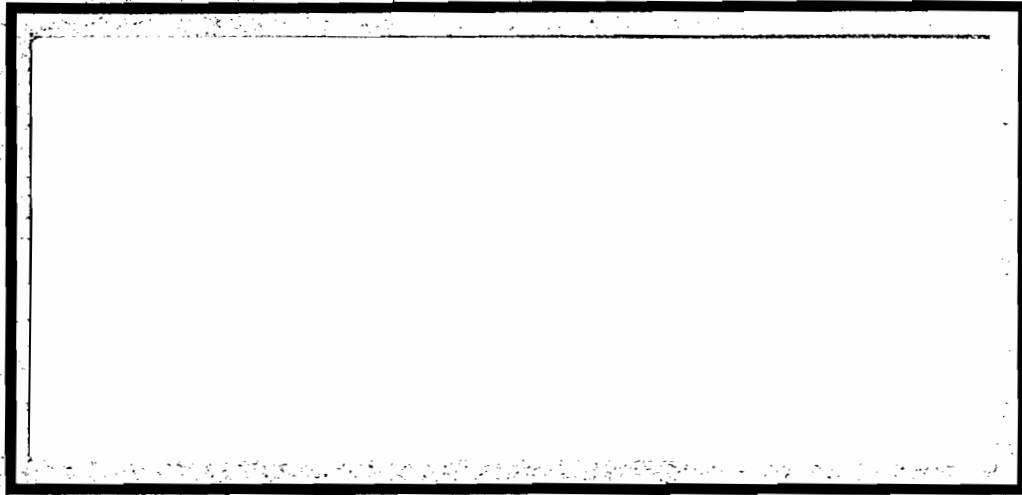


# ROY F. WESTON, INC.



10/98 ~~DATE~~  
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C1,2

7/10/98

**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**

Prepared by:

**ROY F. WESTON, INC.**  
Raritan Plaza III, Suite 2B  
101 Fieldcrest Avenue  
Edison, New Jersey 08837

**W.O. No.: 04200-022-081-0132**

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*58	<del>Z</del>
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	45*39	<del>Z</del>
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	210' 200	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

\*Reported from BMM62DL  
 1 Reported from BMM62DL2

FORM I LCV

OLC02.0

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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	<del>NJ</del>
3.				
4.				
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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	OR
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 <sup>21</sup>	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	OR
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	OR
127-18-4	Tetrachloroethene	35 <sup>37</sup>	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

\* Reported from BMM63L FORM I LCV

OLC02.0

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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
2.				
3.				
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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	OR
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	OR
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	OR
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	OR
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	OR
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	OR
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
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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	NR
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	NR
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	NR
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	NR
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, BMM66 FORM I LCV

OLC02.0

000138

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	OR
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	<del>1300*1000</del>	<del>E</del>
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	OR
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	<del>250*360</del>	<del>E</del>
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	OR
127-18-4	Tetrachloroethene	<del>3500*550</del>	<del>E</del>
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 transferred from BMM67 DL2  
 † Value transferred from BMM67 DL2

FORM I LCV

OLC02.0

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	SR
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethane	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	SR
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	SR
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
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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
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1LCA  
 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	1	U
156-59-2	cis-1,2-Dichloroethene	59 * 0.8	J
156-60-5	trans-1,2-Dichloroethene	57	E
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	OR
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	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	OR
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

\* TRANSFERRED FROM BMM69 DL2 FORM I LCV  
 1 TRANSFERRED FROM BMM69 DL2

OLC02.0

000194

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 382

BMM69
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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	<del>NJ</del> <i>R</i>
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 383

BMM71

*Field*

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	<i>or</i>
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	<i>or</i>
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	<i>or</i>
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  
*Handwritten initials*

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	PR
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	PR
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. 386

BMM72
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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  
*TRIP*

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	<i>OR</i>
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	<i>OR</i>
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	<i>OR</i>
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
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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
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 389

BMM75

*TRIP*

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	U
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
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
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

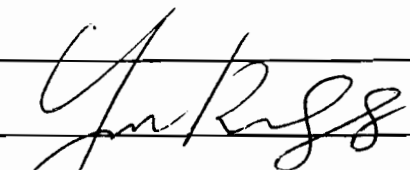
SUBJECT: QUALITY ASSURED DATA

MESSAGE

PLEASE SIGN BELOW IN ACKNOWLEDGEMENT OF RECEIPT OF THE FOLLOW-  
ING AND RETURN ONE COPY OF THIS RECORD OF COMMUNICATION TO THE RSCC-REGION II.

① Spectrum Finishing 26/14 AATS Inorg 18S/18W

REPLY BY: \_\_\_\_\_

SIGNATURE:  DATE: 6/29/98

DATE RECEIVED BY RSCC:  / /

cc: EPA TASK MONITOR  
ESAT, MANAGER  
file

# RECORD OF COMMUNICATION

392

## 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  
PHASE PSI 18 WATER  
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
<u>John Bulich</u>	<u>6-2-98</u>	<u>John Bulich</u>	<u>5-13-98</u>
<u>CS</u>	<u>6/23/98</u>	<u>CS</u>	<u>6/10/98</u>
<u>John Bulich (DCR)</u>	<u>6/23/98</u>	<u>John Bulich</u>	<u>6/23/98</u>
<u>DCR</u>	<u>6/23/98</u>	<u>Hanif Sheikh</u>	<u>6/23/98</u>
<u>Hanif Sheikh</u>	<u>6/25/98</u>	<u>DCR Bulich</u>	<u>6/25/98</u>

STANDARD OPERATING PROCEDURE

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.

STANDARD OPERATING PROCEDURE

Title: Evaluation of Metals Data for the Contract Laboratory Program Appendix A.2: Data Assessment Narrative

Date: Jan. 1992 Number: HW-2 Revision: 11

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

## STANDARD OPERATING PROCEDURE

Page 3 of 10

Title: Evaluation of Metals Data for the  
Contract Laboratory Program  
Appendix A.2: Data Assessment Narrative

Date: Jan. 1992  
Number: HW-2  
Revision: 11

## 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<sub>min</sub> = 77.8).

Title: Evaluation of Metals Data for the Contract Laboratory Program Appendix A.2: Data Assessment Narrative

Date: Jan. 1992 Number: HW-2 Revision: 11

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.



## STANDARD OPERATING PROCEDURE

Page 5 of 10

Title: Evaluation of Metals Data for the  
Contract Laboratory Program  
Appendix A.2: Data Assessment Narrative

Date: Jan. 1992  
Number: HW-2  
Revision: 11

## 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.



STANDARD OPERATING PROCEDURE

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Title: Evaluation of Metals Data for the  
Contract Laboratory Program  
Appendix A.3: Contract Non-Compliance  
(SO Reports)

Date: Jan. 1992  
Number: 84-2  
Revision: 11

CONTRACT NON-COMPLIANCE  
(SO REPORT)

Regional Review of Uncontrolled Hazardous Waste  
Site Contract Laboratory Data Package

CASE NO. 26114

The analytical (laboratory name) \_\_\_\_\_  
organic data package received at Region II has been reviewed and the quality assurance and  
performance data summarized. The data reviewed included:  
Sample No.:

Matrix:

Contract No. (\_\_\_\_\_) requires that specific analytical work be done and  
the associated reports be provided by the contractor to the Regions, DSW-W, and SO. The  
general criteria used to determine the performance were based on an examination of:  
- Data Completeness - Duplicate Analysis Results  
- Matrix Spike Results - Blank Analysis Results  
- Calibration Standards Results - MS Results

Areas of non-compliance with the above contract are described below.

Notes:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CS  
Reviewer's Initial

6/18/92  
Date

## STANDARD OPERATING PROCEDURE

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Page 8 of 1

Title: Evaluation of Metals Data for the  
Contract Laboratory Program  
Appendix A.4: Mailing List for Data Reviewers

Date: Jan 1995  
Number: HW-  
Revision: 1

DPO MAILING LIST FOR DATA REVIEWERS

- |     |   |     |   |
|-----|---|-----|---|
| 1.  | USEPA Region I (ESD)<br>60 Westview Street<br>Lexington, MA 02173<br>Deb Szaro<br>(617) 861-4312<br>CT, ME, MA, NH, RI, VT<br>CAA, Resource Analysis, York<br>EIL, Stinder, TMA   | 2.  | USEPA Region II ESD<br>Woodbridge Avenue<br>Edison, NJ 08837<br>Lisa Garton Vidulich<br>(201) 321-6676<br>NJ, NY, PR, VI<br>Century, Chemtech, US Test, Nanco<br>ETC, Gadsco, EMS, Galsco, ICM  |
| 3.  | USEPA Region III (CRL)<br>839 Bestgate Road<br>Annapolis, MD 21401<br>Chuck Seads<br>(301) 266-9180<br>DE, MD, PA, VA, WV, DC<br>Cotec, Hitman, JTC, MACX, VERSAR,<br>ITAS, Weston, MCVES, EA Engineering,<br>Subject Tech, KEYPA   | 4.  | USEPA Region IV (ESD)<br>Analytical Support Branch<br>College Station Road<br>Athens, GA 30613<br>Tom Bennett, Jr.<br>(404) 546-3112<br>AL, FL, GA, KY, MS, NC, SC, TN<br>CompuChem, EPS, ESE, PBS&J,<br>Triangle Labs                                    |
| 5.  | USEPA Region V (ESD)<br>536 South Clark Street<br>Tenth Floor, CRL<br>Chicago, IL 60605<br>Pat Curilla<br>(312) 353-9087<br>IL, IN, MI, MN, OH, WI<br>NLE, TAJ/ENG  | 6.  | USEPA Region VI (ESD)<br>Monterey Park Plaza, Bldg. C<br>6608 Hornwood Drive<br>Houston, TX 77074<br>David Stockton<br>(713) 953-3425<br>AR, LA, NM, TX, OK<br>ANACON, RADIAN, SPECS, EIS, Glodex<br>Research, Inc, SPL, Inc, SWRI<br>Allied, KEYTX, EIRA |
| 7.  | USEPA Region VII Laboratory<br>25 Pevaston Road<br>Kansas City, KS 66115<br>Debra Morey<br>(913) 236-3881<br>IO, KS, NB, MO<br>Wilson, Kansas City Scientific<br>Enterprises, Eagle Picher  | 8.  | USEPA Region VIII Laboratory<br>Box 25366<br>Denver Federal Center<br>Lakewood, CO 80225<br>Eve Hoffman<br>(303) 236-7371<br>CO, ND, SD, UT, WY, MT<br>ACCU, CSNRI, RMAL, Data Chem, Conrad   |
| 9.  | USEPA Region IX (ESD)<br>QA Management Section<br>215 Fremont Street<br>San Francisco, CA 94105<br>Kent Kitchingman<br>(415) 974-0924<br>AZ, CA, HI, NV, American Samoa,<br>Guam Trust Territories of Pacific<br>Islands, Wake Island<br>ALL CAL Weston, S-Cubed, IT, CA,<br>Vega | 10. | USEPA Region X Laboratory<br>P.O. Box 549<br>Manchester, WA 98353<br>Gerald Muth<br>(206) 442-0370<br>AK, ID, OR, WA<br>Lauds Testing Labs, Century Testing<br>Labs (For VOA Only), Weyerhaeuser Co.,<br>Columbia Testing, Silver Valley                  |
| 11. | Carla Dempsey - (OS-230)<br>USEPA<br>401 "M" Street S.W.<br>Washington, DC 20460<br>PTS 202-5746  | 12. | Edward Kantor<br>USEPA<br>EMSL-LV<br>944 E. Harmon Avenue<br>Box 93478<br>Las Vegas, NV 89119   |
| 13. | Sample Management Office  |     |   |

STANDARD OPERATING PROCEDURES

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Title: Evaluation of Metals Data for the  
Contract Laboratory Program  
Appendix A.5: CLP Data Assessment  
Summary Form (Inorganics)

Page 9 of 10  
Date: Jan 92  
Number: HW-2  
Revision: 11

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	Spillo Recovery	Detection Limit	LCS	Serial Dilution	MSA	Total Analytes	Rejections
ICP						17					792	17
Flame AA												
Flame 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	Spillo Recovery	Dup Lab	Dup Field	Detection Limit	LCS	Serial Dilution	MSA	Total Analytes	Estimation
ICP		2				36	9	2			45		792	94
Flame AA														
Flame 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.

