LABORATORY: SPECTRIX CORPORATION
DOC CONT NO: 5314-06-7
LAB NO: 85-12-057
QC REPORT NO: 43
CONTRACT NO: 68-01-7067

CASE 5314
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Sun Refinery + Marketing
OKD058078775

SUPERFUND FILE

AUG 27 1992

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1/24/86

9527359

SPECTRIX CORPORATION DOC. CONTROL NO: 5314 - 06 -07

CHECKLIST

____ SECTION I

✓ Narrative

✓ Copies of Inorganic Traffic Reports

SECTION I NARRATIVE

LABORATORY: SPECTRIX CORPORATION
CASE NO: 5314
LAB NO: 8512057

DOC. CONTROL NO: 5314-06-07
QC REPORT NO: 43
CONTRACT NO: 68-01-7067

I. RECEIPT

A. DATE: 12-19-85, 12-20-85
B. NO. OF SAMPLES: 26+QC
C. SMO NUMBERS: MFB 613-638
D. SAMPLE TYPE: soils + waters
E. ANALYSIS REQUESTED: metals only
F. SHIPPING PROBLEMS: none
G. DOCUMENTATION PROBLEMS: none
H. QC DISTRIBUTION:

LEVEL	MATRIX	METALS	CN
LOW	WATER	✓	
	SOIL	✓	
MEDIUM	WATER		
	SOIL		

II. PREPARATION

A. ANALYTICAL LEVELS: Low Level

B. DIGESTION PROBLEMS: None

III. ANALYSIS

A. ANALYSIS PROBLEMS: None

B. SPIKE RECOVERIES: Recoveries for Se and Tl are outside their ~~the~~ control limits for the water matrix, Sb, Pb, Hg, Sn are outside their control limits for the soil matrix.

IV. OTHER PROBLEMS None

Ken U. Ende
Project Manager

SPECTRIX CORPORATION DOC. CONTROL NO: 5314 - 06 -07

CHECKLIST

✓ SECTION II

- ✓ Sample Summary Sheet
- ✓ Cover Page IADS
- ✓ Form I IADS
- ✓ QC Report Forms

SPECTRIX CORPORATION
SAMPLE SUMMARY SHEET

EPA Case # 5314 Doc. Con. # 5314-06-07

Spectrix Lab # 8512057 Date Recv'd 12-19-85

Lab. Sample No.	EPA Sample No.	DIGESTION HNO_3/H_2O_2	HNO_3/HCl	ICP	FLAME-AA ~~EM~~	FURN.-AA	ANALYSES Hg	CN	% SOLIDS
BLK/water	R. BLK	✓	✓	✓	✓	✓	✓	NA	NA
BLK/W	R. BLK	✓	✓	✓	✓	✓	✓		
STD/W	R. STD	✓	✓	✓	✓	✓	✓		
-01A	MFB 613	✓	✓	✓	✓	✓	✓		
-02A dup	✓ ✓	✓	✓	✓	✓	✓	✓		
-03A	MFB 615	✓	✓	✓	✓	✓	✓		
-04A sp	✓ ✓	✓	✓	✓	✓	✓	✓		
-05A	MFB 614	✓	✓	✓	✓	✓	✓		
-06A	✓ 636	✓	✓	✓	✓	✓	✓		
-07A	✓ 637	✓	✓	✓	✓	✓	✓		✓
-08A	MFB 622	✓	✓	✓	✓	✓	✓		✓
-09A dup	✓ ✓	✓	✓	✓	✓	✓	✓		✓
-10A sp	✓ ✓	✓	✓	✓	✓	✓	✓		NA
-11A	✓ 616	✓	✓	✓	✓	✓	✓		✓
-12A	✓ 618	✓	✓	✓	✓	✓	✓		✓
-13A	✓ 619	✓	✓	✓	✓	✓	✓		✓
-14A	✓ 620	✓	✓	✓	✓	✓	✓		✓
-15A	✓ 621	✓	✓	✓	✓	✓	✓		✓
-16A	✓ 623	✓	✓	✓	✓	✓	✓		✓
-17A	✓ 624	✓	✓	✓	✓	✓	✓	✓	✓
COMPL. DATE:		12/27	12/27	1/16	1/14	1/23	1/3	NA	12/23
ANALYST:		CR	CR	CR/CDF	HT	HT DCA	HT	NA	CR

000030

SPECTRIX CORPORATION
SAMPLE SUMMARY SHEET

EPA Case # 5314 Doc. Con. # 5314 - 06 -07

Spectrix Lab # 8512057 Date Recv'd 12-19-86

Lab. Sample No.	EPA Sample No.	DIGESTION HNO_3/H_2O_2	HNO_3/HCl	ICP	FLAME-AAEM	FURN.-AA	ANALYSES Hg	CN	% SOLIDS
BLK	R. BLK								
BLK	R. BLK								
STD	R. STD								
-18A	MFB625	✓	✓	✓	✓	✓	✓	NA	✓
COMPL. DATE:		12/27	12/27	1/16	1/14	1/23	1/3	NA	12/23
ANALYST:		CR	CR	CR/CDF	HT	HT DCA	HT	NA	CR

CDF

000031

8/85 (SXSUMM)

SPECTRIX CORPORATION
SAMPLE SUMMARY SHEET

EPA Case # 5314 Doc. Con. # 5314-06-07

Spectrix Lab # 8512057 Date Recv'd 12-20-85

Lab. Sample No.	EPA Sample No.	DIGESTION HNO_3/H_2O_2	HNO_3/HCl	ICP	FLAME-AA EM	FURN.-AA	ANALYSES Hg	CN	% SOLIDS
BLK /Soil	R. BLK	✓	✓	✓	✓	✓	✓	NA	NA
BLK /S	R. BLK	✓	✓	✓	✓	✓	✓		
STD /S	R. STD	✓	✓	✓	✓	✓	✓		
-19A	MFB 617	✓	✓	✓	✓	✓	✓		✓
-20A	✓ 626	✓	✓	✓	✓	✓	✓		✓
-21A	✓ 633	✓	✓	✓	✓	✓	✓		✓
-24A	✓ 628	✓	✓	✓	✓	✓	✓		✓
-25A	✓ 629	✓	✓	✓	✓	✓	✓		✓
-26A	✓ 630	✓	✓	✓	✓	✓	✓		✓
-27A	✓ 631	✓	✓	✓	✓	✓	✓		✓
-28A	✓ 632	✓	✓	✓	✓	✓	✓		✓
-29A	✓ 634	✓	✓	✓	✓	✓	✓		✓
-30A	✓ 635	✓	✓	✓	✓	✓	✓		✓
-31A	✓ 638	✓	✓	✓	✓	✓	✓		NA
-32A	✓ 627	✓	✓	✓	✓	✓	✓		✓
~~-33A~~ CDF									
			CDF						
COMPL. DATE:		12/27	12/27	1/16	1/14	1/23	1/3	NA	12/23
ANALYST:		CR	CR	CDF/CR	HT	HT DCA	HT	NA	CR

000032

8/85 (SXSUMM)

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

DC #5314-06-06

Date 1-9-86

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name SPECTRIX

Case No. 5314

SOW No. 784

Q.C. Report No. 43

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MFB613	8512057-01A	MFB620	8512057-14A
MFB615	-03A	MFB621	-15A
MFB614	-05A	MFB623	-16A
MFB636	-06A	MFB624	-17A
MFB637	-07A	MFB625	-18A
MFB622	-08A	MFB617	-19A
MFB616	-11A	MFB626	-20A
MFB618	-12A	MFB633	-21A
MFB619	-13A	MFB628	-24A

Comments:

ICP Interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ or after ____ generation of raw data.

