentration	C	Duplicate Concentration	C	RPD	Diff.	Q	M
Aluminum	100%	18919.3049		13932.2876		30.4			P
Antimony		13.6836	B	54.2098	B				P
Arsenic	20	12.7837		17.7436			5.0		P
Barium	400	648.7360		377.6767			312.9		P
Beryllium		1.3458	B	1.1661	B				P
Cadmium	100%	1749.1089		1494.7494		15.7			P
Calcium	100%	67787.7833		129912.7368		62.8			P
Chromium	100%	5485.0750		6472.8087		16.5			P
Cobalt		3.0015	B	24.8406	B				P
Copper	100%	2593.9516		3061.3321		16.5			P
Iron	100%	51048.9377		66102.9099		25.7			P
Lead	100%	1009.7098		4885.6409		131.5			P
Magnesium	100%	35166.9661		71880.8660		68.6			P
Manganese	100%	378.6895		511.8953		29.9			P
Mercury		0.1027	B	0.0834	U				CV
Nickel	100%	5300.9048		4143.4962		24.5			P
Potassium		1388.3895	B	825.5370	B				P
Selenium	10	6.1804		7.1030			0.9		P
Silver		2.6467	B	3.8467	B				P
Sodium		842.7008	B	1045.1612	B				P
Thallium		3.8833	U	4.2293	B				P
Vanadium	100	91.9348		82 .4622			9.5		P
Zinc	100%	4360.3020		4745.7341		8.5			P
Cyanide	100%	424.4565		399. 4418		6.1			CA

404

U.S. EPA - CLP

EPA SAMPLE NO.

|MBKL38|MBKL45|

6

FIELD DUPLICATES

Lab Name:AMERICAN ANALYTICAL Contract: 68-D5-0141

Lab Code: AATS Case No.: 26114 SDG No.: MBKL46

Matrix (Soil/Water): WATER Level (low/med.): Low

%Solids Sample: 0 %Solids Duplicate: 0

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

Analyte	Action Limit	Sample Concentration	C	Duplicate Concentration	C	RPD	Diff.	Q	M
Aluminum	100%	2820.0000		2880.0000		2.1			P
Antimony		4.0000	U	4.0000	U				P
Arsenic		6.9000	B	5.3000	B				P
Barium		56.3000	B	56.1000	B				P
Beryllium		1.0000	U	1.0000	U				P
Cadmium	5	13.8000		14.60000			0.8		P
Calcium	5000	24900.0000		18300.0000			6600.0		P
Chromium	10	11.8000		10.4000			1.4		P
Cobalt		2.9000	B	2.30000	B				P
Copper	100%	241.0000		229.0000		5.1			P
Iron	100%	5070.0000		4800.0000		5.5			P
Lead	100%	132.0000		124.0000		6.2			P
Magnesium		4680.0000	B	4480.0000	B				P
Manganese	15	85.8000		74.7000			11.1		P
Mercury		0.1000	U	1.0000	U				CV
Nickel		9.50000	B	7.40000	B				P
Potassium		1790.0000	B	1770.0000	B				P
Selenium		5.0000	U	5.0000	U				P
Silver		8.7000	B	5.5000	B				P
Sodium	5000	8780.0000		7270.0000			1510.0		P
Thallium		4.0000	U	4.0000	U				P
Vanadium		6.3000	B	4.9000	B				P
Zinc	20	59.2000		44.7000			14.5		P
Cyanide		1.0000	U	1.0000	U				CA

U.S - CLP

EPA SAMPLE NO.
|MBKL18|MBKL30|

6

FIELD DUPLICATES

Lab Name:AMERICAN ANALYTICAL | Contract: 68-D5-0141

Lab Code: AATS | Case No.: 26114 | SDG No.: MBKL09

Matrix (Soil/Water): SOIL | Level (low/med.): Low

%Solids Sample: 72.4 | %Solids Duplicate: 75.5

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

Analyte	Action Limit	Sample Concentration	C	Duplicate Concentration	C	RPD	Diff.	Q	M
Aluminum	100%	20706.4000		18912.7500		9.0			P
Antimony		13.0320	B	13.5900	B				P
Arsenic	20	15.2040		12.8350			2.4		P
Barium	400	342.4520		649.3000			306.8		P
Beryllium		1.3032	B	1.3590	B				P
Cadmium	100%	1900.5000		1747.8250		8.4			P
Calcium	100%	52490.0000		67950.0000		25.7			P
Chromium	100%	6841.8000		5473.7500		22.2			P
Cobalt		3.6200	B	25.6700	B				P
Copper	100%	2765.6800		2593.4250		6.4			P
Iron	100%	64436.0000		50962.5000		25.4			P
Lead	100%	2363.8600		1007.9250		80.4			P
Magnesium	100%	27910.2000		35183.0000		23.0			P
Manganese	100%	434.4000		377.5000		14.0			P
Mercury		0.0869	U	0.1057	B				CV
Nickel	100%	3945.8000		5285.0000		29.0			P
Potassium		1133.0600	B	1389.2000	B				P
Selenium	10	7.9640		6.0400			1.9		P
Silver		3.6200	B	2.6425	B				P
Sodium		872.4200	B	841.8250	B				P
Thallium		4.7060	B	3.7750	U				P
Vanadium	100	85.0700		92.1100			7.0		P
Zinc	100%	6371.200		4379.0000		37.0			P
Cyanide	100%	292.4960		424.3100		36.8			CA

SPECTRUM FINISHING

CASE 26114 406
SDG MBKL09
46

Evaluation of Metals Data for the Contract Laboratory Program (CLP)

based on

SOP. 9/90

(SOP Revision XI)

PREPARED BY: _____ DATE: 1-30-92
Hanif Sheikh, Quality Assurance Chemist
Toxic and Hazardous Waste Section

REVIEWED BY: _____ DATE: 1-30-92
Kevin Kubik, Chief
Toxic and Hazardous Waste Section

APPROVED BY: _____ DATE: 1/30/92
Robert Runyon, Chief
Monitoring Management Branch

2.1.5 Data Review Log: It is recommended that each data reviewer should maintain a log of the reviews completed to include: a. date of start of case review

b. date of completion of case review
c. site
d. case number
e. contract laboratory
f. number of samples
g. matrix
h. hours worked
i. reviewer's initials

2.1.6 Telephone Record Log - the data reviewer should enter the bare facts of inquiry, before initiating any phone conversation with CLP laboratory. After the case review has been completed, mail white copy of Telephone Record Log to the laboratory and pink copy to SMO. File yellow copy in the Telephone Record Log folder, and attach a xerox copy of the Telephone Record Log to the completed Data Assessment Narrative (Appendix A.2).

2.1.7 Forwarded Paperwork

2.1.7.1 Upon completion of review, the following are to be forwarded to the Regional Sample Control Center (RSCC) located in the Surveillance and Monitoring Branch:
a. data package
b. completed data assessment checklist (Appendix A.1,original)
c. SMO Contract Compliance Screening (CCS)
d. Record of Communication (copy)
e. CLP Reanalysis Request/Approval Record (original + 3 copies)
f. Appendix A.6 (original).

2.1.7.2 Forward 2 copies of completed Data Assessment Narrative (Appendix A.2) along with 2 copies of the Inorganic Data Assessment Form (Appendix A.6) and Telephone Record Log , if any,: one each for appropriate Regional TPO, and the other one to EPA EMSL office in Las Vegas. The addresses of TPOs and EPA office in Las Vegas are given in Appendix A-4.

2.1.8 Filed Paperwork - Upon completion of review, the following are to be filed within MMB files:
a. Two copies of completed Data Assessment Narrative (Appendix A.2) each carrying Appendix A.6.
b. Telephone Record Log (copy)
c. SMO Report (copy Appendix A-3)
d. CLP Reanalysis Request/Approval Record (copy)

3.0 Data Completeness
Each data package is checked by a Regional Sample Control Coordinator (RSSC) for completeness. A data package is assumed to be complete when all the deliverables required under the contract are present. If a data package is incomplete, the RSSC would call the laboratory for missing document(s). If the laboratory does not respond within a week, SMO and MMB coordinator of Region II will be notified.

4.0 Rejection of Data - All values determined to be unacceptable on the Inorganic Analysis Data Sheet (Form I) must be lined over with a red pencil. As soon as any review criteria causes data to be rejected, that data can be eliminated from any further review or consideration.

5.0 Acceptance Criteria - In order that reviews be consistent among reviewers, acceptance criteria as stated in Appendix A.1 (pages 4-25) should be used. Additional guidance can be found in the National Inorganic Functional Guidelines of October 1, 1989.

6.0 SMO Contract Compliance Screening (CCS) - This is intended to aid reviewer in locating any problems, both corrected and uncorrected. However, the validation should be carried out even if CCS is not present. Resubmittals received from laboratory in response to CCS must be used by the reviewer.

7.0 Request for Reanalysis - Data reviewers must note all items of contract non-compliance within Data Assessment Narrative. If holding times and sample storage times have not been exceeded, TPO may request reanalysis if items of non-compliance are critical to data assessment. Requests are to be made on "CLP Re-Analysis Request/Approval Record".

8.0 Record of Communication - Provided by the Regional Sample Control Center (RSCC) to indicate which data packages have been received and are ready to be reviewed.

9.0 Rounding off numbers - The data reviewer will follow the standard practice.

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.1: Data Assessment - Contract Compliance (Total Review)

Date: Jan. 1992
Number: HW-2
Revision: 11

	YES	NO	N/A
A.1.1 Contract Compliance Screening Report (CCS) - Present?	✓		
ACTION: If no, contact RSCC.			
A.1.2 Record of Communication (from RSCC) - Present?	✓		
ACTION: If no, request from RSCC.			
A.1.3 Trip Report - Present and complete?	✓		
ACTION: If no, contact RSCC for trip report.			
A.1.4 Sample Traffic Report - Present?	✓		
Legible?	✓		
ACTION: If no, request from Regional Sample Control Center (RSCC).			
A.1.5 Cover Page - Present?	✓		
Is cover page properly filled in and signed by the lab manager or the manager's designee?	✓		
ACTION: If no, prepare Telephone Record Log, and contact laboratory.			
Do numbers of samples correspond to numbers on Record of Communication?	✓		
Do sample numbers on cover page agree with sample numbers on:			
(a) Traffic Report Sheet?	✓		
(b) Form I's?	✓		
ACTION: If no for any of the above, contact RSCC for clarification.			

		Yes	No	N/A
A.1.6	Form I to IX			
A.1.6.1	Are all the Form I through Form IX labeled with:			
	Laboratory name?	[✓]	___	___
	Case/SAS number?	[✓]	___	___
	EPA sample No.?	[✓]	___	___
	SDG No.?	[✓]	___	___
	Contract No.?	[✓]	___	___
	Correct units?	[✓]	___	___
	Matrix?	[✓]	___	___

ACTION: If no for any of the above, note under Contract Problem/Non-Compliance section of the "Data Assessment Narrative".

A.1.6.2	Do any computation/transcription errors exceed 10% of reported values on Forms I-IX for:			
	(NOTE: Check all forms against raw data.)			
	(a) all analytes analyzed by ICP?	[✓]	___	___
	(b) all analytes analyzed by GFAA?	[ ]	___	✓
	(c) all analytes analyzed by AA Flame?	[ ]	___	✓
	(d) Mercury?	[✓]	___	___
	(e) Cyanide?	[✓]	___	___

ACTION: If yes, prepare Telephone Log, contact laboratory for corrected data and correct errors with red pencil and initial.

Title: Evaluation of Metals Data for the Contract Laboratory Program
Appendix A.1: Data Assessment - Contract Compliance (Total Review)

Date: Jan. 1992
Number: HW-2
Revision: 11

		YES	NO	N/A
A.1.7	Raw Data			
A.1.7.1	Digestion Log* for flame AA/ICP (Form XIII) present?	[✓]		
	Digestion Log for furnace AA Form XIII present?	[ ]		✓
	Distillation Log for mercury Form XIII present?	[✓]		
	Distillation Log for cyanides Form XIII present?	[✓]		
	Are pH values (pH<2 for all metals, pH>12 for cyanide) present?	[✓]		
	*Weights, dilutions and volumes used to obtain values.			
	Percent solids calculation present for soils/sediments?	[✓]		
	Are preparation dates present on sample preparation logs/bench sheets?	[✓]		
A.1.7.2	Measurement read out record present? ICP	[✓]		
	Flame AA	[ ]		✓
	Furnace AA	[ ]		✓
	Mercury	[✓]		
	Cyanides	[✓]		
A.1.7.3	Are all raw data to support all sample analyses and QC operations present?	[✓]		
	Legible?	[✓]		
	Properly Labeled?	[✓]		

ACTION: If no for any of the above questions in sections A.1.7.1 through A.1.7.3, write Telephone Record Log and contact laboratory for resubmittals.

		YES	NO	N/A
A.1.8	Holding Times - (aqueous and soil samples)			
	(Examine sample traffic reports and digestion/distillation logs.)			
	Mercury analysis (28 days) . . . . . exceeded?	___	[✓]	___
	Cyanide distillation (14 days) . . . . . exceeded?	___	[✓]	___
	Other Metals analysis (6 months) . . . . exceeded?	___	[✓]	___
	NOTE: Prepare a list of all samples and analytes for which holding times have been exceeded. Specify the number of days from date of collection to the date of preparation (from raw data). Attach to checklist.			
	ACTION: If yes, reject (red-line) values less than Instrument Detection Limit (IDL) and flag as estimated (J) the values above IDL even though sample(s) was preserved properly.			
A.1.8.2	Is pH of aqueous samples for: Metals Analysis >2?	___	[✓]	___
	Cyanides Analysis <12?	___	[✓]	___
	Action: If yes, flag the associated metals and cyanides data as estimated.			
A.1.9	Form I (Final Data)			
A.1.9.1	Are all Form I's present and complete?	[✓]	___	___
	ACTION: If no, prepare telephone record log and contact laboratory for submittal.			
A.1.9.2	Are correct units (ug/l for waters and mg/kg for soils) indicated on Form I's?	[✓]	___	___
	Are soil sample results for each parameter corrected for percent solids?	[✓]	___	___
	Are all "less than IDL" values properly coded with "U"?	[✓]	___	___

		YES	NO	N/A
	Are the correct concentration qualifiers used with final data?	[✓]		
	ACTION: If no for any of the above, prepare Telephone Record Log, and contact laboratory for corrected data.			
A.1.9.3	Are EPA sample # s and corresponding laboratory sample ID # s the same as on the Cover Page, Form I's and in the raw data?	[✓]		
	Was a brief physical description of samples given on Form I's?	[✓]		
	Was the dilution of any sample diluted beyond the requirements of the contract noted on Form I or Form XIV?		[✓]	
	ACTION: If no for any of the above, note under Contract-Problem/Non-Compliance of the "Data Assessment Narrative".			
A.1.10	Calibration			
A.1.10.1	Is record of at least 2 point calibration present for ICP analysis?	[✓]		
	Is record of 5 point calibration present for Hg analysis?	[✓]		
	Is record of 4 point calibration present for:			
	Flame AA?	[ ]		[✓]
	Furnace AA?	[ ]		[✓]
	Cyanides?	[✓]		
	Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	[✓]		

ACTION: If no for any of the above, write in the Contract Problem/Non-Compliance section of the "Data Assessment Narrative".

		YES	NO	N/A
A.1.10.2	Is correlation coefficient less than 0.995 for:			
	Mercury Analysis?	___	[✓]	___
	Cyanide Analysis?	___	[✓]	___
	Atomic Absorption Analysis?	___	[ ]	✓

ACTION: If yes, flag the associated data as estimated.

NOTE: The data validator shall calculate the correlation coefficient using concentrations of the standards and the corresponding instrument response (e.g. absorbance, peak area, peak height, etc.).

A.1.10.3	In the instance where less than 4 standards are measured in absorbance (or peak area, peak height,etc.) mode, are the remaining standards analyzed in concentration mode immediately after calibration within ±10% of the true values?	[ ]	___	✓

ACTION: If no, flag the associated data as estimated if standards are not within ±10% of true values. Do not flag the data as estimated in linear range indicated by good recovery of standard(s).

A.1.11 Form II A (Initial and Continuing Calibration Verification)-

A.1.11.1	Present and complete for every metal and cyanide?	[✓]	___	___
	Present and complete for AA and ICP when both are used for the same analyte?	[✓]	___	___

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.

A.1.11.2	Circle on each Form IIA all percent recoveries that are outside the contract windows. Are all calibration standards (initial and continuing) within control limits:			
	Metals- 90-110%R?	[✓]	___	___
	Hg - 80-120%R?	[✓]	___	___
	Cyanides- 85-115%R?	[✓]	___	___

	YES	NO	N/A
ACTION: Flag as estimated (J) all positive data (not flagged with a "U") analyzed between a calibration standard with %R between 75-89% (65-79% for Hg; 70-84% for CN) or 111-125% (121-135% for Hg; 116-130% for CN) recovery and nearest good calibration standard. Qualify results <IDL as estimated (UJ) if the ICV or CCV %R is 75-89% (CN, 70-84% ; HG, 65-79%). Reject (red-line) as unacceptable data if recovery of the ICV or CCV is outside the range 75-125% (CN, 70-130%; Hg, 65-135%). Qualify five samples on either side of verification standard out of control limits.			
A.1.11.3 Was continuing calibration performed every 10 samples or every 2 hours?	✓		
Was ICV for cyanides distilled?	✓		
ACTION: If no for any of the above, write in the Contract-Problem/Non-Compliance section of the "Data Assessment Narrative".			
A.1.12 Form II B (CRDL Standards for AA and ICP) -			
A.1.12.1 Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	✓		
Was a mid-range calib. verification standard distilled and analyzed for cyanide analysis?		✓	
Was a 2xCRDL (or 2xIDL when IDL>CRDL) analyzed (CRI) for each ICP run? (Note: CRI for AL,Ba,Ca,Fe,Mg,Na,or K is not required.)	✓		

ACTION: If no for any of the above, flag as estimated all data falling within the affected ranges. The affected ranges are:
AA Analysis - **True Value ± CRDL
ICP Analysis - **True Value ± 2CRDL
CN Analysis - **True Value ± 0.5 x True Value.

**True value of CRA, CRI or mid-range standard. Substitute IDL for CRDL when IDL > CRDL. Compute the concentration of the missing mid-range standard from the calibration range.

		YES	NO	N/A
A.1.12.2	Was CRI analyzed after ICV/ICB and before the final CCV/CCB, and twice every eight hours of ICP run?	[✓]		
	ACTION: If no, write in Contract Problem/Non-Compliance Section of the "Data Assessment Narrative".			
A.1.12.3	Circle on each Form IIB all the percent recoveries that are outside the acceptance windows.			
	Are CRA and CRI standards within control limits:			
	Metals 80 - 120%R?	[✓]		
	Is mid-range standard within control limits:			
	Cyanide 80 - 120%R?	[✓]		
	ACTION: Flag as estimated all sample results within the affected range if the recovery of the standard is between 50-79%; flag only positive data within the affected range if the recovery is between 121-150%; reject all data within the affected range if the recovery is less than 50%; reject only positive data within the affected range if the recovery is greater than 150%. Qualify 50% of the samples on either side of CRI standard outside the control limits.			
	Note: Flag or reject the final results only when sample raw data are within the affected ranges and the CRDL standards are outside the acceptance windows.			
A.1.13	Form III (Initial and Continuing Calibration Blanks)			
A.1.13.1	Present and complete?	[✓]		
	For both AA and ICP when both are used for the same analyte?	[✓]		
	Was an initial calibration blank analyzed?	[✓]		
	Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	[✓]		

		YES	NO	N/A
	ACTION: If no, prepare Telephone Record Log, contact laboratory and write in the Contract-Problems/ Non-Compliance section of the "Data Assessment Narrative".			
A.1.13.2	Circle on each Form III all calibration blank values that are above CRDL (or 2 x IDL when IDL > CRDL).			
	Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	✓		
	Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			✓
	ACTION: If no for any of the above, flag as estimated (J) positive sample results when raw sample value is less than or equal to calibration blank value analyzed between calibration blank with value over CRDL (or 2xIDL) and nearest good calibration blank. Flag five samples on either side of the calibration blank outside the control limits.			
A.1.14	FORM III (Preparation Blank) - (Note: The preparation blank for mercury is the same as the calibration blank.)			
A.1.14.1	Was one prep. blank analyzed for:			
	each Sample Delivery Group (SDG)?	✓		
	each batch of digested samples?	✓		
	each matrix type?	✓		
	both AA and ICP when both are used for the same analyte?			✓
	ACTION: If no for any of the above, flag as estimated (J) all the associated positive data <10 x IDLs for which prep. blank was not analyzed.			
	NOTE: If only one blank was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			

		YES	NO	N/A
A.1.14.2	Is concentration of prep. blank value greater than the CRDL when IDL is less than or equal to CRDL?	___	[✓]	___
	If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the prep.blank?	___	[___]	✓
	ACTION: If yes, reject (red-line) all associated data greater than CRDL concentration but less than ten times the prep. blank value.			
A.1.14.3	Is concentration of prep. blank value (Form III) less than two times IDL, when IDL is greater than CRDL?	[___]	___	✓
	ACTION: If no, reject (red-line) all positive sample results when sample raw data are less than 10 times the prep. blank value.			
A.1.14.4	Is concentration of prep. blank below the negative CRDL?	___	[___]	___
	ACTION: If yes, reject (red-line) all associated sample results less than 10xCRDL.			
A.1.15	Form IV (ICP Interference Check Sample)			
A.1.15.1	Present and complete?	[✓]	___	___
	(NOTE: Not required for furnace AA, flame AA, mercury, cyanide and Ca, Mg, K and Na.)			
	Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	[✓]	___	___
	ACTION: If no, flag as estimated (J) all the samples for which AL, Ca, Fe, or Mg is higher than in ICS.			
A.1.15.2	Circle all values on each Form IV that are more than ± 20% of true or established mean value.			
	Are all Interference Check Sample results inside the control limits (± 20%)?	[✓]	___	___
	If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?	[___]	___	___

		YES	NO	N/A
	ACTION: If no, flag as estimated (J) those positive results for which ICS recovery is between 121-150%; flag all sample results as estimated if ICS recovery falls within 50-79%; reject (red-line) those sample results for which ICS recovery is less than 50%; if ICS recovery is above 150%, reject positive results only (not flagged with a "U").			
A.1.16	Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)- (Note: Not required for Ca, Mg, K, and Na (both matrices), Al, and Fe (soil only.)			
A.1.16.1	Present and complete for: each SDG?	✓		
	each matrix type?	✓		
	each conc. range (i.e. low, med., high)?	✓		
	For both AA and ICP when both are used for the same analyte?			✓
	ACTION: If no for any of the above, flag as estimated (J) all the positive data less than four times the spiking levels specified in SOW for which spiked sample was not analyzed.			
	NOTE: If one spiked sample was analyzed for more than 20 samples, then first 20 samples analyzed do not have to be flagged as estimated (J).			
A.1.16.2	Was field blank used for spiked sample?		✓	
	ACTION: If yes, flag all positive data less than 4 x spike added as estimated (J) for which field blank was used as spiked sample.			
A.1.16.3	Circle on each Form VA all spike recoveries that are outside control limits (75% to 125%).			
	Are all recoveries within control limits?		✓	
	If no, is sample concentration greater than or equal to four times spike concentration?		✓	

	YES	NO	N/A
ACTION: If yes, disregard spike recoveries for analytes whose concentrations are greater than or equal to four times spike added. If no, circle those analytes on Form V for which sample concentration is less than four times the spike concentration.			
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	✓		
ACTION: If no, write in the Contract - Problem/Non - Compliance section of "Data Assessment Narrative".			
A.1.16.4 Aqueous Are any spike recoveries: (a) less than 30%?		✓	
(b) between 30-74%?	✓		
(c) between 126-150%?	✓		
(d) greater than 150%?	✓		
ACTION: If less than 30%, reject all associated aqueous data; if between 30-74%, flag all associated aqueous data as estimated (J); if between 126-150%, flag as estimated (J) all associated aqueous data not flagged with a "U"; if greater than 150%, reject (red-line) all associated aqueous data not flagged with a "U".			
A.1.16.5 Soil/Sediment Are any spike recoveries: (a) less than 10%?		✓	
(b) between 10-74%?	✓		
(c) between 126-200%?	✓		
(d) greater than 200%?		✓	

		YES	NO	N/A
	ACTION: If less than 10%, reject all associated data; if between 10-74%, flag all associated data as estimated; if between 126-200%, flag as estimated all associated data was not flagged with a "U"; if greater than 200%, reject all associated data not flagged with a "U".			
A.1.17	Form VI (Lab Duplicates)			
A.1.17.1	Present and complete for: each SDG?	[✓]	—	—
	each matrix type?	[✓]	—	—
	each concentration range (i.e. low, med., high)?	[✓]	—	—
	both AA and ICP when both are used for the same analyte?	[ ]	—	✓
	ACTION: If no for any the above, flag as estimated (J) all the data ≥CRDL* for which duplicate sample was not analyzed.			
	Note: 1. If one duplicate sample was analyzed for more than 20 samples, then first 20 samples do not have to be flagged as estimated. 2. If percent solids for soil sample and its duplicate differ by more than 1%, prepare a Form VI for each duplicate pair, report concentrations in ug/L on wet weight basis and calculate RPD or Difference for each analyte.			
A.1.17.2	Was field blank used for duplicate analysis?	—	[✓]	—
	ACTION: If yes, flag all data ≥CRDL* as estimated (J) for which field blank was used as duplicate.			
A.1.17.3	Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?	[✓]	—	—
	If no, are all results outside the control limits flagged with an * on Form I's and VI?	[ ]	—	✓
	ACTION: If no, write in the Contract - Problems/Non-Compliance section of "Data Assessment Narrative".			

* Substitute IDL for CRDL when IDL > CRDL.

	YES	NO	N/A

NOTE: 1. RPD is not calculable for an analyte of the sample - duplicate pair when both values are less than IDL.
2. If the result of lab duplicate analyzed by GFAA is rejectable due to coefficient of correlation of MSA, analytical spike recovery, or duplicate injections criteria, do not apply precision criteria to metals analyzed by GFAA.

A.1.17.4 Aqueous

Circle on each Form VI all values that are:

RPD > 50%, or
Difference > CRDL*

Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times *CRDL?		✓	
Is any difference** between sample and duplicate greater than *CRDL where sample and/or duplicate is less than 5 times *CRDL?		✓	

ACTION: If yes, flag the associated data as estimated.

A.1.17.5 Soil/Sediment

Circle on each Form VI all values that are:

RPD > 100%, or

Difference > 2 x CRDL*

Is any RPD (where sample and duplicate are both greater than or equal to 5 times *CRDL) : > 100%?	✓		
Is any **difference between sample and duplicate (where sample and/or duplicate is less than 5x*CRDL) : > 2x*CRDL?		✓	

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
	ACTION: If yes, flag the associated data as estimated.			
A.1.18	Field Duplicates			
A.1.18.1	Were field duplicates analyzed?	✓		
	ACTION: If yes, prepare a Form VI for each aqueous field duplicate pair. Prepare a Form VI for each soil duplicate pair, if percent solids for sample and its duplicate differ by more than 1%; report concentrations of soils in ug/l on wet weight basis and calculate RPDs or Difference for each analyte.			
	NOTE: 1. Do not calculate RPD when both values are less than IDL. 2. Flag all associated data only for field duplicate pair.			
A.1.18.2	Aqueous			
	Circle all values on self prepared Form VI for field duplicates that are: RPD > 50%, or Difference > CRDL*			
	Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times *CRDL?		✓	
	Is any **difference between sample and duplicate greater than *CRDL where sample and/or duplicate is less than 5 times *CRDL?	✓		
	ACTION: If yes, flag the associated data as estimated.			