STANDARD OPERATING PROCEDURES

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Title: Evaluation of Metals Data for the  
 Contract Laboratory Program  
 Appendix A.6: CLP Data Assessment  
 Inorganic Analysis

Page: 10 of 10  
 Date: Jan. 92  
 Number: HW-2  
 Revision: 11

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:



## 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		14.6000			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	2.3000	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		9.5000	B	7.4000	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

405

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 MBKLO9  
46

Evaluation of Metals Data for the Contract Laboratory Program (CLP)

based on

SCF. 3/90

(SOP Revision XI)

PREPARED BY:

Hanif Sheikh  
Hanif Sheikh, Quality Assurance Chemist  
Toxic and Hazardous Waste Section

DATE: 1-30-92

APPROVED BY:

Kevin Kubik  
Kevin Kubik, Chief  
Toxic and Hazardous Waste Section

DATE: 1-30-92

APPROVED BY:

Robert Runyon  
Robert Runyon, Chief  
Monitoring Management Branch

DATE: 1/30/92

Title: Evaluation of Metals Data for the Contract Laboratory Program

Date: Jan. 1992  
Number: HW-2  
Revision: 11

- 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 TFO, and the other one to EPA EMSL office in Las Vegas. The addresses of TFOs 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)

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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 (RSOC) 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.

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Table with 4 columns: Question, YES, NO, N/A. Rows include items A.1.1 through A.1.5 with checkboxes and action instructions.

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A.1.6 Form I to IX Yes No N/A

A.1.6.1 Are all the Form I through Form IX labeled with:

Laboratory name?	<input checked="" type="checkbox"/>	—	—
Case/SAS number?	<input checked="" type="checkbox"/>	—	—
EPA sample No.?	<input checked="" type="checkbox"/>	—	—
SDG No.?	<input checked="" type="checkbox"/>	—	—
Contract No.?	<input checked="" type="checkbox"/>	—	—
Correct units?	<input checked="" type="checkbox"/>	—	—
Matrix?	<input checked="" type="checkbox"/>	—	—

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?	<input checked="" type="checkbox"/>	—	—
(b) all analytes analyzed by GFAA?	<input type="checkbox"/>	—	✓
(c) all analytes analyzed by AA Flame?	<input type="checkbox"/>	—	✓
(d) Mercury?	<input checked="" type="checkbox"/>	—	—
(e) Cyanide?	<input checked="" type="checkbox"/>	—	—

ACTION: If yes, prepare Telephone Log, contact laboratory for corrected data and correct errors with red pencil and initial.

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		YES	NO	N/A
A.1.7	<u>Raw Data</u>			
A.1.7.1	Digestion Log* for flame AA/ICP (Form XIII) present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Digestion Log for furnace AA Form XIII present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Distillation Log for mercury Form XIII present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Distillation Log for cyanides Form XIII present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are pH values (pH<2 for all metals, pH>12 for cyanide) present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	*Weights, dilutions and volumes used to obtain values.			
	Percent solids calculation present for soils/sediments?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are preparation dates present on sample preparation logs/bench sheets?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A.1.7.2	Measurement read out record present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ICP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Flame AA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Furnace AA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Mercury	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cyanides	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A.1.7.3	Are all raw data to support all sample analyses and QC operations present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Legible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Properly Labeled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**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.

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		YES	NO	N/A
A.1.8	<u>Holding Times</u> - (aqueous and soil samples ) (Examine sample traffic reports and digestion/distillation logs.)			
	Mercury analysis (28 days) . . . . . exceeded?	—	<input checked="" type="checkbox"/>	—
	Cyanide distillation (14 days) . . . . . exceeded?	—	<input checked="" type="checkbox"/>	—
	Other Metals analysis (6 months) . . . . . exceeded?	—	<input checked="" type="checkbox"/>	—
	<u>NOTE:</u> 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.			
	<u>ACTION:</u> 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?	—	<input checked="" type="checkbox"/>	—
	<u>Action:</u> If yes, flag the associated metals and cyanides data as estimated.			
A.1.9	<u>Form I (Final Data)</u>			
A.1.9.1	Are all Form I's present and complete?	<input checked="" type="checkbox"/>	—	—
	<u>ACTION:</u> 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?	<input checked="" type="checkbox"/>	—	—
	Are soil sample results for each parameter corrected for percent solids?	<input checked="" type="checkbox"/>	—	—
	Are all "less than IDL" values properly coded with "U"?	<input checked="" type="checkbox"/>	—	—



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Are the correct concentration qualifiers used with final data? YES [X] NO N/A

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? YES [X] NO N/A

Was a brief physical description of samples given on Form I's? YES [X] NO N/A

Was the dilution of any sample diluted beyond the requirements of the contract noted on Form I or Form XIV? YES [X] NO N/A

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? YES [X] NO N/A

Is record of 5 point calibration present for Hg analysis? YES [X] NO N/A

Is record of 4 point calibration present for: Flame AA? YES [X] NO N/A

Furnace AA? YES [X] NO N/A

Cyanides? YES [X] NO N/A

Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses? YES [X] NO N/A

ACTION: If no for any of the above, write in the Contract Problem/Non-Compliance section of the "Data Assessment Narrative".

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A.1.10.2 Is correlation coefficient less than 0.995 for:

YES NO N/A

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?

[ ] ✓ — —

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**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.

YES NO N/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".

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  $\pm$  CRDL  
 ICP Analysis - \*\*True Value  $\pm$  2CRDL  
 CN Analysis - \*\*True Value  $\pm$  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.

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A.1.12.2	Was CRI analyzed after ICV/ICB and before the final CCV/CCB, and twice every eight hours of ICP run?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 CRI 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)?

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ACTION: If no, prepare Telephone Record Log, contact laboratory and write in the Contract-Problems/ Non-Compliance section of the "Data Assessment Narrative". YES NO N/A

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)? [ ] YES NO N/A

Are all calibration blanks less than two times Instrument Detection Limit (when IDL > CRDL)? [ ] YES NO N/A

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)? [ ] YES NO N/A

each batch of digested samples? [ ] YES NO N/A

each matrix type? [ ] YES NO N/A

both AA and ICP when both are used for the same analyte? [ ] YES NO N/A

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).

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		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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>ACTION:</b> 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>ACTION:</b> 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>ACTION:</b> If yes, reject (red-line) all associated sample results less than 10xCRDL.			
A.1.15	<u>Form IV (ICP Interference Check Sample)</u>			
A.1.15.1	Present and complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(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)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>ACTION:</b> 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 $\pm 20\%$ of true or established mean value.			
	Are all Interference Check Sample results inside the control limits ( $\pm 20\%$ )?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	YES	NO	N/A
<b>ACTION:</b> 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?	<input checked="" type="checkbox"/>	—	—
		each matrix type?	<input checked="" type="checkbox"/>	—	—
		each conc. range (i.e. low, med., high)?	<input checked="" type="checkbox"/>	—	—
		For both AA and ICP when both are used for the same analyte?	<input type="checkbox"/>	—	<input checked="" type="checkbox"/>

**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?	—	<input checked="" type="checkbox"/>	—
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**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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	—
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	If no, is sample concentration greater than or equal to four times spike concentration?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	—
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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%?

[ ] [ ] [ ]



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	YES	NO	N/A
<b>ACTION:</b> 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		each matrix type?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		each concentration range (i.e. low, med., high)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		both AA and ICP when both are used for the same analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**ACTION:** If no for any the above, flag as estimated (J) all the data  $\geq$ 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**ACTION:** If yes, flag all data  $\geq$ 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 $\leq$ $\pm$ CRDL)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	If no, are all results outside the control limits flagged with an * on Form I's and VI?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
--	---	--------------------------	--------------------------	-------------------------------------

**ACTION:** If no, write in the Contract - Problems/Non-Compliance section of "Data Assessment Narrative".

\* Substitute IDL for CRDL when IDL > CRDL.

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- 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.

YES NO N/A

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?

\_\_\_ [X] \_\_\_

Is any difference\*\* between sample and duplicate greater than \*CRDL where sample and/or duplicate is less than 5 times \*CRDL?

\_\_\_ [X] \_\_\_

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%? \_\_\_ [X] \_\_\_

Is any \*\*difference between sample and duplicate (where sample and/or duplicate is less than 5x\*CRDL) :

> 2\*CRDL? \_\_\_ [X] \_\_\_

\* Substitute IDL for CRDL when IDL > CRDL.

\*\* Use absolute values of sample and duplicate to calculate the difference.

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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?

[X] \_ \_

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?

\_ [X] \_

Is any \*\*difference between sample and duplicate greater than \*CRDL where sample and/or duplicate is less than 5 times \*CRDL?

[X] \_ \_

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.

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.1.18.3 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%?

YES NO N/A [ ] [x] [ ]

Is any \*\*difference between sample and duplicate (where sample and/or duplicate is less than 5x \*CRDL) :

>2x \*CRDL?

YES NO N/A [ ] [x] [ ]

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?

YES NO N/A [x] [ ] [ ]

each batch samples digested/distilled?

YES NO N/A [x] [ ] [ ]

both AA and ICP when both are used for the same analyte?

YES NO N/A [ ] [ ] [x]

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.

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.1.19.2 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.

STANDARD OPERATING PROCEDURE

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.1.20 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 SDG? each matrix type? each concentration range (i.e. low, med.)?

Response checkboxes for A.1.20.1: [checked] [ ] [ ] [checked] [ ] [ ] [checked] [ ] [ ]

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?

Response checkboxes for A.1.20.2: [ ] [checked] [ ]

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 "S" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.

Response checkboxes for A.1.20.3: [checked] [ ] [ ]

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%?

Response checkboxes for > 10%: [checked] [ ] [ ]

>= 100%?