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

DC #5314-06-06

Date 1-9-86

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name SPECTRIX Case No. 5314

SOW No. 784 Q.C. Report No. 43

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MFB629	8512057-25A		
MFB630	-26A		
MFB631	-27A		
MFB632	-28A		
MFB634	-29A		
MFB635	-30A		
MFB638	-31A		
MFB627	-32A		

CDF

Comments: Low spike recoveries for Se and Tl in ~~soil~~ water matrix, Sb, Pb, Hg and Sn in soil matrix.

ICP Interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ or after ____ generation of raw data.

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

Form I

5[illegible]4-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB 613

Date 1-9-86.

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-01A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	33000	P	13.	Magnesium	41400	P
2.	Antimony	50U	F	14.	Manganese	1010	P
3.	Arsenic	14.9	F	15.	Mercury	0.2U	CV
4.	Barium	1050	P	16.	Nickel	[23]	P
5.	Beryllium	2U	P	17.	Potassium	12200	P
6.	Cadmium	9.0	P	18.	Selenium	25U	F R
7.	Calcium	227000	P	19.	Silver	10U	P
8.	Chromium	42	P	20.	Sodium	20300	P
9.	Cobalt	26U	P	21.	Thallium	7U	F R
10.	Copper	16U	P	22.	Tin	40U	P
11.	Iron	57600	P	23.	Vanadium	85	P
12.	Lead	16.4 S	F	24.	Zinc	278	P

Cyanide NA ~~Color~~ COF. Percent Solids (%) NA

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ____

Lab Manager Ken U. [illegible]

Form I

5[illegible]4-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MFB 615

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-03A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	13700	P	13.	Magnesium	33000	P
2.	Antimony	10U	F	14.	Manganese	1160	P
3.	Arsenic	8.15	F	15.	Mercury	1.16	CV
4.	Barium	429	P	16.	Nickel	[25]	P
5.	Beryllium	2U	P	17.	Potassium	9450	P
6.	Cadmium	7	P	18.	Selenium	25U	F R
7.	Calcium	151,000	P	19.	Silver	10U	P
8.	Chromium	25	P	20.	Sodium	70800	P
9.	Cobalt	26U	P	21.	Thallium	7U	F R
10.	Copper	64	P	22.	Tin	40U	P
11.	Iron	31900	P	23.	Vanadium	[38]	P
12.	Lead	135	F	24.	Zinc	199	P

Cyanide NA ~~Color~~ CDF Percent Solids (%) NA

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. [illegible]

Form I

53[illegible]-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB614

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-05A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	17200	P	13.	Magnesium	188,000	P
2.	Antimony	10U	F	14.	Manganese	1140	P
3.	Arsenic	10.2	F	15.	Mercury	0.2U	CV
4.	Barium	520	P	16.	Nickel	21U	P
5.	Beryllium	2U	P	17.	Potassium	21400	P
6.	Cadmium	7	P	18.	Selenium	25UE	F R
7.	Calcium	194,000	P	19.	Silver	10U	P
8.	Chromium	24	P	20.	Sodium	482,000	P
9.	Cobalt	26U	P	21.	Thallium	7U	F R
10.	Copper	216	P	22.	Tin	40U	P
11.	Iron	39600	P	23.	Vanadium	[40]	P
12.	Lead	26.1 S	F	24.	Zinc	149	P

Cyanide NA ~~Color~~ CDF Percent Solids (%) NA

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U [illegible]

Form I

5314-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MFB 636

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 851205 7-06A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	90U	P	13.	Magnesium	420U	P
2.	Antimony	10U	F	14.	Manganese	[6]	P
3.	Arsenic	8U	F	15.	Mercury	0.2U	CV
4.	Barium	15U	P	16.	Nickel	21U	P
5.	Beryllium	2U	P	17.	Potassium	480U	P
6.	Cadmium	5U	P	18.	Selenium	5U	F R
7.	Calcium	480U	P	19.	Silver	10U	P
8.	Chromium	8U	P	20.	Sodium	4000U	P
9.	Cobalt	26U	P	21.	Thallium	7U	F R
10.	Copper	16U	P	22.	Tin	40U	P
11.	Iron	[49]	P	23.	Vanadium	[1]	P
12.	Lead	3U	F	24.	Zinc	51	P

Cyanide NA ~~Color~~ COF Percent Solids (%) NA

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. Ed

Form I

5[illegible]4-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MFB 637

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX

CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-07A

QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	90U	P	13.	Magnesium	420U	P
2.	Antimony	10U	~~P~~F	14.	Manganese	[6]	P
3.	Arsenic	8U	F	15.	Mercury	0.2U	CV
4.	Barium	15U	P	16.	Nickel	21U	P
5.	Beryllium	2U	P	17.	Potassium	480U	P
6.	Cadmium	5U	P	18.	Selenium	5U	F R
7.	Calcium	480U	P	19.	Silver	10U	P
8.	Chromium	8U	P	20.	Sodium	4000U	P
9.	Cobalt	26U	P	21.	Thallium	7U	F R
10.	Copper	16U	P	22.	Tin	40U	P
11.	Iron	17U	P	23.	Vanadium	[1]	P
12.	Lead	3U	F	24.	Zinc	[18]	P

Cyanide NA

Percent Solids (%) NA

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. [illegible]

Form I

314-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB622

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-08A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	1680	P *	13.	Magnesium	[1260]	P
2.	Antimony	5.4U	F R	14.	Manganese	55.4	P
3.	Arsenic	4.4U	F	15.	Mercury	0.05U	CV R
4.	Barium	[27.2]	P	16.	Nickel	11U	P
5.	Beryllium	1.1U	P	17.	Potassium	[397]	P
6.	Cadmium	2.7U	P	18.	Selenium	2.7U	F
7.	Calcium	[2150]	P	19.	Silver	5.4U	P
8.	Chromium	4.3U	P	20.	Sodium	2200U	P
9.	Cobalt	14U	P	21.	Thallium	3.8U	F
10.	Copper	8.7U	P	22.	Tin	22U	P R
11.	Iron	3370 *	P R COF	23.	Vanadium	[13.0]	P
12.	Lead	16.4	F R	24.	Zinc	15.7	P

Cyanide NA Percent Solids (%) 91.96

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction factor = 1.087

Lab Manager Ken U. Enk

Form I

5[illegible]4-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB 616

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 851205T-11A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	3550	P *	13.	Magnesium	[1910]	P
2.	Antimony	7.0U	F R	14.	Manganese	165	P
3.	Arsenic	5.6U	F	15.	Mercury	0.14	CV R
4.	Barium	[52.4]	P	16.	Nickel	15U	P
5.	Beryllium	1.4U	P	17.	Potassium	[706]	P
6.	Cadmium	3.5U	P	18.	Selenium CNF	~~2.7U~~	F 17.5U
7.	Calcium	5030	P	19.	Silver	7.0U	P
8.	Chromium	16.8	P	20.	Sodium	2800U	P
9.	Cobalt	18U	P	21.	Thallium	4.9U	F
10.	Copper	11U	P	22.	Tin	28U	P R
11.	Iron	6680	P *	23.	Vanadium	[16.1]	P
12.	Lead	10.3 +	F R	24.	Zinc	43.4	P