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
A.1.18.3	Soil/Sediment			
	Circle all values on self prepared Form VI for field duplicates that are:			
	RPD >100%, or			
	Difference > 2 x CRDL*			
	Is any RPD (where sample and duplicate are both greater than 5 times *CRDL) : >100%?	___	[✓]	___
	Is any **difference between sample and duplicate (where sample and/or duplicate is less than 5x *CRDL): >2x *CRDL?	___	[✓]	___
	ACTION: If yes, flag the associated data as estimated.			
A.1.19	Form VII (Laboratory Control Sample) (Note: LCS - not required for aqueous Hg and cyanide analyses.)			
A.1.19.1	Was one LCS prepared and analyzed for:			
	each SDG?	[✓]	___	___
	each batch samples digested/distilled?	[✓]	___	___
	both AA and ICP when both are used for the same analyte?	[ ]	___	✓
	ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory for submittal of results of LCS. Flag as estimated (J) all the data for which LCS was not analyzed.			
	NOTE: If only one LCS was analyzed for more than 20 samples, then first 20 samples close to LCS do not have to be flagged as estimated.			

* Substitute IDL for CRDL when IDL > CRDL.
** Use absolute values of sample and duplicate to calculate the difference.

		YES	NO	N/A
A.1.19.2	**Aqueous LCS**			
	Circle on each Form VII the LCS percent recoveries outside control limits (80 - 120%) except for aqueous Ag and Sb.			
	Is any LCS recovery: less than 50%?	___	✓	___
	between 50% and 79%?	___	✓	___
	between 121% and 150%?	___	✓	___
	greater than 150%?	___	✓	___
	ACTION: Less than 50%, reject (red-line) all data; between 50% and 79%, flag all associated data as estimated (J); between 121% and 150%, flag all positive (not flagged with a "U") results as estimated; greater than 150%, reject all positive results.			
A.1.19.3	**Solid LCS**			
	NOTE: 1. If "Found" value of LCS is rejectable due to duplicate injections or analytical spike recovery criteria, regardless of LCS recovery, flag the associated data as estimated (J). 2. If IDL of an analyte is equal to or greater than true value of LCS, disregard the "Action" below even though LCS is out of control limits.			
	Is LCS "Found" value higher than the control limits on Form VII?	___	✓	___
	ACTION: If yes, qualify all associated positive data as estimated.			
	Is LCS "Found" value lower than the Control limits on Form VII?	___	✓	___
	ACTION: If yes, qualify all associated data as estimated.			

		YES	NO	N/A
A.1.20	Form IX (ICP Serial Dilution) -			
	NOTE: Serial dilution analysis is required only for initial concentrations equal to or greater than 10 x IDL.			
A.1.20.1	Was Serial Dilution analysis performed for: each SOW?	[✓]	___	___
	each matrix type?	[✓]	___	___
	each concentration range (i.e. low, med.)?	[✓]	___	___
	ACTION: If no for any of the above, flag as estimated all the positive data ≥ 10xIDLs or ≥ CRDL when 10xIDL ≤ CRDL for which Serial Dilution Analysis was not performed.			
A.1.20.2	Was field blank(s) used for Serial Dilution Analysis?	___	[✓]	___
	ACTION: If yes, flag all associated data ≥ 10 x IDL as estimated (J). If 10xIDL ≤ CRDL, flag all data ≥ CRDL.			
A.1.20.3	Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.	[✓]	___	___
	ACTION: If no, write in the Contract-Problem/Non-Compliance section of the "Data Assessment Narrative".			
A.1.20.4	Circle on each Form IX all percent difference that are outside the control limits for initial concentrations equal to or greater than 10 x IDLs only.			
	Are any % difference values:			
	> 10%?	✓	[ ]	___
	≥ 100%?	___	[✓]	___

		YES	NO	N/A
	ACTION: Flag as estimated (J) all the associated sample data ≥ 10xIDLs (or ≥ CRDL when 10xIDL ≤ CRDL) for which percent difference is greater than 10% but less than 100%. Reject (red-line) all the associated sample results equal to or greater than 10xIDLs (or ≥ CRDL when 10xIDL ≤ CRDL) for which PD is greater than or equal to 100%.			
	Note: Flag or reject on Form I's only the sample results whose associated raw data are ≥ 10xIDL (or ≥ CRDL when 10xIDL ≤ CRDL)			
A.1.21	Furnace Atomic Absorbtion (AA) QC Analysis			
A.1.21.1	Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?	[ ]	___	✓
	ACTION: If no, reject the data on Form I's for which duplicate injections were not performed.			
A.1.21.2	Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or Coefficient of Variation (CV) for concentration greater than CRDL?	[ ]	___	✓
	Was a dilution analyzed for sample with analytical spike recovery less than 40%?	[ ]	___	✓
	ACTION: If no for any of the above, flag all the associated data as estimated.			
A.1.21.3	Is ☆analytical spike recovery outside the control limits (85-115%) for any sample?	___	[ ]	✓
	ACTION: If yes, flag as estimated the affected sample results if the recovery is between 10-84%; if the recovery is between 115-200%, flag the associated positive sample results as estimated; reject the associated sample results if the recovery is less than 10%; reject positive sample results if the recovery is greater than 200%.			

☆ Analytical spike is not required on the pre-digestion spiked sample.

		YES	NO	N/A
	NOTE: Reject or flag the data only when the affected sample(s) was not subsequently analyzed by Method of Standard Addition.			
A.1.22	Form VIII (Method of Standard Addition Results)			
A.1.22.1	Present?	[ ]		✓
	If no, is any Form I result coded with "S" or a "+"?		[ ]	✓
	ACTION: If yes, write request on Telephone Record Log and contact laboratory for submittal of Form VIII.			
A.1.22.2	Is coefficient of correlation for MSA less than 0.990 for any sample?		[ ]	✓
	ACTION: If yes, reject (red-line) the affected data.			
A.1.22.3	Was *MSA required for any sample but not performed?		[ ]	✓
	Is coefficient of correlation for MSA less than 0.995?		[ ]	✓
	Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?		[ ]	✓
	ACTION: If yes for any of the above, flag all the associated data as estimated (J).			
A.1.22.4	Was proper quantitation procedure followed correctly as outlined in the SOW on page E-23?	[ ]		✓
	ACTION: If no, note exception under Contract Problem/ Non-Compliance section of the "Data Assessment Narrative", and prepare a separate list.			

* MSA is not required on LCS and prep. blank.

		YES	NO	N/A
A.1.23	Dissolved/Total or Inorganic/Total Analytes -			
A.1.23.1	Were any analyses performed for dissolved as well as total analytes on the same sample(s).	___	[✓]	___
	Were any analyses performed for inorganic as well as total (organic + inorganic) analytes on the same sample(s)?	___	[___]	✓
	NOTE: 1. If yes, prepare a list comparing differences between all dissolved (or inorganic) and total analytes. Compute the differences as a percent of the total analyte only when dissolved concentration is greater than CRDL as well as total concentration. 2. Apply the following questions only if inorganic (or dissolved) results are (i) above CRDL, and (ii) greater than total constituents. 3. At least one preparation blank, ICS, and LCS should be analyzed in each analytical run.			
A.1.23.2	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 10%?	___	[___]	✓
A.1.23.3	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 50%?	___	[___]	✓
	ACTION: If more than 10%, flag both dissolved (or inorganic) and total values as estimated (J); if more than 50%, reject (red-line) the data for both values.			
A.1.24	Form I (Field Blank) -			
	Note: Designate 'Field Blank' as such on Form I.			
A.1.24.1	Circle all field blank values on Form I that are greater than CRDL, (or 2 x IDL when IDL > CRDL).			
	Is field blank concentration less than CRDL (or 2 x IDL when IDL > CRDL) for all parameters of associated aqueous and soil samples?	[___]	✓	___

	YES	NO	N/A
If no, was field blank value already rejected due to other QC criteria?	[ ]	✓	

ACTION: If no, reject (except field blank results) all associated positive sample data less than or equal to five times the field blank value. Reject on Form I's the soil sample results that when converted to ug/L on wet basis are less than or equal to five times the field blank value in ug/L.

A.1.25 Form I, XI, XII (Verification of Instrumental Parameters).

A.1.25.1 Is verification report present for:

	YES	NO	N/A
Instrument Detection Limits (quarterly)?	[✓]		
ICP Interelement Correction Factors (annually)?	[✓]		
ICP Linear Ranges (quarterly)?	[✓]		

ACTION: If no, contact TPO of the lab.

A.1.25.2 Form X (Instrument Detection Limits) - (Note: IDL is not required for Cyanide.)

A.1.25.2.1 Are IDLs present for:

	YES	NO	N/A
all the analytes?	[✓]		
all the instruments used?	[✓]		
For both AA and ICP when both are used for the same analyte?	[ ]		✓

ACTION: If no for any of the above, prepare Telephone Record Log and contact laboratory.

	YES	NO	N/A
A.1.25.2.2 Is IDL greater than CRDL for any analyte?		[✓]	
If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRDL, greater than 5 x IDL.	[ ]		✓

	YES	NO	N/A
Action : If no, flag as estimated all values less than five times IDL of the instrument whose IDL exceeds CRDL.			
A.1.25.3 Form IX (Linear Ranges)			
A.1.25.3.1 Was any sample result higher than high linear range of ICP.	___	[✓]	___
Was any sample result higher than the highest calibration standard for non-ICP parameters?	___	[✓]	___
If yes for any of the above, was the sample diluted to obtain the result on Form I?	[ ]	___	[✓]
ACTION: If no, flag the result reported on Form I as estimated(J).			
A.1.26 Percent Solids of Sediments			
A.1.26.1 Are percent solids in sediment(s): < 50%?	___	[✓]	___
< 10%?	___	[✓]	___
ACTION: If yes, qualify as estimated all the results of a sample that has per cent solids between 10%-50% (i.e. moisture content between 50%-90%). Reject all the results of a sample that has per cent solids less than 10% (i.e. moisture content greater than 90%).			
NOTE: Reject or flag(J) only the sample results that were not previously rejected or flaged due to other QC criteria.			

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

CONTRACT:68-D5-0141 DATE:05/11/98
CASE:26114 SOW NO.:ILM04.0
SDG:MBKL09 EPISODE NO.:33553

INORGANIC METAL FRACTION:

Nine soil/eleven water samples plus two MS/DUP's, one LCSS/LCSW were submitted for ICP, CN and Hg analysis. No major problems occurred during the digestion or analysis of these samples. Please see the DC-1 (Sample Log-In Sheet) for sample conditions and cooler temperatures at receipt. The sample's analyses were completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM04.0 (digestion for ICP analysis)
SWL-IN-203	ILM04.0 (analysis by ICP)
SWL-IN-202	ILM04.0 (analysis of Hg by cold vapor)
SWL-IN-303	ILM04.0 (Cyanide)

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blanks: K, Ag, Na, CN, Fe, Mg, Hg, Sb, Ca, Zn, Al. No action required.

Linearity near the CRDL (CRA & CRI): No problems.

Preparation Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blank: PBS = Na, Zn; / PBW = Ca, Ag, Zn, CN. No action required.

Lab Control Spikes: No problems.

Matrix Spikes: The following elements were outside the control limits of 75-125% recovery: MBKL30S = Sb; MBKL37S = Al, Hg. All associated samples were flagged with a "N" on Form I's. No action required.

Duplicate (LCSD and MSD): The following elements were outside the control limits of 0-20% RPD: MBLK30S = Al, Ba, Ca, Fe, Pb, Mg, Mn, Ni ; MBKL37L = no problems. All associated samples were flagged with a "*" on Form I's. No action required.

Serial Dilution (ICP): The soil/water serial dilution were outside the control limits of 10% for the following elements: MBKL30L = no problems ; MBKL37L = Zn. All associated samples were flagged with an "E" on Form I's. No action required.

Sincerely,

Deborah J. Inman for...
Jason D. Ruckman
Inorganic Program Manager

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

LAB NAME: *American Analytical & Technical Services, Inc.*

LAB CODE: AATS **CONTRACT No.:** 68-D5-0141

SAMPLE ANALYSIS PRICE:

SDG **1 of 2** **RAS No.:** *26114*

SDG No. / First Sample in SDG: MBKL09
(Lowest EPA Sample Number in first shipment of samples) RECEIPT DATE: 08-Apr-98

LastSample in SDG: MBKL14
(Highest EPA Sample Number in last shipment of samples) RECEIPT DATE: 10-Apr-98

EPA Smaple Numbers in the SDG (listed in alphanumeric order by Rec'd date)

1.	MBKL09	33553.01	11.	MBKL34	33553.12
2.	MBKL10	33553.02	12.	MBKL35	33553.13
3.	MBKL11	33553.03	13.	MBKL36	33553.14
4.	MBKL15	33553.05	14.	MBKL37	33553.15
5	MBKL16	33553.06	15.	MBKL39	33553.16
6.	MBKL17	33553.07	16.	MBKL40	33553.17
7.	MBKL18	33553.08	17.	MBKL41	33553.18
8.	MBKL30	33553.09	18.	MBKL43	33553.19
9.	MBKL32	33553.10	19.	MBKL44	33553.20
10.	MBKL33	33553.11	20.	MBKL14	33553.04

NOTE: There are a maximun of 20 field samples in SDG. Attach Traffic Reports to this form in alphanumeric order (i.e., th order listed on this form)

Deborah J. Inman
Inorganic Supervisor

April 17, 1998
Date

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.

1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

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SAMPLE DELIVERY GROUP (SDG)
SAMPLE TAG SUMMARY

LAB CODE: AATS **CONTRACT No.:** 68-D5-0141

SDG 1 of 2 MBKL09 **RAS No.:** 26114

1.	MBKL09	360
2.	MBKL10	367
3.	MBKL11	368
4.	MBKL14	369
5.	MBKL15	370
6.	MBKL16	371
7.	MBKL17	372
8.	MBKL18	373
9.	MBKL30	374
10.	MBKL32	375
11.	MBKL33	376
12.	MBKL34	377
13.	MBKL35	378
14.	MBKL36	379
15.	MBKL37	380
16.	MBKL39	381
17.	MBKL40	382
18.	MBKL41	383
19.	MBKL43	384
20.	MBKL44	385

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MAY 12 1998

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Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.:MBKL09

SOW No.: ILM04

EPA Sample No.	Lab Sample ID
MBKL09	33553.01
MBKL10	33553.02
MBKL11	33553.03
MBKL14	33553.04
MBKL15	33553.05
MBKL16	33553.06
MBKL17	33553.07
MBKL18	33553.08
MBKL30	33553.09
MBKL30D	33553.09D
MBKL30S	33553.09S
MBKL32	33553.10
MBKL33	33553.11
MBKL34	33553.12
MBKL35	33553.13
MBKL36	33553.14
MBKL37	33553.15
MBKL37D	33553.15D
MBKL37S	33553.15S
MBKL39	33553.16

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 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 the Manager's designee, as verified by the following signature.

Signature: _____ Name: Deborah J. Inman for... Jason D. Ruckman

Date: May 11, 1998 Title: Inorganic Program Manager

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

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Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.:MBKL09

SOW No.: ILM04

EPA Sample No.	Lab Sample ID
_MBKL40_____	_33553.17_____
_MBKL41_____	_33553.18_____
_MBKL43_____	_33553.19_____
_MBKL44_____	_33553.20_____

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 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 the Manager's designee, as verified by the following signature.

Signature: Deborah J. Inman Name: Deborah J. Inman for... Jason D.Ruckman

Date: MAY 11, 1998 Title: Inorganic Program Manager

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL09

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): SOIL_ Lab Sample ID: 33553.01

Level (low/med): LOW__ Date Received: 04/08/98

% Solids: _92.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	3760		*	P
7440-36-0	Antimony_	3.1	B	N J	P
7440-38-2	Arsenic__	2.3			P
7440-39-3	Barium___	21.6	B	*	P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium__	26.0			P
7440-70-2	Calcium__	5490		*	P
7440-47-3	Chromium_	114			P
7440-48-4	Cobalt___	2.6	B		P
7440-50-8	Copper___	190			P
7439-89-6	Iron_____	9590		*	P
7439-92-1	Lead_____	47.1		* J	P
7439-95-4	Magnesium	3250		*	P
7439-96-5	Manganese	117		*	P
7439-97-6	Mercury__	0.05	U	J	CV
7440-02-0	Nickel___	85.6		*	P
7440-09-7	Potassium	261	B		P
7782-49-2	Selenium_	0.84	B		P
7440-22-4	Silver___	0.21	U		P
7440-23-5	Sodium___	149	B		P
7440-28-0	Thallium_	0.82	U		P
7440-62-2	Vanadium_	9.1	B		P
7440-66-6	Zinc_____	388			P
	Cyanide__	1.5			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL10

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): SOIL_ Lab Sample ID: 33553.02
Level (low/med): LOW__ Date Received: 04/08/98
% Solids: _89.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2210		*	P
7440-36-0	Antimony_	6.2	B	N J	P
7440-38-2	Arsenic__	1.8	B		P
7440-39-3	Barium___	28.7	B	*	P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium__	281			P
7440-70-2	Calcium__	4300		*	P
7440-47-3	Chromium_	129			P
7440-48-4	Cobalt___	7.5	B		P
7440-50-8	Copper___	109			P
7439-89-6	Iron_____	7300		*	P
7439-92-1	Lead_____	66.4		* J	P
7439-95-4	Magnesium	1910		*	P
7439-96-5	Manganese	82.7		*	P
7439-97-6	Mercury__	0.06	U	J	CV
7440-02-0	Nickel___	82.9		*	P
7440-09-7	Potassium	139	B		P
7782-49-2	Selenium_	0.67	U		P
7440-22-4	Silver___	2.5			P
7440-23-5	Sodium___	224	B		P
7440-28-0	Thallium_	0.90	U		P
7440-62-2	Vanadium_	7.7	B		P
7440-66-6	Zinc_____	144			P
	Cyanide__	5.2			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

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EPA SAMPLE NO.

MBKL11

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): SOIL_ Lab Sample ID: 33553.03
Level (low/med): LOW__ Date Received: 04/08/98
% Solids: _89.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1940		*	P
7440-36-0	Antimony_	1.9	B	N J	P
7440-38-2	Arsenic__	1.9	B		P
7440-39-3	Barium___	14.7	B	*	P
7440-41-7	Beryllium	0.22	U		P
7440-43-9	Cadmium__	34.1			P
7440-70-2	Calcium__	4440		*	P
7440-47-3	Chromium_	30.5			P
7440-48-4	Cobalt___	1.6	B		P
7440-50-8	Copper___	17.1			P
7439-89-6	Iron_____	3850		*	P
7439-92-1	Lead_____	18.9		* J	P
7439-95-4	Magnesium	2500		*	P
7439-96-5	Manganese	79.6		*	P
7439-97-6	Mercury__	0.06	U	J	CV
7440-02-0	Nickel___	15.1		*	P
7440-09-7	Potassium	146	B		P
7782-49-2	Selenium_	0.66	U		P
7440-22-4	Silver___	0.22	U		P
7440-23-5	Sodium___	196	B		P
7440-28-0	Thallium_	0.98	B		P
7440-62-2	Vanadium_	4.5	B		P
7440-66-6	Zinc_____	58.3			P
	Cyanide__	0.90			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL14

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): SOIL_ Lab Sample ID: 33553.04

Level (low/med): LOW__ Date Received: 04/08/98

% Solids: _85.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1460		*	P_
7440-36-0	Antimony_	3.7	B	N	P_
7440-38-2	Arsenic__	2.3			P_
7440-39-3	Barium___	16.4	B	*	P_
7440-41-7	Beryllium	0.22	U		P_
7440-43-9	Cadmium__	291			P_
7440-70-2	Calcium__	9650		*	P_
7440-47-3	Chromium_	81.9			P_
7440-48-4	Cobalt___	1.6	B		P_
7440-50-8	Copper___	83.7			P_
7439-89-6	Iron____	3990		*	P_
7439-92-1	Lead____	112		*	P_
7439-95-4	Magnesium	5880		*	P_
7439-96-5	Manganese	28.9		*	P_
7439-97-6	Mercury__	0.05	U		CV
7440-02-0	Nickel___	44.5		*	P_
7440-09-7	Potassium	114	B		P_
7782-49-2	Selenium_	0.67	U		P_
7440-22-4	Silver___	0.33	B		P_
7440-23-5	Sodium___	197	B		P_
7440-28-0	Thallium_	0.89	U		P_
7440-62-2	Vanadium_	12.6			P_
7440-66-6	Zinc____	133			P_
	Cyanide__	2.9			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. 441

MBKL15

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): SOIL_ Lab Sample ID: 33553.05

Level (low/med): LOW__ Date Received: 04/08/98

% Solids: _73.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	7280		*	P
7440-36-0	Antimony_	12.0	B	N J	P
7440-38-2	Arsenic__	7.3			P
7440-39-3	Barium___	89.7		*	P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium__	6470			P
7440-70-2	Calcium__	19500		*	P
7440-47-3	Chromium_	1950			P
7440-48-4	Cobalt___	6.7	B		P
7440-50-8	Copper___	571			P
7439-89-6	Iron_____	11500		*	P
7439-92-1	Lead_____	485		* J	P
7439-95-4	Magnesium	11100		*	P
7439-96-5	Manganese	175		*	P
7439-97-6	Mercury__	0.06	U	J	CV
7440-02-0	Nickel___	728		*	P
7440-09-7	Potassium	307	B		P
7782-49-2	Selenium_	2.0			P
7440-22-4	Silver___	2.1	B		P
7440-23-5	Sodium___	263	B		P
7440-28-0	Thallium_	1.0	U		P
7440-62-2	Vanadium_	28.8			P
7440-66-6	Zinc_____	840			P
	Cyanide__	122			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL16

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): SOIL_ Lab Sample ID: 33553.06
Level (low/med): LOW__ Date Received: 04/08/98
% Solids: _63.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	4310		*	P
7440-36-0	Antimony_	48.5		N J	P
7440-38-2	Arsenic__	6.5			P
7440-39-3	Barium___	108		*	P
7440-41-7	Beryllium	0.32	U		P
7440-43-9	Cadmium__	357			P
7440-70-2	Calcium__	10800		*	P
7440-47-3	Chromium_	4340			P
7440-48-4	Cobalt___	7.5	B		P
7440-50-8	Copper___	472			P
7439-89-6	Iron_____	12900		*	P
7439-92-1	Lead_____	309		* J	P
7439-95-4	Magnesium	6290		*	P
7439-96-5	Manganese	93.6		*	P
7439-97-6	Mercury__	0.07	U	J	CV
7440-02-0	Nickel___	363		*	P
7440-09-7	Potassium	274	B		P
7782-49-2	Selenium_	0.95	U		P
7440-22-4	Silver___	1.3	B		P
7440-23-5	Sodium___	359	B		P
7440-28-0	Thallium_	1.5	B		P
7440-62-2	Vanadium_	28.2			P
7440-66-6	Zinc_____	608			P
	Cyanide__	28.0			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL17

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): SOIL_ Lab Sample ID: 33553.07
Level (low/med): LOW__ Date Received: 04/08/98
% Solids: _73.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	6710		*	P
7440-36-0	Antimony_	278		N J	P
7440-38-2	Arsenic__	16.4			P
7440-39-3	Barium___	609		*	P
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium__	306			P
7440-70-2	Calcium__	8520		*	P
7440-47-3	Chromium_	2790			P
7440-48-4	Cobalt___	13.7		J	P
7440-50-8	Copper___	408			P
7439-89-6	Iron_____	75400		*	P
7439-92-1	Lead_____	563		* J	P
7439-95-4	Magnesium	5530		*	P
7439-96-5	Manganese	456		*	P
7439-97-6	Mercury__	0.06	U	J	CV
7440-02-0	Nickel___	640		*	P
7440-09-7	Potassium	232	B		P
7782-49-2	Selenium_	5.3			P
7440-22-4	Silver___	0.42	B		P
7440-23-5	Sodium___	246	B		P
7440-28-0	Thallium_	3.8			P
7440-62-2	Vanadium_	98.8			P
7440-66-6	Zinc_____	1020			P
	Cyanide__	9.3			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL18

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): SOIL_ Lab Sample ID: 33553.08

Level (low/med): LOW__ Date Received: 04/08/98

% Solids: _72.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	5720		*	P
7440-36-0	Antimony_	3.6	B	N	P
7440-38-2	Arsenic__	4.2			P
7440-39-3	Barium___	94.6		*	P
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium__	525			P
7440-70-2	Calcium__	14500		*	P
7440-47-3	Chromium_	1890			P
7440-48-4	Cobalt___	9.0	B		P
7440-50-8	Copper___	764			P
7439-89-6	Iron_____	17800		*	P
7439-92-1	Lead_____	653		*	P
7439-95-4	Magnesium	7710		*	P
7439-96-5	Manganese	120		*	P
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	1090		*	P
7440-09-7	Potassium	313	B		P
7782-49-2	Selenium_	2.2			P
7440-22-4	Silver___	1.0	B		P
7440-23-5	Sodium___	241	B		P
7440-28-0	Thallium_	1.3	B		P
7440-62-2	Vanadium_	23.5			P
7440-66-6	Zinc_____	1760			P
	Cyanide__	20.2			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. 445

MBKL30

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): SOIL_ Lab Sample ID: 33553.09

Level (low/med): LOW__ Date Received: 04/08/98

% Solids: _75.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	5010		*	P_
7440-36-0	Antimony_	3.6	B	N J	P_
7440-38-2	Arsenic__	3.4			P_
7440-39-3	Barium___	172		*	P_
7440-41-7	Beryllium	0.36	B		P_
7440-43-9	Cadmium__	463			P_
7440-70-2	Calcium__	18000		*	P_
7440-47-3	Chromium_	1450			P_
7440-48-4	Cobalt___	6.8	B		P_
7440-50-8	Copper___	687			P_
7439-89-6	Iron____	13500		*	P_
7439-92-1	Lead____	267		* J	P_
7439-95-4	Magnesium	9320		*	P_
7439-96-5	Manganese	100		*	P_
7439-97-6	Mercury__	0.07	B	J	CV
7440-02-0	Nickel___	1400		*	P_
7440-09-7	Potassium	368	B		P_
7782-49-2	Selenium_	1.6			P_
7440-22-4	Silver___	0.70	B		P_
7440-23-5	Sodium___	223	B		P_
7440-28-0	Thallium_	1.0	U		P_
7440-62-2	Vanadium_	24.4			P_
7440-66-6	Zinc____	1160			P_
	Cyanide__	28.1			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL32

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): WATER Lab Sample ID: 33553.10
Level (low/med): LOW__ Date Received: 04/08/98
% 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_	~~502~~		N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	20.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	41.4			P
7440-70-2	Calcium__	7820			P
7440-47-3	Chromium_	29.4			P
7440-48-4	Cobalt___	1.4	B		P
7440-50-8	Copper___	44.6		J	P
7439-89-6	Iron____	1080			P
7439-92-1	Lead____	30.5			P
7439-95-4	Magnesium	3400	B		P
7439-96-5	Manganese	39.9			P
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	48.2			P
7440-09-7	Potassium	207	B		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.0	B		P
7440-23-5	Sodium___	930	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	3.7	B		P
7440-66-6	Zinc____	201		E J	P
	Cyanide__	3.0	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL33

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): WATER Lab Sample ID: 33553.11

Level (low/med): LOW__ Date Received: 04/08/98

% 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_	~~122~~	B	N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	10.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	27.0			P
7440-70-2	Calcium__	3450	B		P
7440-47-3	Chromium_	9.0	B		P
7440-48-4	Cobalt___	1.0	U		P
7440-50-8	Copper___	20.7	B		P
7439-89-6	Iron_____	216			P
7439-92-1	Lead_____	4.3			P
7439-95-4	Magnesium	733	B		P
7439-96-5	Manganese	13.4	B		P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	27.5	B		P
7440-09-7	Potassium	176	U		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	776	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	2.4	B		P
7440-66-6	Zinc_____	153		E	P
	Cyanide__	3.8	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL34

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): WATER Lab Sample ID: 33553.12

Level (low/med): LOW__ Date Received: 04/08/98

% 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_	~~212~~		N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	11.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	71.8			P
7440-70-2	Calcium__	3770	B		P
7440-47-3	Chromium_	61.9			P
7440-48-4	Cobalt___	1.1	B		P
7440-50-8	Copper___	81.4		J	P
7439-89-6	Iron_____	417			P
7439-92-1	Lead_____	20.4			P
7439-95-4	Magnesium	1100	B		P
7439-96-5	Manganese	37.8			P
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	193			P
7440-09-7	Potassium	176	U		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	1390	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	2.6	B		P
7440-66-6	Zinc_____	123		E J	P
	Cyanide__	18.4			CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. 449

MBKL35

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): WATER Lab Sample ID: 33553.13
Level (low/med): LOW__ Date Received: 04/08/98
% 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_	~~76.8~~	B	N	P_
7440-36-0	Antimony_	3.0	U		P_
7440-38-2	Arsenic__	3.0	U		P_
7440-39-3	Barium___	7.2	B		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	21.2			P_
7440-70-2	Calcium__	2620	B		P_
7440-47-3	Chromium_	12.0			P_
7440-48-4	Cobalt___	1.1	B		P_
7440-50-8	Copper___	25.7		J	P_
7439-89-6	Iron____	288			P_
7439-92-1	Lead____	4.3			P_
7439-95-4	Magnesium	561	B		P_
7439-96-5	Manganese	14.7	B		P_
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	38.0	B		P_
7440-09-7	Potassium	176	U		P_
7782-49-2	Selenium_	3.0	U		P_
7440-22-4	Silver___	1.2	B		P_
7440-23-5	Sodium___	654	B		P_
7440-28-0	Thallium_	4.0	U		P_
7440-62-2	Vanadium_	2.8	B		P_
7440-66-6	Zinc____	301		E J	P_
	Cyanide__	5.3	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL36

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): WATER Lab Sample ID: 33553.14

Level (low/med): LOW__ Date Received: 04/08/98

% 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_	~~70.1~~	B	N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	10.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	22.4			P
7440-70-2	Calcium__	2560	B		P
7440-47-3	Chromium_	7.4	B		P
7440-48-4	Cobalt___	1.0	U		P
7440-50-8	Copper___	33.9		J	P
7439-89-6	Iron_____	319			P
7439-92-1	Lead_____	3.3			P
7439-95-4	Magnesium	616	B		P
7439-96-5	Manganese	11.5	B		P
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	26.5	B		P
7440-09-7	Potassium	176	U		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.1	B		P
7440-23-5	Sodium___	831	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	2.6	B		P
7440-66-6	Zinc_____	144		E J	P
	Cyanide__	1.4	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL37

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): WATER Lab Sample ID: 33553.15

Level (low/med): LOW__ Date Received: 04/08/98

% 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_	~~7580~~		N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	5.7	B		P
7440-39-3	Barium___	52.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	3.0	B		P
7440-70-2	Calcium__	29700			P
7440-47-3	Chromium_	7.0	B		P
7440-48-4	Cobalt___	6.6	B		P
7440-50-8	Copper___	36.7		J	P
7439-89-6	Iron____	6410			P
7439-92-1	Lead____	11.6			P
7439-95-4	Magnesium	2940	B		P
7439-96-5	Manganese	525			P
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	8.1	B		P
7440-09-7	Potassium	2460	B		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.0	B		P
7440-23-5	Sodium___	14000			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	8.5	B		P
7440-66-6	Zinc____	135		E J	P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

452

EPA SAMPLE NO.