Response checkboxes for >= 100%: [ ] [checked] [ ]

STANDARD OPERATING PROCEDURE

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

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%. YES NO N/A

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 Absorption (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.

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

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.



STANDARD OPERATING PROCEDURE

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.1.23 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).

YES NO N/A [ ] [ ] [ ]

Were any analyses performed for inorganic as well as total (organic + inorganic) analytes on the same sample(s)?

YES NO N/A [ ] [ ] [ ]

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%?

YES NO N/A [ ] [ ] [ ]

A.1.23.3 Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 50%?

YES NO N/A [ ] [ ] [ ]

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 [ ] [ ] [ ]

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

If no, was field blank value already rejected due to other QC criteria? YES NO N/A [ ] [ ] [ ]

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:

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: 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.

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. [ ] [ ] [ ]

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

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 XI (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 flagged 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

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**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:

<b><u>SWL SOP #</u></b>	<b><u>Method SOP is based</u></b>
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.

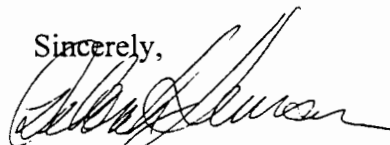
**Lab Control Spikes:** No problems.

**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

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**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

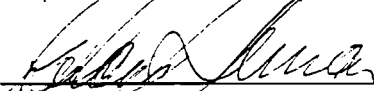
**SDG No. / First Sample in SDG:** MBKL09  
(Lowest EPA Sample Number  
in first shipment of samples) **RECEIPT DATE:** 08-Apr-98

**LastSample in SDG:** MBKL14  
(Highest EPA Sample Number  
in last shipment of samples) **RECEIPT DATE:** 10-Apr-98

**EPA Sample Numbers in the SDG (listed in alphanumeric order by Rec'd date)**

1. <u>MBKL09</u> <u>33553.01</u>	11. <u>MBKL34</u> <u>33553.12</u>
2. <u>MBKL10</u> <u>33553.02</u>	12. <u>MBKL35</u> <u>33553.13</u>
3. <u>MBKL11</u> <u>33553.03</u>	13. <u>MBKL36</u> <u>33553.14</u>
4. <u>MBKL15</u> <u>33553.05</u>	14. <u>MBKL37</u> <u>33553.15</u>
5. <u>MBKL16</u> <u>33553.06</u>	15. <u>MBKL39</u> <u>33553.16</u>
6. <u>MBKL17</u> <u>33553.07</u>	16. <u>MBKL40</u> <u>33553.17</u>
7. <u>MBKL18</u> <u>33553.08</u>	17. <u>MBKL41</u> <u>33553.18</u>
8. <u>MBKL30</u> <u>33553.09</u>	18. <u>MBKL43</u> <u>33553.19</u>
9. <u>MBKL32</u> <u>33553.10</u>	19. <u>MBKL44</u> <u>33553.20</u>
10. <u>MBKL33</u> <u>33553.11</u>	20. <u>MBKL14</u> <u>33553.04</u>

**NOTE:** There are a maximum of 20 field samples in SDG. Attach Traffic Reports to this form in alphanumeric order (i.e., the 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.	<u>      MBKL09      </u>	<u>      300      </u>
2.	<u>      MBKL10      </u>	<u>      307      </u>
3.	<u>      MBKL11      </u>	<u>      307      </u>
4.	<u>      MBKL14      </u>	<u>      300      </u>
5.	<u>      MBKL15      </u>	<u>      370      </u>
6.	<u>      MBKL16      </u>	<u>      371      </u>
7.	<u>      MBKL17      </u>	<u>      372      </u>
8.	<u>      MBKL18      </u>	<u>      373      </u>
9.	<u>      MBKL30      </u>	<u>      374      </u>
10.	<u>      MBKL32      </u>	<u>      375      </u>
11.	<u>      MBKL33      </u>	<u>      376      </u>
12.	<u>      MBKL34      </u>	<u>      377      </u>
13.	<u>      MBKL35      </u>	<u>      377      </u>
14.	<u>      MBKL36      </u>	<u>      379      </u>
15.	<u>      MBKL37      </u>	<u>      380      </u>
16.	<u>      MBKL39      </u>	<u>      381      </u>
17.	<u>      MBKL40      </u>	<u>      382      </u>
18.	<u>      MBKL41      </u>	<u>      383      </u>
19.	<u>      MBKL43      </u>	<u>      384      </u>
20.	<u>      MBKL44      </u>	<u>      385      </u>

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

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

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

Table with 2 columns: EPA Sample No. and Lab Sample ID. Rows include MBKL40 (33553.17), MBKL41 (33553.18), MBKL43 (33553.19), and 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:

Blank lines for 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: [Handwritten Signature] 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.

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	<del>477</del>	-	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	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	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

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:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

1  
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	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	P
	Cyanide	1.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_  
 Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

1  
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	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	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

Contact  Phone  Fax  
Recv'd Via:  Vmail  Memo  Other

Date/Time of Contact: 4/8/98 4:30 PM

Contact/Org./Phone # Deborah Inman/ American Analytical &  
Technical Services, Inc. (918) 251-2858

Initiated By:  EPA  CLASS  Engr. Contr.  
 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, even though it was listed on the TR/COC. They did receive sample MBKL16 which was not listed on the TR/COC. And lastly, sample number MBKL37 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/COCs. The samplers will try to fax a better copy of the TR/COC to the lab. And sample MBKL37 should be used for QC.

4/9/98 10:30 AM CLASS called John Troost, AATSLA, and asked if the lab had inadvertently received sample MBKL14.

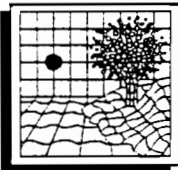
4/9/98 4:10 PM John Troost found sample MBKL14 and is going to Fed Ex the sample to AATS using the samplers Fed-Ex account number.

4/9/98 4:20 PM CLASS called Deborah Inman and relayed the above resolutions.

CLPAS Notification: Yes Completed Date/Time: 4/15/98 9:16 AM

Related ROCs: Distribution  Region  CLASS  AOC  Work Assign. Man.

W.A.#: ST&R



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**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: DYWCORP  
 Client Contact: Nicole Coene 1-703-264-9280  
 Call Initiated By: K Laboratory \_\_\_ Region

In reference to data for the following sample number(s):

MBKL14, MBKL16, MBKL37

Summary of Questions/Issues Discussed:

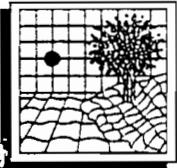
MBKL14 - This sample is missing from the cooler but is on TR  
MBKL16 - We have this sample but it is not listed on the TR  
MBKL37 - we have triple volume of this sample. It is not listed  
as DAPC but we wanted to see if it should be  
used as one

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 <sup>Region</sup> ~~lab~~ shipped MBKL14. MBKL16 is listed on page 2 of  
3 on the <sup>24-9-98</sup> TR's. MBKL37 is to be used as DAPC

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: 4-23-98

Laboratory Contact: Deborah Inman

Client Name: DIVCORP

Client Contact: ED DAVID

Call Initiated By:      Laboratory X Region

In reference to data for the following sample number(s):  
MBKL 16, MBKL 17, MBKL 35, MBKL 36

Summary of Questions/Issues Discussed:  
These samples do not appear to be TR's

Summary of Resolution:  
I was able to show Ed David where MBKL 35 & MBKL 36 were (on TR 2 of 3) but our copy of the TR was so bad that MBKL 16 & 17 were not able to locate as per my previous conversation with Nicole Coeur. Ed was going to find out if photo tubes 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

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287  
460

**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:

<u>SWL SOP #</u>	<u>Method SOP is based</u>
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  
JP*

**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



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461

**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

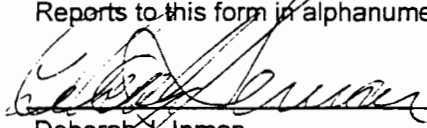
SDG No. / First Sample in SDG: MBKL46  
(Lowest EPA Sample Number  
in first shipment of samples) RECEIPT DATE: 08-Apr-98

Last Sample in SDG: MBKL49  
(Highest EPA Sample Number  
in last shipment of samples) RECEIPT DATE: 9  
10-Apr-98  
04-22-98

EPA Sample Numbers in the SDG (listed in alphanumeric order by Rec'd date)

1. <u>MBKL46</u>	<u>33553.21</u>	11. <u>MBKL28</u>	<u>33542.09</u>
2. <u>MBKL47</u>	<u>33553.22</u>	12. <u>MBKL38</u>	<u>33542.10</u>
3. <u>MBKL12</u>	<u>33542.01</u>	13. <u>MBKL42</u>	<u>33542.11</u>
4. <u>MBKL13</u>	<u>33542.02</u>	14. <u>MBKL45</u>	<u>33542.12</u>
5. <u>MBKL19</u>	<u>33542.03</u>	15. <u>MBKL48</u>	<u>33542.13</u>
6. <u>MBKL20</u>	<u>33542.04</u>	16. <u>MBKL49</u>	<u>33542.14</u>
7. <u>MBKL24</u>	<u>33542.05</u>	17. _____	_____
8. <u>MBKL25</u>	<u>33542.06</u>	18. _____	_____
9. <u>MBKL26</u>	<u>33542.07</u>	19. _____	_____
10. <u>MBKL27</u>	<u>33542.08</u>	20. _____	_____

NOTE: There are a maximum of 20 field samples in SDG. Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form)

  
Deborah J. Inman  
Inorganic Supervisor

April 17, 1998  
Date

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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.	<u>          MBKL46          </u>	<u>          271          </u>
2.	<u>          MBKL47          </u>	<u>          272          </u>
3.	<u>          MBKL12          </u>	<u>          273          </u>
4.	<u>          MBKL13          </u>	<u>          274          </u>
5.	<u>          MBKL19          </u>	<u>          275          </u>
6.	<u>          MBKL20          </u>	<u>          276          </u>
7.	<u>          MBKL24          </u>	<u>          277          </u>
8.	<u>          MBKL25          </u>	<u>          278          </u>
9.	<u>          MBKL26          </u>	<u>          279          </u>
10.	<u>          MBKL27          </u>	<u>          280          </u>
11.	<u>          MBKL28          </u>	<u>          281          </u>
12.	<u>          MBKL38          </u>	<u>          282          </u>
13.	<u>          MBKL42          </u>	<u>          283          </u>
14.	<u>          MBKL45          </u>	<u>          284          </u>
15.	<u>          MBKL48          </u>	<u>          285          </u>
16.	<u>          MBKL49          </u>	<u>          286          </u>
17.	<u>                          </u>	<u>                          </u>
18.	<u>                          </u>	<u>                          </u>
19.	<u>                          </u>	<u>                          </u>
20.	<u>                          </u>	<u>                          </u>



























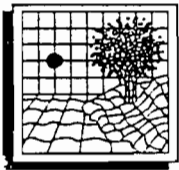












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**CLIENT/LABORATORY COMMUNICATION SYSTEM**  
**Telephone Record Log**

SWL \_\_\_ / AAT X In reference to Case/ Contract / Proposal 240114  
Date of Call: 4-22-98  
Laboratory Contact: Dorah Timma  
Client Name: J W COPP  
Client Contact: ED DAVID  
Call Initiated By: \_\_\_ Laboratory X Region

In reference to data for the following sample number(s):  
MBK49

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 & sent to Ed

Signature: Dorah Timma

Date: 4-22-98

Distribution: (1) Lab Copy, (2) Region Copy, (3) CLASS Copy

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**REFERENCE NO. 42**

~~JUNK~~

PLANS FOR  
DRY WELLS  
WILL BE INSERTED  
HERE

---

REFERENCE NO. 43



Blair Hinge  
Originator

**PHONE CONVERSATION RECORD**

Conversation with:  
Name Richard Gabrowski  
Company NYSDEC  
Address \_\_\_\_\_  
Phone 518-457-1703  
Subject Spectrum Finishing - NYSDEC Plans

Date 10 / 5 / 98  
Time 9:30 AM/PM

Originator Placed Call  
 Originator Received Call  
W.O. No. 04200-022-081-0132

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 \_\_\_\_\_

REFERENCE NO. 44



9911-03

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, 20IG
	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	<del>START</del>

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.