Cyanide NA Percent Solids (%) 71.51

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor : 1.398

Lab Manager Ken U. End

Form I

5314-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB618

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 851205-7-12A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	8420	P ~~F~~	13.	Magnesium	4200	P
2.	Antimony	29U	F R	14.	Manganese	199	P
3.	Arsenic	4.7U	F	15.	Mercury	0.06U	CV R
4.	Barium	[74.3]	P	16.	Nickel	12U	P
5.	Beryllium	[1.77]	P	17.	Potassium	[650]	P
6.	Cadmium	2.9U	P	18.	Selenium COF	~~4.05~~	F 14.7U
7.	Calcium	[1990]	P	19.	Silver	5.9U	P
8.	Chromium	16.5	P	20.	Sodium	2400U	P
9.	Cobalt	15U	P	21.	Thallium	4.1U	F
10.	Copper	9.4U	P	22.	Tin	24U	P R
11.	Iron	11000	P ~~F~~	23.	Vanadium	[23.0]	P
12.	Lead	[1.89]	F R	24.	Zinc	28.3	P

Cyanide NA Percent Solids (%) 84.82

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.179

Lab Manager Ken U. [illegible]

Form I

531[illegible]-06-06

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB619

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 851205 7-13A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	3890	P *	13.	Magnesium	[2360]	P
2.	Antimony	5.9U	F R	14.	Manganese	116	P
3.	Arsenic	4.7U	F	15.	Mercury	0.06U	CV R
4.	Barium	[36.7]	P	16.	Nickel	12U	P
5.	Beryllium	1.2U	P	17.	Potassium	[918]	P
6.	Cadmium	5.92	P	18.	Selenium	14.8U	F
7.	Calcium	[539]	P	19.	Silver	5.9U	P
8.	Chromium	8.29	P	20.	Sodium	2400U	P
9.	Cobalt	15U	P	21.	Thallium	4.1U	F
10.	Copper	9.5U	P	22.	Tin	24U	P R
11.	Iron	6300	P *	23.	Vanadium	[14.8]	P
12.	Lead	1.8U	F R	24.	Zinc	19.5	P

Cyanide NA Percent Solids (%) 84.41

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor ≈ 1.185

Lab Manager Ken U. [illegible]

Form I

5314-06-06

U.S. EPA Contract Laboratory Program
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EPA Sample No. MFB 620

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-14A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	9680	P *	13.	Magnesium	19500	P
2.	Antimony	8.0U	F R	14.	Manganese	61.5	P
3.	Arsenic	6.4U	F	15.	Mercury	0.08U	CV R
4.	Barium	204	P	16.	Nickel	17U	P
5.	Beryllium	[2.39]	P	17.	Potassium	[998]	P
6.	Cadmium	5.59	P	18.	Selenium	20U	F
7.	Calcium	26700	P	19.	Silver	8.0U	P
8.	Chromium	6.4U	P	20.	Sodium	3280U	P
9.	Cobalt	21U	P	21.	Thallium	5.6U	F
10.	Copper	22.3	P	22.	Tin	32U	P R
11.	Iron	5020	P *	23.	Vanadium	[16.0]	P
12.	Lead	24.0 S	F R	24.	Zinc	29.5	P

Cyanide NA Percent Solids (%) 62.64

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.596

Lab Manager Ken U. End

Form I

53[illegible]-06-06

U.S. EPA Contract Laboratory Program
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703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB621

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-15A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	32300	P *	13.	Magnesium	[1210]	P
2.	Antimony	31U	F R	14.	Manganese	537	P
3.	Arsenic	5.0U	F	15.	Mercury	0.06U	CV R
4.	Barium	388	P	16.	Nickel	29.4	P
5.	Beryllium	[2.50]	P	17.	Potassium	6430	P
6.	Cadmium	10.0	P	18.	Selenium	15.6U	F
7.	Calcium	16200	P	19.	Silver	6.3U	P
8.	Chromium	36.3	P	20.	Sodium	2500U	P
9.	Cobalt	16U	P	21.	Thallium	4.4U	F
10.	Copper	[14.4]	P	22.	Tin	25U	P R
11.	Iron	33900	P *	23.	Vanadium	55.7	P
12.	Lead	28.0 S	F R	24.	Zinc	81.4	P

Cyanide NA Percent Solids (%) 79.85

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.252

Lab Manager Ken U. [illegible]

Form I

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703/557-2490 FTS: 8-557-2490

5314-06-06
EPA Sample No.
MFB623

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-16A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	2640	P *	13.	Magnesium	[1460]	P
2.	Antimony	5.4U	F R	14.	Manganese	39.1	P
3.	Arsenic	4.3U	F	15.	Mercury	0.06U	CV R
4.	Barium	[41.8]	P	16.	Nickel	11U	P
5.	Beryllium	1.1U	P	17.	Potassium	[592]	P
6.	Cadmium	3.80	P	18.	Selenium	13.6U	PF COF
7.	Calcium	[2620]	P	19.	Silver	5.4U	P
8.	Chromium	4.3U	P	20.	Sodium	2200U	P
9.	Cobalt	14U	P	21.	Thallium	3.8U	F
10.	Copper	8.7U	P	22.	Tin	22U	P R
11.	Iron	4420	P *	23.	Vanadium	5.4U	P
12.	Lead	20.7 S	F R	24.	Zinc	13.6	P

Cyanide NA Percent Solids (%) 91.99

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.087

Lab Manager Ken A. Eck

Form I

53[illegible]-06-06

U.S. EPA Contract Laboratory Program
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EPA Sample No. MFB624

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 851205 7-17A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

5290 ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	~~32300~~ CF	P *	13.	Magnesium	[2570]	P
2.	Antimony	6.0U	F R	14.	Manganese	468	P
3.	Arsenic	9.3	F	15.	Mercury	25.8	CV R
4.	Barium	490	P	16.	Nickel	77.7	P
5.	Beryllium	[1.81]	P	17.	Potassium	[1070]	P
6.	Cadmium	22.3	P	18.	Selenium	15.1UE	F
7.	Calcium	23300	P	19.	Silver	6.0U	P
8.	Chromium	28.9	P	20.	Sodium	2400U	P
9.	Cobalt	16U	P	21.	Thallium	4.2U	F
10.	Copper	871	P	22.	Tin	82.6	P R
11.	Iron	127,000	P *	23.	Vanadium	54.2	P
12.	Lead	764	P R	24.	Zinc	546	P

Cyanide N/A Percent Solids (%) 82.96

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Note :- Pb was analyzed by icp.
Solid Correction Factor = 1.205

Lab Manager Ken U. Eck

000047

Form I

5[illegible]4-06-06

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703/557-2490 FTS: 8-557-2490

EPA Sample No.
MFB 625

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 851205T-18A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	8150	P *	13.	Magnesium	[1570]	P
2.	Antimony	8.9U	F R	14.	Manganese	112	P
3.	Arsenic	7.1U	F	15.	Mercury	0.91	CV R
4.	Barium	[79.8]	P	16.	Nickel	19U	P
5.	Beryllium	[3.54]	P	17.	Potassium	[1120]	P
6.	Cadmium	6.20	P	18.	Selenium	22.2U	F
7.	Calcium	10800	P	19.	Silver	8.9U	P
8.	Chromium	38.1	P	20.	Sodium	3500U	P
9.	Cobalt	23U	P	21.	Thallium	6.2U	F
10.	Copper	28.4	P	22.	Tin	35U	P R
11.	Iron	7510	P *	23.	Vanadium	[7.7]	P
12.	Lead	52.3 S	F R	24.	Zinc	54.9	P