MBKL39

Lab Name: AMERICAN ANALYTICAL Contract: 68-D5-0141

Lab Code: AATS Case No.: 26114 SAS No.: SDG No.: MBKL09

Matrix (soil/water): WATER Lab Sample ID: 33553.16

Level (low/med): LOW Date Received: 04/08/98

% 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	~~9750~~		N	P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	7.4	B		P
7440-39-3	Barium	87.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	21.5			P
7440-70-2	Calcium	17300			P
7440-47-3	Chromium	408			P
7440-48-4	Cobalt	14.0	B		P
7440-50-8	Copper	213		J	P
7439-89-6	Iron	14300			P
7439-92-1	Lead	14.4			P
7439-95-4	Magnesium	5090			P
7439-96-5	Manganese	1010			P
7439-97-6	Mercury	0.10	U	N J	CV
7440-02-0	Nickel	80.4			P
7440-09-7	Potassium	2450	B		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	8330			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	16.6	B		P
7440-66-6	Zinc	124		E J	P
	Cyanide	11.5			CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL40

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): WATER Lab Sample ID: 33553.17

Level (low/med): LOW__ Date Received: 04/08/98

% 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_	~~477~~		N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	35.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	13.2			P
7440-70-2	Calcium__	10600			P
7440-47-3	Chromium_	38.8			P
7440-48-4	Cobalt___	3.8	B		P
7440-50-8	Copper___	103		J	P
7439-89-6	Iron_____	782			P
7439-92-1	Lead_____	4.8			P
7439-95-4	Magnesium	2380	B		P
7439-96-5	Manganese	39.7			P
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	141			P
7440-09-7	Potassium	1180	B		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.0	B		P
7440-23-5	Sodium___	35500			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.8	B		P
7440-66-6	Zinc_____	89.1		E J	P
_____	Cyanide__	12.6			CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL41

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): WATER Lab Sample ID: 33553.18
Level (low/med): LOW__ Date Received: 04/08/98
% 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_	~~443~~		N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium__	45.8	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.4	B		P
7440-70-2	Calcium__	12600			P
7440-47-3	Chromium_	1.2	B		P
7440-48-4	Cobalt___	1.0	U		P
7440-50-8	Copper___	15.7	B		P
7439-89-6	Iron____	266			P
7439-92-1	Lead____	8.2			P
7439-95-4	Magnesium	3010	B		P
7439-96-5	Manganese	55.2			P
7439-97-6	Mercury__	0.10	U	N	CV
7440-02-0	Nickel___	1.0	U		P
7440-09-7	Potassium	1920	B		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	11300			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc____	61.2		E	P
	Cyanide__	1.4	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL43

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09
Matrix (soil/water): WATER Lab Sample ID: 33553.19
Level (low/med): LOW__ Date Received: 04/08/98
% 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_	~~189~~	B	N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	60.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	1.0	U		P
7440-70-2	Calcium__	17300			P
7440-47-3	Chromium_	1.0	U		P
7440-48-4	Cobalt___	1.0	U		P
7440-50-8	Copper___	2.7	B		P
7439-89-6	Iron_____	192			P
7439-92-1	Lead_____	2.4	B		P
7439-95-4	Magnesium	3370	B		P
7439-96-5	Manganese	247			P
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	1.2	B		P
7440-09-7	Potassium	2270	B		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.0	U		P
7440-23-5	Sodium___	20100			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc_____	34.9		E J	P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL44

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL09

Matrix (soil/water): WATER Lab Sample ID: 33553.20

Level (low/med): LOW__ Date Received: 04/08/98

% 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_	~~190~~	B	N	P
7440-36-0	Antimony_	3.0	U		P
7440-38-2	Arsenic__	3.0	U		P
7440-39-3	Barium___	53.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	3.5	B		P
7440-70-2	Calcium__	15300			P
7440-47-3	Chromium_	15.8			P
7440-48-4	Cobalt___	1.0	B		P
7440-50-8	Copper___	31.1		J	P
7439-89-6	Iron____	204			P
7439-92-1	Lead____	2.8	B		P
7439-95-4	Magnesium	3260	B		P
7439-96-5	Manganese	42.4			P
7439-97-6	Mercury__	0.10	U	N J	CV
7440-02-0	Nickel___	3.5	B		P
7440-09-7	Potassium	2210	B		P
7782-49-2	Selenium_	3.0	U		P
7440-22-4	Silver___	1.4	B		P
7440-23-5	Sodium___	12800			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc____	38.9		E J	P
	Cyanide__	26.2			CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

Contract Laboratory Analytical Services Support (CLASS) Record of Communication

Name: Nicole Coene

Date/Time of Contact: 4/8/98 [illegible] PM

Contact/Org. Phone # Deborah Inman, American Analytical & Technical Services, Inc., [illegible]

Contact Received: [x] Phone [ ] Fax [ ] Email [ ] Memo [ ] Other

Initiated By: [ ] EPA [ ] CLASS [ ] Engr. Contr. [x] Lab [ ] Region [ ] SCC [ ] Other

Type of Inquiry: Shipping issue

Contract #: 68-D5-0141 **Case #:** 26114 **SDG:** **Region:** 2

SOW: **Affected Samples:** MBKL14, MBKL16, and MBKL37 **Invoice #:**

Discussion/Issue:

4/8/98 4:30 PM Deborah Inman, AATS, called CLASS to report that the lab did not receive sample MBKL14, eventhough it was listed on the TR COC. They did receive sample MBKL16 which was not listed on the TR COC. And lastly, sample number MBKL[illegible] was not designated for QC analysis, however triple volume was shipped to the lab.

4/9/98 9:00 AM CLASS called Jennifer Feranda, RSCC, to relay the above issues.

Resolution:

4/9/98 10:25 AM Jennifer Feranda called CLASS and stated that sample MBKL14 was shipped and that CLASS should check with the organic labs. Sample MBKL16 is listed on page 2 of 3 of the TR COC. The sampler will try to fax a better copy of the TR to the lab. And sample MBKL37 should be used for QC.

4/9/98 10:30 AM CLASS called John Troost, AATS, LA, and asked if the lab had inadvertently received sample MBKL14.

4/9/98 4:10 PM John Troost found sample MBKL14 and is going to Fed-Ex the sample to AATS using the sampler's Fed-Ex [illegible] number.

4/9/98 4:20 PM CLASS called Deborah Inman and relayed the above resolution.

CLPAS Notification: Yes **Completed Date Time:** 4/15/98 [illegible] AM

Related ROCs: **Date Time:** **W.A.#:** ST&P

Distribution: Region CLASS AOC Work Assign. Man.

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

CLIENT/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

SWL ____ / AAT X In reference to Case / Contract / Proposal 26114

Date of Call: 4-8-98

Laboratory Contact: Deborah Inman

Client Name: DYNCORP

Client Contact: Nicole Coene 1-703-264-9280

Call Initiated By: C Laboratory ____ Region

In reference to data for the following sample number(s):
MBKL14, MBKL16, MBKL37

Summary of Questions/Issues Discussed:
MBKL14 - This sample is missing from the cooler but is on TR
MBKL16 - We have this sample but it is not listed on the TR
MBKL37 - We have triple volume of this sample. It is not listed as DA/QC but we wanted to see if it should be used as one

Summary of Resolution:
on 4-9-98 @ 8:10 Nicole called to verify the matrix of MBKL16 - It is a soil. The sample listed on the TR as MBKL is really MBKL40
on 4-9-98 @ 9:24am The ~~lab~~ region shipped MBKL14. MBKL16 is listed on page 2 of 3 on the 4-9-98 TR's. MBKL37 is to be used as DA/QC

Signature: [signature] Date: 4-10-98

Distribution: (1) Lab Copy, (2) Region Copy, (3) CLASS Copy

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CLIENT/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

SWL X / AAT X In reference to Case / Contract / Proposal 26114

Date of Call: 4-22-98

Laboratory Contact: Deborah Inman

Client Name: DAVCORP

Client Contact: ED DAVID

Call Initiated By: ____ Laboratory X Region

In reference to data for the following sample number(s):
MBKL 16, MBKL17, MBKL35, MBKL36

Summary of Questions/Issues Discussed:
These samples do not appear to the TR's.

Summary of Resolution:
I was able to show Ed David where MBKL35 & MBKL36 were (on TR 2 of 3) But our copy of the TR was so bad that MBKL16 & 17 were not able to locate as per my previous conversation with Nicole Cooper. Ed was going to find out if these two were on the original & talk to his supervisor as to how to proceed.

4-23-98 Ed called back to let us know that the two samples still missing from our TR's were on the original TR 338341. He will fax us a copy of the original to put in our case. Note this in the narrative

Signature: [signature] Date: 4-23-98

Distribution: (1) Lab Copy, (2) Region Copy, (3) CLASS Copy

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

CONTRACT: 68-D5-0141 DATE: 05/11/98
CASE: 26114 SOW NO.: ILM04.0
SDG: MBKL46 EPISODE NO.: 33542, 33553

INORGANIC METAL FRACTION:

Nine soil/seven water samples plus one LCSW and LCSS, and two DUPS and two MS's were submitted for ICP, CN and Hg analysis. No major problems occurred during the digestion or analyses of these samples. Please see the DC-1 (Sample Log-In Sheet) for sample conditions and cooler temperatures at receipt. The samples' analyses were completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-200	ILM03.0/04.0 (digestion for ICP analysis)
SWL-IN-203	ILM03.0/04.0 (analysis by ICP)
SWL-IN-202	ILM03.0/04.0 (analysis of Hg by cold vapor)
SWL-IN-303	ILM03.0/04.0 (Cyanide)

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blanks: CN, k, Fe, Na, Hg, Sb, Ca, Mg, Al, Zn. No action required.

Linearity near the CRDL (CRA & CRI): No problems.

Preparation Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blanks: PBS/Al, Ca, Mg, Zn, Hg; PBW/Cd, Fe, K, Na, Zn, Cn. No action required.

Lab Control Spikes: No problems.

Matrix Spikes: The following elements were outside the control limits of 75-125% recovery: MBKL27S/Sb, As, Cr; MBKL45S/Al. All associated samples were flagged with a "N" on Form I's. No action required. Hg 5/12/98 SP

Duplicates: No problems.

Serial Dilution (ICP): The serial dilutions were outside the control limits of 10% for the following elements: MBKL27L/Zn; MBKL45L/K. All associated samples were flagged with an "E" on Form I's. No action required.

Sincerely,

Deborah J. Inman for...
Jason D. Ruckman
Inorganic Program Manager

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

LAB NAME: *American Analytical & Technical Services, Inc.*

LAB CODE: AATS **CONTRACT No.:** 68-D5-0141

SAMPLE ANALYSIS

SDG **2 of 2** **RAS No.:** *26114*

SDG No. / First Sample in SDG: MBKL46
(Lowest EPA Sample Number in first shipment of samples) RECEIPT DATE: 08-Apr-98

LastSample in SDG: MBKL49
(Highest EPA Sample Number in last shipment of samples) RECEIPT DATE: ~~10~~ 9-Apr-98
DJ 4-22-98

EPA Smaple Numbers in the SDG (listed in alphanumeric order by Rec'd date)

1.	MBKL46	33553.21	11.	MBKL28	33542.09
2.	MBKL47	33553.22	12.	MBKL38	33542.10
3.	MBKL12	33542.01	13.	MBKL42	33542.11
4.	MBKL13	33542.02	14.	MBKL45	33542.12
5	MBKL19	33542.03	15.	MBKL48	33542.13
6.	MBKL20	33542.04	16.	MBKL49	33542.14
7.	MBKL24	33542.05	17.		
8.	MBKL25	33542.06	18.		
9.	MBKL26	33542.07	19.		
10.	MBKL27	33542.08	20.		

NOTE: There are a maximun of 20 field samples in SDG. Attach Traffic Reports to this form in alphanumeric order (i.e., th order listed on this form)

Deborah J. Inman
Inorganic Supervisor

April 17, 1998
Date

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

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SAMPLE DELIVERY GROUP (SDG)
SAMPLE TAG SUMMARY

LAB CODE: AATS CONTRACT No.: 68-D5-0141

SDG 2 of 2 MBKL46 RAS No.: 26114

1.	MBKL46	271
2.	MBKL47	272
3.	MBKL12	273
4.	MBKL13	274
5.	MBKL19	275
6.	MBKL20	276
7.	MBKL24	277
8.	MBKL25	278
9.	MBKL26	279
10.	MBKL27	280
11.	MBKL28	281
12.	MBKL38	282
13.	MBKL42	283
14.	MBKL45	284
15.	MBKL48	285
16.	MBKL49	286
17.		
18.		
19.		
20.		

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL12

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.01
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _97.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1740			P
7440-36-0	Antimony_	0.59	U	N J	P
7440-38-2	Arsenic__	3.0		N J	P
7440-39-3	Barium___	4.8	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium__	797			P
7440-70-2	Calcium__	929	B		P
7440-47-3	Chromium_	30.3		N J	P
7440-48-4	Cobalt___	0.92	B		P
7440-50-8	Copper___	118			P
7439-89-6	Iron_____	390			P
7439-92-1	Lead_____	1.4		J	P
7439-95-4	Magnesium	285	B		P
7439-96-5	Manganese	128			P
7439-97-6	Mercury__	0.05	U	J	CV
7440-02-0	Nickel___	14.5			P
7440-09-7	Potassium	303	B		P
7782-49-2	Selenium_	0.59	U		P
7440-22-4	Silver___	0.20	U		P
7440-23-5	Sodium___	850	B		P
7440-28-0	Thallium_	0.79	U		P
7440-62-2	Vanadium_	2.8	B		P
7440-66-6	Zinc_____	56.1		E	P
	Cyanide__	140			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL13

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.02
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _94.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2460			P
7440-36-0	Antimony_	0.94	B	N	P
7440-38-2	Arsenic__	3.6		N	P
7440-39-3	Barium___	11.8	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium__	112			P
7440-70-2	Calcium__	419	B		P
7440-47-3	Chromium_	350		N	P
7440-48-4	Cobalt___	1.2	B		P
7440-50-8	Copper___	103			P
7439-89-6	Iron_____	4120			P
7439-92-1	Lead_____	8.0			P
7439-95-4	Magnesium	342	B		P
7439-96-5	Manganese	54.1			P
7439-97-6	Mercury__	0.05	U	J	CV
7440-02-0	Nickel___	176			P
7440-09-7	Potassium	681	B		P
7782-49-2	Selenium_	1.7			P
7440-22-4	Silver___	0.20	U		P
7440-23-5	Sodium___	1410			P
7440-28-0	Thallium_	0.81	U		P
7440-62-2	Vanadium_	5.4	B		P
7440-66-6	Zinc_____	48.6		E	P
	Cyanide__	168			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL19

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.03
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _96.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2120			P_
7440-36-0	Antimony_	0.62	U	N J	P_
7440-38-2	Arsenic__	1.5	B	N J	P_
7440-39-3	Barium___	8.4	B		P_
7440-41-7	Beryllium	0.21	U		P_
7440-43-9	Cadmium__	1.1			P_
7440-70-2	Calcium__	441	B		P_
7440-47-3	Chromium_	7.0		N J	P_
7440-48-4	Cobalt___	5.0	B		P_
7440-50-8	Copper___	6.1			P_
7439-89-6	Iron_____	3920			P_
7439-92-1	Lead_____	2.0		J	P_
7439-95-4	Magnesium	527	B		P_
7439-96-5	Manganese	94.7			P_
7439-97-6	Mercury__	0.05	U	J	CV
7440-02-0	Nickel___	10.1			P_
7440-09-7	Potassium	259	B		P_
7782-49-2	Selenium_	0.62	U		P_
7440-22-4	Silver___	0.21	U		P_
7440-23-5	Sodium___	234	B		P_
7440-28-0	Thallium_	0.83	U		P_
7440-62-2	Vanadium_	4.6	B		P_
7440-66-6	Zinc_____	11.1		E	P_
	Cyanide__	0.05	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL20

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.04
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _94.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	409			P
7440-36-0	Antimony_	0.62	U	N J	P
7440-38-2	Arsenic__	1.1	B	N J	P
7440-39-3	Barium___	45.7			P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium__	5.9			P
7440-70-2	Calcium__	3080			P
7440-47-3	Chromium_	133		N J	P
7440-48-4	Cobalt___	0.26	B		P
7440-50-8	Copper___	99.4			P
7439-89-6	Iron____	3590			P
7439-92-1	Lead____	123			P
7439-95-4	Magnesium	39.2	B		P
7439-96-5	Manganese	17.1			P
7439-97-6	Mercury__	0.05	U	J	CV
7440-02-0	Nickel___	150			P
7440-09-7	Potassium	109	B		P
7782-49-2	Selenium_	0.62	U		P
7440-22-4	Silver___	0.21	U		P
7440-23-5	Sodium___	234	B		P
7440-28-0	Thallium_	0.82	U		P
7440-62-2	Vanadium_	1.1	B		P
7440-66-6	Zinc____	14.4		E	P
	Cyanide__	82.7			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

006
467

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL24

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.05
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _95.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2270			P
7440-36-0	Antimony_	0.63	U	N J	P
7440-38-2	Arsenic__	1.7	B	N J	P
7440-39-3	Barium___	9.7	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium__	0.86	B		P
7440-70-2	Calcium__	2460			P
7440-47-3	Chromium_	4.9		N J	P
7440-48-4	Cobalt___	53.0			P
7440-50-8	Copper___	6.4			P
7439-89-6	Iron_____	4460			P
7439-92-1	Lead_____	2.8			P
7439-95-4	Magnesium	575	B		P
7439-96-5	Manganese	100			P
7439-97-6	Mercury__	0.34			CV
7440-02-0	Nickel___	4.4	B		P
7440-09-7	Potassium	308	B		P
7782-49-2	Selenium_	0.63	U		P
7440-22-4	Silver___	1.5	B		P
7440-23-5	Sodium___	202	B		P
7440-28-0	Thallium_	0.84	U		P
7440-62-2	Vanadium_	4.9	B		P
7440-66-6	Zinc_____	12.8		E	P
	Cyanide__	0.07	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

007
468

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL25

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.06
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _95.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2050			P_
7440-36-0	Antimony_	0.63	U	N	P_
7440-38-2	Arsenic__	1.6	B	N	P_
7440-39-3	Barium___	8.9	B		P_
7440-41-7	Beryllium	0.21	U		P_
7440-43-9	Cadmium__	0.21	U		P_
7440-70-2	Calcium__	1400			P_
7440-47-3	Chromium_	3.0		N	P_
7440-48-4	Cobalt___	13.9			P_
7440-50-8	Copper___	5.8			P_
7439-89-6	Iron____	4860			P_
7439-92-1	Lead____	2.4			P_
7439-95-4	Magnesium	495	B		P_
7439-96-5	Manganese	139			P_
7439-97-6	Mercury__	0.15			CV
7440-02-0	Nickel___	2.9	B		P_
7440-09-7	Potassium	322	B		P_
7782-49-2	Selenium_	0.63	U		P_
7440-22-4	Silver___	0.47	B		P_
7440-23-5	Sodium___	203	B		P_
7440-28-0	Thallium_	0.84	U		P_
7440-62-2	Vanadium_	4.6	B		P_
7440-66-6	Zinc____	11.0		E	P_
	Cyanide__	0.05	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL26

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.07
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _93.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	5350			P
7440-36-0	Antimony_	0.64	U	N J	P
7440-38-2	Arsenic__	1.8	B	N J	P
7440-39-3	Barium___	14.4	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium__	40.6			P
7440-70-2	Calcium__	1310			P
7440-47-3	Chromium_	357		N J	P
7440-48-4	Cobalt___	12.8			P
7440-50-8	Copper___	79.8			P
7439-89-6	Iron____	6920			P
7439-92-1	Lead____	6.9			P
7439-95-4	Magnesium	711	B		P
7439-96-5	Manganese	220			P
7439-97-6	Mercury__	0.05	U	J	CV
7440-02-0	Nickel___	1630			P
7440-09-7	Potassium	367	B		P
7782-49-2	Selenium_	0.64	U		P
7440-22-4	Silver___	0.60	B		P
7440-23-5	Sodium___	585	B		P
7440-28-0	Thallium_	0.86	U		P
7440-62-2	Vanadium_	8.8	B		P
7440-66-6	Zinc____	150		E	P
	Cyanide__	2.3			CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. 470

MBKL27

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): SOIL_ Lab Sample ID: 33542.08
Level (low/med): LOW__ Date Received: 04/09/98
% Solids: _89.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	6150			P_
7440-36-0	Antimony_	0.65	U	N J	P_
7440-38-2	Arsenic__	2.3		N J	P_
7440-39-3	Barium___	17.0	B		P_
7440-41-7	Beryllium	0.22	U		P_
7440-43-9	Cadmium__	1.7			P_
7440-70-2	Calcium__	2430			P_
7440-47-3	Chromium_	11.0		N J	P_
7440-48-4	Cobalt___	1.4	B		P_
7440-50-8	Copper___	7.5			P_
7439-89-6	Iron____	6580			P_
7439-92-1	Lead____	22.6			P_
7439-95-4	Magnesium	1300			P_
7439-96-5	Manganese	59.9			P_
7439-97-6	Mercury__	0.06	U		CV
7440-02-0	Nickel___	4.7	B		P_
7440-09-7	Potassium	325	B		P_
7782-49-2	Selenium_	0.65	U		P_
7440-22-4	Silver___	0.22	U		P_
7440-23-5	Sodium___	167	B		P_
7440-28-0	Thallium_	0.86	U		P_
7440-62-2	Vanadium_	12.0			P_
7440-66-6	Zinc____	32.1		E	P_
	Cyanide__	0.07	B		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

010

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EPA SAMPLE NO. 471

INORGANIC ANALYSES DATA SHEET

MBKL28

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141

Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46

Matrix (soil/water): SOIL_ Lab Sample ID: 33542.09

Level (low/med): LOW__ Date Received: 04/09/98

% Solids: _89.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	9240			P_
7440-36-0	Antimony_	0.90	B	N J	P_
7440-38-2	Arsenic__	4.2		N J	P_
7440-39-3	Barium___	19.2	B		P_
7440-41-7	Beryllium	0.22	U		P_
7440-43-9	Cadmium__	0.50	B		P_
7440-70-2	Calcium__	1180			P_
7440-47-3	Chromium_	10.5		N J	P_
7440-48-4	Cobalt___	2.0	B		P_
7440-50-8	Copper___	8.1			P_
7439-89-6	Iron____	0300			P_
7439-92-1	Lead____	20.3			P_
7439-95-4	Magnesium	918	B		P_
7439-96-5	Manganese	77.2			P_
7439-97-6	Mercury__	0.07	B	J	CV
7440-02-0	Nickel___	5.4	B		P_
7440-09-7	Potassium	208	B		P_
7782-49-2	Selenium_	0.65	U		P_
7440-22-4	Silver___	0.22	U		P_
7440-23-5	Sodium___	112	B		P_
7440-28-0	Thallium_	0.86	U		P_
7440-62-2	Vanadium_	17.0			P_
7440-66-6	Zinc____	32.6		E	P_
	Cyanide__	0.06	U		CA

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

011
472

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL38

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): WATER Lab Sample ID: 33542.10
Level (low/med): LOW__ Date Received: 04/09/98
% 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_	~~2820~~		N	P
7440-36-0	Antimony_	4.0	U		P
7440-38-2	Arsenic__	6.9	B		P
7440-39-3	Barium___	56.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	13.8			P
7440-70-2	Calcium__	24900		1	P
7440-47-3	Chromium_	11.8			P
7440-48-4	Cobalt___	2.9	B		P
7440-50-8	Copper___	241			P
7439-89-6	Iron_____	5070			P
7439-92-1	Lead_____	132			P
7439-95-4	Magnesium	4860	B		P
7439-96-5	Manganese	85.8			P
7439-97-6	Mercury__	~~0.10~~	U	N	CV
7440-02-0	Nickel___	9.5	B		P
7440-09-7	Potassium	1790	B	E	P
7782-49-2	Selenium_	5.0	U		P
7440-22-4	Silver___	8.7	B		P
7440-23-5	Sodium___	8780			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	6.3	B		P
7440-66-6	Zinc_____	59.2			P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

012
473

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL42

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): WATER Lab Sample ID: 33542.11
Level (low/med): LOW__ Date Received: 04/09/98
% 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_	~~197~~	B	N	P
7440-36-0	Antimony_	4.0	U		P
7440-38-2	Arsenic__	4.0	U		P
7440-39-3	Barium___	49.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	6.7			P
7440-70-2	Calcium__	16700			P
7440-47-3	Chromium_	2.0	B		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	11.8	B		P
7439-89-6	Iron_____	727			P
7439-92-1	Lead_____	10.4			P
7439-95-4	Magnesium	3600	B		P
7439-96-5	Manganese	47.6			P
7439-97-6	Mercury__	~~0.10~~	U	N	CV
7440-02-0	Nickel___	2.7	B		P
7440-09-7	Potassium	2550	B	E	P
7782-49-2	Selenium_	5.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	14900			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc_____	41.4			P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL45