	<u>Amount Budgeted</u>	<u>Cost to Date</u>	<u>Remaining Project Funds</u>
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**

4711-02

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. Dalioia, 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.

	<u>Amount Budgeted</u>	<u>Cost to Date</u>	<u>Remaining Project Funds</u>
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



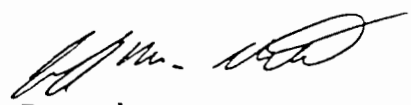
9711-03

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	<u>START</u>

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. Twenty-five steel and 12 poly vats have been cleaned to date. Two rollofs 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 transferred 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.

	<u>Amount Budgeted</u>	<u>Cost to Date</u>	<u>Remaining Project Funds</u>
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

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

I. HEADING

Date: February 13, 1998

From: Jeff M. Bechtel, OSC *J.M. Bechtel*  
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.

	<u>Amount Budgeted</u>	<u>Cost to Date</u>	<u>Remaining Project Funds</u>
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

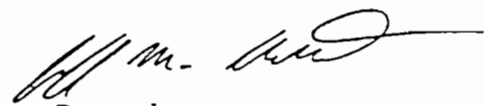
REFERENCE NO. 48



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.

	<u>Amount Budgeted</u>	<u>Cost to Date</u>	<u>Remaining Project Funds</u>
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

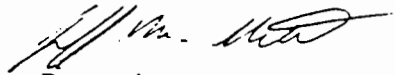
REFERENCE NO. 49

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	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.: 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.

	<u>Amount Budgeted</u>	<u>Cost to Date</u>	<u>Remaining Project Funds</u>
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

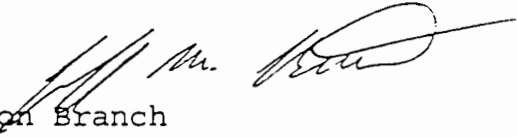


U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT

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.

	<u>Amount Budgeted</u>	<u>Cost to Date</u>	<u>Remaining Project Funds</u>
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-9027

REPORT

Prepared for

SPECTRUM METAL FINISHING  
CORPORATION

50 Dale Street  
Pinelawn, N.Y.

Prepared by

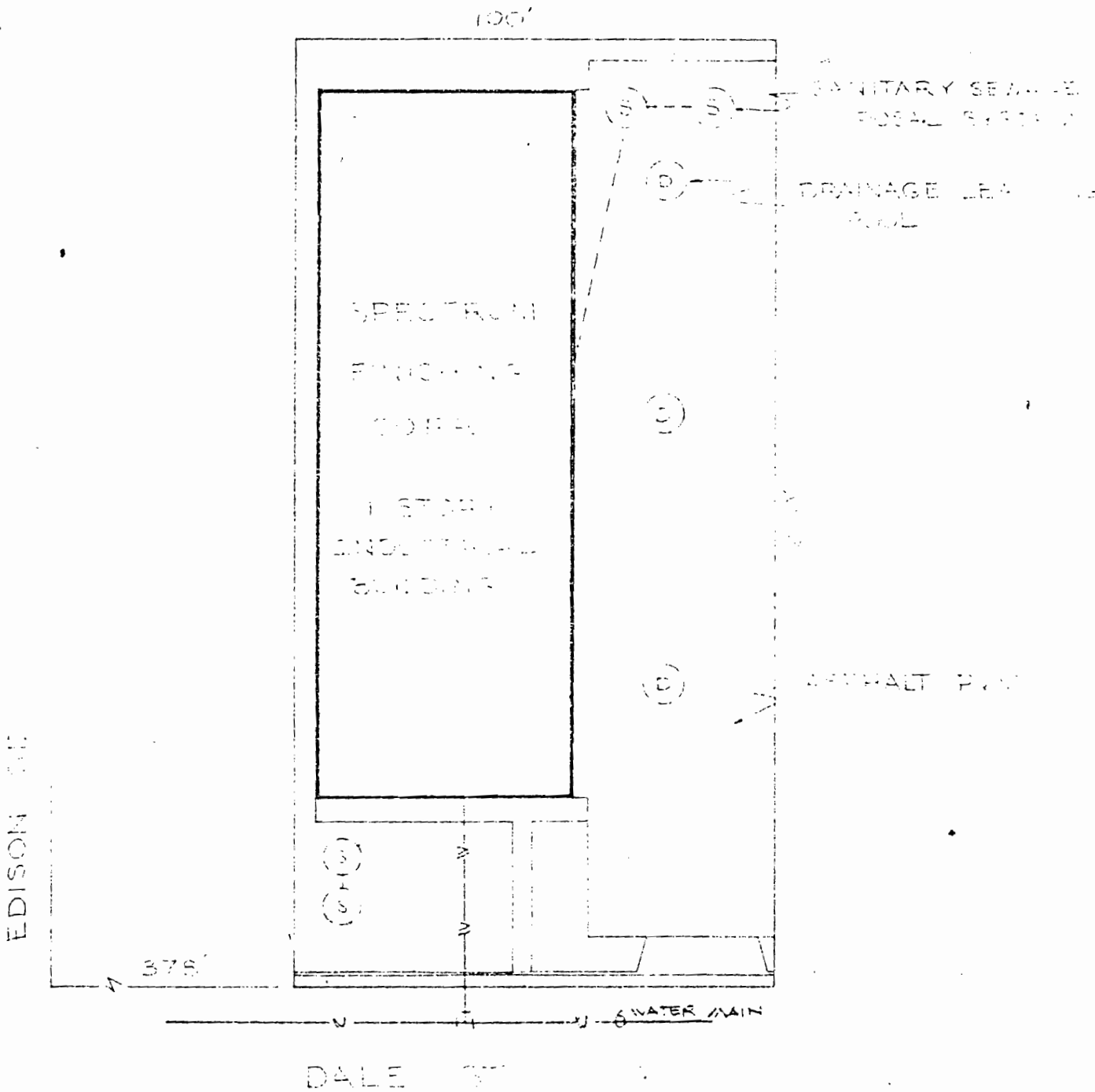
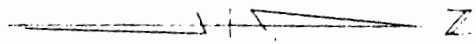
JOHN A. JACOBSEN, ASSOCIATES

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, Nickel, 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 supernatant, the batch will be tested for chromium, iron, manganese, nickel and pH. If the batch is found to be within discharge standards, the supernatant 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 supernatant will then be tested for cadmium and copper. When the batch meets discharge requirements, the supernatant 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 <sub>2</sub> :30-34 oz/gal Hcl 14-18 oz/gal
5	3' x 3' x 3'	Nickel Plate	ToT Ni: 9-15 oz/gal; H <sub>3</sub> BO <sub>3</sub> :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 <sub>3</sub> COO) <sub>2</sub> : .4-.7 oz/gal pH 5.3-5.5
11	2' x 2' x 2 1/2'	Dow 7 (Chromate Coating for Magnesium)	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> :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 <sub>3</sub> :6-14.4 oz/gal;PH .3-.9; Na <sub>2</sub> CO <sub>3</sub> :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 <sub>3</sub> PO <sub>4</sub> : 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 <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> :1-4 oz/gal;H <sub>2</sub> SO <sub>4</sub> :.5%

NO.	DEMEASIONS	NAME	CONTENTS
18	3' x 4' x 8'	Water Rinse	Water
19	4' x 3' x 3'	Nitric Acid	HNO <sub>3</sub> :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 <sub>3</sub> :6-14.4 oz/gal pH:.3-.9
24	8' x 3' x 3'	Cadnium Plating Bath	Na <sub>2</sub> CO <sub>3</sub> :5.0 oz/gal;Fe:100 ppm max; NaCN:13-17 oz/gal
25	3' x 4' x 3'	Water Rinse	ToT.Cd:2.8-3.2 oz/gal; ToT Ti:55-80 ppm Water
26	3' x 3' x 3'	Hot Water Rinse	WATER Hot Water
27	5' x 3' x 3'	Flourboric Acid	H BF <sub>4</sub> :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 <sub>2</sub> SO <sub>4</sub> :22-26.6 oz/gal
30	3' x 4' x 4'	Sodium Dichromate Seal	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> :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 <sub>3</sub> :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 <sup>2</sup>
42	2' x 3' x 3'	Cadmium Strip	NH <sub>4</sub> NO <sub>3</sub> :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

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TO MY WIFE JANICE,  
FOR SHARING HER DREAMS WITH ME

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LEWIS PUBLISHERS, INC.  
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Printed on acid-free paper

**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:

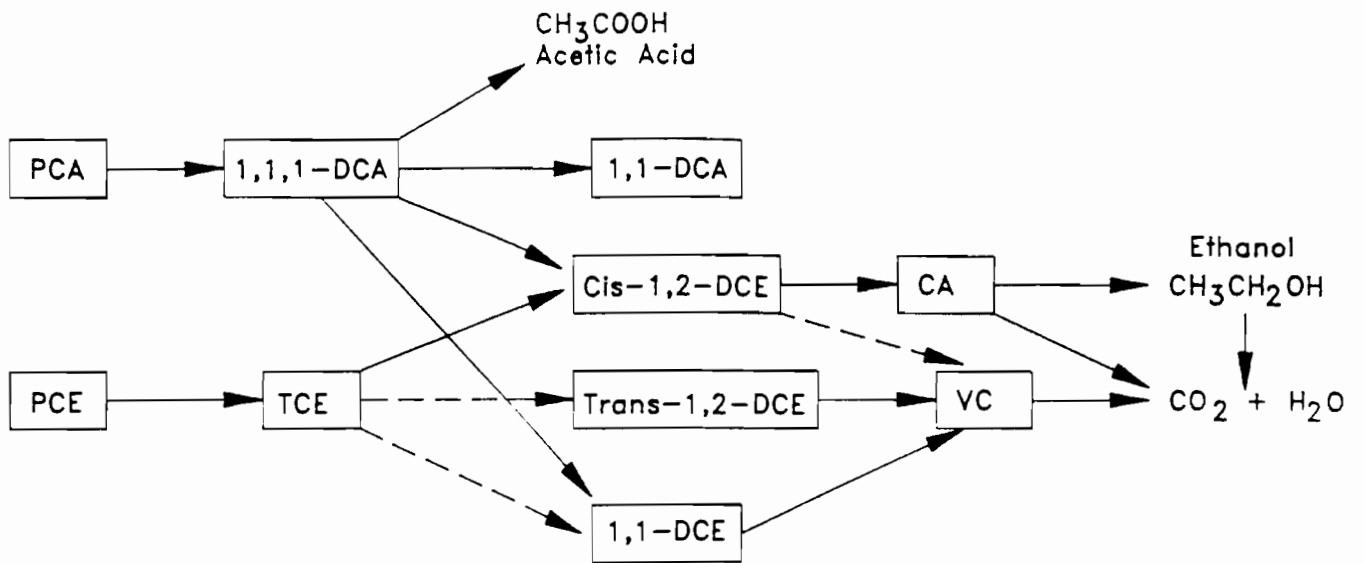
- Dioxane
- Ethanolamines
- Ethyl benzene
- Ethylenediamine
- n-Butylamine

**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 = TRICHLOROETHENE  
 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



FIGURE  
 TRANSFORMATIONS OF  
 CHLORINATED ALIPHATIC HYDROCARBONS

REV. NO.	DATE	BY	CHK. BY
B. MAC	4/29/84	1	0000
SCALE	1" = 1'	04200-015-021	1 1

REVISION # REV# DATE DATE PLOT NAME DWG-NAME  
 FILE NAME DWG-NAME.DWG DRAWN BY DRAWNBY

**REFERENCE NO. 54**

Application No.