Cyanide NA Percent Solids (%) 56.42

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.772

Lab Manager Ken H. Ende

Form I

531[illegible]06-06

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EPA Sample No. MFB617

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-19A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	6400	P *	13.	Magnesium	4000	P
2.	Antimony	6.7U	F R	14.	Manganese	164	P
3.	Arsenic	5.4U	F	15.	Mercury	0.07U	CV R
4.	Barium	[66.5]	P	16.	Nickel	14U	P
5.	Beryllium	1.3U	P	17.	Potassium	[1260]	P
6.	Cadmium	4.70	P	18.	Selenium	3.4U	F
7.	Calcium	4260	P	19.	Silver	6.7U	P
8.	Chromium	15.4	P	20.	Sodium	2700U	P
9.	Cobalt	17U	P	21.	Thallium	4.7U	F
10.	Copper	11U	P	22.	Tin	27U	P R
11.	Iron	7720	P *	23.	Vanadium	[18.8]	P
12.	Lead	[3.1]	F R	24.	Zinc	36.9	P

Cyanide NA Percent Solids (%) 74.43

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.344

Lab Manager Ken U. [illegible]

Form I

5[illegible]4-06-06

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EPA Sample No.
MFB626

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 851205 7-20A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	3450	P *	13.	Magnesium	[1920]	P
2.	Antimony	5.7U	F R	14.	Manganese	84.5	P
3.	Arsenic	4.6U	F	15.	Mercury	0.06	CV R
4.	Barium	[56.5]	P	16.	Nickel	12U	P
5.	Beryllium	1.1U	P	17.	Potassium	[691]	P
6.	Cadmium	2.8U	P	18.	Selenium	2.9U	F
7.	Calcium	[828]	P	19.	Silver	5.7U	P
8.	Chromium	10.8	P	20.	Sodium	2300U	P
9.	Cobalt	15U	P	21.	Thallium	4.0U	F
10.	Copper	9.1U	P	22.	Tin	23U	P R
11.	Iron	7760	P *	23.	Vanadium	[17.7]	P
12.	Lead	5.4	F R	24.	Zinc	20.0	P

Cyanide NA Percent Solids (%) 87.57

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.142

Lab Manager Ken U. [illegible]

Spectrix D.C. Control # 5314-06-06

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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EPA Sample No. MFB633

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-21A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	1530	P *	13.	Magnesium	[622]	P
2.	Antimony	5.4U	F R	14.	Manganese	45.4	P
3.	Arsenic	4.3U	F	15.	Mercury	0.05U	CV R
4.	Barium	[11.9]	P	16.	Nickel	11U	P
5.	Beryllium	1.1U	P	17.	Potassium	[449]	P
6.	Cadmium	2.7U	P	18.	Selenium	2.7U	F
7.	Calcium	260U	P	19.	Silver	5.4U	P
8.	Chromium	5.4U	P	20.	Sodium	2200U	P
9.	Cobalt	14U	P	21.	Thallium	3.8U	F
10.	Copper	8.6U	P	22.	Tin	22U	P R
11.	Iron	3740	P *	23.	Vanadium	[10.3]	P
12.	Lead	10.3 S	F R	24.	Zinc	[9.74]	P

Cyanide NA Percent Solids (%) 92.42

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.082

Lab Manager Ken U. Ed

Spectrix D.C. Control # 5314-06-06

Form I

U.S. EPA Contract Laboratory Program
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EPA Sample No. MFB628

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-24A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	444	P *	13.	Magnesium	240 U	P
2.	Antimony	5.6 U	F R	14.	Manganese	14.1	P
3.	Arsenic	4.5 U	F	15.	Mercury	0.06 U	CV R
4.	Barium	8.5 U	P	16.	Nickel	12 U	P
5.	Beryllium	1.1 U	P	17.	Potassium	270 U	P
6.	Cadmium	2.8 U	P	18.	Selenium	2.8 U	F
7.	Calcium	270 U	P	19.	Silver	5.6 U	P
8.	Chromium	5.6 U	P	20.	Sodium	2200 U	P
9.	Cobalt	15 U	P	21.	Thallium	4.0 U	F
10.	Copper	9.0 U	P	22.	Tin	22 U	P R
11.	Iron	1920	P *	23.	Vanadium	[11.8]	P
12.	Lead	1.7 U	F R	24.	Zinc	17.5	P

Cyanide NA Percent Solids (%) 88.55

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.129

Lab Manager Ken U. [illegible]

000052

Spectrix D.C. Control # 5314-06-06

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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EPA Sample No. MFB629

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-25A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	6100	P *	13.	Magnesium	3150	P
2.	Antimony	29U	F R	14.	Manganese	151	P
3.	Arsenic	4.6U	F	15.	Mercury	0.06U	CV R
4.	Barium	[30.9]	P	16.	Nickel	12U	P
5.	Beryllium	1.2U	P	17.	Potassium	[1340]	P
6.	Cadmium	2.9U	P	18.	Selenium	14.5U	F
7.	Calcium	[941]	P	19.	Silver	5.8U	P
8.	Chromium	9.87	P	20.	Sodium	2300U	P
9.	Cobalt	15U	P	21.	Thallium	4.1U	F
10.	Copper	9.3U	P	22.	Tin	23U	P R
11.	Iron	9070	P *	23.	Vanadium	[8.6]	P
12.	Lead	1.7U	F R	24.	Zinc	24.4	P

Cyanide NA Percent Solids (%) 86.10

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.161

Lab Manager [signature]

Spectrix D.C. Control #5314-06-06

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
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EPA Sample No. MFB 630

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-26A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	7780	P *	13.	Magnesium	4780	P
2.	Antimony	6.2U	F R	14.	Manganese	209	P
3.	Arsenic	5.0U	F	15.	Mercury	0.06U	CV R
4.	Barium	126	P	16.	Nickel	13U	P
5.	Beryllium	1.2U	P	17.	Potassium	[1530]	P
6.	Cadmium	3.1U	P	18.	Selenium	3.1U	F
7.	Calcium	13200	P	19.	Silver	6.2U	P
8.	Chromium	11.8	P	20.	Sodium	2500U	P
9.	Cobalt	16U	P	21.	Thallium	4.4U	F
10.	Copper	10U	P	22.	Tin	25U	P R
11.	Iron	10800	P *	23.	Vanadium	[26.2]	P
12.	Lead	4.34 S	F R	24.	Zinc	30.5	P

Cyanide NA Percent Solids (%) 80.22

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.246

Lab Manager Ken U. Cal

000054

Spectrix D.C. Control #5314-06-06

Form I

U.S. EPA Contract Laboratory Program
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EPA Sample No. MFB631

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-27A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	3790	P *	13.	Magnesium	[1640]	P
2.	Antimony	5.4U	F R	14.	Manganese	73.5	P
3.	Arsenic	4.3U	F	15.	Mercury	0.05U	CV R
4.	Barium	[43.0]	P	16.	Nickel	11U	P
5.	Beryllium	1.1U	P	17.	Potassium	[861]	P
6.	Cadmium	2.7U	P	18.	Selenium	2.7U	F
7.	Calcium	4630	P	19.	Silver	5.4U	P
8.	Chromium	9.26	P	20.	Sodium	2200U	P
9.	Cobalt	14U	P	21.	Thallium	3.8U	F
10.	Copper	8.7U	P	22.	Tin	22U	P R
11.	Iron	5720	P *	23.	Vanadium	[5.2]	P
12.	Lead	1.6U	F R	24.	Zinc	18.0	P