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): WATER Lab Sample ID: 33542.12
Level (low/med): LOW__ Date Received: 04/09/98
% 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_	~~2880~~		N	P
7440-36-0	Antimony_	4.0	U		P
7440-38-2	Arsenic__	5.3	B		P
7440-39-3	Barium___	56.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	14.6			P
7440-70-2	Calcium__	18300		J	P
7440-47-3	Chromium_	10.4			P
7440-48-4	Cobalt___	2.3	B		P
7440-50-8	Copper___	229			P
7439-89-6	Iron_____	4800			P
7439-92-1	Lead_____	124			P
7439-95-4	Magnesium	4480	B		P
7439-96-5	Manganese	74.7			P
7439-97-6	Mercury__	~~0.10~~	U	N	CV
7440-02-0	Nickel___	7.4	B		P
7440-09-7	Potassium	1770	B	E	P
7782-49-2	Selenium_	5.0	U		P
7440-22-4	Silver___	5.5	B		P
7440-23-5	Sodium___	7270			P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	4.9	B		P
7440-66-6	Zinc_____	44.7			P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

014
475

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL46

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): WATER Lab Sample ID: 33553.21
Level (low/med): LOW__ Date Received: 04/08/98
% 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_	17.0	U	N	P
7440-36-0	Antimony_	4.0	U		P
7440-38-2	Arsenic__	4.0	U		P
7440-39-3	Barium___	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	7.0			P
7440-70-2	Calcium__	59.6	B		P
7440-47-3	Chromium_	1.0	U		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	439			P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	91.0	U		P
7439-96-5	Manganese	1.6	B		P
7439-97-6	Mercury__	~~0.10~~	U	N	CV
7440-02-0	Nickel___	1.0	U		P
7440-09-7	Potassium	41.2	B	E	P
7782-49-2	Selenium_	5.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	118	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc_____	11.0	B		P
	Cyanide__	1.1	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

015
476

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL47

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): WATER Lab Sample ID: 33553.22
Level (low/med): LOW__ Date Received: 04/08/98
% 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_	~~86.7~~	B	N	P
7440-36-0	Antimony_	4.0	U		P
7440-38-2	Arsenic__	4.0	U		P
7440-39-3	Barium___	1.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	2.9	B		P
7440-70-2	Calcium__	119	B		P
7440-47-3	Chromium_	1.0	U		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	334			P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	226	B		P
7439-96-5	Manganese	1.7	B		P
7439-97-6	Mercury__	~~0.10~~	U	N	CV
7440-02-0	Nickel___	1.1	B		P
7440-09-7	Potassium	102	B	E	P
7782-49-2	Selenium_	5.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	140	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc_____	11.0	B		P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

016
477

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL48

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): WATER Lab Sample ID: 33542.13
Level (low/med): LOW__ Date Received: 04/09/98
% 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_	~~48.3~~	B	N	P
7440-36-0	Antimony_	4.0	U		P
7440-38-2	Arsenic__	4.0	U		P
7440-39-3	Barium___	1.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	3.2	B		P
7440-70-2	Calcium__	540	B		P
7440-47-3	Chromium_	1.0	U		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron____	186			P
7439-92-1	Lead____	2.0	U		P
7439-95-4	Magnesium	91.0	U		P
7439-96-5	Manganese	1.5	B		P
7439-97-6	Mercury__	~~0.10~~	U	N	CV
7440-02-0	Nickel___	2.2	B		P
7440-09-7	Potassium	65.8	B	E	P
7782-49-2	Selenium_	5.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	288	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc____	49.9			P
	Cyanide__	1.9	B		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

017
478

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MBKL49

Lab Name: AMERICAN_ANALYTICAL_____ Contract: 68-D5-0141
Lab Code: AATS__ Case No.: 26114 SAS No.: _____ SDG No.: MBKL46
Matrix (soil/water): WATER Lab Sample ID: 33542.14
Level (low/med): LOW__ Date Received: 04/09/98
% 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_	~~29.3~~	~~B~~	N	P
7440-36-0	Antimony_	4.0	U		P
7440-38-2	Arsenic__	4.0	U		P
7440-39-3	Barium___	1.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium__	3.0	B		P
7440-70-2	Calcium__	157	B		P
7440-47-3	Chromium_	1.0	U		P
7440-48-4	Cobalt___	2.0	U		P
7440-50-8	Copper___	2.0	U		P
7439-89-6	Iron_____	135			P
7439-92-1	Lead_____	2.0	U		P
7439-95-4	Magnesium	91.0	U		P
7439-96-5	Manganese	1.1	B		P
7439-97-6	Mercury__	~~0.10~~	U	N	CV
7440-02-0	Nickel___	1.0	U		P
7440-09-7	Potassium	58.4	B	E	P
7782-49-2	Selenium_	5.0	U		P
7440-22-4	Silver___	3.0	U		P
7440-23-5	Sodium___	377	B		P
7440-28-0	Thallium_	4.0	U		P
7440-62-2	Vanadium_	1.0	U		P
7440-66-6	Zinc_____	12.5	B		P
	Cyanide__	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

CLIENT/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

SWL ____ / AAT X In reference to Case / Contract / Proposal 26114

Date of Call: 4-22-98

Laboratory Contact: Deborah Tinnan

Client Name: TYNROP

Client Contact: ED DAVID

Call Initiated By: ____ Laboratory X Region

In reference to data for the following sample number(s):
MBKL49

Summary of Questions/Issues Discussed:
The TR listed the receipt date as 4-10-98 but the TR's have the date as 4-9-98.

Summary of Resolution:
The TR was corrected & faxed to Ed

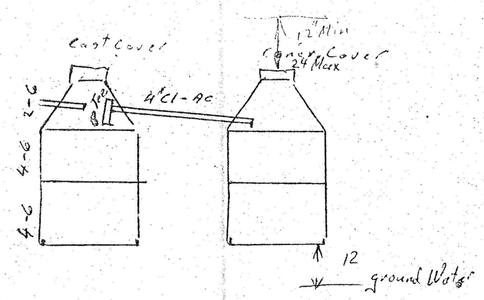
Signature: [signature] Date: 4-22-98

Distribution: (1) Lab Copy, (2) Region Copy, (3) CLASS Copy

REFERENCE NO. 42

REFERENCE NO. 43

Revised Cesspool Plan



SUFFOLK COUNTY DEPARTMENT OF HEALTH

10/30/67 No. PI-46

The proposed arrangements for sewage disposal for _____ in the TN OF BABYLON were approved on the above date in accordance with plans and application on file in the office of the Suffolk County Department of Health.

Consent is hereby given for the filing of these plans on which this endorsement appears in the office of BLDG. DEPT.

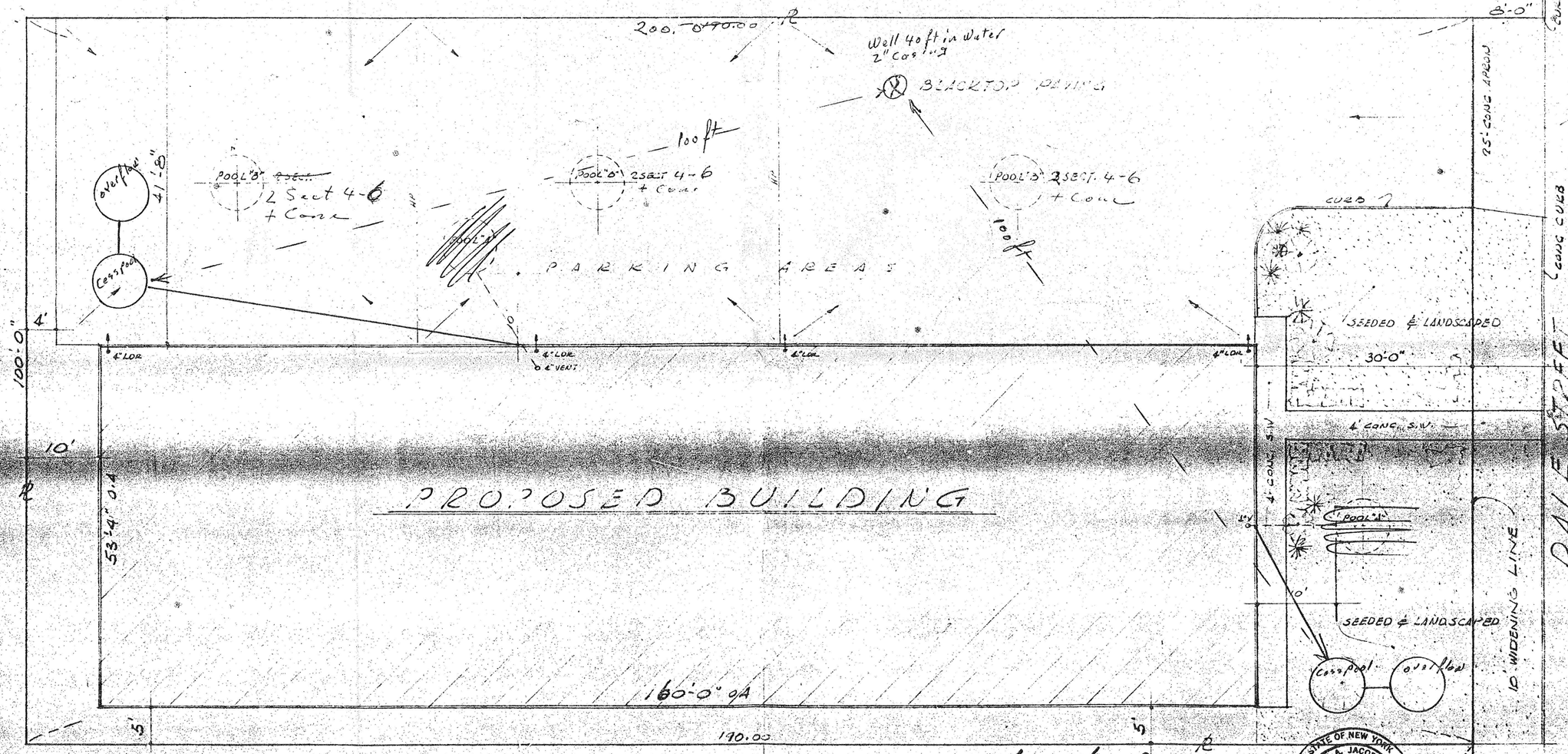
This approval does not include structural features and is granted on condition that the proposed facilities are installed in conformity with these plans.

P.A. Wingler
District Engineer

LEGEND

- PAVED PARKING = 7470 SF
- BUILDING = 8000 GROSS / 7430 NET
- LANDSCAPED = 7930 SF
- UNDEV = 1530
- PLOT AREA = 20,000 SF

Bld. # 4



Revisions to Sanitary Plan
John A. Jacobsen P.E. 10/29/67

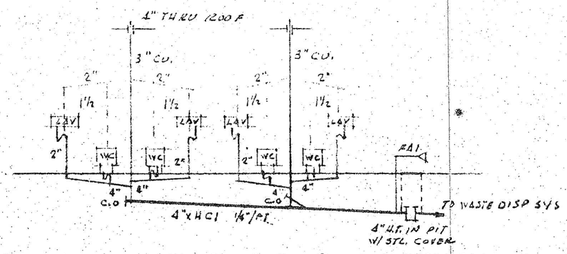
STATE OF NEW YORK
JOHN A. JACOBSEN
NO. 35893
LICENSED PROFESSIONAL ENGINEER

EDISON STREET

BEST COPY 74-2-11

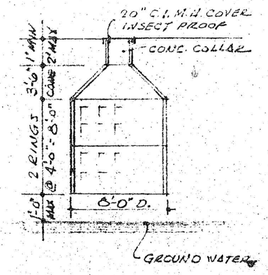
JOHN A. JACOBSEN P.E. CONSULTING ENGINEER 150 OVERLOOK DR., E. ISLIP, N.Y.	MANUFACTURING BLDG
DR. BY: FCB DATE: 6-13-67	JOB # 6712 SHEET: 1 OF 3

66715



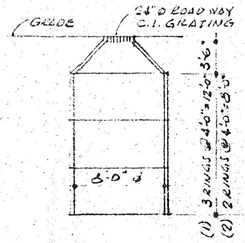
PLUMBING DIAGRAM

NO SCALE



POOL "A"

SANITARY
(2 REQD)



POOL "B"

LEACHING
(3 REQD)

SANITARY DISPOSAL DESIGN

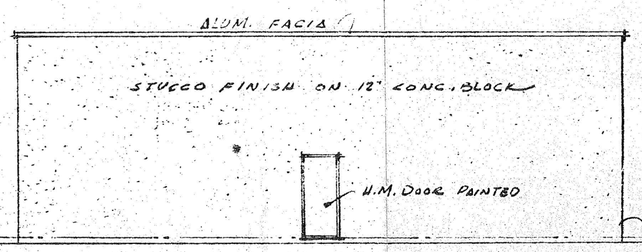
- EACH SYSTEM = 8 EMPLOYEES x 30 G.P.D = 240 GPD
  240/2 = 120 SF
  120/77.8 = 4.7 VERT. FT.
  USE: ONE POOL = 2 SECTIONS 4'-0" HIGH x 8'-0" D

SITE DRAINAGE DESIGN

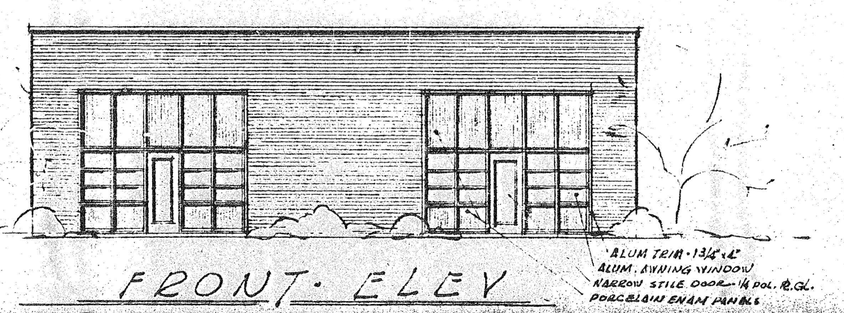
USE	AREA	FACTOR	DRAIN.
• PARKING	8572	0.9	7720
• BUILDING	8000	1.0	8000
• LANDSCPG	1900	0.08	152
• UNDEV.	1530	0.30	459
TOTALS =	20,000		16,330

- TOTAL DRAINAGE AREA $\frac{16,330 \text{ SF} \times .67}{8} = 1369$ CF.
- TOTAL L.F. BASIN $\frac{1369}{50 \text{ CF/FT}} = 27.4$ LF
  $\frac{27.4 \text{ LF}}{4 \text{ VERT. FT.}} = 6.85$ SECTIONS

USE = ONE POOL = 3-4'-0" x 8'-0" D = 3 SECTIONS
= TWO POOLS = 2-4'-0" x 8'-0" D = 4 SECTIONS
TOTAL = 7 SECTIONS

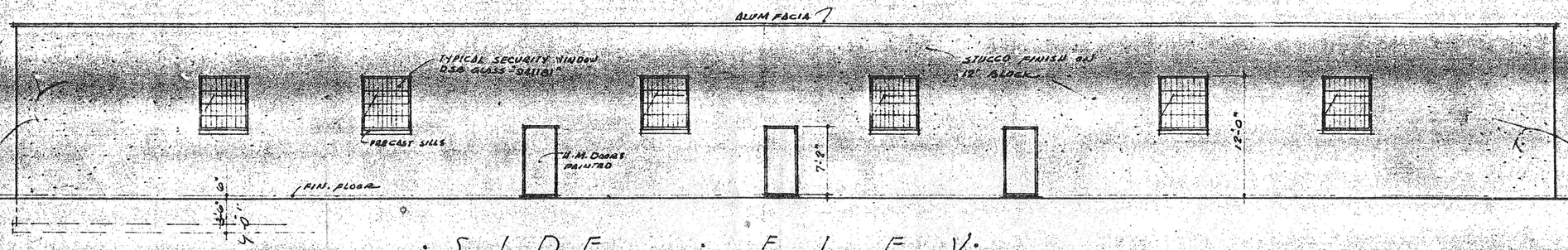


REAR · ELEV

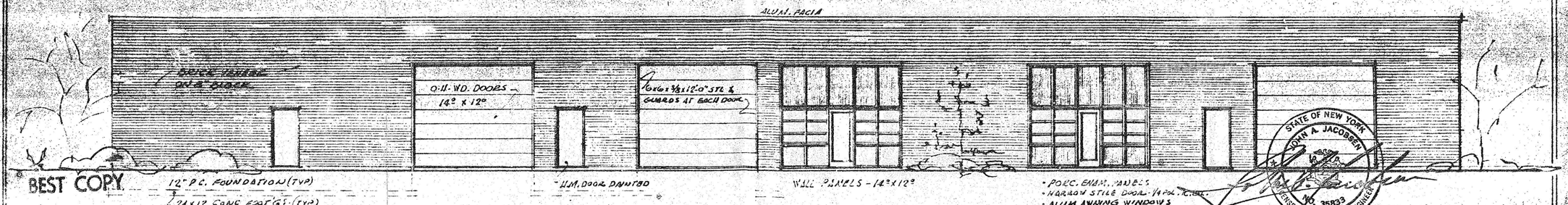


FRONT · ELEV

SCALE: 1/8" = 1'-0"



SIDE · ELEV.



SIDE · ELEVATION

12" P.C. FOUNDATION (TYP)
24 x 12 CONC FOOTGS. (TYP)

STATE OF NEW YORK
JOHN A. JACOBSEN
LICENSED PROFESSIONAL ENGINEER
No. 35833

BEST COPY

74-2-11

SH # 2 of 3

16715

USE	AREA	RUN-OFF FACTOR	DRAINAGE
BUILDING	19,359	1.00	19,359
PAVING	15,241	.90	13,717
320'0" FRONT YARD LANDSG	7,400	.08	432
200'0" FRONT YARD LANDSG	3,000		
OTHER LANDSG		.08	

TOTAL PLOT AREA = 42,000 EQUIV. DRAINAGE = 33,508 SF
33,508 SF × .12 = 4021 CU. FT. REQ'D
4021 CU. FT. ÷ 42 = 96 LIN. FT. REQ'D.
9 EXISTING DRYWELLS @ 12'0" DEEP = 108 LIN. FT. PROVIDED. ∴ EXISTING DRYWELLS ADEQUATE & TO REMAIN.

SUBJECT PROPERTY ZONED = "G6" INDUSTRY

INTENDED USE: INDUSTRIAL

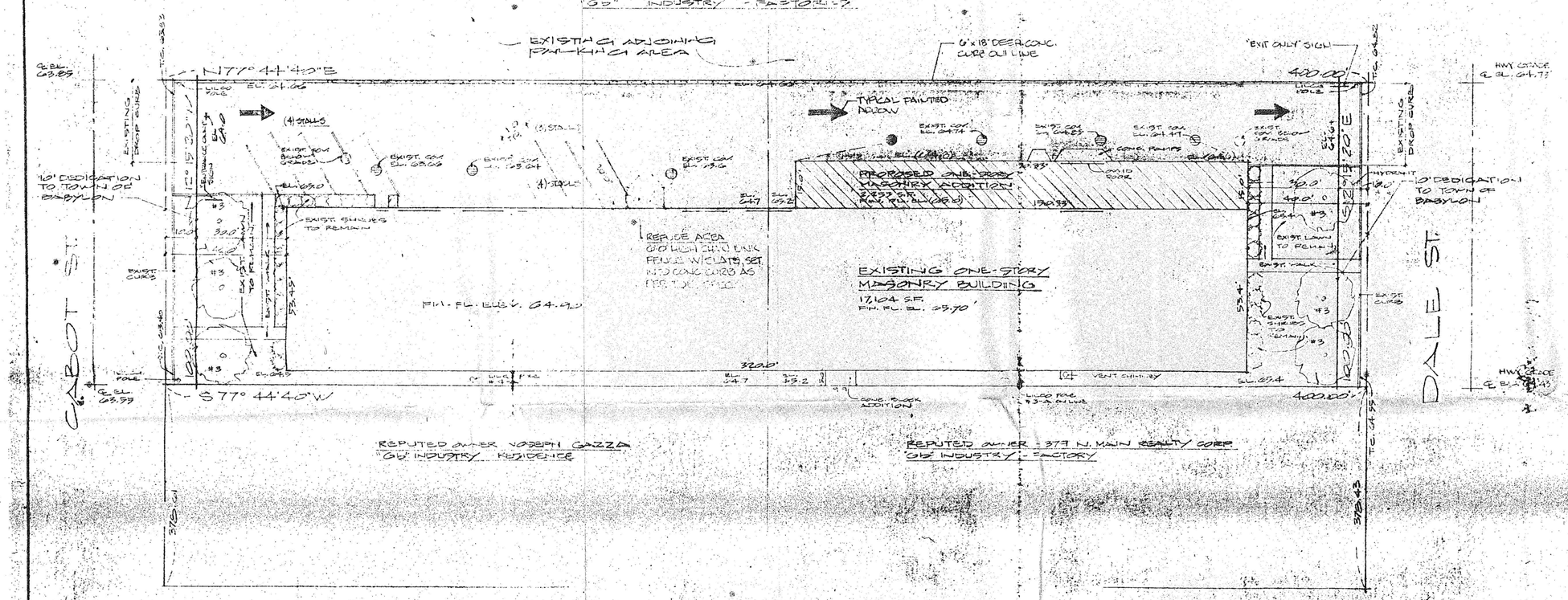
PERCENT OF LOT OCCUPIED = 48%

PARKING CALCULATIONS:
OFFICE = 1,935 ÷ 200 = (10) STALLS REQ'D.
SHOP = 17,424 ÷ 750 = (29) STALLS REQ'D.
TOTAL = (39) STALLS REQ'D
(21) STALLS PROVIDED
SEE JOB # 3093 DWG. # 1-A FOR ADDITIONAL PARKING.

ADDITIONAL PARKING SITE - SEE JOB # 3093, DWG # 1-A

BENCHMARK
U.T. TEL. POLE #5, 300' N/O SUB. PROP. W/S OF STREET.
ELEV. = 65.64

TAX MAP 67 - TAX LOT PT. 30
REPUTED OWNER: 379 N. MAIN REALTY CORP
"G6" INDUSTRY - FACTORY



PLOT PLAN

SCALE 1" = 20'-0"

SITE NOTES:

1. ASPHALT PAVE ALL AREAS SHOWN SHADED & PITCH TO DRYWELLS AS INDICATED. ALL PAVING TO CONFORM TO TOWN OF BABYLON SPECS.
   A. SUBGRADE SHALL BE CONSTRUCTED TO A STABILIZED DEPTH OF 6" & GRADED AS SHOWN ON PLOT PLAN.
   B. BASE COURSE SHALL BE 4" CRUSHED STONE BLEND (COMPACTED).
   C. TOP COURSE SHALL BE 2" ASPHALTIC CONC. (COMPACTED), DESIGNATED AS N.Y.S. ASPHALT TYPE 1A.

   ALL PAVEMENT SHALL BE BUILT ON AN APPROVED GRANULAR BASE, MIN. 4.0" DEEP.

2. CONNECT LEADERS TO DRYWELLS W/6" TRANSITE PIPE, INTER-CONNECT DRYWELLS W/8" TRANSITE PIPE WHERE SHOWN ON PLAN.

3. ALL CONCRETE USED FOR ON SITE CONSTRUCTION (WALKS, CURBS, ETC.) TO BE MIN. 4,000 P.S.I. AFTER 28 DAYS.

4. INSTALL BUILDING OR POLE MOUNTED FLOODLIGHTS SO DIRECTED TO ILLUMINATE PROPERTY BUT NOT TO PROJECT UPON ADJOINING ROADS OR PROPERTIES.

5. ALL PROPOSED ELEVATIONS SHOWN IN PARENTHESIS (60.33), ALL EXISTING ELEVATIONS SHOWN 47.37. ALL ELEVATIONS USGS. E.S. = T.C. = TOP OF CURB, B.C. = BOTTOM OF CURB, T.W. = TOP OF WALK.

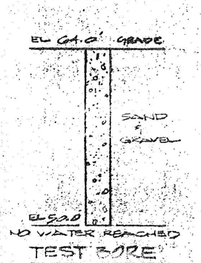
6. THE DEVELOPER SHALL NOTIFY TOWN ENGINEER'S OFFICE PRIOR TO COMMENCEMENT OF PAVING, ON SITE DRAINAGE WORK, BULKHEADING, ETC.

7. ALL SITE INFORMATION TAKEN FROM SURVEY PREPARED BY, HAROLD R. BAUSCH, P.C., LICENSED LAND SURVEYOR # 34383, MAP OF CITY OF BABYLON SHEET 9, PT. LOTS 101 & 102 BLK. NO. 1347, MAP # 240-243 DATED 8-22-80

8. REMOVE & REPLACE ALL DAMAGED STREET CURB, SIDEWALKS & PAVEMENT.

CTM # 74 (SECTION) 2 (BLOCK) 22 (LOT)

BEST COPY



TEST BORE
NOT TO SCALE
DATE: 4.1.81

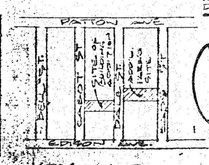
5.11.81
4.25.81
3/25/81

BUILDING CLASSIFICATION	DEPARTMENTAL APPROVAL
NEW YORK STATE BUILDING CODE OCCUPANCY ☐ G1: BUSINESS ☐ G2: MERCANTILE ☒ G3: INDUSTRIAL ☐ G4: STORAGE CONSTRUCTION ☐ 2b NON-COMBUSTIBLE ☐ 4b ORDINARY FIRE HAZARD ☒ LOW HAZARD ☐ MODERATE HAZARD ☐ HIGH HAZARD	

PLANNING BOARD APPROVAL

LANDSCAPING SCHEDULE				
KE	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
1	PIERIS JAPONICA	JAPANESE ANDROMEDA	2 1/2'-3'	
2	TAXUS CUSPIDATA CAPITATA	DENSE SPREADING YEW	1 1/2'-2'	
3	PLATANUS ACERIFOLIA	LARGE LEAF TREE (SYCAMORE)	3 1/2" CAL.	6
4	VINCA MINOR	MYRTLE	4" POTS, 12" O.C.	
5	TSUGA CANADENSIS	CANADIAN HEMLOCK	3'-6'	
6	POA TRIVIALIS (VAR. MERION)	MERION KENTUCKY BLUEGRASS	300	
7	TAXUS CUSPIDATA CAPITATA	UPRIGHT YEW	3'-4'	

INSTALL UNDERGROUND SPRINKLER SYSTEM IN ALL LANDSCAPED AREAS



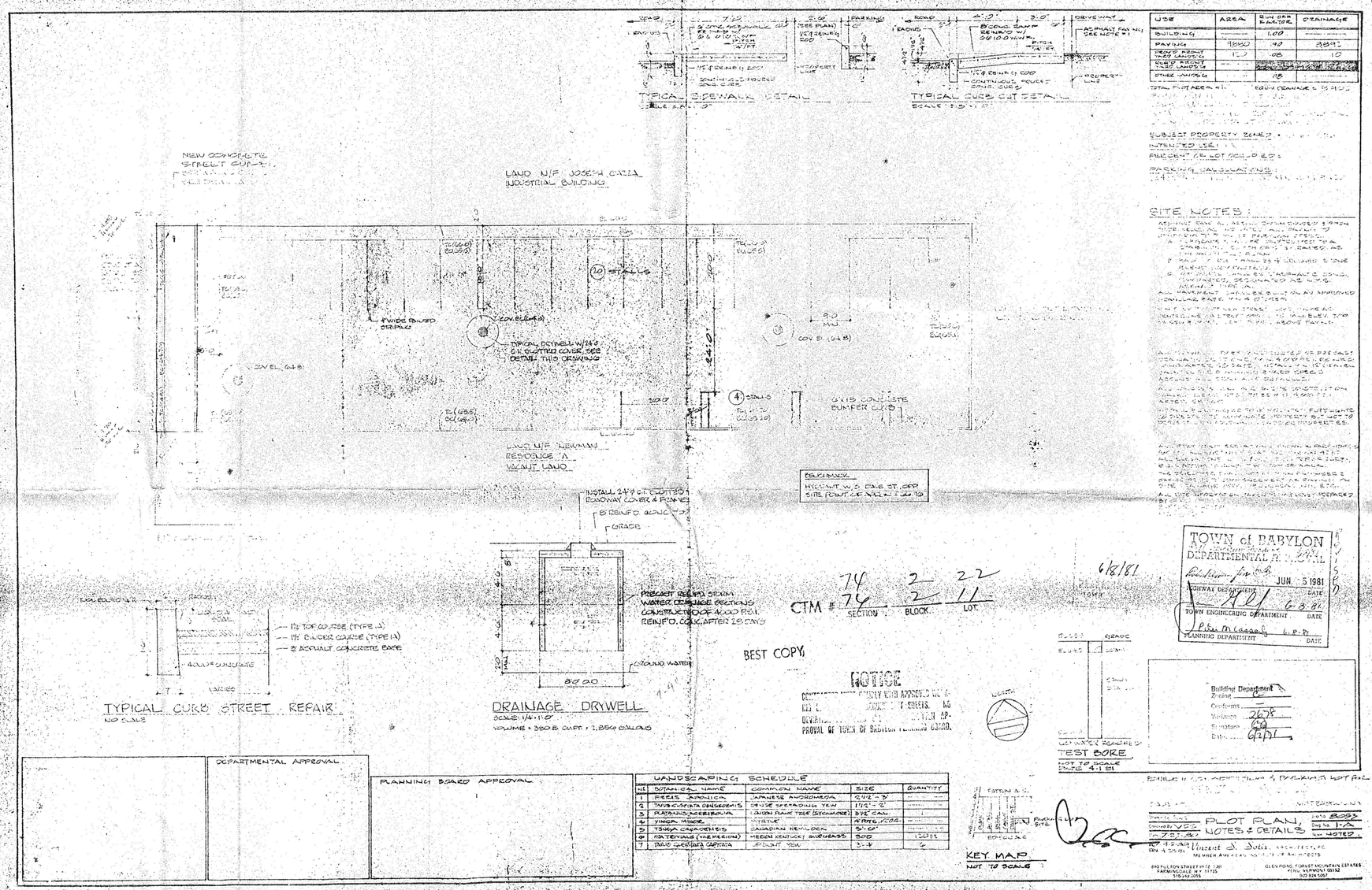
KEY MAP
NOT TO SCALE

BUILDING ADDITION & PARKING LOT FOR
SPECTRUM FUNDING
DALE ST. WEST BABYLON, N.Y.