NY 008 5561

SPDES File  
Region 1 - Ref. #47-0692  
Suffolk Co. Dept. Env. Control  
Mr. Quinn - BIP

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. Knowingly 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 and lasting  
(Give Date)  
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)		Other Limitations (Specify Units)		Monitoring Requirements	
		Daily Average	Daily Maximum	Average	Maximum	Measurement Frequency	Sample Type
001)	Sanitary Waste Only	No monitoring required.					
002)		Maximum Flow 1000 gpd.					
a)	Above ground Industrial Waste Holding Tanks -						
b)	No discharge to surface or ground allowed at any time. Contents to be removed by approved industrial waste scavenger only. Waste removal records must be maintained for inspection at any time.						

Permittee also subject to attached schedule A.

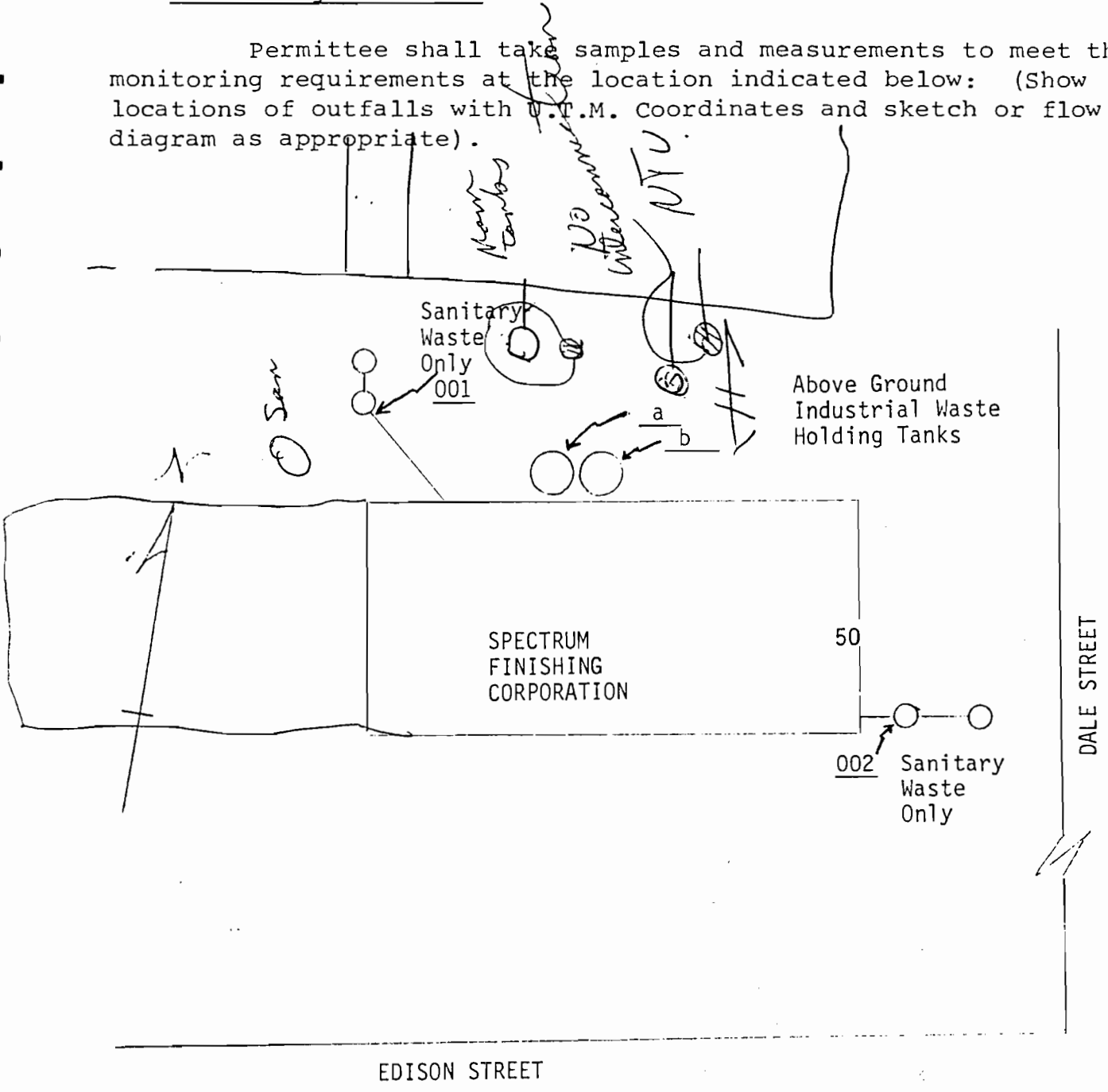
For the purposes of this subsection, the daily average discharge is the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating.

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. Permittee shall not discharge after the above

(Give Date)

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 Representative of Commissioner of the  
Department of Environmental Conservation

August 8, 1975

Date

*George K. Hansen*  
Signature

Attachments:

General Conditions  
Schedule "A"

**REFERENCE NO. 55**



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



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:

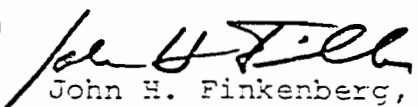
- 1. Hexavalent chromium 1.2 mg/l 6.
- 2. 7.
- 3. 8.
- 4. 9.
- 5. 10.

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. Finkenberq, Sr. Sanitarian  
Environmental Pollution Control

5 Horseblock Pl. (SEE REVERSE SIDE FOR STANDARDS)  
Armingville, NY 11738

(516) 451-4628

NOTICE OF VIOLATION  
COUNTY OF SUFFOLK



PETER F. COHALAN  
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Spectrum Finishing Corp.  
50 Dale Street  
West Babylon, New York 11704

Date May 23, 1983

SPDES NO. \_\_\_\_\_

Lab. No. IW 383024

Field No. 5 DO 3-9

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:

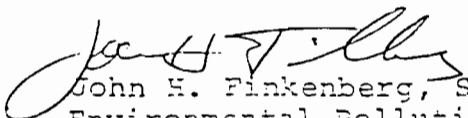
- |                      |     |
|----------------------|-----|
| 1. toluene 93.0ppb   | 6.  |
| 2. 2-Butanone 500ppb | 7.  |
| 3.                   | 8.  |
| 4.                   | 9.  |
| 5.                   | 10. |

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. Finkenbergh, Sr. Sanitarian  
Environmental Pollution Control

15 Horseblock Pl. (SEE REVERSE SIDE FOR STANDARDS)  
Farmingville, NY 11738

(516) 451-4628

COUNTY OF SUFFOLK

4



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  
Wastewater Management Section

GJW:he

cc: J. Finkenberg   X    
      J. Gladysz         
      D. Gobbi



File  
10/25/83

nice 5

18-247: 218:

SUFFOLK COUNTY HEALTH SERVICES LABORATORY  
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

FIELD NO. 10 0010-19 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 Bldg.  
 REMARKS/INSTRUCTIONS opposite paint storage rm.

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	.04 Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	.3
COD				NICKEL	
TOC				ZINC	
				LEAD	<.2
				CADMIUM	<.02
NITRATE-N				SILVER	
NITRITE				CHROMIUM-+6	<.02
AMMONIA-N					
TKN		pH (FIELD)	ph <sup>26</sup>		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>David Obry</u>	<u>SCDHS</u>	<u>Oct 19 83</u>	<u>11:05 AM</u>
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>G.M.</u>		<u>10/19 PM</u>	DATE TIME
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

6

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. Bab.  
 POINT OF COLLECTION same place North side Bld. middle  
 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 (0.02)	.2
NITRATE-N				SILVER	
NITRITE				X CHROMIUM-+6	<.02
AMMONIA-N					
TKN		pH (FIELD)	ph = 6		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>David Obry</u>	<u>SCDHS</u>	<u>Oct 19 83</u>	<u>11:00 AM</u>
2. POSSESSION BY			DATE - TIME	TO DATE - TIME
3. POSSESSION BY			DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>l.m.</u>		<u>10/19 PM</u>	DATE
5. POSSESSION BY			DATE - TIME	TO DATE - TIME
6. POSSESSION BY			DATE - TIME	TO DATE - TIME

File D-5

SUFFOLK COUNTY HEALTH SERVICES LABORATORY  
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247-2/82

FIELD NO. 100010-19 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 Stream across Northside Blvd.  
REMARKS/INSTRUCTIONS opposite paint storage rm.

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	0.04 Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	0.3
COD				NICKEL	
TOC				ZINC	
				LEAD	<0.2
				CADMIUM	<0.02
NITRATE-N				SILVER	
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)	pH=6		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	TO	DATE - TIME
1. COLLECTED BY	<u>David Obry</u>	<u>SCDHS</u>	<u>10/19/83</u>		<u>11:05 AM</u>
2. POSSESSION BY					
3. POSSESSION BY					
4. RECEIVED LAB BY	<u>G.M.</u>		<u>10/19 PM</u>		
5. POSSESSION BY					
6. POSSESSION BY					

File 8  
Doy

8

18-247: 2/82

SUFFOLK COUNTY HEALTH SERVICES LABORATORY  
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

FIELD NO. 10 D02-8 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	COPPER	6800 6.8 x 10 <sup>2</sup> Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	10.0 1 x 10 <sup>1</sup>
COD				NICKEL	24.0 2.4 x 10 <sup>1</sup>
TOC				ZINC	26.0 2.6 x 10 <sup>1</sup>
				LEAD	1.2
				CADMIUM	4000.0 4 x 10 <sup>3</sup>
NITRATE-N				SILVER	
NITRITE				CHROMIUM-+6	interference -
AMMONIA-N					precipitation occurs with pH-adjustment
TKN		pH (FIELD)	pH ≈ 12		
		TEMP. (FIELD)			124

Sample was highly alkaline. Precipitated with some HCl prior to analysis.