Cyanide NA Percent Solids (%) 91.78

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.090

Lab Manager Ken U. [illegible]

000055

Spectrix D.C. Control # 5314-06-06

Form I

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EPA Sample No. MFB632

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-28A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	3040	P *	13.	Magnesium	[500]	P
2.	Antimony	5.3U	F R	14.	Manganese	70.6	P
3.	Arsenic	4.3U	F	15.	Mercury	0.05U	CV R
4.	Barium	[39.6]	P	16.	Nickel	11U	P
5.	Beryllium	1.1U	P	17.	Potassium	[615]	P
6.	Cadmium	2.7U	P	18.	Selenium	2.7U	F
7.	Calcium	3520	P	19.	Silver	5.3U	P
8.	Chromium	6.95	P	20.	Sodium	2100U	P
9.	Cobalt	14U	P	21.	Thallium	3.7U	F
10.	Copper	8.6U	P	22.	Tin	21U	P R
11.	Iron	5120	P *	23.	Vanadium	[5.0]	P
12.	Lead	1.6U R ~~P~~ F	COF	24.	Zinc	17.1	P

Cyanide NA Percent Solids (%) 93.54

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.069

Lab Manager Ken W. Ed

000056

Spectrix D.C. Control #5314-06-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB634

Date 1-9-86

INORGANIC ANALYSIS DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-29A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	5880	P *	13.	Magnesium	[2770]	P
2.	Antimony	6.2U	F R	14.	Manganese	134	P
3.	Arsenic	5.0U	F	15.	Mercury	0.06U	CV R
4.	Barium	[59.4]	P	16.	Nickel	75.1	P
5.	Beryllium	1.2U	P	17.	Potassium	[1210]	P
6.	Cadmium	3.1U	P	18.	Selenium	15.6U	F
7.	Calcium	2650	P	19.	Silver	6.2U	P
8.	Chromium	15.0	P	20.	Sodium	2500U	P
9.	Cobalt	16U	P	21.	Thallium	4.4U	F
10.	Copper	10U	P	22.	Tin	25U	P R
11.	Iron	7520	P *	23.	Vanadium	[7.5]	P
12.	Lead	1.9U	F R	24.	Zinc	47.6	P

Cyanide NA Percent Solids (%) 79.91

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.251

Lab Manager Ken U. Ed

Spectrix D.C. Control #5314-06-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB635

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-30A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	5900	P *	13.	Magnesium	3450	P
2.	Antimony	5.8U	F R	14.	Manganese	174	P
3.	Arsenic	4.7U	F	15.	Mercury	1.07	CV R
4.	Barium	[81.3]	P	16.	Nickel	12U	P
5.	Beryllium	1.2U	P	17.	Potassium	[1150]	P
6.	Cadmium	2.9U	P	18.	Selenium	2.9U	F
7.	Calcium	6020	P	19.	Silver	5.8U	P
8.	Chromium	11.1	P	20.	Sodium	2300U	P
9.	Cobalt	15U	P	21.	Thallium	4.1U	F
10.	Copper	16.4	P	22.	Tin	23U	P R
11.	Iron	9050	P *	23.	Vanadium	[21.6]	P
12.	Lead	38.4	F R	24.	Zinc	36.3	P

Cyanide NA Percent Solids (%) 85.49

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.170

Lab Manager Ken U. Ed

Spectrix D.C. Control # 5314-06-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB638

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-31A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	90U	P	13.	Magnesium	420U	P
2.	Antimony	10U	F	14.	Manganese	4U	P
3.	Arsenic	8U	F	15.	Mercury	0.2U	CV
4.	Barium	15U	P	16.	Nickel	21U	P
5.	Beryllium	2U	P	17.	Potassium	480U	P
6.	Cadmium	5U	P	18.	Selenium	5U	F R
7.	Calcium	480U	P	19.	Silver	10U	P
8.	Chromium	8U	P	20.	Sodium	4000U	P
9.	Cobalt	26U	P	21.	Thallium	7U	F R
10.	Copper	16U	P	22.	Tin	40U	P
11.	Iron	17U	P	23.	Vanadium	10U	P
12.	Lead	3U	F	24.	Zinc	26	P

Cyanide NA Percent Solids (%) NA

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager Ken U. Ed

Spectrix D.C. Control # 5314-06-0

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MFB627

Date 1-9-86

~~INORGANIC ANALYSIS~~ DATA SHEET

LAB NAME SPECTRIX CASE NO. 5314

SOW NO. 784

LAB SAMPLE ID. NO. 8512057-32A QC REPORT NO. 43

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	16000	P *	13.	Magnesium	5360	P
2.	Antimony	7.0U	F R	14.	Manganese	256	P
3.	Arsenic	5.6U	F	15.	Mercury	0.10	CV R
4.	Barium	204	P	16.	Nickel	15U	P
5.	Beryllium	[2.79]	P	17.	Potassium	[2740]	P
6.	Cadmium	3.5U	P	18.	Selenium	3.5U	F
7.	Calcium	8270	P	19.	Silver	7.0U	P
8.	Chromium	25.8	P	20.	Sodium	2800U	P
9.	Cobalt	18U	P	21.	Thallium	4.9U	F
10.	Copper	18.8	P	22.	Tin	28U	P R
11.	Iron	19400	P *	23.	Vanadium	35.6	P
12.	Lead	8.3	F R	24.	Zinc	64.9	P

Cyanide NA Percent Solids (%) 71.67

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: Solid Correction Factor = 1.395

Lab Manager [signature]

000060

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: 6/13/86

RECEIVED
EPA REGION VI
1986 JUN 17 AM 7:43
SUPERFUND BRANCH

SUBJECT: Potential Hazardous Waste Site

FROM: Keith Bradley, FIT RPO
Hazardous Waste Section (6E-SH)

TO: Martha McKee, Chief
Compliance Section (6H-ES)

Site Name: Sun Refining + Marketing Co.
Location: Tulsa, OK
Hazsit No.: OK 1911
TDD No.: R6-8506-23 OKD058078775
X-refin SA Vol. 1

A. Deliverables:

1. Preliminary Assessment (Form 2070-2) attached ( )
2. Site Inspection Report (Form 2070-3) attached ( )
3. Sampling Inspection Report attached (X)
4. Other: _____ attached ( )

B. Were drinking water wells sampled? Yes ( ) No (X)

C. Analytical Data:

SUPERFUND FILE
AUG 27 1992
REORGANIZ...

1. None collected ( )
2. Field data ( )
3. Contract lab results attached (X)
4. Houston lab results attached ( )

D. Comments:

FIT recommends no additional sampling at this site since the measures taken by the company to control erosion appear to be effective. FIT also indicates that periodic monitoring of the facility is recommended in order to check on erosion + seepage.