Drawn By PEL
Checked By VSS
Date 9-2-80
Job No. 3093
Dwg. No. 1-B
Scale NOTED

PLOT PLAN, NOTES & DETAILS

Vincent S. Sotis, ARCHITECT, P.C.
MEMBER AMERICAN INSTITUTE OF ARCHITECTS
640 FULTON STREET (RTE. 109) FARMINGDALE, N.Y. 11735 516-249-0055
GLEN ROAD, FOREST MOUNTAIN ESTATES PERU, VERMONT 05152 802-824-5071



USE	AREA	RUN OFF FACTOR	DRAINAGE
BUILDING		1.00	
PAVING	18960	.42	8000
GROUS AREAS (NOT CONCRETE)	1.0	.05	.10
[illegible]			
[illegible]			
OTHER UNPAVED		.05	

TOTAL PLOT AREA = 1.0 EQUIV DRAINAGE = 8.10

SUBJECT PROPERTY ZONED:

INTENDED USE:

PRESENT USE (IF NOT VACANT):

PARKING CALCULATIONS:

SITE NOTES:

[illegible]

LANDSCAPING SCHEDULE				
NO.	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
1	PIERIS JAPONICA	JAPANESE ANDROMEDA	2½'-3'	[illegible]
2	TAXUS CUSPIDATA DENSEFORMIS	DENSE SPREADING YEW	1½'-2'	[illegible]
3	ACER RUBRUM "HERBERSTII"	RED MAPLE TREE (STREET TREE)	3½" CAL.	[illegible]
4	VINCA MINOR	PERIWINKLE	4" POTS, 1 YEAR	[illegible]
5	TSUGA CANADENSIS	CANADIAN HEMLOCK	5'-6'	[illegible]
6	PACHYSANDRA (NEW MEXICO)	MEXICAN (SOUTHERN) SWEETGRASS	SOD	1000
7	[illegible]	[illegible]	3'-4'	[illegible]

Vincent J. Dolci

WESTON

John Hinge
Originator

PHONE CONVERSATION RECORD

Conversation with:
Name Richard Gabonsw
Company NYSDEC
Address
Phone 518-457-1708

Date 10 / 5 / 98
Time 9:30 AM/PM

☒ Originator Placed Call
☐ Originator Received Call
W.O. No. 04200-022-081-0132

Subject Spectrum Finishing - NYSDEC Plans

Notes: Pending results of the U.S. EPA/WESTON sampling event conducted in April 1998, NYSDEC will make a determination as to whether to do a remedial investigation/feasibility study.

☐ File
☐ Tickle File / /
☐ Follow-Up By:
☐ Copy/Route To:

Follow-Up-Action:

Originator's Initials

RFW 110-4-83

1423-1823 4/16/93

REFERENCE NO. 44

9711-03

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: December 19, 1997

From: Jeff M. Bechtel, OSC
Response and Prevention Branch

To:

B. Sprague, 2ERR-RPB	J. Daloia, 2ERR-RPB
B. Bellow, 2CD	T. Johnson, 5202G
R. Cahill, 2CD-PAT	R. Byrnes, EPA, 2OIG
E. Schaaf, 2ORC-NYCSFB	J. LaPadula, 2ERRD-NYRB
M. Emile, EPA	L. Davis, 2ORC
M. O'Toole, NYSDEC	T. Vickerson, NYSDEC
R. Gaborow, NYSDEC	J. Ascher, NYSDEC
K. Murphy, NYSDEC	START

Subject: Spectrum Finishing Site
West Babylon, Suffolk County, NY

POLREP NO.: Three (3)

II. BACKGROUND

Site No:	JQ
Delivery Order No:	2101-02-010
Response Authority:	CERCLA
NPL Status:	N/A
State Notification:	NYSDEC
Action Memorandum Status:	August 28, 1997
Start Date:	November 4, 1997
Completion Date:	Pending
RCRA ID:	NYD044466910

III. SITE INFORMATION

The Spectrum Finishing Company electroplated aerospace components and operated until 1993 when it filed for Chapter 11 bankruptcy. Subsequently, the company filed for Chapter 7.

The Site is located at 50 Dale Street, West Babylon, Suffolk County, New York. The Site occupies one acre and is situated in an industrial/commercial area.

Within one mile of the Site are residential areas, light industry, commercial properties, public cemeteries and major arterials.

A preliminary assessment of the Site determined that eighteen vats of electroplating wastes, approximately two hundred drums, 10,200 gallons of bulk waste in aboveground storage tanks and some smaller containers of waste chemicals are present on the Site. There are approximately thirty (30) one cubic yard boxes of sludges from the wastewater treatment system. There are also sumps with electroplating wastes located within the building. The floor is covered with spilled material which was tested and found to be either acidic or caustic. The vats and drums are unlabeled.

Two portions of the building have been partitioned off and are leased to local businesses. The Site is not fenced. The utilities are turned off. The building has no functional fire suppression systems.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the PRP nor the state or local agencies have the ability to perform a mitigation. EPA has initiated a CERCLA Removal Action.

2. Removal activities to date

During the week of 12/15/97.

Forty-nine cubic yards of waste corrosive solids containing cyanide were shipped via Environmental Transport Group, Inc. to Envotech Management Services, Inc. In Belleville, Michigan for disposal.

Thirteen un-opened 5 gallon pails of flammable rosin flux were returned to the manufacturer, Alpha Metals in Atlanta, Georgia, for recycling.

T&D bids and waste profiles for the bulk liquids were generated.

The 425 drums were categorized into seventeen waste streams according to the hazcat results. Composite samples of these waste streams were shipped to Accredited Laboratories, Inc. in Carteret, New Jersey for analysis.

The site was secured and demobed until January 12, 1998, while the drum waste streams were analyzed.

Twenty-four hour security remained in place.

3. Enforcement

EPA ORC will pursue negotiations with the PRP for cost recovery.

B. Planned removal activities

Identification, sampling, and disposal of all containerized materials and decontamination of the building.

C. Next Steps

Bids and profiles for the T&D of the drums bulk liquids will be sent out.

Bulk liquids and drums will be shipped off-site for disposal.

D. Key Issues

None

V. COST INFORMATION

The following table contains information on estimated costs for the removal action as of December 19, 1997.

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	$ 200,000	$ 180,734	$ 19,266
START	$ 40,000	$ 8,397	$ 31,603
EPA	$ 105,000	$ 25,600	$ 79,400
TOTAL	$ 345,000	$ 214,731	$ 130,269

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep:___ Further Polreps Forthcoming: X

REFERENCE NO. 45

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: January 19, 1998

From: Jeff M. Bechtel, OSC
Response and Prevention Branch

To:

B. Sprague, 2ERR-RPB	J. Daloia, 2ERR-RPB
B. Bellow, 2CD	T. Johnson, 5202G
R. Cahill, 2CD-PAT	R. Byrnes, EPA, 2OIG
E. Schaaf, 2ORC-NYCSFB	J. LaPadula, 2ERRD-NYRB
M. Emile, EPA	L. Davis, 2ORC
M. O'Toole, NYSDEC	T. Vickerson, NYSDEC
R. Gaborow, NYSDEC	J. Ascher, NYSDEC
K. Murphy, NYSDEC	START

Subject: Spectrum Finishing Site
West Babylon, Suffolk County, NY

POLREP NO.: Four (4)

II. BACKGROUND

Site No:	JQ
Delivery Order No:	2101-02-015
Response Authority:	CERCLA
NPL Status:	N/A
State Notification:	NYSDEC
Action Memorandum Status:	August 28, 1997
Start Date:	November 4, 1997
Completion Date:	Pending
RCRA ID:	NYD044466910

III. SITE INFORMATION

See Polrep #1.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the PRP nor the state or local agencies have the ability to perform a mitigation. EPA has initiated a CERCLA Removal Action.

2. Removal activities to date

During the week of 1/12/98:

The site was remobed on January 12, 1998.

Waste profiles for the bulk liquids were sent to the selected TSDs for approval. A compliance check was conducted on the two TSDs, Norlite and Dupont, which certified that they were in compliance and eligible to receive this waste.

The analytical data for the seventeen waste streams comprising the 425 drums was received and reviewed.

A delivery order modification was issued to Earth Tech on January 13, 1998, to increase the mitigation ceiling from $200,000 to $350,000. This is the total mitigation ceiling authorized under the current action memorandum approved on August 28, 1997.

Site activities consisted of the decontamination of twenty-two steel and eight poly vats using a pressure washer. The PRP made arrangements for the recycling of the steel vats with a local scrap metal dealer, Martin Demasco Company of West Hempstead, NY. Two rolloffs transported thirteen of the vats offsite.

One rolloff of debris was loaded out to the Alder Street Recycling Center in West Babylon, NY.

3. Enforcement

EPA ORC will pursue negotiations with the PRP for cost recovery.

B. Planned removal activities

Identification, sampling, and disposal of all containerized materials and decontamination of the building.

C. Next Steps

Bids and profiles for the T&D of the drums will be sent out.

Bulk liquids and drums will be shipped off-site for disposal.

D. Key Issues

None

V. COST INFORMATION

The following table contains information on estimated costs for the removal action as of January 16, 1998.

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	$ 350,000*	$ 235,258	$ 114,742
START	$ 40,000	$ 9,800	$ 30,200
EPA	$ 105,000	$ 31,500	$ 73,500
TOTAL	$ 495,000	$ 276,558	$ 218,442

* This figure reflects the $150,000 increase committed on January 8, 1998.

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep:___ Further Polreps Forthcoming: X

REFERENCE NO. 46

9711-03

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: January 30, 1998

From: Jeff M. Bechtel, OSC
Response and Prevention Branch

To:

B. Sprague, 2ERR-RPB	J. Daloia, 2ERR-RPB
B. Bellow, 2CD	T. Johnson, 5202G
R. Cahill, 2CD-PAT	R. Byrnes, EPA, 2OIG
E. Schaaf, 2ORC-NYCSFB	J. LaPadula, 2ERRD-NYRB
M. Emile, EPA	L. Davis, 2ORC
M. O'Toole, NYSDEC	T. Vickerson, NYSDEC
R. Gaborow, NYSDEC	J. Ascher, NYSDEC
K. Murphy, NYSDEC	START

Subject: Spectrum Finishing Site
West Babylon, Suffolk County, NY

POLREP NO.: Five (5)

II. BACKGROUND

Site No:	JQ
Delivery Order No:	2101-02-015
Response Authority:	CERCLA
NPL Status:	N/A
State Notification:	NYSDEC
Action Memorandum Status:	August 28, 1997
Start Date:	November 4, 1997
Completion Date:	Pending
RCRA ID:	NYD044466910

III. SITE INFORMATION

See Polrep #1.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the PRP nor the state or local agencies have the ability to perform a mitigation. EPA has initiated a CERCLA Removal Action.

2. Removal activities to date

During the weeks of 1/19 and 1/26/98:

Due to high levels of hexavalent chrome in the bulk liquid waste streams, waste profiles were sent to two alternate TSDs for approval. A compliance check was conducted on the two TSDs, Envotech and Envirite, which certified that they were in compliance and eligible to receive this waste.

The requests for disposal bids for the seventeen drum waste streams were sent to TSD facilities.

Site activities continued with the decontamination of three steel and four poly vats using a pressure washer. Tenty-five steel and 12 poly vats have been cleaned to date. Two rolloffs transported ten of the vats and one lead liner offsite to the Martin Demasco Company in West Hempstead, NY.

One rolloff of debris was loaded out to the Alder Street Recycling Center in West Babylon, NY for a total of four to date.

Fifty-nine drums were overpacked and the contents of forty-one 5 gallon pails were consolidated into four drums. The contents of vat #28 were transfered into five drums. The drums were staged in preparation for shipment.

A mixer was installed on tank #67 to slurry the contents for removal via a vac truck.

Bids were obtained for the replacement of one of the building's overhead garage doors which was damaged when it fell off its tracks.

3. Enforcement

EPA ORC will pursue negotiations with the PRP for cost recovery.

B. Planned removal activities

Identification, sampling, and disposal of all containerized materials and decontamination of the building.

C. Next Steps

Bids and profiles for the T&D of the drums will be sent out.

Bulk liquids and drums will be shipped off-site for disposal.

D. Key Issues

None

V. COST INFORMATION

The following table contains information on estimated costs for the removal action as of January 30, 1998.

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	$ 350,000*	$ 299,440	$ 50,560
START	$ 40,000	$ 14,172	$ 25,828
EPA	$ 105,000	$ 43,300	$ 61,700
TOTAL	$ 495,000	$ 356,912	$ 138,088

* This figure reflects the $150,000 increase committed on January 8, 1998.

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep:___ Further Polreps Forthcoming:_X__

REFERENCE NO. 47

9711-03

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: February 13, 1998

From: Jeff M. Bechtel, OSC
Response and Prevention Branch

To:

B. Sprague, 2ERR-RPB	J. Daloia, 2ERR-RPB
B. Bellow, 2CD	T. Johnson, 5202G
R. Cahill, 2CD-PAT	R. Byrnes, EPA, 2OIG
E. Schaaf, 2ORC-NYCSFB	J. LaPadula, 2ERRD-NYRB
M. Emile, EPA	L. Davis, 2ORC
M. O'Toole, NYSDEC	T. Vickerson, NYSDEC
R. Gaborow, NYSDEC	J. Ascher, NYSDEC
K. Murphy, NYSDEC	START

Subject: Spectrum Finishing Site
West Babylon, Suffolk County, NY

POLREP NO.: Six (6)

II. BACKGROUND

Site No:	JQ
Delivery Order No:	2101-02-015
Response Authority:	CERCLA
NPL Status:	N/A
State Notification:	NYSDEC
Action Memorandum Status:	August 28, 1997
Start Date:	November 4, 1997
Completion Date:	Pending
RCRA ID:	NYD044466910

III. SITE INFORMATION

See Polrep #1.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the PRP nor the state or local agencies have the ability to perform a mitigation. EPA has initiated a CERCLA Removal Action.

2. Removal activities to date

During the weeks of 2/2 and 2/9/98:

The bids for the seventeen drum waste streams were received. Waste profiles were sent to the TSD for approval.

On 2/3/98, 3000 gallons of waste cyanide liquid was shipped via Environmental Transport Group, Inc. to Michigan Recovery Systems in Romulus, MI and on 2/5/98, 2000 gallons of acid liquid was transported via Freehold Cartage to CyanoKem in Detroit, MI for disposal.

Site activities continued with the decontamination of nine steel and four poly vats using a pressure washer. Thirty-four steel and 12 poly vats have been cleaned to date. One rolloff transported nine of the vats offsite to the Martin Demasco Company in West Hempstead, NY for recycling.

The building's overhead garage door which was damaged when it fell off its tracks was replaced.

Funds were transferred as follows: $78,000 from contingency funding, $44,000 from intramural funds and $20,000 from START funds for a total of $142,000 Which was committed to ERCS on February 11, 1998 under delivery order modification #2.

The emptied Baker tanks were demobed and the wooden platform was cut up for disposal. A Bobcat with a hoe attachment was used to remove and solidify the sludge from Vat #67. Sixteen cubic yards of solids were generated from the solidification of vat residues for a total of 24 to date.

3. Enforcement

EPA ORC will pursue negotiations with the PRP for cost recovery.

B. Planned removal activities

Identification, sampling, and disposal of all containerized materials and decontamination of the building.

C. Next Steps

Bids and profiles for the T&D of the drums will be sent out.

Bulk solids and drums will be shipped off-site for disposal.

D. Key Issues

None

V. COST INFORMATION

The following table contains information on estimated costs for the removal action as of February 13, 1998.

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	$ 492,000*	$ 372,811	$ 119,189
START	$ 20,000	$ 18,239	$ 1,761
EPA	$ 61,000	$ 51,900	$ 9,100
TOTAL	$ 573,000**	$ 442,950	$ 130,050

* This figure reflects the $78,000 contingency funding, $44,000 from intramural funds and $20,000 from START funds for a total of $142,000 increase committed to ERCS on February 11, 1998.

** This figure represents the total project ceiling.

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep:___ Further Polreps Forthcoming: X

REFERENCE NO. 48

9711-03

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: February 20, 1998

From: Jeff M. Bechtel, OSC
Response and Prevention Branch

To:

B. Sprague, 2ERR-RPB	J. Daloia, 2ERR-RPB
B. Bellow, 2CD	T. Johnson, 5202G
R. Cahill, 2CD-PAT	R. Byrnes, EPA, 2OIG
E. Schaaf, 2ORC-NYCSFB	J. LaPadula, 2ERRD-NYRB
M. Emile, EPA	L. Davis, 2ORC
M. O'Toole, NYSDEC	T. Vickerson, NYSDEC
R. Gaborow, NYSDEC	J. Ascher, NYSDEC
K. Murphy, NYSDEC	START

Subject: Spectrum Finishing Site
West Babylon, Suffolk County, NY

POLREP NO.: Seven (7)

II. BACKGROUND

Site No:	JQ
Delivery Order No:	2101-02-015
Response Authority:	CERCLA
NPL Status:	N/A
State Notification:	NYSDEC
Action Memorandum Status:	August 28, 1997
Start Date:	November 4, 1997
Completion Date:	Pending
RCRA ID:	NYD044466910

III. SITE INFORMATION

See Polrep #1.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the PRP nor the state or local agencies have the ability to perform a mitigation. EPA has initiated a CERCLA Removal Action.

2. Removal activities to date

During the week of 2/16/98:

The following materials were shipped offsite for disposal: 237 drums were shipped to City Environmental in Detroit, MI, 128 drums went to CycleChem in Elizabeth, NJ, three containers of Thorium 232 were shipped via Radiac Research Corp. to the Chem Nuclear facility in Barnwell, SC, and twenty-six cubic yards of corrosive solids were shipped to Envotech Management Services in Bellville, MI.

The last of the vat solids were solidified and placed into cubic yard boxes. Twenty-three cubic yard boxes containing contaminated debris and corrosive solids remain staged on site.

The foreman injured his right foot on the evening of 2/17, when he stepped into a sump located in the building. The sump had previously been surrounded by drums and the incident occurred during the loadout of the drums. He was taken to the emergency room on 2/18 and xrays revealed a fractured bone in his foot. A cast was placed on the foot. He was placed on inactive status and demobed on 2/20. The sump has been covered with wood to prevent any similar incidents.

The administrative record was placed in the West Babylon Public Library located at 211 Route 109, West Babylon, NY. The public notice of availability was posted in the 2/17/98 edition of Newsday.

3. Enforcement

EPA ORC will pursue negotiations with the PRP for cost recovery.

B. Planned removal activities

Identification, sampling, and disposal of all containerized materials and decontamination of the building.

C. Next Steps

Lab packs will be shipped off-site for disposal.

Building decon will commence.

D. Key Issues

None

V. COST INFORMATION

The following table contains information on estimated costs for the removal action as of February 20, 1998.

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	$ 492,000*	$ 447,685	$ 44,315
START	$ 20,000	$ 19,666	$ 334
EPA	$ 61,000	$ 57,000	$ 4,000
TOTAL	$ 573,000**	$ 524,351	$ 48,649

* This figure reflects the $78,000 contingency funding, $44,000 from intramural funds and $20,000 from START funds for a total of $142,000 increase committed to ERCS on February 11, 1998.

** This figure represents the total project ceiling.

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep:___ Further Polreps Forthcoming: X

REFERENCE NO. 49

97/1-13

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: March 6, 1998

From: Jeff M. Bechtel, OSC
Response and Prevention Branch

To:

B. Sprague, 2ERR-RPB
B. Bellow, 2CD
R. Cahill, 2CD-PAT
E. Schaaf, 2ORC-NYCSFB
M. Emile, EPA
K. Guarino, EPA CID
T. Vickerson, NYSDEC
J. Ascher, NYSDEC
START

J. Daloia, 2ERR-RPB
T. Johnson, 5202G
R. Byrnes, EPA, 2OIG
J. LaPadula, 2ERRD-NYRB
L. Davis, 2ORC
M. O'Toole, NYSDEC
R. Gaborow, NYSDEC
K. Murphy, NYSDEC

Subject: Spectrum Finishing Site
West Babylon, Suffolk County, NY

POLREP NO.: Eight (8)

II. BACKGROUND

Site No:	JQ
Delivery Order No:	2101-02-015
Response Authority:	CERCLA
NPL Status:	N/A
State Notification:	NYSDEC
Action Memorandum Status:	August 28, 1997
Start Date:	November 4, 1997
Completion Date:	Pending
RCRA ID:	NYD044466910

III. SITE INFORMATION

See Polrep #1.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the PRP nor the state or local agencies have the ability to perform a mitigation. EPA has initiated a CERCLA Removal Action.

2. Removal activities to date

During the weeks of 2/23 and 3/2/98:

One rolloff of scrap steel was sent to the local scrap metal dealer, Martin Demasco Company of West Hempstead, NY.

The floors were scraped and swept to remove the deposits of solids. The interior walls and floors of the boiler room, wastewater treatment room, garage, storage room, and both process rooms including the paint booths were pressure washed. The removal of gross contamination from the building surfaces has been completed. Twenty-three hundred gallons of wastewater remain staged on site in two vats awaiting disposal.

Samples of the wastewater were sent out for disposal analysis.

A representative from the NYSDEC was given a site tour and updated on the removal progress.

The following materials were shipped offsite for disposal: spent ppe, twenty-six cubic yards of corrosive solids were shipped to Envotech in Belleville, MI. Eight lab packs were prepared by RemTech Environmental and sent to their facility in Lewisberry, PA.

A ceiling increase action memorandum was signed by the Regional Administrator on March 5, 1998 authorizing a mitigation ceiling increase of $100,000. The total for mitigation is now $592,000 and the total project ceiling is $705,000.

Wipe and chip samples were collected from floor and wall locations throughout the building and sent out for analysis to document the extent of any remaining contamination of the building interior.

The PRP was notified of the demobe on March 5, 1998. Building keys were issued to the PRP.

Site security was discontinued on 3/6/98, utilities were discontinued and all equipment and personnel were demobed.

3. Enforcement

EPA ORC will pursue negotiations with the PRP for cost recovery.

B. Planned removal activities

Identification, sampling, and disposal of all containerized materials and decontamination of the building.

C. Next Steps

The decon water will be shipped off-site for disposal pending receipt of the disposal analysis.

D. Key Issues

None

V. COST INFORMATION

The following table contains information on estimated costs for the removal action as of March 6, 1998.

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	$ 592,000*	$ 495,666	$ 96,334
START	$ 30,000	$ 22,166	$ 7,834
EPA	$ 61,000	$ 60,000	$ 1,000
TOTAL	$ 705,000	$ 577,832	$ 127,168

* A ceiling increase was approved on March 5, 1998, adding $100,000 to the mitigation ceiling and $10,000 to START, raising the total project ceiling to $705,000.

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep:___ Further Polreps Forthcoming: X

REFERENCE NO. 50

0711-03

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT

I. HEADING

Date: June 6, 1998

From: Jeff M. Bechtel, OSC
Response and Prevention Branch

To:

B. Sprague, 2ERR-RPB	J. Daloia, 2ERR-RPB
B. Bellow, 2CD	T. Johnson, 5202G
R. Cahill, 2CD-PAT	R. Byrnes, EPA, 2OIG
E. Schaaf, 2ORC-NYCSFB	J. LaPadula, 2ERRD-NYRB
M. Emile, EPA	L. Davis, 2ORC
K. Guarino, EPA CID	M. O'Toole, NYSDEC
T. Vickerson, NYSDEC	R. Gaborow, NYSDEC
J. Ascher, NYSDEC	K. Murphy, NYSDEC
START	

Subject: Spectrum Finishing Site
West Babylon, Suffolk County, NY

POLREP NO.: Nine (9) and Final

II. BACKGROUND

Site No:	JQ
Delivery Order No:	2101-02-015
Response Authority:	CERCLA
NPL Status:	N/A
State Notification:	NYSDEC
Action Memorandum Status:	August 28, 1997
Start Date:	November 4, 1997
Completion Date:	May 13, 1998
RCRA ID:	NYD044466910

III. SITE INFORMATION

See Polrep #1.

IV. RESPONSE INFORMATION

A. Situation

1. Current situation

Neither the PRP nor the state or local agencies had the ability to perform a mitigation. EPA has completed a CERCLA Removal Action.

2. Removal activities to date

Samples of the wastewater were sent out for disposal analysis.

Representatives from the NYSDEC was given a site tour on March 12, 1998, and updated on the status of the removal action.

Wipe and chip sample data of the interior building surfaces was received and reviewed. The data will be forwarded to the NYSDEC for further consideration.

On April 23, 1998, 2050 gallons of wastewater were shipped to Michigan Recovery Systems in Romulus, Michigan for disposal.

On May 11, 1998, two drums of waste corrosive solids were shipped to Envotech Management Services in Belleville, Michigan for disposal.

This concludes the on-site activities associated with the completion of this removal action.

3. Enforcement

EPA ORC will pursue negotiations with the PRP for cost recovery.

B. Planned removal activities

Identification, sampling, and disposal of all containerized materials and decontamination of the building.

C. Next Steps

The site will be referred back to the NYSDEC to investigate any soil or groundwater contamination.

D. Key Issues

None

V. COST INFORMATION

The following table contains information on estimated costs for the removal action as of June 6, 1998.

	Amount Budgeted	Cost to Date	Remaining Project Funds
ERCS	$ 592,000	$ 519,358	$ 72,642
START	$ 30,000	$ 28,166	$ 1,834
EPA	$ 61,000	$ 61,000	$ 0
TOTAL	$ 705,000	$ 608,524	$ 74,476

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure, which the EPA may include in any claims for cost recovery.