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	TO	DATE - TIME
1. COLLECTED BY	<u>David Obrug</u>	<u>SCDHS</u>	<u>Feb. 8, 1984</u>		<u>3:45 pm</u>
2. POSSESSION BY	<u>David Obrug</u>	<u>SCDHS</u>	<u>Feb. 8, 3:45 pm</u>		<u>Feb. 9, 1984</u>
3. POSSESSION BY					
4. RECEIVED LAB BY	<u>Raja</u>		<u>2/9/84</u>		<u>10 AM</u>
5. POSSESSION BY					
6. POSSESSION BY					

9

SUFFOLK COUNTY HEALTH SERVICES LABORATORY  
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 218.

FIELD NO. 10 D02-8 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	COPPER 680.0	6.8 x 10 <sup>-2</sup> mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	1 x 10 <sup>1</sup>
COD				NICKEL 24.0	2.4 x 10 <sup>1</sup>
TOC				ZINC 26.0	2.6 x 10 <sup>1</sup>
				LEAD 1.2	1.2
				CADMIUM 4000.	4 x 10 <sup>3</sup>
NITRATE-N				SILVER	
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)	ph ≈ 12		
		TEMP. (FIELD)			

*Sample was highly alkaline. Had prior to analysis.*

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	TO	DATE - TIME
1. COLLECTED BY	<u>David Obry</u>	<u>SCDHS</u>	<u>Feb. 8, 1984</u>		<u>3:45 pm</u>
2. POSSESSION BY	<u>David Obry</u>	<u>SCDHS</u>	<u>Feb. 8, 3:45 pm</u>		<u>Feb 9 1984 10:20 am</u>
3. POSSESSION BY					
4. RECEIVED LAB BY	<u>Raja</u>		<u>2/9/84</u>		<u>10 AM</u>
5. POSSESSION BY					
6. POSSESSION BY					



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:

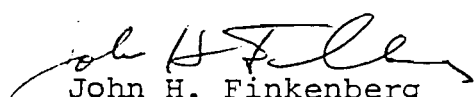
An inspection of your plant was conducted by a representative of this Department on 2/8/84, 3:45 PM. This inspection revealed that material was being stored outside in a stainless steel, open-top container. Sample analysis of this material shows the following parameters: Copper 1200.0 Mg/l; Iron 1.6 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  $\approx$  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

SUFFOLK COUNTY HEALTH SERVICES LABORATORY  
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/18

FIELD NO. 8002-8 LAB NO. 2/84-93 DATE COMPLETED 2/15/84

NAME OR FIRM Spectrum Freshway  
ADDRESS OR LOCATION Gabot St. W. Bab.  
POINT OF COLLECTION stainless steel, rectangular box, open top,  
REMARKS/INSTRUCTIONS V-bottle, stored outside garage door, Dale St. side

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER/200.	$(1.2 \times 10^3)$ Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON 1/6	$(7.6)$
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	8.
COD				NICKEL 50.0	$(5 \times 10^1)$
TOC				ZINC 20.0	$(2 \times 10^1)$
				LEAD 1/2	$(1.2)$
				CADMIUM 800.0	$(8 \times 10^3)$
NITRATE-N				SILVER	
NITRITE				CHROMIUM-+6	
AMMONIA-N					
TKN		pH (FIELD)	$pH \approx 12$		
		TEMP. (FIELD)			

*Sample was highly basic in nature. Acidified with HCl prior to analysis.*

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	TO	DATE - TIME
1. COLLECTED BY	<u>David Oby</u>	<u>SCDHS</u>	<u>Feb. 8, 84</u>		<u>3:45 PM</u>
2. POSSESSION BY	<u>David Oby</u>	<u>SCDHS</u>	<u>Feb. 8, 3:45 PM</u>		<u>Feb. 9, 9:10 AM</u>
3. POSSESSION BY					
4. RECEIVED LAB BY	<u>Raja</u>		<u>2/9/84</u>		<u>10 AM</u>
5. POSSESSION BY					
6. POSSESSION BY					

File 8105 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 Freshway  
 ADDRESS OR LOCATION Cabot St. W. Bab.  
 POINT OF COLLECTION stainless steel, rectangular box, open top  
 REMARKS/INSTRUCTIONS V-bottles, stored outside garage door, Dale St. side

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	COPPER	$1.2 \times 10^3$ Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	1.6
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TOT	8.
COD				NICKEL	50.0 $5 \times 10^1$
TOC				ZINC	20.0 $2 \times 10^1$
				LEAD	1.2
				CADMIUM	8000.0 $8 \times 10^3$
NITRATE-N				SILVER	
NITRITE				CHROMIUM+6	
AMMONIA-N					
TKN		pH (FIELD)	pH = 12		
		TEMP. (FIELD)			

Sample was highly basic in nature. Acidified to pH ~ 7. for HCl prior to analysis.

interference. precipitation occurs with pH-adjustment  
4/4

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	TO	DATE - TIME
1. COLLECTED BY	<u>David Obry</u>	<u>SCDHS</u>	<u>Feb 8, 84</u>		<u>3:45 PM</u>
2. POSSESSION BY	<u>David Obry</u>	<u>SCDHS</u>	<u>Feb 8, 3:45 PM</u>		<u>Feb 9, 9:10 AM</u>
3. POSSESSION BY					
4. RECEIVED LAB BY	<u>Raja</u>		<u>2/9/84</u>		<u>10 AM</u>
5. POSSESSION BY					
6. POSSESSION BY					



NOTICE OF VIOLATION

COUNTY OF SUFFOLK

13



PETER F. COHALAN  
SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Spectrum Finishing Corp., Inc.  
51 Cabot St.  
West Babylon, New York 11704

Date May 8, 1984

SPDES NO. \_\_\_\_\_

Lab. No. 2-84-161

Field No. 2-DO-2-21

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:

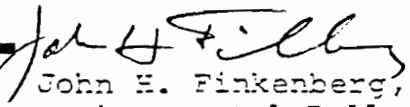
- |                        |           |     |
|------------------------|-----------|-----|
| 1. Hexavalent Chromium | 0.64 Mg/l | 6.  |
| 2.                     |           | 7.  |
| 3.                     |           | 8.  |
| 4.                     |           | 9.  |
| 5.                     |           | 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

Horseblock Pl. (SEE REVERSE SIDE FOR STANDARDS)  
Suffolk County, NY 11738

5) 451-4628

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
 INDUSTRIAL WASTE AND HAZARDOUS MATERIALS CONTROL  
 15 HORSEBLOCK PLACE, FARMINGVILLE, N.Y. 11738  
 (516) 451-4633

14  
 1/21/84  
 TJK

NAME OF FACILITY		OWNER/OFFICER		PAGE 1 OF
COMPANY NAME Spectrum Furnishing 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 <u>RE.</u>	WASTE NO WASTE <u>HBH</u>	SEWAGE SYSTEM <u>PUBLIC PRIVATE</u>

INDUSTRY <u>plating shop.</u>				
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 <u>YES</u> NO	NUMBER OF TANKS <u>ABOVEGROUND</u> UNDERGROUND	TYPE OF MATERIAL STORED WASTE RAW ? unknown	
OPEN PROCESS TANKS YES NO	NUMBER OF OPEN PROCESS TANKS	ANY ART. X:1 VIOLATIONS <u>YES</u> NO	

① Observed spill from stainless steel tank which is located on the North side of "Spectrum", tank is located near Dale St. approx. <sup>5-10</sup> 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 <u>D. L. G.</u>
-----------------------------	-------	---------------------------

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.	Date St. PROCESS	CONTROL TYPE	EP'S	CHEMICALS OR PRODUCTS USED	AMOUNT CONSUM.	HOURS OF OPERA.	TYPE OF EMISSION

Cabot St.

# \* Cyanide

File  
07/16

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 Bldg.

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	X COPPER	500.0 5x10 <sup>2</sup> Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				X CHROMIUM-TOT	400 4x10 <sup>1</sup>
COD				X NICKEL	400 4x10 <sup>1</sup>
TOC				X ZINC	60.0 6x10 <sup>1</sup>
				X LEAD	1.6
				X CADMIUM	60000 6x10 <sup>3</sup>
NITRATE-N				SILVER	
NITRITE				X CHROMIUM-+6	interference - precipitate occurs with pH-adjustment
AMMONIA-N		Lab	pH 11		
TKN		pH (FIELD)	pH = 12		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>David Obery</u>	<u>SCDAS</u>	<u>Feb 26, 84</u>	<u>1:45 PM</u>
2. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
3. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>B. Mathew</u>	_____	<u>2/21/84 PM</u>	_____
5. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
6. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME

# \* Cyanide

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 North side Bldg.

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	X COPPER	5x10 <sup>2</sup> Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				X CHROMIUM-TOT	4x10 <sup>1</sup>
COD				X NICKEL	4x10 <sup>1</sup>
TGC				X ZINC	6x10 <sup>1</sup>
				X LEAD	1.6
				X CADMIUM	6x10 <sup>3</sup>
NITRATE-N				SILVER	
NITRITE				CHROMIUM-+6	
AMMONIA-N		lab	pH 11		
TKN		pH (FIELD)	pH = 12		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>David O'Bray</u>	<u>SCDAS</u>	<u>Feb 26 84</u>	<u>1:45 PM</u>
2. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
3. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>B. Mathew</u>	_____	<u>2/21/84</u>	<u>PM</u>
5. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
6. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME

# \* Cyanide

10

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 2/21/84

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 stormwater stand tanks 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<sub>3</sub> 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	<u>David O'Bray</u>	<u>SCDHS</u>	<u>Feb. 21, 84</u>	<u>1:50 PM</u>
2. POSSESSION BY				
3. POSSESSION BY				
4. RECEIVED LAB BY	<u>B. Mathew</u>		<u>2/21</u>	<u>PM</u>
5. POSSESSION BY				
6. POSSESSION BY				

# Cyanide

File  
Q15

19

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247-2/82

FIELD NO. 1 DO 2-21 LAB NO. 2-84-160 DATE COMPLETED 3/1/84

NAME OR FIRM Spectrum Finishing Corp.  
 ADDRESS OR LOCATION Cabot St. W. Barb.  
 POINT OF COLLECTION tank, stainless steel tank leaking  
 REMARKS/INSTRUCTIONS liquid onto surface of gear.

TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH (LAB)		TOTAL SOLIDS	Mg/l	X COPPER	<u>3500</u> $3.5 \times 10^2$ Mg/l
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				X CHROMIUM-TOT	<u>280</u> $2.8 \times 10^1$
COD				X NICKEL	<u>24.0</u> $2.4 \times 10^1$
TOC				X ZINC	<u>250.0</u> $2.5 \times 10^2$
				X LEAD	<u>1.6</u>
				X CADMIUM	<u>4000.0</u> $4 \times 10^3$
NITRATE-N				SILVER	
NITRITE				X CHROMIUM-+6	<i>interference - precipitation occurs with pH-adjustment +24</i>
AMMONIA-N		lab	pH 11.5		
TKN		pH (FIELD)	(pH 12)		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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.