No action needed - RCRA site - CY 6H-CP

cc:(circle) Cabra (6W-S)
Gazda (6E-E)
Taylor (6H-CE)

EPA Form 1320-6 (Rev. 3-76)

SPECTRIX D.C. #5314-6-8

Sample Number
FC406RE

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205225
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By: TTO
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 01/20/86
Date Analyzed: 01/20/86
Conc/Dil Factor: 1. pH 6.50
Percent Moisture: (Not Decanted) 16.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	12. U	78-87-5	1,2-Dichloropropane	6.0U
74-83-9	Bromomethane	12. U	10061-02-6	Trans-1,3-Dichloroproene	6.0U
75-01-4	Vinyl Chloride	12. U	79-01-6	Trichloroethene	6.0U
75-00-3	Chloroethane	12. U	124-48-1	Dibromochloromethane	6.0U
75-09-2	Methylene Chloride	8.0	79-00-5	1,1,2-Trichloroethane	6.0U
67-64-1	Acetone	12. U	71-43-2	Benzene	6.0U
75-15-0	Carbon Disulfide	6.0U	10061-01-5	cis-1,3-Dichloropropene	6.0U
75-35-4	1,1-Dichloroethene	6.0U	110-75-8	2-Chloroethylvinylether	12. U
75-35-3	1,1-Dichloroethane	6.0U	75-25-2	Bromoform	6.0U
156-60-5	Trans-1,2-Dichloroethene	6.0U	108-10-1	4-Methyl-2-Pentanone	12. U
67-66-3	Chloroform	4.5BJ	591-78-6	2-Hexanone	12. U
107-06-2	1,2-Dichloroethane	6.0U	127-18-4	Tetrachloroethene	5.8J
78-93-3	2-Butanone	12. U	79-34-5	1,1,2,2-Tetrachloroethane	6.0U
71-55-6	1,1,1-Trichloroethane	6.0U	108-88-3	Toluene	1.6BJ
56-23-5	Carbon Tetrachloride	6.0U	108-90-7	Chlorobenzene	6.0U
108-05-4	Vinyl Acetate	12. U	100-41-4	Ethylbenzene	6.0U
75-27-4	Bromodichloromethane	6.0U	100-42-5	Styrene	6.0U
				Total Xylenes	6.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Sun Refinery & Marketing
OKD058078775

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC406

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V25A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	40		27 J
75-31-0	2-PROPANAMINE	105	867	35 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FB796

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205222
Sample Matrix: SOIL
Data Release Authorized By: 110

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/24/85
Date Analyzed: 12/24/85
Conc/Dil Factor: 1. pH 7.00
Percent Moisture: (Not Decanted) 25.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	13. U	78-87-5	1,2-Dichloropropane	6.7U
74-83-9	Bromomethane	13. U	10061-02-6	Trans-1,3-Dichloroproene	6.7U
75-01-4	Vinyl Chloride	13. U	79-01-6	Trichloroethene	6.7U
75-00-3	Chloroethane	13. U	124-48-1	Dibromochloromethane	6.7U
75-09-2	Methylene Chloride	17. B	79-00-5	1,1,2-Trichloroethane	6.7U
67-64-1	Acetone	13. U	71-43-2	Benzene	6.7U
75-15-0	Carbon Disulfide	6.7U	10061-01-5	cis-1,3-Dichloropropene	6.7U
75-35-4	1,1-Dichloroethene	6.7U	110-75-8	2-Chloroethylvinylether	13. U
75-[illegible]5-3	1,1-Dichloroethane	6.7U	75-25-2	Bromoform	6.7U
156-60-5	Trans-1,2-Dichloroethene	6.7U	108-10-1	4-Methyl-2-Pentanone	13. U
67-66-3	Chloroform	6.7U	591-78-6	2-Hexanone	13. U
107-06-2	1,2-Dichloroethane	6.7U	127-18-4	Tetrachloroethene	6.7U
78-93-3	2-Butanone	13. U	79-34-5	1,1,2,2-Tetrachloroethane	6.7U
71-55-6	1,1,1-Trichloroethane	6.7U	108-88-3	Toluene	2.1BJ
56-23-5	Carbon Tetrachloride	6.7U	108-90-7	Chlorobenzene	6.7U
108-05-4	Vinyl Acetate	13. U	100-41-4	Ethylbenzene	6.7U
75-27-4	Bromodichloromethane	6.7U	100-42-5	Styrene	6.7U
				Total Xylenes	6.7U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB796

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/14/86
Dil Factor: 5.000
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	2200. U	83-32-9	Acenaphthene	2200. U
111-44-4	bis(2-Chloroethyl)Ether	2200. U	51-28-5	2,4-Dinitrophenol	11000.U
95-57-8	2-Chlorophenol	2200. U	100-02-7	4-Nitrophenol	11000.U
541-73-1	1,3-Dichlorobenzene	2200. U	132-64-9	Dibenzofuran	2200. U
106-46-7	1,4-Dichlorobenzene	2200. U	121-14-2	2,4-Dinitrotoluene	2200. U
100-51-6	Benzyl Alcohol	2200. U	606-20-2	2,6-Dinitrotoluene	2200. U
95-50-1	1,2-Dichlorobenzene	2200. U	84-66-2	Diethylphthalate	2200. U
95-48-7	2-Methylphenol	2200. U	7005-72-3	4-Chlorophenyl-phenylether	2200. U
39638-32-9	bis(2-Chloroisopropyl)Ether	2200. U	86-73-7	Fluorene	2200. U
106-44-5	4-Methylphenol	2200. U	100-10-6	4-Nitroaniline	11000.U
621-64-7	N-Nitroso-Di-n-Propylamine	2200. U	534-52-1	4,6-Dinitro-2-Methylphenol	11000.U
67[illegible]2-1	Hexachloroethane	2200. U	86-30-6	N-Nitrosodiphenylamine (1)	350. J
98-95-3	Nitrobenzene	2200. U	101-55-3	4-Bromophenyl-phenylether	2200. U
78-59-1	Isophorone	2200. U	118-74-1	Hexachlorobenzene	2200. U
88-75-5	2-Nitrophenol	2200. U	87-86-5	Pentachlorophenol	11000.U
105-67-9	2,4-Dimethylphenol	2200. U	85-01-8	Phenanthrene	2200. U
65-85-0	Benzoic Acid	11000.U	120-12-7	Anthracene	2200. U
111-91-1	bis(2-Chloroethoxy)Methane	2200. U	84-74-2	Di-n-Butylphthalate	2200. U
120-83-2	2,4-Dichlorophenol	2200. U	206-44-0	Fluoranthene	2200. U
120-82-1	1,2,4-Trichlorobenzene	2200. U	129-00-0	Pyrene	2200. U
91-20-3	Naphthalene	2200. U	85-68-7	Butylbenzylphthalate	2200. U
106-47-8	4-Chloroaniline	2200. U	91-94-1	3,3'-Dichlorobenzidine	4400. U
87-68-3	Hexachlorobutadiene	2200. U	56-55-3	Benzo(a)Anthracene	2200. U
59-50-7	4-Chloro-3-Methylphenol	2200. U	117-81-7	bis(2-Ethylhexyl)Phthalate	2200. BU
91-57-6	2-Methylnaphthalene	2200. U	218-01-9	Chrysene	2200. U
77-47-4	Hexachlorocyclopentadiene	2200. U	117-84-0	Di-n-Octyl Phthalate	2200. U
88-06-2	2,4,6-Trichlorophenol	2200. U	205-99-2	Benzo(b)Fluoranthene	2200. U
95-95-4	2,4,5-Trichlorophenol	11000.U	207-08-9	Benzo(k)Fluoranthene	2200. U
91-58-7	2-Chloronaphthalene	2200. U	50-32-8	Benzo(a)Pyrene	2200. U
88-74-4	2-Nitroaniline	11000.U	193-39-5	Indeno(1,2,3-cd)Pyrene	2200. U
131-11-3	Dimethyl Phthalate	2200. U	53-70-3	Dibenz(a,h)Anthracene	2200. U
208-96-8	Acenaphthylene	2200. U	191-24-2	Benzo(g,h,i)Perylene	2200. U
99-09-2	3-Nitroaniline	11000.U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FB796