Final Polrep: X Further Polreps Forthcoming: ___

SPECTRUM FINISHING WASTE TABLE			
DATE	MANIFEST	QUANTITY/MATERIAL	DESTINATION
02-03-98	MI 4370081	1 Tank, 3000 Gallons, RQ Hazardous Waste Liquids	Michigan Recovery Systems Inc., Romulus, MI
02-05-98	MI 4370087	1 Tank, 2,067 Gallons, RQ Waste Corrosive Liquids	CyanoKEM, Inc., Detroit, MI
02-17-98	MI 4370105	26 Cubic Yard Boxes, RQ Waste Corrosive Solids	Envotech Mgmt. Services Inc., Belleville, MI
12-17-97	MI 4371321	25 Cubic Yard Boxes, RQ Waste Corrosive Solids	Envotech Mgmt. Services Inc., Belleville, MI
02-18-98	# 64145	1 Containers Radioactive Material	Radiac, Brooklyn, New York
02-18-98	MI 4556366	3 Drums, Hazardous Waste Liquid / Waste Corrosive Liquids	City Environmental Inc., Detroit, MI
02-18-98	MI 4556367	71 Drums, RQ Waste Corrosive Liquids / Sulfuric Acid	City Environmental Inc., Detroit, MI
02-18-98	MI 4556369	20 Drums, RQ Waste Corrosive Liquids / Hazardous Waste Liquids	City Environmental Inc., Detroit, MI
02-18-98	MI 4556376	66 Drums, Waste Corrosive Liquids, Hazardous Waste Liquids, Waste Oxidizing Solids, and Waste Potassium Permanganate	City Environmental Inc., Detroit, MI
02-19-98	NJA 2785657	34 Drums, Hazardous Waste Liquid/Solid, Waste Corrosive Solid and Flammable Liquid	Cycle Chem Inc., Elizabeth, NJ
02-19-98	NJA 2785658	21 Drums, RQ Waste Corrosive Liquid, Hazardous Waste Liquid, and Waste Corrosive Solid	Cycle Chem Inc., Elizabeth, NJ
02-19-98	NJA 2785660	73 Drums, Hazardous Waste Liquid n.o.s.	Cycle Chem Inc., Elizabeth, NJ
02-19-98	MI 4556368	63 Drums, Hazardous Waste Liquid/Solid, Waste Corrosive Liquid/Solid	City Environmental Inc., Detroit, MI
02-19-98	MI 4556371	12 Drums, Waste Nitric Acid, Hazardous Waste Liquid, and Waste Corrosive Liquid	City Environmental Inc., Detroit, MI
03-03-98	MI 4370111	25 Cu. Yd. Boxes, RQ Waste Corrosive Solids	Envotech Mgmt. Services Inc., Belleville, MI
03-03-98	MI 4370122	3 Drums (1 Cu. Yd), RQ Waste Corrosive Solids	Envotech Mgmt. Services Inc., Belleville, MI
03-05-98	PAE 8978782	4 Drums, Waste Aerosols, Waste Caustic Alkali Liquid, Waste Corrosive Liquid, and RQ Waste Toxic Solids	Remtech Environmental Inc., Lewisberry, PA
03-05-98	PAE 8978793	4 Drums, Waste Flammable Liquid, Waste Oxidizing Substances (Solid), and Non DOT/RPA Regulated Liquids	Remtech Environmental Inc., Lewisberry, PA
04-23-98	MI 7131182	1 Tank, 2050 Gallons, RQ Hazardous Waste Liquids	Michigan Recovery Systems Inc., Romulus, MI
05-11-98	MI 7131206	2 Drums, Waste Corrosive Solids	Envotech Mgmt. Services Inc., Belleville, MI

REFERENCE NO. 51

ENVIRONMENTAL CONTROL
JOB NO. BA-902

REPORT

Prepared for

SPECTRUM METAL FINISHING
CORPORATION

50 Dale Street
Pinelawn, N.Y.

Prepared by

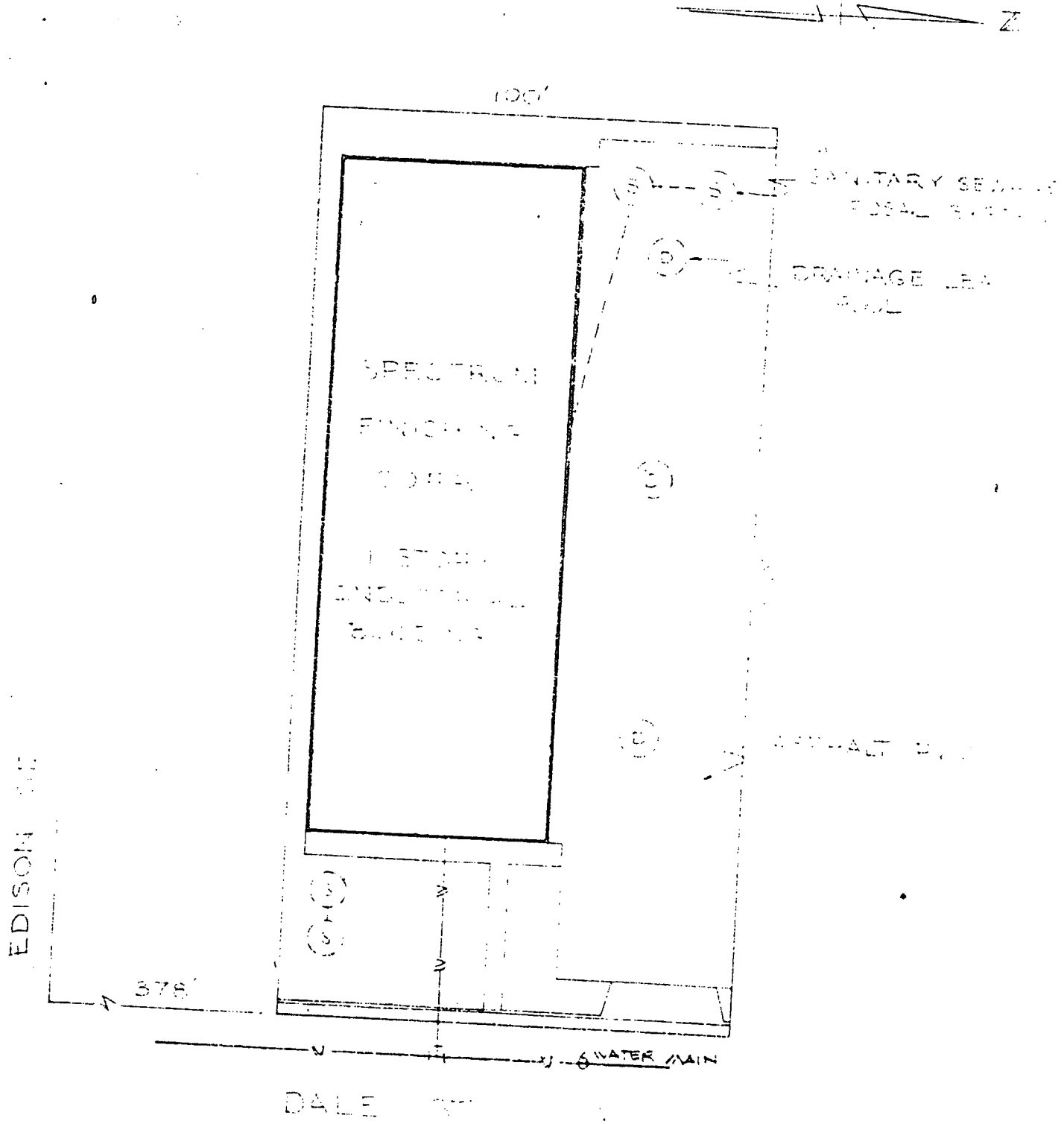
JOHN A. JACOBSEN, ASSOCIATES

1 Shore Lane
Bay Shore, New York

April, 1971

June, 1972

August, 1972



SITE PLAN

SCALE 1" = 30'

THE REPORT ON METAL FINISHING FACILITIES

SPECTRUM FINISHING CORPORATION
50 DALE STREET
PINELAWN, NEW YORK

The Spectrum Finishing Corporation is located at 50 Dale Street, some 378' north of Edison Street in Pinelawn, New York. It is a diverse job shop for metal finishing primarily involved in the aerospace field. All parts are generally small in size.

The domestic, storm and industrial liquid waste are discharged to subsurface drainage structures which in turn percolate the liquid into the ground water via subsurface sand and gravel. Ground water is about 30 feet below grade and flows in a southerly direction. The ground waters are classified 'GA'.

The plant has presently some 40 employees overall operating two shifts. The first shift is from 9 A.M. to 4:30 P.M., involving 25 people in general operation, plus six in the metal finishing area, or a total of 31 during this time period. The second shift runs from 5:30 P.M. to 1:30 A.M., with five people in the general operational areas and four in the metal finishing section, totaling nine for the night shift.

The Suffolk County Water Authority has public water mains in the roadway supplying domestic water to the buildings.

Three basic materials are processed in the metal finishing section. Steel may be put through one or more operations involving cadmium plating, chromate conversion, nickel plating, copper plating and manganese phosphate immersion coating. Aluminum parts can go through chromate conversion coating,

Sulfuric acid anodizing or chromic acid anodizing. Titanium parts will be subjected to nitric acid decontamination.

The rinse water waste falls into two basic classifications: 1) Acid wastes; 2) Caustic and cyanide wastes. The rinse tanks and piping have been so arranged that the caustic and cyanide rinse waters are directly piped to a receiving pit, while other rinse waters go to a wet floor drain system to a separate receiving tank. Process flow patterns are shown in the appendix for all individual metal finishing processes. Also included, is a listing of the contents and dimensions of all tanks, as well as a schematic collection sketch.

Management has estimated the new fog spray and static rinse system has drastically reduced the overall output of rinse waters from previous usage. It is their present estimate that each process line will produce approximately 500 gallons per week, or a total industrial waste output of 1,000 gallons per week. These rinse waters have been previously processed through ion exchange columns. It is herein proposed that batch collection and treatment be used in the future.

ACID WASTE TREATMENT

The acid waste has the potential of containing the following: Iron, Manganese, Chromium, Nichel, Nitrate, Sulfates and excess hydrogen. It is proposed to collect these wastes via the previously described method and pump them to a concrete treatment tank.

When a proper volume is established, sulfuric acid will be added to

reduce the batch to a pH 2.5. Reduction of the hexavalent chromium will be accomplished by addition of sodium metabisulfite. Air agitation will be used for mixing and the reduction completion will be controlled by a negative diphenylcarbazide reaction. This will indicate all hexavalent chromium has been converted to the trivalent state. Addition of caustic will then be undertaken to raise the batch to pH 8.5. After adequate mixing, the batch will then be allowed to settle. Preparatory to decanting the supernatent, the batch will be tested for chromium, iron, manganese, nickel and pH. If the batch is found to be within discharge standards, the supernatent will be decanted to the leaching facility.

Sludge produced will be recycled with subsequent batches until such time that it is determined to be excessive. At this time, it will be removed from the treatment tank by scavenger service.

An alternate hexavalent chromium reduction procedure will be used on occasions of unavailability of excess sulfuric acid. This process will involve the use of sodium hydrosulfite. This compound has been demonstrated to effectively reduce hexavalent to trivalent chromium without the depression to pH 2.5. All other items of the process will remain the same as previously described.

CYANIDE WASTES

The cyanide and alkaline wastes will be collected separately and pumped to a separate 2,500 gallon concrete treatment tank. When an adequate

batch is collected, caustic soda will be added to maintain the system at pH 11. Sodium hypochlorite will then be added with agitation until a free chlorine residual is maintained for a minimum of 60 minutes. This will completely oxidize the cyanide. The control for this phase of treatment will be the use of the orthotolidine test to demonstrate free residual chlorine.

The system will then be adjusted to pH 8.5 to allow for precipitation of the metals copper and cadmium. Agitation will be maintained in order to insure complete mixing and then the system brought to quiescence to allow sedimentation to occur. The supernatent will then be tested for cadmium and copper. When the batch meets discharge requirements, the supernatent will be decanted to the existing leaching facility.

Sludge will be recycled in the system in subsequent batches until it is determined to be too high a volume, at which time it will be removed by scavenger service for disposal.

APPENDIX: Pages 6-15

TANK INFORMATION

NO.	DEMENSIONS	NAME	CONTENTS
1	3' x 4' x 8'	Cadmium Plating Bath	Cd: 2.6-4.5 oz/gal; NaCn:11.7-20.2 oz/gal; Na OH:1.9-3.4 oz/gal
2	3' x 4' x 6'	Water Rinse	Water
3	3' x 4' x 6'	Cadmium Plating Bath	Cd:2.6-4.5 oz/gal; CaCN:11.7-20.2 oz/gal; NaOH:1.9-3.4 oz/gal
4	2' x 2' x 2'	Nickel Strike	Ni cl_2:30-34 oz/gal Hcl 14-18 oz/gal
5	3' x 3' x 3'	Nickel Plate	ToT Ni: 9-15 oz/gal; H_3BO_3:4-6 oz/gal; pH 2.8-4.5
6.	3' x 4' x 6'	Alkaline Cyanide Cleaner	Enthone No 114:10-25 oz/gal; NaCN 8-16 oz/gal
7	3' x 4' x 6'	Water Rinse	Water
8	3' x 4' x 6'	Copper Plate	ToT Cu: 2-4 oz/gal;NaCN:5-2.0 oz/gal; Rochelle Salt: 4-12 oz/gal NaOH:3-5 oz/gal; pH 12.2-13.0
9	2' x 2' x 2 1/2'	Copper Strip	NaCN:10-14 oz/gal
10	2' x 2' x 2 1/2'	Nickel Acetate Seal	Ni $(CH_3COO)_2$: .4-.7 oz/gal pH 5.3-5.5
11	2' x 2' x 2 1/2'	Dow 7 (Chromate Coating for Magnesium)	$Na_2Cr_2O_7$:1-1.5 lbs/gal pH 4.1-5.5
12	2 1/2' x 3' x 3'	Black Oxide on Steel	NaOH: 4 lbs/gal
13	4' dia x 7'	Chromic Acid Anodize	ToT Cr O_3:6-14.4 oz/gal; PH .3-.9; Na_2Co_5:6-7 oz/gal NaOH:1.3-1.6 oz/gal
14	2 1/2' x 3' x 3'	Bronze Plating Tank	Tot Cu:3.2 - 3.7 oz/gal; Sn:1.6-1.9 oz/ gal; NaCN 1.9-2.9 oz/gal; Rochelle Salt:6.7-9.3 oz/gal
15	2 1/2' x 3' x 3'	Phosphate Coating on Steel	ToT: H_3PO_4: 3%
16	3' x 3' x 2 1/2'	Hydrochloric Acid	H Cl: 3-6 normal
17	3' x 4' x 3'	Chromate Coating for Cadmium	$Na_2Cr_2O_7$:1-4 oz/gal;H_2SO_4:.5%

Spectrum - Job #7103

NO.	DEMENSIONS	NAME	CONTENTS
18	3' x 4' x 8'	Water Rinse	Water
19	4' x 3' x 3'	Nitric Acid	HNO_3:40-55%
20	2 1/2' x 5' x 4'	Vapor Degreaser	T.C. ETHyLENE;pH:7.0
21	3' x 4' x 3'	Hot Water Rinse	Hot Water
22	3' x 4' x 6'	Hot Water Seal	Hot Water
23	4' x 4' x 14'	Chromaic Acid Anodize	ToT. CrO_3:6-14.4 oz/gal pH:.3-.9
24	8' x 3' x 3'	Cadmium Plating Bath	Na_2CO_3:5.0 oz/gal:Fe:100 ppm max; NaCN:13-17 oz/gal ToT.Cd:2.8-3.2 oz/gal; ToT Ti:55-80 ppm
25	3' x 4' x 3'	Water Rinse	Water
26	3' x 3' x 3'	Hot Water Rinse	WATER Hot Water
27	5' x 3' x 3'	Flourboric Acid	H $BF_4$2.7-5.4 oz/gal
28	3' x 5' x 3'	Water Rinse	Water
29	4' x 4' x 18'	Sulfuric Acid Anodize	Free H_2SO_4:22-26.6 oz/gal
30	3' x 4' x 4'	Sodium Dichromate Seal	$Na_2Cr_2O_7$:6.7-8.7 oz/gal;pH:5.0-6.5
31	3' x 6' x 4'	Chromate Coating on Aluminum	Alodine 1200: 1-3 oz/gal pH 1.5-2.0
32	1 1/2' x 3 1/2' x 4'	Black Dye	Sandoz: Aluminum Black: 10 gm/lb; pH 6.0 - 7.2
33	2' x 2' x 2 1/2'	Red Dye	SanDoz: Aluminum Bordeauz 2R:2gm/lb; pH: 6.0-7.0
34	3 3/4' x 3 3/4' dia.	Electroless Nickel	ToT Ni: 1.1-1.4 oz/gal;pH:4.5-4.8
35	2' x 2' x 2'	Gold Dye	Sandoz: Aluminum gold: 2 gm/lb;pH:6.0-7.0

NO.	DEMENSIONS	NAME	CONTENTS
36	3' x 4' x 6 1/2'	Non Etch Cleaner	Ridoline No. 53: 1-3 oz/gal
37	2' x 3' x 2 1/2'	Water Rinse	Water
38	3' x 4' x 6'	Deoxidizer	Deoxidizer 4-14:25-35 oz/gal; HNO_3:7-13%
39	2' x 2' x 2 1/2'	Water Rinse	Water
40	3' x 4' x 2 1/2'	Caustic Etch	NaOH: 6 oz/gal
41	2 1/2' x 2 1/2' x 2 1/2'	Zincate	Enthone Alumon-D:32-42 Be^2
42	2' x 3' x 3'	Cadmium Strip	NH_4NO_3:10-20 oz/gal
43	2' x 3' x 2'	Alodine 600	Alodine 600: 1-1.5 oz/gal;pH:1.3-1.8

REFERENCE NO. 52

Handbook of Environmental Contaminants:

A Guide for Site Assessment

Chris L. Shineldecker

LEWIS PUBLISHERS
Boca Raton Ann Arbor London Tokyo

Library of Congress Cataloging-in-Publication Data

Shineldecker, Chris L.
Handbook of environmental contaminants: A guide for site assessment / Chris L. Shineldecker.
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Includes bibliographical references and index.
1. Pollutants--Analysis. 2. Hazardous wastes--Environmental aspects. 3. Factory and trade waste--Environmental aspects. I. Title.
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LEWIS PUBLISHERS, INC.
121 South Main Street, Chelsea, Michigan 48118

PRINTED IN THE UNITED STATES OF AMERICA 3 4 5 6 7 8 9 0

Printed on acid-free paper

TO MY WIFE JANICE,
FOR SHARING HER DREAMS WITH ME

Electrodes

Raw Materials, Intermediate Products, Final Products, and Waste Products Generated During Manufacture and Use:

- Graphite
- Selenium
- Titanium

Electroluminescent Coatings

Raw Materials, Intermediate Products, Final Products, and Waste Products Generated During Manufacture and Use:

- Phosphorus

Electroplating

General Types of Associated Materials:

- Abrasives
- Acids
- Alkalis
- Chlorinated waxes
- Degreasers
- Detergents
- Gasoline
- Lubricants
- Metal cleaners
- Naphtha
- Petroleum fuels
- Soaps
- Soluble oils
- Solvents
- Waste oils

Raw Materials, Intermediate Products, Final Products, and Waste Products Generated During Manufacture and Use:

- Aluminum
- Ammonia
- Arsenic
- Arsine
- Asbestos
- Boron
- Chlorides
- Chromic acid
- Chromium
- Cobalt
- Copper
- Cyanides
- Dichloroethane
- Formic acid
- Germanium
- Heavy metals
- Hydrochloric acid
- Hydrogen cyanide
- Iron
- Lead
- Mercury
- Molybdenum
- Nickel
- Nitrates
- Nitrogen
- Phosphoric acid
- Platinum
- Potassium hydroxide
- Silver
- Sulfate
- Sulfuric acid
- Triethanolamine
- Zinc

Other Associated Materials:

- Ammonia
- Benzene
- Carbon disulfide
- Chloroform
- Chromic acid
- Dichloroethene
- Ethyl benzene
- Hexane
- Hydrogen chloride
- Perchloroethene
- Polychlorinated biphenyls
- Tetrachloroethene
- Toluene
- Trichloroethane
- Trichloroethene
- Xylenes

Elemi

General Types of Associated Materials:

- Acetates

Embalming

General Types of Associated Materials:

- Acids
- Alkalis
- Oil of cinnamon
- Oil of clove

Raw Materials, Intermediate Products, Final Products, and Waste Products Generated During Manufacture and Use:

- Antimony
- Arsenic
- Bacteria
- Barium
- Cadmium
- Chromium
- Cobalt
- Formaldehyde
- Lead
- Mercury
- Methyl alcohol
- Nickel
- Phenols
- Thymol
- Zinc

Emulsifying Agents

Raw Materials, Intermediate Products, Final Products, and Waste Products Generated During Manufacture and Use:

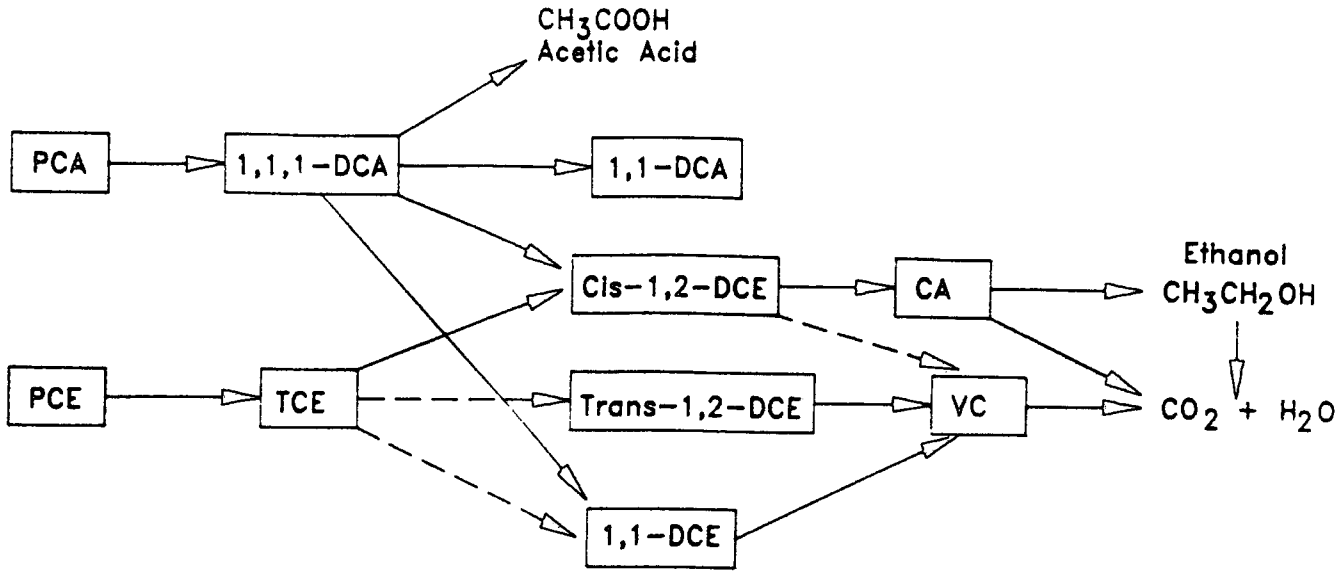
- Dioxane
- Ethanolamines
- Ethyl benzene
- Ethylenediamine
- n-Butylamine

Enamels

General Types of Associated Materials:

- Pigments
- Solvents

REFERENCE NO. 53



MAJOR MECHANISM

BIODEGRADATION

↓

ABIOTIC ELIMINATION

BIODEGRADATION

↓

FOOTNOTES

— — — — MINOR PATHWAY

Cis-1,2-DCE GENERATED AT APPROXIMATELY 30 TIMES THE CONCENTRATION OF Trans-1,2-DCE AND BY A FACTOR OF 25:1

PCA	=	TETRACHLOROETHANE
1,1,1-TCA	=	1,1,1-TRICHLOROETHANE
1,1 DCA	=	1,1-DICHLOROETHANE
Cis-1,2-DCE	=	Cis-1,2-DICHLOROETHENE
CA	=	CHLOROETHANE
PCE	=	TETRACHLOROETHENE
TCE	=	TRECHLOROETHENE
Trans-1,2-DCE	=	Trans-1,2-DICHLOROETHENE
VC	=	VINYL CHLORIDE
1,1-DCE	=	1,1-DICHLOROETHENE

REFERENCE: HAZARDOUS MATERIAL CONTROL JULY/AUGUST 1990

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CIRCUITRON CORPORATION SITE
EAST FARMINGDALE FOCUSED FEASIBILITY STUDY NEW YORK

WESTON

FIGURE

TRANSFORMATIONS OF CHLORINATED ALIPHATIC HYDROCARBONS

D. MAC	4/20/04	1	6800
1" = 1	04200-019-021	1	1

REFERENCE NO. 54

cc: SPDES File
Region 1 - Ref. #47-0692
Suffolk Co. Dept. Env. Control
Mr. Quinn - BIP

Application No. : NY 008 5561

Name of Permittee : SPECTRUM FINISHING CORP.

Effective Date : August 8, 1975

Expiration Date : August 8, 1980

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) DISCHARGE PERMIT

Special Conditions
(Part I)

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972 (33 U.S.C. § 1251 et. seq.) (hereinafter referred to as "the Act").

Spectrum Finishing Corp.
(Full Name of Permittee)

is authorized by George K. Hansen, P.E., Chief, PDES Permit Section
(Designated Representative of Commissioner of the Department of Environmental Conservation)

to discharge from 50 Dale Street
(Street Address of Discharging Facility)
Babylon, (Babylon-T)

New York 11702 (Suffolk -C)

to Ground Water - Class GA
(Name of Receiving Waters)

in accordance with the following special and general conditions:

The specific effluent limitations and other pollution controls applicable to the discharge permitted herein are set forth in the special conditions. Also set forth are self-monitoring and reporting requirements. Unless otherwise specified, the permittee shall submit original copies of all reports to the Central Office and the appropriate Regional Office of the Department of Environmental Conservation and the EPA Region II Regional Administrator. Except for data determined to be confidential under Section 17-0805 of the Environmental Conservation Law or Section 308 of the Act, all such reports shall be available for public inspection at the offices of the Department of Environmental Conservation and the Regional Administrator of EPA Region II. Knowlingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 71-1933 of the Environmental Conservation Law or Section 309 of the Act.

Final Effluent Limitations

During the period beginning EDP (Give Date) and lasting until the date of expiration of this permit, discharges from outfalls 001,002 (Specify Outfall Numbers) shall be limited and monitored by the permittee as specified below:

(a) The following shall be limited and monitored by the permittee as specified:

Outfall Number	Effluent Characteristic	Discharge Limitation in kg/day (lbs./day) Daily Average	Daily Maximum	Other Limitations (Specify Units) Average	Maximum	Monitoring Requirements Measurement Frequency	Sample Type
001) 002)	Sanitary Waste Only - No monitoring required. Maximum Flow 1000 gpd.						
a) b)	Above ground Industrial Waste Holding Tanks - No discharge to surface or ground allowed at any time. Contents to be removwd by approved industrial waste scavenger only. Waste removal records must be maintained for inspection at any time.						

Permittee also subject to attached schedule A.