	<u>NAME</u>	<u>AFFILIATION</u>	<u>DATE</u>	<u>TIME</u>
1. COLLECTED BY	<u>David Obry</u>	<u>SCDHS</u>	<u>Feb 21, 84</u>	<u>1:55 PM</u>
2. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
3. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
4. RECEIVED LAB BY	<u>js mathew</u>	_____	<u>2/21/84 PM</u>	_____
5. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME
6. POSSESSION BY	_____	_____	DATE - TIME	TO DATE - TIME

# Cyanide

20

SUFFOLK COUNTY HEALTH SERVICES LABORATORY  
 CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

18-247: 2/82

FIELD NO. 1 DO 2-21 LAB NO. 2-84-160 DATE COMPLETED 3/1/84

NAME OR FIRM Spectrum Finishing Corp.  
 ADDRESS OR LOCATION Cabot St. 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	COPPER	350.0
CHLORIDE	Mg/l	SUSPENDED SOLIDS		IRON	
CYANIDE		DISSOLVED SOLIDS		MANGANESE	
MBAS				CHROMIUM-TQT	28.8
COD				NICKEL	24.0
TOC				ZINC	250.0
				LEAD	1.6
				CADMIUM	4000.0
NITRATE-N				SILVER	
NITRITE				CHROMIUM-+6	
AMMONIA-N		lab	pH 11.5		
TKN		pH (FIELD)	(pH 12)		
		TEMP. (FIELD)			

METHOD OF PRESERVATION  HNO<sub>3</sub> 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	<u>David Obry</u>	<u>SCDHS</u>	<u>Feb 21, 84</u>	<u>1:55 PM</u>
2. POSSESSION BY				
3. POSSESSION BY				
4. RECEIVED LAB BY	<u>ps yaffee</u>		<u>2/21/84</u>	<u>1 PM</u>
5. POSSESSION BY				
6. POSSESSION BY				



**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

AKP ✓  
 PRIS ✓  
 P ✓

CITY SPECTRUM FINISHING CORP		OWNER/OFFICER	PAGE 1 OF 1
ADDRESS 50 DACE ST.		CONTACT <i>Ann Pappalardo</i>	TEL. <i>874-0206</i>
VILLAGE W. BABYLON TOWN		ZIP 11704	

1272-84	TIME	ORIG. PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
---------	------	----------------	-----	-------	----------	-----	---------------	----------------

TRY PLATING

PERMIT?	YES	NO	PERMIT NO.	360 PERMIT?	YES	NO	PERMIT NO.
---------	-----	----	------------	-------------	-----	----	------------

GENER	TEL.
-------	------

OWNER	YES	NO	PICK UP RECORDS AVAILABLE	YES	NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION	YES	NO
-------	-----	----	---------------------------	-----	----	---	-----	----

BOILER SYSTEM-MFG NAME	FUEL TYPE	FIRING RATE

WASTE BURNED	RATE

STORAGE	YES	NO	NUMBER STORED	INDOORS	OUTDOORS	TYPE OF MATERIAL STORED	WASTE	RAW
---------	-----	----	---------------	---------	----------	-------------------------	-------	-----

GE TANKS	YES	NO	NUMBER OF TANKS	ABOVEGROUND	UNDERGROUND	TYPE OF MATERIAL STORED	WASTE	RAW
----------	-----	----	-----------------	-------------	-------------	-------------------------	-------	-----

CESS 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 3.11) 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 WELLS, 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.

REPORT PERSON	<i>Ann Pappalardo</i>	TITLE	INSPECTOR	<i>Jim Juszuf</i>
DATE	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 <i>Spectrum</i>		OWNER/OFFICER	PAGE 1 OF
COMPANY NAME		CONTACT	TEL.
PLANT ADDRESS	VILLAGE	TOWN	ZIP
MAILING ADDRESS			

DATE <i>12-2-84</i>	TIME	ORIG.	PERIODIC	RE.	WASTE	NO WASTE	H&H	SEWAGE SYSTEM	PUBLIC PRIVATE
---------------------	------	-------	----------	-----	-------	----------	-----	---------------	----------------

INDUSTRY									
SPDES OR SPDES PERMIT?					360 PERMIT?				
YES	NO	PERMIT NO.	YES	NO	PERMIT NO.	YES	NO	PERMIT NO.	YES

SCAVENGER									
SCAVENGER APPROVED									
YES	NO	PICK UP RECORDS AVAILABLE	YES	NO	RECORDS CONSISTENT WITH EXPECTED WASTE GENERATION	YES	NO	TEL.	

HEATING SYSTEM-MFG NAME								FUEL TYPE	FIRING RATE

CIN. NAME								WASTE BURNED	RATE

DRUM STORAGE		YES	NO	NUMBER STORED		TYPE OF MATERIAL STORED			
				INDOORS	OUTDOORS	WASTE	RAW		
STORAGE TANKS		YES	NO	NUMBER OF TANKS		TYPE OF MATERIAL STORED			
				ABOVEGROUND	UNDERGROUND	WASTE	RAW		
OPEN PROCESS TANKS				NUMBER OF OPEN PROCESS TANKS			ANY ART. XII VIOLATIONS		
YES	NO					YES	NO		

VIOLATIONS (CON'T)

- (7) <sup>TOXIC</sup> 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 north side - dry - but metal sludge appears to be in it.

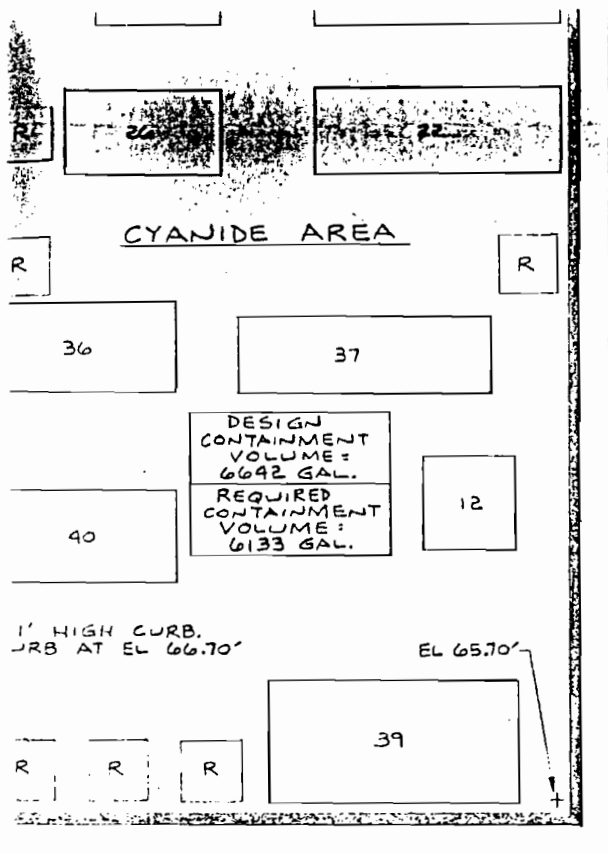
MANIFESTS FOR TOXICS - NOT AVAILABLE  
 PLEASE CALL WHEN FOUND FOR OUR INSPECTION TO BE CONDUCTED

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 <i>Ken Rappaluk</i>	TITLE	INSPECTOR <i>[Signature]</i>
--	-------	---------------------------------

**REFERENCE NO. 57**



48	275	Mercuric Acid Paint Strip
49	325	Alodine
50	325	Alodine
51	200	Mercuric Acid
52	150	Copper Bright Cleaner

EXTERIOR

**LEGEND:**

- : PROPOSED CURB, CANT OR RAMP.
- : PROPOSED FLOOR SLAB COATING (SEE NOTE 3)
- : 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 SCDHS JOB NO. HMB-84

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 ~~one year~~ <sup>six months</sup> from the date of approval.

11/7/85  
DATE

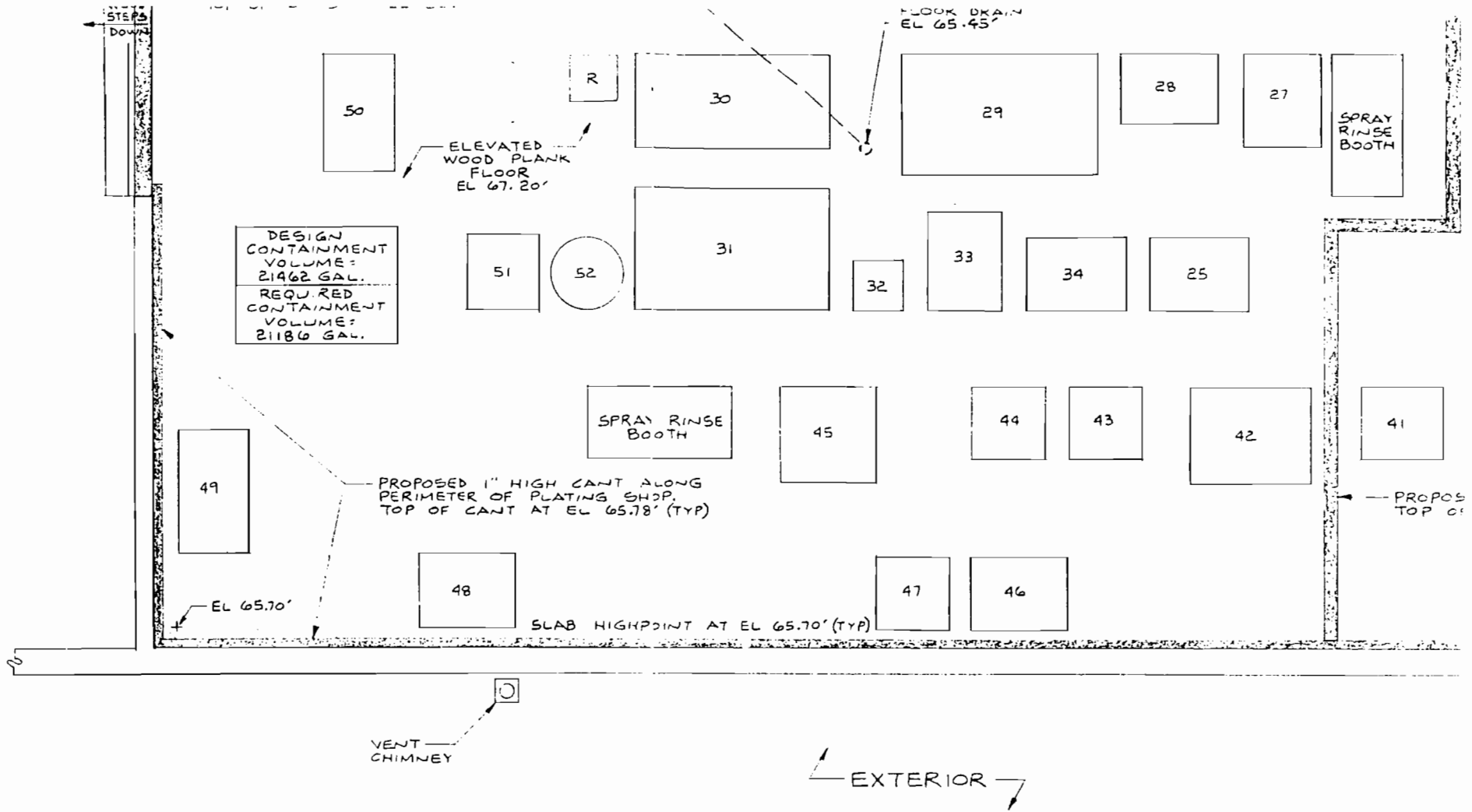
Vincent Ferraro  
LEVEL ENGINEER

JUL 13 1984

HMB-84

1	CHANGED "OVERFLOW" PIPE TO CONNECTING PIPE AT SUMP	ML	7/13/84
NO	REVISION TITLE	BY	DATE
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
APPVD:	<u>[Signature]</u> 1-16-84	NO.	1