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V22

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				ug/kg ~~ug/L~~

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FB796

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C22

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/KG	
108-21-4	Acetic Acid, 1-Methylethyl ESTER	302	787	4600	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	336		200000	J
3074-71-3	Heptane, 2,3-Dimethyl	346	908	1500	J
3074-71-3	Heptane, 2,3-Dimethyl	360	859	1400	J
2216-33-3	Octane, 3-Methyl-	370	928	1700	J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC404

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205223
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By:
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/28/85
Date Analyzed: 12/28/85
Dil Factor: 1.200 pH 6.80
Percent Moisture: (Not Decanted) 6.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1300. U	78-87-5	1,2-Dichloropropane	640. U
74-83-9	Bromomethane	1300. U	10061-02-6	Trans-1,3-Dichloropropene	640. U
75-01-4	Vinyl Chloride	1300. U	79-01-6	Trichloroethene	640. U
75-00-3	Chloroethane	1300. U	124-48-1	Dibromochloromethane	640. U
75-09-2	Methylene Chloride	1400. B	79-00-5	1,1,2-Trichloroethane	640. U
67-64-1	Acetone	1300. U	71-43-2	Benzene	640. U
75-15-0	Carbon Disulfide	640. U	10061-01-5	cis-1,3-Dichloropropene	640. U
75-35-4	1,1-Dichloroethene	640. U	110-75-8	2-Chloroethylvinylether	1300. U
75-34-3	1,1-Dichloroethane	640. U	75-25-2	Bromoform	640. U
156-60-5	Trans-1,2-Dichloroethene	640. U	108-10-1	4-Methyl-2-Pentanone	1300. U
67-66-3	Chloroform	640. U	591-78-6	2-Hexanone	1300. U
107-06-2	1,2-Dichloroethane	640. U	127-18-4	Tetrachloroethene	640. U
78-93-3	2-Butanone	1300. U	79-34-5	1,1,2,2-Tetrachloroethane	640. U
71-55-6	1,1,1-Trichloroethane	640. U	108-88-3	Toluene	300. BJ
56-23-5	Carbon Tetrachloride	640. U	108-90-7	Chlorobenzene	640. U
108-05-4	Vinyl Acetate	1300. U	100-41-4	Ethylbenzene	640. U
75-27-4	Bromodichloromethane	640. U	100-42-5	Styrene	640. U
				Total Xylenes	640. U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing
OKD058078775

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC404

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/14/86
Dil Factor: 2.500
Percent Moisture: (Decanted) ——

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	53000.U	83-32-9	Acenaphthene	53000.U
111-44-4	bis(2-Chloroethyl)Ether	53000.U	51-28-5	2,4-Dinitrophenol	260000U
95-57-8	2-Chlorophenol	53000.U	100-02-7	4-Nitrophenol	260000U
541-73-1	1,3-Dichlorobenzene	53000.U	132-64-9	Dibenzofuran	53000.U
106-46-7	1,4-Dichlorobenzene	53000.U	121-14-2	2,4-Dinitrotoluene	53000.U
100-51-6	Benzyl Alcohol	53000.U	606-20-2	2,6-Dinitrotoluene	53000.U
95-50-1	1,2-Dichlorobenzene	53000.U	84-66-2	Diethylphthalate	53000.U
95-48-7	2-Methylphenol	53000.U	7005-72-3	4-Chlorophenyl-phenylether	53000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	53000.U	86-73-7	Fluorene	53000.U
106-44-5	4-Methylphenol	53000.U	100-10-6	4-Nitroaniline	260000U
621-64-7	N-Nitroso-Di-n-Propylamine	53000.U	534-52-1	4,6-Dinitro-2-Methylphenol	260000U
67[illegible]2-1	Hexachloroethane	53000.U	86-30-6	N-Nitrosodiphenylamine (1)	53000.U
98-95-3	Nitrobenzene	53000.U	101-55-3	4-Bromophenyl-phenylether	53000.U
78-59-1	Isophorone	53000.U	118-74-1	Hexachlorobenzene	53000.U
88-75-5	2-Nitrophenol	53000.U	87-86-5	Pentachlorophenol	260000U
105-67-9	2,4-Dimethylphenol	53000.U	85-01-8	Phenanthrene	53000.U
65-85-0	Benzoic Acid	260000U	120-12-7	Anthracene	53000.U
111-91-1	bis(2-Chloroethoxy)Methane	53000.U	84-74-2	Di-n-Butylphthalate	53000.U
120-83-2	2,4-Dichlorophenol	53000.U	206-44-0	Fluoranthene	53000.U
120-82-1	1,2,4-Trichlorobenzene	53000.U	129-00-0	Pyrene	53000.U
91-20-3	Naphthalene	53000.U	85-68-7	Butylbenzylphthalate	53000.U
106-47-8	4-Chloroaniline	53000.U	91-94-1	3,3'-Dichlorobenzidine	110000U
87-68-3	Hexachlorobutadiene	53000.U	56-55-3	Benzo(a)Anthracene	53000.U
59-50-7	4-Chloro-3-Methylphenol	53000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	53000.U
91-57-6	2-Methylnaphthalene	53000.U	218-01-9	Chrysene	53000.U
77-47-4	Hexachlorocyclopentadiene	53000.U	117-84-0	Di-n-Octyl Phthalate	53000.U
88-06-2	2,4,6-Trichlorophenol	53000.U	205-99-2	Benzo(b)Fluoranthene	53000.U
95-95-4	2,4,5-Trichlorophenol	260000U	207-08-9	Benzo(k)Fluoranthene	53000.U
91-58-7	2-Chloronaphthalene	53000.U	50-32-8	Benzo(a)Pyrene	53000.BU
88-74-4	2-Nitroaniline	260000U	193-39-5	Indeno(1,2,3-cd)Pyrene	53000.U
131-11-3	Dimethyl Phthalate	53000.U	53-70-3	Dibenz(a,h)Anthracene	53000.U
208-96-8	Acenaphthylene	53000.U	191-24-2	Benzo(g,h,i)Perylene	53000.U
99-09-2	3-Nitroaniline	260000U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC404

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V23

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT (µg/kg CKT ~~ug/L~~)
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	44		13000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	48		15000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	60		4200 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	98		1400 J
78-78-4	Butane, 2-Methyl-	225	976	2100 J
7747-25-4	Hexane, 2,2,3-Trimethyl	324	897	1100 J
19411-65-5	Hydroxylamine, o-(3-Methylbutyl)-	331	811	1600 J
589-34-4	Hexane, 3-Methyl-	422	866	800 J

J = Estimated value - A 1:1 Response Factor is assumed

SAMPLE: FC404

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C23

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	520		45000 J
		~~951~~ YPH		~~86000~~ YPH

J = Estimated value - A 1:1 Response Factor is assumed

Sample Number
FC405

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205224
Sample Matrix: SOIL
Data Release Authorized By: TTO