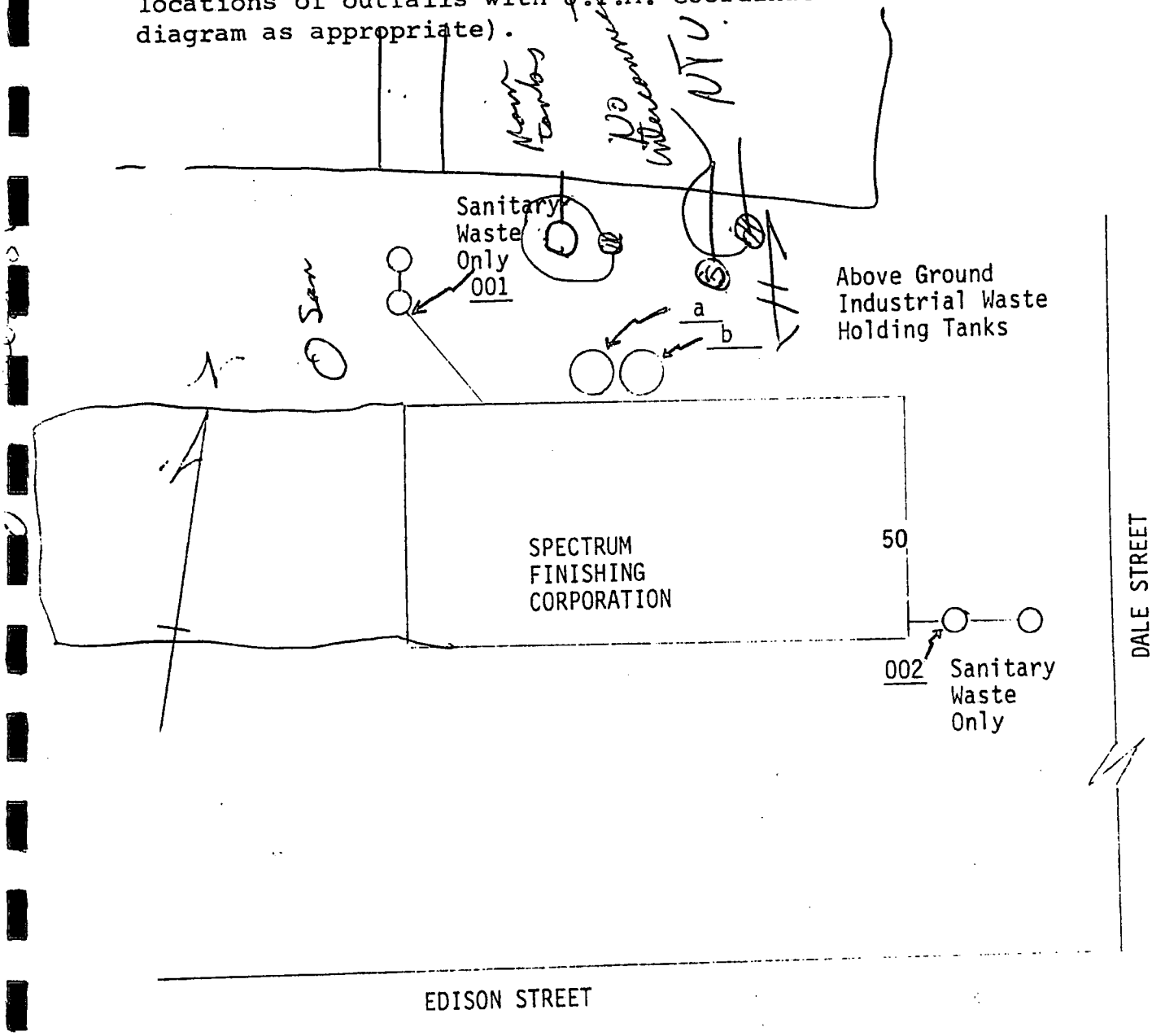
For the purposes of this subsection, the daily average discharge is the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating.

For the purposes of this subsection, the daily maximum discharge means the total discharge by weight during any calendar day.

(b) The pH shall not be less than _____ nor greater than _____. The pH shall be monitored as follows: N/A

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location indicated below: (Show locations of outfalls with U.T.M. Coordinates and sketch or flow diagram as appropriate).



This permit and the authorization to discharge shall expire on midnight August 8, 1980 (Give Date). Permittee shall not discharge after the above date of expiration. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information, forms, and fees as are required by the Department of Environmental Conservation no later than 180 days prior to the above date of expiration.

By Authority of George K. Hansen, P.E., Chief, PDES Permit Section
Designated Represenative of Commissioner of the Department of Environmental Conservation

August 8, 1975
Date

George K. Hansen
Signature

Attachments:

General Conditions
Schedule "A"

REFERENCE NO. 55

WESTON

PROJECT NOTE

TO: Spectrum Project File

DATE: 6 October 1998

FROM: John Hinge

W.O. NO.: 04200-022-081-0132

SUBJECT: Suffolk County Department of Health Services (SCDHS) Inspections and Sampling at Spectrum Site During 1983 and 1984.

Attached are various records of inspections and sampling by SCDHS at the Spectrum site during 1983 and 1984.

COUNTY OF SUFFOLK

2

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Date 5-9-83
SPDES NO.
Lab. No. 3-83-97
Field No. 4 DO 3-9

Spectrum Finishing Corp.
50 Dale Street
West Babylon, NY 11704

Gentlemen:

On 9 March 1983 samples of industrial waste were taken from your storm drain, opposite paint storage room.
Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

1. Hexavalent chromium 1.2 mg/l
2.
3.
4.
5.
6.
7.
8.
9.
10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred ($500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

John H. Finkenberg, Sr. Sanitarian
Environmental Pollution Control

(SEE REVERSE SIDE FOR STANDARDS)

5 Horseblock Pl.
rmingville, NY 11738
516) 451-4628

NOTICE OF VIOLATION

COUNTY OF SUFFOLK

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Date May 23, 1983
SPDES NO.
Lab. No. IW 383024
Field No. 5 DO 3-9

Spectrum Finishing Corp.
50 Dale Street
West Babylon, New York 11704

Gentlemen:

On 9 March 1983 samples of industrial waste were taken from your sanitary pool, north side of building.
Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

1. toluene 93.0ppb
2. 2-Butanone 500ppb
3.
4.
5.
6.
7.
8.
9.
10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred ($500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

John H. Finkenberg, Sr. Sanitarian
Environmental Pollution Control

15 Horseblock Pl.
Farmingville, NY 11738
(516) 451-1600

(SEE REVERSE SIDE FOR STANDARDS)

COUNTY OF SUFFOLK

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

David Harris, M.D.,M.P.H.
Commissioner

November 3, 1983

Mr. William DeChirico
Spectrum Finishing Corp.

50 Dale Street
W. Babylon, NY 11704

Re: SPDES Effluent Limit Violations

Dear Sir:

Attached is a copy of a summary of your wastewater discharge indicating effluent limitation violations. These violations were determined by a review of your discharge monitoring report(s) by the New York State Department of Environmental Conservation.

This department requests that you review the attached summary and notify us, in writing, as to the cause of the violations and the corrective action that will be implemented.

If the violation is the result of a major problem with the treatment facility, again, contact this office so that we may discuss a schedule of compliance for repair or upgrading of your wastewater unit.

Very truly yours,

Gordon J. Watt

Gordon J. Watt
Wastewater Management Section

GJW:he

cc: J. Finkenberg x
J. Gladysz
D. Gobbi

WWM 11

15 HORSEBLOCK PLACE ▫ FARMINGVILLE, NEW YORK 11738 ▫ (516) 451-4633

File copy

NICE 5

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/8

FIELD NO. 10 D010-19 LAB NO. 10-83-222 DATE COMPLETED 10/25/83

NAME OR FIRM Spectrum Finishing

ADDRESS OR LOCATION Cabot St. W. Bab.

POINT OF COLLECTION Storm drains, Northside Bld.

REMARKS/INSTRUCTIONS opposite paint storage rm.

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.04 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.3
COD						NICKEL	
TOC						ZINC	
					X	LEAD	<.2
					X	CADMIUM	<.02
NITRATE-N						SILVER	
NITRITE					X	CHROMIUM-+6	<.02
AMMONIA-N							
TKN			pH (FIELD)	pH=6			
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Oberg	SCDHS	Oct 1983	11:05 AM
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	b.m.		10/19 pm	
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/8

FIELD NO. 9D010-19 LAB NO. 10/83-221 DATE COMPLETED 10/28/83.

NAME OR FIRM Spectrum Finishing.

ADDRESS OR LOCATION Cabot St. W. Babylon

POINT OF COLLECTION SASI pcsly North side Bld. middleset

REMARKS/INSTRUCTIONS Bld. full to grade.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.18 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT	1.2
	COD					X	NICKEL	.2
	TOC						ZINC	
						X	LEAD	<.2
						X	CADMIUM .02	.2
	NITRATE-N						SILVER	
	NITRITE					X	CHROMIUM-+6	<.02
	AMMONIA-N							
	TKN			pH (FIELD)	ph ≈ 6			
				TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obrig	SCDHS	Oct 19 83	11:00 AM
2. POSSESSION BY			DATE - TIME TO	DATE - TIME
3. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY	f.m.		10/19 DATE	TIME
5. POSSESSION BY			DATE - TIME TO	DATE - TIME
6. POSSESSION BY			DATE - TIME TO	DATE - TIME

File D.O.

7

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/8

FIELD NO. 10 D010-19 LAB NO. 10-83-222 DATE COMPLETED 10/25/83

G. Mayhew

NAME OR FIRM Spectrum Finishing

ADDRESS OR LOCATION Cabot St. W. Bab.

POINT OF COLLECTION Storm drains, Northside Bld.

REMARKS/INSTRUCTIONS opposite paint storage rm.

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.04 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	.3
COD						NICKEL	
TOC						ZINC	
					X	LEAD	<.2
					X	CADMIUM	<.02
NITRATE-N						SILVER	
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)	pH 6			
			TEMP. (FIELD)				

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obry	SCDHS	Oct 19 83	11 05 AM
2. POSSESSION BY			DATE - TIME TO	DATE - TIME
3. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY	G.m		10/19 PM	
5. POSSESSION BY			DATE - TIME TO	DATE - TIME

File Dig 8

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 10 DO 2-8 LAB NO. 2/84-95 DATE COMPLETED 2/15/84 Raja

NAME OR FIRM Spectrum Finishing

ADDRESS OR LOCATION Cabot St. W. Bab.

POINT OF COLLECTION stainless steel, rectangular box, open top,

REMARKS/INSTRUCTIONS V-bottom, stored outside, near garage door, Dale St. side.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER 680.0	6.8×10^2 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT 10.0	1×10^1
	COD					X	NICKEL 24.0	2.4×10^1
	TOC					X	ZINC 26.0	2.6×10^1
						X	LEAD	1.2
						X	CADMIUM 4000.0	4×10^3
	NITRATE-N						SILVER	
	NITRITE					X	CHROMIUM-+6	interference - Precipitation occurs with pH-adjustment
	AMMONIA-N							
	TKN			pH (FIELD)	ph ≅ 12			
				TEMP. (FIELD)				

Sample was highly alkaline. Acidified with conc. Hcl prior to analysis

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obry	SCDHS	Feb. 8, 1984	3:45 pm
2. POSSESSION BY	David Obry	SCDHS	Feb. 8, 3:45 pm	Feb 9 84 9:10 am
3. POSSESSION BY				
4. RECEIVED LAB BY	Raja		2/9/84	10 AM
5. POSSESSION BY				
6. POSSESSION BY				

SUFFOLK COUNTY HEALTH SERVICES LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/8

FIELD NO. 10 DO 2-8 LAB NO. 2/84-95 DATE COMPLETED 2/15/84

NAME OR FIRM Spectrum Finishing

ADDRESS OR LOCATION Cabot St. W. Bab.

POINT OF COLLECTION stainless steel, rectangular box, open top,

REMARKS/INSTRUCTIONS V-bottom, stored outside, near garage door, Dale St. side.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER 680.0	6.8×10^2 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT	1×10^1
	COD					X	NICKEL 24.0	2.4×10^1
	TOC					X	ZINC 26.0	2.6×10^1
						X	LEAD 1.2	1.2
						X	CADMIUM 4000.	4×10^3
	NITRATE-N						SILVER	
	NITRITE						CHROMIUM-+6	
	AMMONIA-N							
	TKN			pH (FIELD)	ph ≅ 12			
				TEMP. (FIELD)				

Sample was highly alkaline. Acidified with conc. Hcl prior to analysis

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obry	SCDHS	Feb. 8, 1984	3:45 pm
2. POSSESSION BY	David Obry	SCDHS	Feb. 8, 3:45 pm	Feb 9 84 9:10 am
3. POSSESSION BY				
4. RECEIVED LAB BY	Raja		2/9/84	10 AM
5. POSSESSION BY				
6. POSSESSION BY				

COUNTY OF SUFFOLK

10

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

David Harris, M.D., M.P.H.
Commissioner

March 8, 1984

Spectrum Finishing
51 Cabot Street
W. Babylon. New York 11703

Gentlemen:

An inspection of your plant was conducted by a representative of this Department on 2/8/84, 3:45 PM . This inspection revealed that material was being stored outside in a stainless steel, open-top container. Sample analysis of this material shows the following parameters: Copper 1200.0 Mg/l; Iron 1.6 Mg/l; total Chromium 8.0 Mg/l; Nickel 50.0 Mg/l, Zinc 20.0 Mg/l, Lead 1.2 Mg/l, Cadmium 8000.0 Mg/l; and pH $\geq$ 12.

This waste is not to be discharged to the ground and may be transported and disposed of only by an approved industrial waste scavenger. A listing of these scavengers may be obtained from Mr. Ted Sanford at the New York State Department of Environmental Conservation in Stony Brook, phone 751-7900.

In addition, Article 12 of the Suffolk County Sanitary Code gives specific guidelines for storage of toxic and hazardous materials. Please contact Mr. Peter Akras of this office at 451-4649 for information and guidance in meeting these storage standards.

A reinspection of your facility has been scheduled to determine your compliance in this matter. If I can be of further assistance, please call me at 451-4630.

Very truly yours,

John H. Finkenberg
Environmental Pollution Control

15 HORSEBLOCK PLACE ▫ FARMINGVILLE, NEW YORK 11738 ▫ (516) 451-4633

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/8

FIELD NO. 8D02-8 LAB NO. 2/84 - 93 DATE COMPLETED 2/15/84

NAME OR FIRM Spectrum Finishing

ADDRESS OR LOCATION Cabot St. W. Bab.

POINT OF COLLECTION stainless steel, rectangular box, open top,

REMARKS/INSTRUCTIONS V-bottom, stored on inside garage door, Dale St. side

TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER/200.	1.2×10^3 Mg/l
CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON 1.6	1.6
CYANIDE			DISSOLVED SOLIDS			MANGANESE	
MBAS					X	CHROMIUM-TOT	8.
COD					X	NICKEL 50.0	5×10^1
TOC					X	ZINC 20.0	2×10^1
					X	LEAD 1.2	1.2
					X	CADMIUM 8000.0	8×10^3
NITRATE-N						SILVER	
NITRITE						CHROMIUM-+6	
AMMONIA-N							
TKN			pH (FIELD)	pH ≈ 12			
			TEMP. (FIELD)				

sample was highly basic with precipitation in nature. Acidified to analysis per HCl prior to pH 2.7

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Oberg	SCDHS	Feb. 8, 84	3:45 pm
2. POSSESSION BY	David Oberg	SCDHS	Feb. 8, 3:45 pm (DATE - TIME)	TO Feb. 9, 9:10 AM (DATE - TIME)
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	Raja		2/9/84 (DATE)	10 AM (TIME)
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

File 12

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 8D02-8 LAB NO. 2/84 - 93 DATE COMPLETED 2/15/84

NAME OR FIRM: Spectrum Furniture

ADDRESS OR LOCATION: Cabot St. W. Bab.

POINT OF COLLECTION: stainless steel, rectangular box, open top,

REMARKS/INSTRUCTIONS: V-bottom, stored on inside garage door, Dale St. side

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	1.2×10^3 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS		X	IRON	1.6
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT	8.
	COD					X	NICKEL 50.0	5×10^1
	TOC					X	ZINC 20.0	2×10^1
						X	LEAD	1.2
						X	CADMIUM 8000.0	8×10^3
	NITRATE-N						SILVER	
	NITRITE					X	CHROMIUM-+6	interference. precipitation occurs with pH-adjustment 4/14
	AMMONIA-N							
	TKN			pH (FIELD)	pH ≈ 12			
				TEMP. (FIELD)				

sample was highly basic with Acid prior to analysis per Hd pH 1.7

METHOD OF PRESERVATION ☒ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME		DATE - TIME	TO	DATE - TIME
1. COLLECTED BY	David Obry	SCDHS	Feb. 8, 84	3:45 pm				
2. POSSESSION BY	David Obry	SCDHS	Feb. 8, 3:45 pm			Feb. 9, 9:10 am		
3. POSSESSION BY								
4. RECEIVED LAB BY	Raja		2/9/84	10 AM				
5. POSSESSION BY								
6. POSSESSION BY								

NOTICE OF VIOLATION

COUNTY OF SUFFOLK

13

PETER F. COHALAN
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Date May 8, 1984
SPDES NO.
Lab. No. 2-84-161
Field No. 2-DO-2-21

Spectrum Finishing Corp., Inc.
51 Cabot St.
West Babylon, New York 11704

Gentlemen:

On 2/21/84 samples of industrial waste were taken from your storm drain, approx.20-25' East of stainless steel tank leaking liquid. Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

1. Hexavalent Chromium 0.64 Mg/l 6.
2. 7.
3. 8.
4. 9.
5. 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred ($500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

John H. Finkenberg, Sr. Sanitarian
Environmental Pollution Control

(SEE REVERSE SIDE FOR STANDARDS)

Horseblock Pl.
hingville, NY 11738
5) 451-4623

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SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

NAME OF FACILITY	OWNER/ OFFICER	PAGE 1 OF
COMPANY NAME: Spectrum Finishing Corp.	CONTACT: Mr. Gene Pappalardo	TEL.
PLANT ADDRESS: Cabot St.	VILLAGE: West Bab. TOWN: Bab.	ZIP
MAILING ADDRESS		

DATE: Feb 21, 84	TIME: 1:30 PM	ORIG. PERIODIC (RE.)	WASTE NO WASTE (H&H)	SEWAGE SYSTEM	PUBLIC (PRIVATE)

INDUSTRY: plating shop.

SPDES OR NPDES PERMIT? YES NO PERMIT NO. | 360 PERMIT? YES NO PERMIT NO

SCAVENGER | TEL.

SCAVENGER APPROVED YES NO | PICK UP RECORDS AVAILABLE YES NO | RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES NO

HEATING SYSTEM-MFG. NAME	FUEL TYPE	FIRING RATE
INCIN. NAME	WASTE BURNED	RATE

DRUM STORAGE YES NO	NUMBER STORED INDOORS OUTDOORS	TYPE OF MATERIAL STORED WASTE RAW
STORAGE TANKS (YES) NO	NUMBER OF TANKS (ABOVEGROUND) UNDERGROUND	TYPE OF MATERIAL STORED WASTE ? unknown RAW
OPEN PROCESS TANKS YES NO	NUMBER OF OPEN PROCESS TANKS	ANY ART. XII VIOLATIONS (YES) NO

(1) Observed spill from stainless steel tank which is located on the North side of "Spectrum", tank is located near Dale St. approx. ~~20~~ 5-10 ~~-25~~ ft. North west of green garage doors. There was a constant drip of material from the middle of the tank, the dripping liquid had puddled approx. 3-5 ft. North of the tank. There was heavy evidence of dried liquid in the area, i.e. white colored solid. The white solid was in evidence to the nearest storm drain, which is located 20-25 ft. East of the S.S. tank.

PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF CESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.

REINSPECTION SCHEDULED ON OR AFTER _____. FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

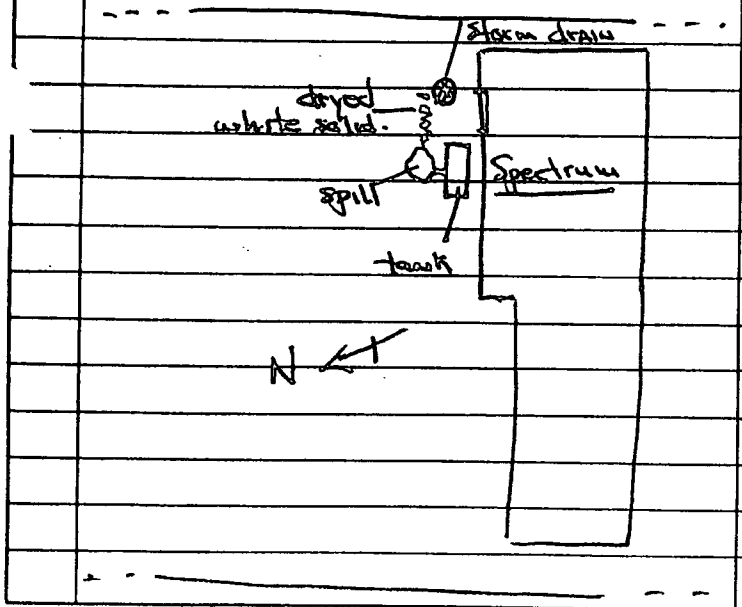
SIGN. OF PERSON REC. REPORT	TITLE	INSPECTOR: DAVID OBRIG

13-155: 9/82 3/81 TJK

INDUSTRIAL WASTE PROCESS

NO.	PROCESS	CHEMICALS USED AND APPROXIMATE QUANTITY	DISCHARGE	DISCHARGE TO
	(2) I issued a violation notice to a representative of "Spectrum", Mr. Gene Pappalardo, this was because no other higher representative was on site.			
	(3) While I was removing samples Mr. Pappalardo and another man from "Spectrum" started cleaning up the spill.			
	(4) The field pH of the spilled liquid was approx. 12. The spill was approx. 5'x5'x1".			

~~AIR POLLUTION SOURCES~~

NO.	Dale St. PROCESS	CONTROL TYPE	EP'S	CHEMICALS OR PRODUCTS USED	AMOUNT CONSUM.	HOURS OF OPERA.	TYPE OF EMISSION
							

* Cyanide

File

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 3D02-21 LAB NO. 2-84-162 DATE COMPLETED 3/15/84

NAME OR FIRM Spectrum Finishing Corp.

ADDRESS OR LOCATION Cabot St. W. Bab.

POINT OF COLLECTION spill puddle from leak from

REMARKS/INSTRUCTIONS stainless steel tank, tank on Northside Bld.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER 500.0	5×10^2 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT 40.0	4×10^1
	COD					X	NICKEL 40.0	4×10^1
	TOC					X	ZINC 60.0	6×10^1
						X	LEAD	1.6
						X	CADMIUM 6000.0	6×10^3
	NITRATE-N						SILVER	
	NITRITE					X	CHROMIUM-+6	interference - precipitation occurs with pH-adjustment 4/24/84
	AMMONIA-N			Lab	ph 11			
	TKN			pH (FIELD)	ph ≅ 12			
	-			TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obry	SCDHS	Feb 21, 84	1:45 PM
2. POSSESSION BY			DATE - TIME TO	DATE - TIME
3. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY	G. Mathew		2/21/84 PM	
5. POSSESSION BY			DATE - TIME TO	DATE - TIME
6. POSSESSION BY			DATE - TIME TO	DATE - TIME

* Cyanide

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SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 3D02-21 LAB NO. 2-84-162 DATE COMPLETED 3/15/84 Final

NAME OR FIRM Spectrum Finishing Corp.

ADDRESS OR LOCATION Cabot St. W.Bab.

POINT OF COLLECTION spill puddle from leak from

REMARKS/INSTRUCTIONS stainless steel tank, tank on Northsula Blvd.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH(LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	5×10^{2} Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT	4×10^{1}
	COD					X	NICKEL	4×10^{1}
	TOC					X	ZINC	6×10^{1}
						X	LEAD	1.6
						X	CADMIUM	6×10^{3}
	NITRATE-N						SILVER	
	NITRITE						CHROMIUM-+6	
	AMMONIA-N			Lab	ph 11			
	TKN			pH (FIELD)	ph ≅ 12			
				TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4° C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obry	SCDHS	Feb 21, 84	1:45 PM
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	B. Matthews		2/21/84 PM	
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

Cyanide

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SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 2D02-21 LAB NO. 2-84-161 DATE COMPLETED 10/15/84

NAME OR FIRM Spectrum Finishing Corp.

ADDRESS OR LOCATION Cabot St. W. Bab.

POINT OF COLLECTION S.D. - storm drain approx. 20-25 ft. East

REMARKS/INSTRUCTIONS of Stanwyck steel tank leaking liquid.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER	.2 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT	1.1
	COD					X	NICKEL	.7
	TOC					X	ZINC	1.3
						X	LEAD	<.2
						X	CADMIUM	.3
	NITRATE-N						SILVER	
	NITRITE						CHROMIUM-+6	
	AMMONIA-N			Lab	ph 7.0			
	TKN			pH (FIELD)				
				TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obry	SCDHS	Feb. 21, 84	1:50 pm
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	B. Matthews		2/21 pm	
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

Cyanide File

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SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 1DO 2-21 LAB NO. 2-84-160 DATE COMPLETED 3/15/84

NAME OR FIRM Spectrum Finishing Corp.

ADDRESS OR LOCATION Cabot Sd. W. Bab.

POINT OF COLLECTION tank, stainless steel tank leaking

REMARKS/INSTRUCTIONS liquid onto surface & gnd.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER 3500	3.5×10^2 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT 200	2.8×10^1
	COD					X	NICKEL 2400	2.4×10^1
	TOC					X	ZINC 2500	2.5×10^2
						X	LEAD	1.6
						X	CADMIUM 40000	4×10^3
	NITRATE-N						SILVER	
	NITRITE					X	CHROMIUM-+6	interference: precipitation occurs with pH-adjustment +/24
	AMMONIA-N			Lab	ph 11.5			
	TKN			pH (FIELD)	ph ≈ 12			
				TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obrig	SCDHS	Feb 21, 84	1 55 pm
2. POSSESSION BY			DATE - TIME TO	DATE - TIME
. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY	G Mathew		2/21/84 pm	
5. POSSESSION BY			DATE - TIME TO	DATE - TIME
6. POSSESSION BY			DATE - TIME TO	DATE - TIME

Cyanide

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SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 1DO2-21 LAB NO. 2-84-160 DATE COMPLETED 3/15/84

NAME OR FIRM Spectrum Finishing Corp.

ADDRESS OR LOCATION Cabot Sd. W. Bab.

POINT OF COLLECTION tank, stainless steel tank leaking

REMARKS/INSTRUCTIONS liquid onto surface of gnd.

	TEST	RESULTS		TEST	RESULTS		TEST	RESULTS
	pH (LAB)			TOTAL SOLIDS	Mg/l	X	COPPER 350.	3.5×10^2 Mg/l
	CHLORIDE	Mg/l		SUSPENDED SOLIDS			IRON	
	CYANIDE			DISSOLVED SOLIDS			MANGANESE	
	MBAS					X	CHROMIUM-TOT 28.0	2.8×10^1
	COD					X	NICKEL 24.0	2.4×10^1
	TOC					X	ZINC 250.0	2.5×10^2
						X	LEAD 1.6	1.6
						X	CADMIUM 4000.0	4×10^3
	NITRATE-N						SILVER	
	NITRITE						CHROMIUM-+6	
	AMMONIA-N			Lab	ph 11.5			
	TKN			pH (FIELD)	(ph 12)			
				TEMP. (FIELD)				

METHOD OF PRESERVATION ☐ HNO_3 TO pH <2 ☐ COOL 4°C

CUSTODY OF SAMPLE

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 OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT.

	NAME	AFFILIATION	DATE	TIME
1. COLLECTED BY	David Obrig	SCDHS	Feb 21, 84	1:55 pm
2. POSSESSION BY			DATE - TIME TO	DATE - TIME
3. POSSESSION BY			DATE - TIME TO	DATE - TIME
4. RECEIVED LAB BY	G. Mathew		2/21/84 pm	
5. POSSESSION BY			DATE - TIME TO	DATE - TIME
6. POSSESSION BY			DATE - TIME TO	DATE - TIME

REFERENCE NO. 56

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

AKRAS ✓
FRISCHMAN ✓
PIPE ✓

NAME OF FACILITY: SPECTRUM FINISHING CORP	OWNER/OFFICER		PAGE 1 OF (1)
COMPANY NAME	CONTACT: Gene Pappallardo		TEL. 694-0306
PLANT ADDRESS: 50 DALE ST.	VILLAGE: W. BABYLON	TOWN	ZIP: 11704
MAILING ADDRESS			

DATE: 12-12-84	TIME	ORIG.	(PERIODIC)	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM: PUBLIC ~~PRIVATE~~

INDUSTRY: PLATING

SPDES OR PDES PERMIT? YES (NO) PERMIT NO.	360 PERMIT? YES (NO) PERMIT NO.

SCAVENGER		TEL.
SCAVENGER APPROVED YES NO	PICK UP RECORDS AVAILABLE YES NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES NO

HEATING SYSTEM-MFG. NAME	FUEL TYPE	FIRING RATE
	WASTE BURNED	RATE

SUM STORAGE YES NO	NUMBER STORED: INDOORS OUTDOORS	TYPE OF MATERIAL STORED: WASTE RAW
STORAGE TANKS YES NO	NUMBER OF TANKS: ABOVEGROUND UNDERGROUND	TYPE OF MATERIAL STORED: WASTE RAW
OPEN PROCESS TANKS YES NO	NUMBER OF OPEN PROCESS TANKS	ANY ART. XII VIOLATIONS (YES) NO

ARTICLE XII VIOLATIONS

(1) BUILDING LEAKS TOXICS ONTO GROUND
(2) PUDDLE OF AMBER LIQUID (pH ≈ 11) on ground (parking lot) from leaks - (CLEANED-UP during inspection)
(3) PLATING AREA - NOT ART XII APPROVED YET - PLANS HAVE BEEN SUBMITTED + SOME CONSTRUCTION STARTED
(4) CENTRAL DRAIN + SUMP AREA + BELOW GROUND PIPING NOT ART XII APPROVED
(5) OILY WATER + STAINS IN GROUND (South side)
(6) BOILER BLOW DOWN INACCESSIBLE FOR SAMPLING

PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF SPILLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.