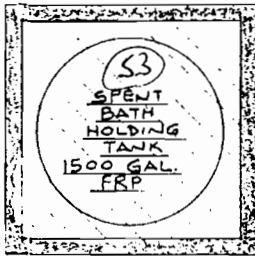
"The original of this drawing is the exclusive property of the Donnelly Engineering Company. The acceptance of this print constitutes an agreement that it should be treated as a strictly confidential document to be used for no purpose other than to aid in the assembly or operation of units furnished 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."



WASTEWATER  
TREATMENT  
& STORAGE  
ROOM

BOILER  
ROOM

POLIS



PROPOSED 7'L x 7'W x 4'-6"H BERM.  
CAPACITY: 1650 GALLONS.

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



PROPOSED 52" x 48"  
POLYETHYLENE TANK  
440 GALLONS EACH.  
(2 TYP)

DYNATHERM  
EVAPORATIVE  
RECOVERY  
UNIT

WASTEWATER COLLECTION SUMP.  
9'L x 5'W x 4'D.

EDGE OF  
ELEVATED  
FLOOR.  
(18' ABOVE SLAB)

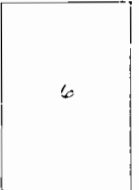
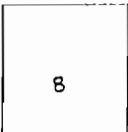
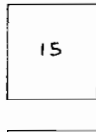
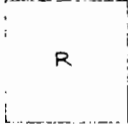
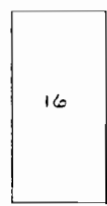
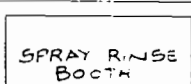
WOOD  
RAMP  
UP

SPRAY RINSE  
BOOTH

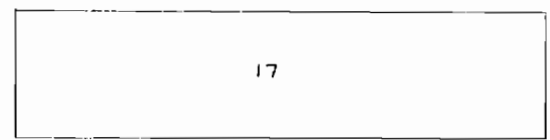
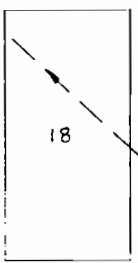
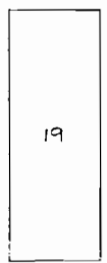
PROPOSED EXTENSION  
OF WOOD PLANK FLOOR.  
RELOCATE RAMP  
AS SHOWN.

CONNECTING PIPE.

CONCRETE  
FLOOR SLAB

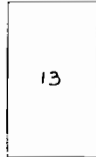
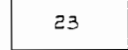
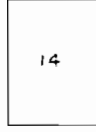


PROPOSED 1' HIGH  
CURB WITH RAMPS  
AT DOOR.  
TOP OF CURB  
AT EL 66.70'



ROUTE OF DRAIN PIPE  
SHOWN SCHEMATICALLY.

ACID/ALKALI AREA

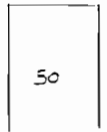


ELEVATED  
WOOD PLANK  
FLOOR.  
EL 67.20'

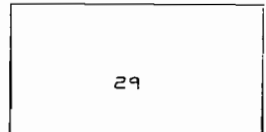
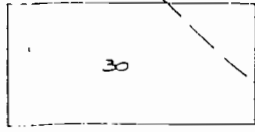


WOOD  
STEPS  
DOWN

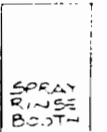
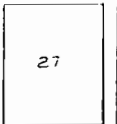
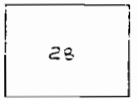
PROPOSED 1' HIGH CURB  
AT DOOR OPENING.  
TOP OF CURB AT EL 66.70'



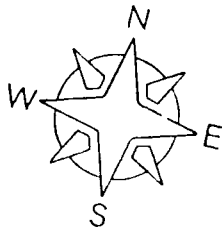
ELEVATED



FLOOR DRAIN  
EL 65.45'

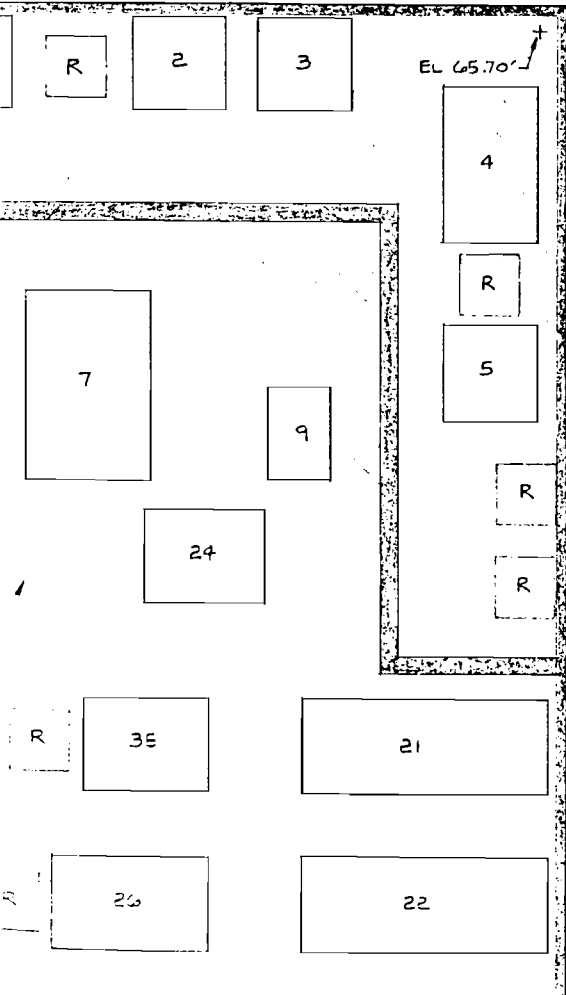


NG ROOM



## 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	Therollic Acid Paint Strip
49	325	Alodine
50	325	Alodine
51	200	Mercuric Acid
52	150	Copper Nickel Cleaner





**REFERENCE NO. 58**

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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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

ORDER ON CONSENT  
Index # WP-114-84

SPECTRUM FINISHING CORP.

---

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  
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: Supervisor D. Chasico

Title: Vice Pres.

Date: 11/12/85

**REFERENCE NO. 59**

SUFFOLK COUNTY DEPT. OF HEALTH SERVICES  
UNIFORM COMPLAINT FIELD REPORT

*file*

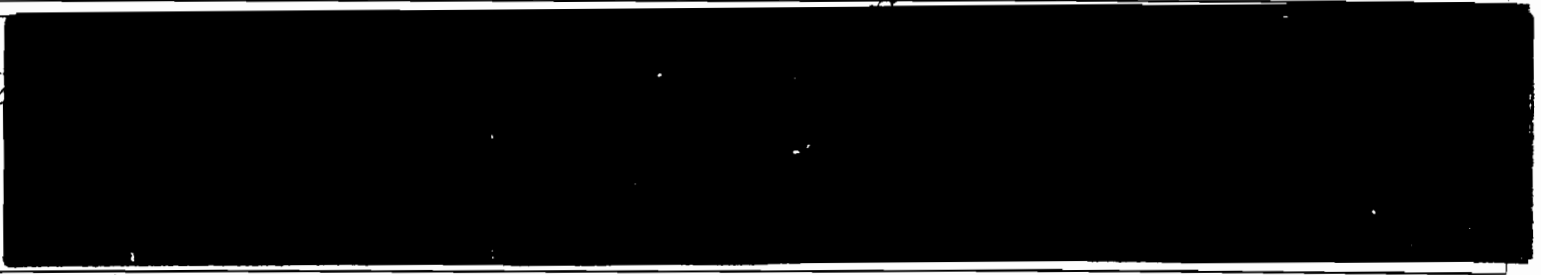
Air Pollution   
Hazardous Material & Industrial Waste   
Internal Ventilation   
Sewage Treatment   
Assigned to Zone No.

SCDHS No. \_\_\_\_\_ Letter   
SPILL No. 1988-196 Telephone   
DOT No. \_\_\_\_\_ Person   
Date 4/11/88 Time 5:00 pm



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. Seyffarth Date 4-13-88



Information Obtained from Interviewed Individuals:  
① SAID FORKLIFT DID PUNCTURE DRUM OF 111-TRICHLOROETHANE THAT WAS PURCHASED FROM FAIRCHILD. FLIPPED DRUM OVER SO IT WOULD NOT LEAK ANYMORE. LOST ABOUT 10 GALLONS ONTO INDOOR LOADING AREA. SOME WENT THROUGH WALLS INTO OFFICE AREA. NO INDOOR FLOOR DRAINS IN THIS AREA. STATED NO LIQUID WENT TO STORM DRAIN. CLEANED IT UP AS SOON AS IT OCCURRED WITH SPARKING

Inspector's Observations

11/14 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

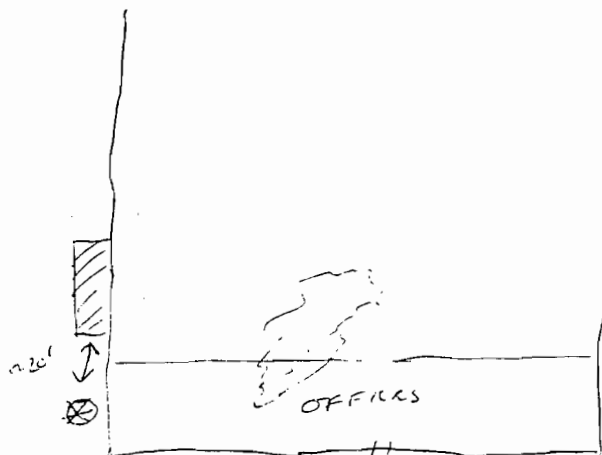
Tel. No.

Inspector's Recommendation to Persons Concerned NO FLOOR DRAINS APPEAR TO HAVE BEEN REFLECTED. MAY HAVE TO RETURN TO SAMPLE STORM DRAIN.

Information Related by Inspector to Complainant

Sketch:

W



EAST ST

Inspectors Signature

Date

4/14/88