INSPECTION SCHEDULED ON OR AFTER _____. FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

PERSON REPORT: [signature]	TITLE	INSPECTOR: [signature]

9/82 5/81 TJK

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL
15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738
(516) 451-4633

8

NAME OF FACILITY: Spectrum		OWNER/ OFFICER	PAGE 1 OF
COMPANY NAME		CONTACT	TEL.
PLANT ADDRESS	VILLAGE	TOWN	ZIP
MAILING ADDRESS			
DATE 12-12-84	TIME	ORIG. PERIODIC RE.	WASTE NO WASTE H&H	SEWAGE SYSTEM PUBLIC PRIVATE
INDUSTRY			
SPDES OR UPDES PERMIT? YES NO	PERMIT NO.	360 PERMIT? YES NO	PERMIT NO.
SCAVENGER			TEL.
SCAVENGER APPROVED YES NO	PICK UP RECORDS AVAILABLE YES NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION YES NO	

HEATING SYSTEM-MFG. NAME	FUEL TYPE	FIRING RATE
INCIN. NAME	WASTE BURNED	RATE

DRUM STORAGE YES NO	NUMBER STORED INDOORS OUTDOORS	TYPE OF MATERIAL STORED WASTE RAW
STORAGE TANKS YES NO	NUMBER OF TANKS ABOVEGROUND UNDERGROUND	TYPE OF MATERIAL STORED WASTE RAW
OPEN PROCESS TANKS YES NO	NUMBER OF OPEN PROCESS TANKS	ANY ART. XII VIOLATIONS YES NO

VIOLATIONS (CON'T)

(7) TOXIC metal sludge in Dumpster - Illegal DISPOSAL

(8) metal sludge in DRUM outdoors

(9) UNKNOWN DRUMS OF OILY MATERIAL & LIQUIDS STORED OUTDOORS - SHOULD BE MOVED INDOORS

(10) solid cover manhole on northside - dry - but metal sludge appears to be in it.

MANIFESTS FOR TOXICS - NOT AVAILABLE

PLEASE CALL WHEN FOUND FOR OUR INSPECTION TO BE COMPLETED

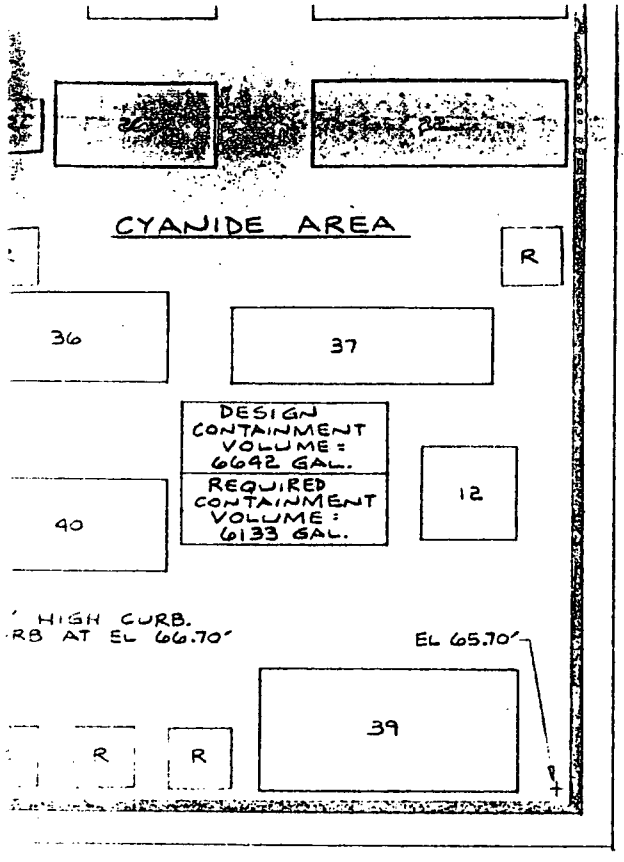
PERMISSION IS GRANTED BY THIS FACILITY TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TO CONDUCT ROUTINE SAMPLING OF CESSPOOLS, STORMDRAINS, AND OTHER DISCHARGE POINTS AT THE FACILITY.

REINSPECTION SCHEDULED ON OR AFTER _____. FAILURE TO CORRECT UNSATISFACTORY CONDITIONS BY REINSPECTION DATE MAY RESULT IN A HEARING AND/OR FINE.

SIGN. OF PERSON REC. REPORT	TITLE	INSPECTOR

155: 9/82 5/81 TCK

REFERENCE NO. 57



48	275	Phenolic Acid Paint Strip
49	325	Alodine
50	325	Alodine
51	200	Muriatic Acid
52	150	Copper Bright Cleaner

EXTERIOR

LEGEND:

- : PROPOSED CURB, CANT OR RAMP.
- : PROPOSED FLOOR SLAB COATING (SEE NOTE 3)
- [R] : RECTIFIERS (NOT TO SCALE)

NOTES:

1. PLATING SHOP AND PLATING TANKS ARE DRAWN TO SCALE. PLATING TANK LOCATIONS AND DOOR OPENINGS ARE APPROXIMATE.
2. DESIGN CONTAINMENT VOLUMES ARE CONSERVATIVE. VOLUME CALCULATIONS BASED ON LEVEL FLOOR AT EL 65.70'
3. ALL SURFACES OF CONCRETE FLOOR SLAB, CURBS, CANTS, RAMPS & WALLS IN PLTG. SHOP BELOW EL. 66.70' TO BE COATED WITH AN IMPERVIOUS CORROSION RESISTANT EPOXY COATING.
4. ALL FINAL CONSTRUCTION SHALL BE IN STRICT COMPLIANCE WITH OSHA, NFPA, NEC, SUFFOLK COUNTY SANITARY CODE, FACTORY MUTUAL CONSTRUCTION GUIDELINES, LOCAL ZONING AND FIRE CODES, NEW YORK STATE BUILDING CODE AND ALL OTHER APPLICABLE CODES.

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT SECTION

APPROVAL TO CONSTRUCT SOLVENT NO. HM 84-8R

These plans and specifications have been reviewed and found to be in compliance with Suffolk County Sanitary Code requirements based upon information submitted by the applicant. This approval to construct expires ~~[illegible]~~ six months from the date of approval.

NJ

1/17/85
DATE

Vincent Fanni
LEVEL II ENGINEER

JUL 13 1984

HM84-8R

NO	REVISION TITLE	BY	DATE
1	CHANGED "OVERFLOW" PIPE TO CONNECTING PIPE AT SUMP	MC	7/13/84

TITLE: PLATING SHOP TANK LAYOUT FOR S.C.S.C. ARTICLE 12

FOR: SPECTRUM FINISHING CORP.

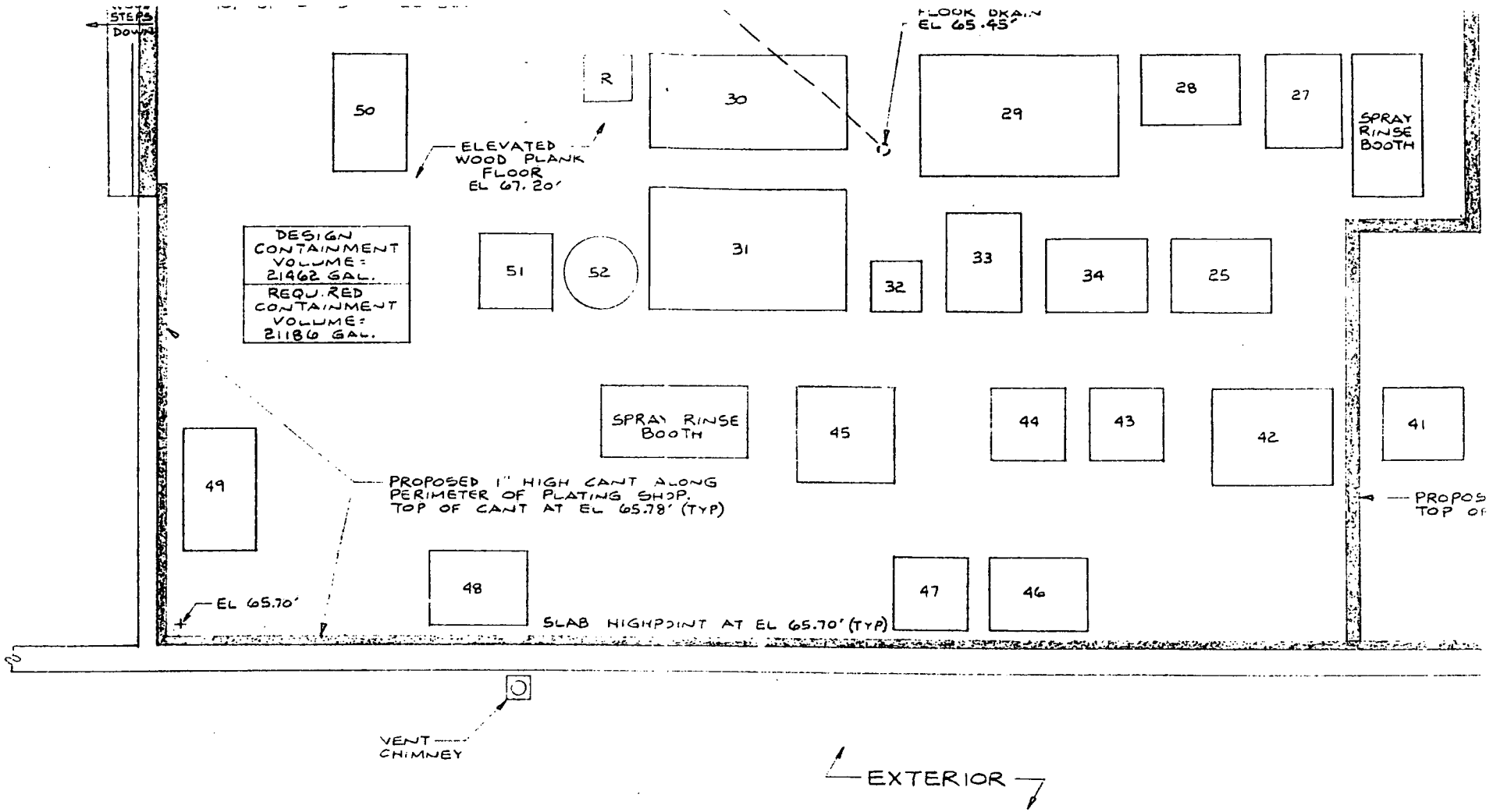
BY: DONNELLY ENGINEERING COMPANY
ST. JAMES NEW YORK

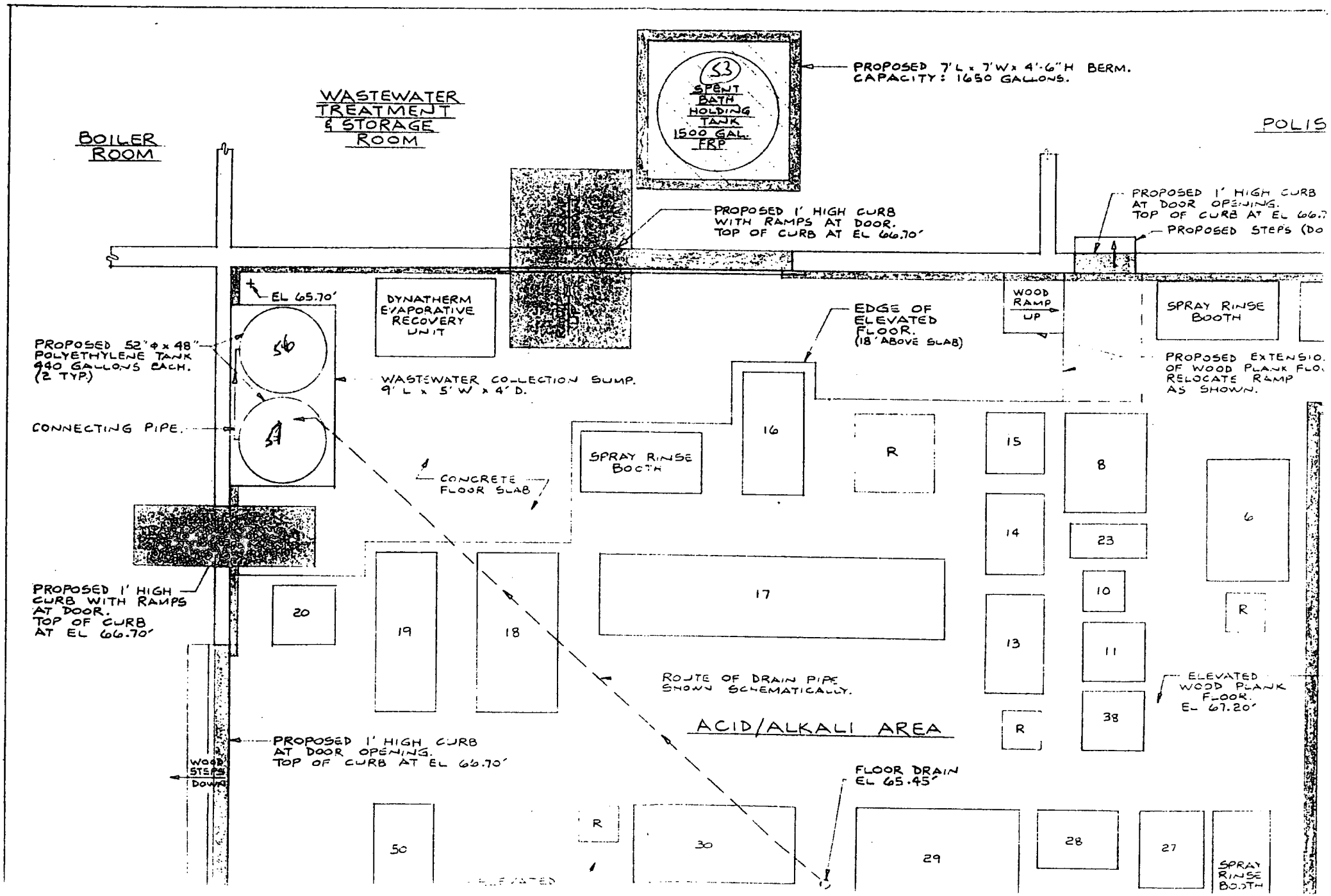
DATE: OCT 7, 1983 | SCALE: 1/4" = 1'-0" | SH. 1 OF 1

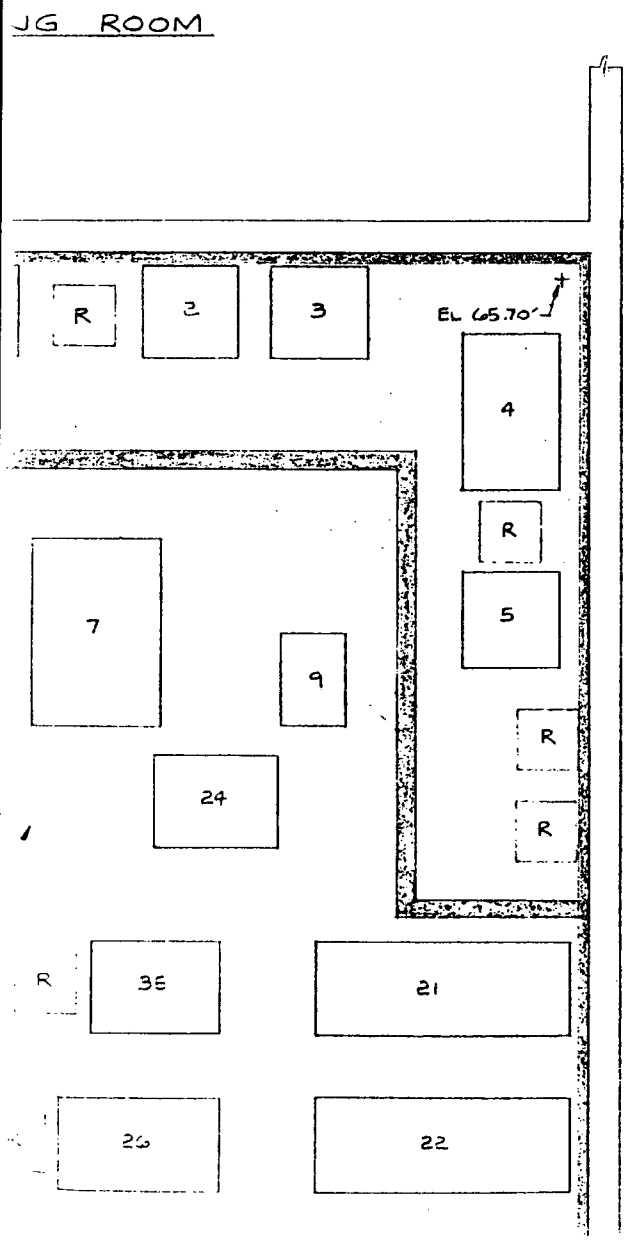
DR. BY: M. CAPOTOSTO | DWG. NO. SFC-04 | REV. 1

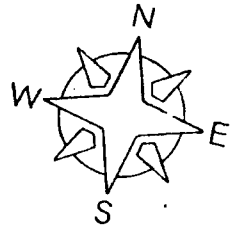
APPVD: 1-16-84

"The original of this drawing is the exclusive property of the Donnelly Engineering Company. The acceptance of this print constitutes an agreement that it should be treated as a strictly confidential document to be used for no purpose other than to aid in the assembly or operation of units furnished by the Donnelly Engineering Company or as otherwise expressly authorized in writing by the Donnelly Engineering Company and that it is not to be communicated, or disclosed or copied except as expressly authorized in writing by the Donnelly Engineering Company."


STEPS DOWN
50
R
30
FLOOR DRAIN EL 65.45'
29
28
27
SPRAY RINSE BOOTH
ELEVATED WOOD PLANK FLOOR EL 67.20'
DESIGN CONTAINMENT VOLUME: 21462 GAL.
REQUIRED CONTAINMENT VOLUME: 21186 GAL.
51
52
31
32
33
34
25
SPRAY RINSE BOOTH
45
44
43
42
41
49
PROPOSED 1" HIGH CANT ALONG PERIMETER OF PLATING SHOP. TOP OF CANT AT EL 65.78' (TYP)
PROPOS TOP OF
48
47
46
EL 65.70'
SLAB HIGHPOINT AT EL 65.70' (TYP)
VENT CHIMNEY
EXTERIOR


BOILER ROOM
WASTEWATER TREATMENT & STORAGE ROOM
53
SPENT BATH HOLDING TANK 1500 GAL. FRP
PROPOSED 7'L x 7'W x 4'-6"H BERM. CAPACITY: 1650 GALLONS.
POLIS
PROPOSED 1' HIGH CURB WITH RAMPS AT DOOR. TOP OF CURB AT EL 66.70'
PROPOSED 1' HIGH CURB AT DOOR OPENING. TOP OF CURB AT EL 66.7
PROPOSED STEPS (DO
EL 65.70'
DYNATHERM EVAPORATIVE RECOVERY UNIT
WOOD RAMP UP
SPRAY RINSE BOOTH
EDGE OF ELEVATED FLOOR. (18' ABOVE SLAB)
PROPOSED 52"ϕ x 48" POLYETHYLENE TANK 440 GALLONS EACH. (2 TYP.)
56
WASTEWATER COLLECTION SUMP. 9' L x 5' W x 4' D.
PROPOSED EXTENSIO OF WOOD PLANK FLO RELOCATE RAMP AS SHOWN.
CONNECTING PIPE.
54
16
R
15
8
SPRAY RINSE BOOTH
CONCRETE FLOOR SLAB
14
23
6
PROPOSED 1' HIGH CURB WITH RAMPS AT DOOR. TOP OF CURB AT EL 66.70'
17
10
R
20
19
18
13
11
ROUTE OF DRAIN PIPE SHOWN SCHEMATICALLY.
ELEVATED WOOD PLANK FLOOR. EL 67.20'
38
R
ACID/ALKALI AREA
PROPOSED 1' HIGH CURB AT DOOR OPENING. TOP OF CURB AT EL 66.70'
WOOD STEPS DOWN
FLOOR DRAIN EL 65.45'
R
50
30
29
28
27
SPRAY RINSE BOOTH





TANK SCHEDULE

Tank No.	Tank Volume (Gallons)	Description
1	275	Chrome Rinse (Static)
2	175	Copper Cyanide
3	200	Decorative Chrome
4	675	Dow 17
5	275	Dow 17 Pickle
6	725	Bright Nickel
7	725	Copper
8	475	Hot Alkaline Soap Cleaner
9	175	Zincate
10	85	Muriatic Acid
11	200	Nitric Acid
12	200	Copper Strike
13	350	Ammonium Fluoride
14	375	Dow 7
15	275	Dow 9
16	550	Caustic Etch
17	2050	Sulfuric Acid Anodize
18	975	Dichromate Seal
19	725	Deoxidizer
20	275	Black Dye
21	550	High Density Cadmium
22	550	Bright Cadmium
23	175	Nickel Strike
24	275	Decorative Brass
25	375	Sulfamate Nickel
26	350	Tin Electroplate
27	2700	Reverse Sulfuric
28	275	Hot Soap Cleaner
29	900	Hot Water Seal for Anodize
30	1400	Chromic Anodize
31	900	Hot Water
32	85	Nitric Acid
33	270	Not In Use - Empty Tank
34	275	Iridite
35	350	Cyanide Rinse (Static)
36	550	Copper
37	450	Cyanide Rinse (Static)
38	200	Titanium-Cadmium Pickle
39	725	Titanium-Cadmium
40	400	Alkaline Electro Cleaner
41	275	Copper Nickel Strip
42	270	Not In Use - Empty Tank
43	200	Cadmium Strip
44	275	Manganese Phosphate
45	475	Electroless Nickel
46	275	Black Oxide
47	275	Black Oxide Rinse
48	275	Phenolic Acid Paint Strip
49	325	Alodine
50	325	Alodine
51	200	Muriatic Acid
52	450	[illegible]

REFERENCE NO. 58

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of Alleged Violations of Article 27, Title 9 of the Environmental Conservation Law and Parts 360 and 373 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York by

SPECTRUM FINISHING CORP.

ORDER ON CONSENT
Index # WP-114-84

W H E R E A S:

1. The New York State Department of Environmental Conservation (the "Department") is responsible for the regulation and management of the generation and disposal of hazardous wastes in New York State pursuant to Article 27 Title 9 of Environmental Conservation Law (the "ECL").

2. Pursuant to such statutory authority, the Department promulgated Parts 360 and 373 of 6 NYCRR governing the generation and disposal of industrial and hazardous wastes.

3. The Respondent, Spectrum Finishing Corp. located at 50 Dale Street, West Babylon, County of Suffolk, State of New York is a corporation created under the laws of the State of New York and is a generator of hazardous waste as defined by 6 NYCRR Part 360 and 373.

4. Over the course of years, Respondent negligently disposed of industrial and hazardous wastes at the site.

5. Respondent having hereby admitted the violation set forth in this Order and having affirmatively waived its right to a hearing herein as provided by law, and having consented to the issuing and entering of this Order pursuant to the provisions of Article 27 and 71 of the ECL Parts 360 and 373 of 6 NYCRR, agrees to be bound by the provisions, terms and conditions contained herein.

N O W, having considered this matter and being duly advised, IT IS ORDERED THAT:

I. Respondent will pay to the Department a civil penalty in the sum of ten thousand dollars ($10,000) in settlement of any claims the Department might have against Respondent for any acts or omissions of the Respondent with reference to the negligent disposal of industrial and hazardous wastes at the site except for any actions claims, rights, or interests the Department may have with respect to any field investigations and/or remediation of the site pursuant to the ECL Article 27 Titles 9 and 13, C.E.R.C.L.A. and R.C.R.A.

II. Responent shall pay the civil penalty in two parts: five thousand ($5,000) dollars upon the execution of this Order and

five thousand ($5,000) dollars three (3) months from the date of execution of this Order by the Commissioner.

DATED: December 10, 1985

Henry G. Williams

HENRY G. WILLIAMS
Commissioner, NYS Department
of Environmental Conservation

CONSENT BY RESPONDENT

Respondent hereby consents to the issuing and entering of the foregoing Order, waives its right to a hearing as provided by law, and agrees to be bound by the provisions, terms, and conditions contained herein.

By: [illegible]

Title: Vice Pres.

Date: 11/12/85

REFERENCE NO. 59

File

SUFFOLK COUNTY DEPT. OF HEALTH SERVICES
UNIFORM COMPLAINT FIELD REPORT

Air Pollution ☐	SCDHS No. _____ Letter ☐
Hazardous Material & Industrial Waste ☒	SPILL No. 1988-196 Telephone ☒
Internal Ventilation ☐	DOT No. _____ Person ☐
Sewage Treatment ☐	Date 4/11/88 Time 5:00 pm
Assigned to Zone No. ☐	

[redacted]

Complaint Against Spectrum Finishing
Address 50 Cabot St (T.V.H.) Babylon Phone

Nature of Request Caller indicated that a drum of what he believed to be 111 Trichloroethane was punctured by a forklift and the resulting spill was directed to a nearby storm drain/floor drain. Accident occurred indoors

RCV'D by G. Todzia Assigned to B. Seyforth Date 4-13-88

[redacted]

Information Obtained from Interviewed Individuals:

1) SAID FORKLIFT DID PUNCTURE DRUM OF 111-TRICHLOROETHANE THAT HAD PURCHASED FROM FAIRCHILD. FLIPPED DRUM OVER SO IT WOULD NOT LEAK ANYMORE. LOST ABOUT 10 GALLONS OUTTO INDOOR LOADING AREA. SOME WENT THROUGH WALLS INTO OFFICE AREA. NO INDOOR FLOOR DRAINS IN THIS AREA. STOPPED NO LIQUID WENT TO STORM DRAIN. CLEANED IT UP AS SOON AS IT OCCURRED WITH SPECIAL DRY

INDW-1

Inspector's Observations

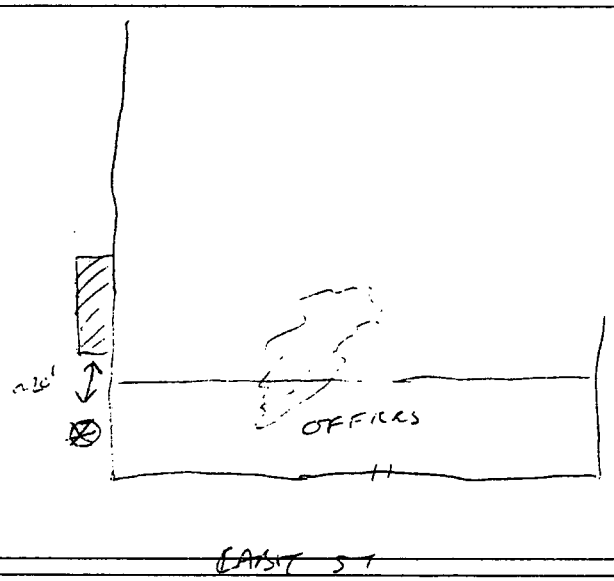
4/14 SHOWED ME AREA WHERE SPILL OCCURRED — NO INDOOR FLOOR DRAINS ANYWHERE NEAR THIS AREA. NO STORM DRAINS DIRECTLY OUTSIDE THIS AREA.

Name of Responsible Individuals	Address	Tel. No.

Inspector's Recommendation to Persons Concerned NO FLOOR DRAINS APPEAR TO HAVE BEEN EFFECTED MAY HAVE TO RETURN TO SAMPLE STORM DRAIN.

Information Related by Inspector to Complainant

Sketch:



Inspectors Signature [signature] Date 4/14/88

18-525 9 83