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/26/85
Date Analyzed: 12/26/85
Conc/Dil Factor: 1. pH 6.70
Percent Moisture: (Not Decanted) 31.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	14. U	78-87-5	1,2-Dichloropropane	7.2U
74-83-9	Bromomethane	14. U	10061-02-6	Trans-1,3-Dichloroproene	7.2U
75-01-4	Vinyl Chloride	14. U	79-01-6	Trichloroethene	7.2U
75-00-3	Chloroethane	14. U	124-48-1	Dibromochloromethane	7.2U
75-09-2	Methylene Chloride	~~8.4B~~ 8.0 Not	79-00-5	1,1,2-Trichloroethane	7.2U
67-64-1	Acetone	14. U	71-43-2	Benzene	7.2U
75-15-0	Carbon Disulfide	7.2U	10061-01-5	cis-1,3-Dichloropropene	7.2U
75-35-4	1,1-Dichloroethene	7.2U	110-75-8	2-Chloroethylvinylether	14. U
75-[illegible]5-3	1,1-Dichloroethane	7.2U	75-25-2	Bromoform	7.2U
156-60-5	Trans-1,2-Dichloroethene	7.2U	108-10-1	4-Methyl-2-Pentanone	14. U
67-66-3	Chloroform	7.2U	591-78-6	2-Hexanone	14. U
107-06-2	1,2-Dichloroethane	7.2U	127-18-4	Tetrachloroethene	7.2U
78-93-3	2-Butanone	14. U	79-34-5	1,1,2,2-Tetrachloroethane	7.2U
71-55-6	1,1,1-Trichloroethane	7.2U	108-88-3	Toluene	2.3BJ
56-23-5	Carbon Tetrachloride	7.2U	108-90-7	Chlorobenzene	7.2U
108-05-4	Vinyl Acetate	14. U	100-41-4	Ethylbenzene	7.2U
75-27-4	Bromodichloromethane	7.2U	100-42-5	Styrene	7.2U
				Total Xylenes	7.2U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Form I

Sun Refinery + Marketing
OKD058078775

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC405

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/14/86
Dil Factor: 25.000
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	12000.U	83-32-9	Acenaphthene	12000.U
111-44-4	bis(2-Chloroethyl)Ether	12000.U	51-28-5	2,4-Dinitrophenol	58000.U
95-57-8	2-Chlorophenol	12000.U	100-02-7	4-Nitrophenol	58000.U
541-73-1	1,3-Dichlorobenzene	12000.U	132-64-9	Dibenzofuran	12000.U
106-46-7	1,4-Dichlorobenzene	12000.U	121-14-2	2,4-Dinitrotoluene	12000.U
100-51-6	Benzyl Alcohol	12000.U	606-20-2	2,6-Dinitrotoluene	12000.U
95-50-1	1,2-Dichlorobenzene	12000.U	84-66-2	Diethylphthalate	12000.U
95-48-7	2-Methylphenol	12000.U	7005-72-3	4-Chlorophenyl-phenylether	12000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	12000.U	86-73-7	Fluorene	12000.U
106-44-5	4-Methylphenol	12000.U	100-10-6	4-Nitroaniline	58000.U
621-64-7	N-Nitroso-Di-n-Propylamine	12000.U	534-52-1	4,6-Dinitro-2-Methylphenol	58000.U
67[illegible]2-1	Hexachloroethane	12000.U	86-30-6	N-Nitrosodiphenylamine (1)	12000.U
98-95-3	Nitrobenzene	12000.U	101-55-3	4-Bromophenyl-phenylether	12000.U
78-59-1	Isophorone	12000.U	118-74-1	Hexachlorobenzene	12000.U
88-75-5	2-Nitrophenol	12000.U	87-86-5	Pentachlorophenol	58000.U
105-67-9	2,4-Dimethylphenol	12000.U	85-01-8	Phenanthrene	12000.U
65-85-0	Benzoic Acid	58000.U	120-12-7	Anthracene	12000.U
111-91-1	bis(2-Chloroethoxy)Methane	12000.U	84-74-2	Di-n-Butylphthalate	12000.U
120-83-2	2,4-Dichlorophenol	12000.U	206-44-0	Fluoranthene	12000.U
120-82-1	1,2,4-Trichlorobenzene	12000.U	129-00-0	Pyrene	12000.U
91-20-3	Naphthalene	12000.U	85-68-7	Butylbenzylphthalate	12000.U
106-47-8	4-Chloroaniline	12000.U	91-94-1	3,3'-Dichlorobenzidine	24000.U
87-68-3	Hexachlorobutadiene	12000.U	56-55-3	Benzo(a)Anthracene	12000.U
59-50-7	4-Chloro-3-Methylphenol	12000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	12000.BU
91-57-6	2-Methylnaphthalene	12000.U	218-01-9	Chrysene	12000.U
77-47-4	Hexachlorocyclopentadiene	12000.U	117-84-0	Di-n-Octyl Phthalate	12000.U
88-06-2	2,4,6-Trichlorophenol	12000.U	205-99-2	Benzo(b)Fluoranthene	12000.U
95-95-4	2,4,5-Trichlorophenol	58000.U	207-08-9	Benzo(k)Fluoranthene	12000.U
91-58-7	2-Chloronaphthalene	12000.U	50-32-8	Benzo(a)Pyrene	12000.U
88-74-4	2-Nitroaniline	58000.U	193-39-5	Indeno(1,2,3-cd)Pyrene	12000.U
131-11-3	Dimethyl Phthalate	12000.U	53-70-3	Dibenz(a,h)Anthracene	12000.U
208-96-8	Acenaphthylene	12000.U	191-24-2	Benzo(g,h,i)Perylene	12000.U
99-09-2	3-Nitroaniline	58000.U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC405

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V24

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA			ug/L ug/kg
		40		29 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	102		50 J

J = Estimated value - A 1:1 Response Factor is assumed

SAMPLE: FC405

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C24

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	337		180000 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC406

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205225
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/26/85
Date Analyzed: 12/26/85
Conc/Dil Factor: 1. pH 6.50
Percent Moisture: (Not Decanted) 16.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	12. U	78-87-5	1,2-Dichloropropane	6.0U
74-83-9	Bromomethane	12. U	10061-02-6	Trans-1,3-Dichloroproene	6.0U
75-01-4	Vinyl Chloride	12. U	79-01-6	Trichloroethene	6.0U
75-00-3	Chloroethane	12. U	124-48-1	Dibromochloromethane	6.0U
75-09-2	Methylene Chloride	16. B	79-00-5	1,1,2-Trichloroethane	6.0U
67-64-1	Acetone	12. U	71-43-2	Benzene	6.0U
75-15-0	Carbon Disulfide	6.0U	10061-01-5	cis-1,3-Dichloropropene	6.0U
75-35-4	1,1-Dichloroethene	6.0U	110-75-8	2-Chloroethylvinylether	12. U
75-[illegible]5-3	1,1-Dichloroethane	6.0U	75-25-2	Bromoform	6.0U
156-60-5	Trans-1,2-Dichloroethene	6.0U	108-10-1	4-Methyl-2-Pentanone	12. U
67-66-3	Chloroform	6.0U	591-78-6	2-Hexanone	12. U
107-06-2	1,2-Dichloroethane	6.0U	127-18-4	Tetrachloroethene	6.0U
78-93-3	2-Butanone	12. U	79-34-5	1,1,2,2-Tetrachloroethane	6.0U
71-55-6	1,1,1-Trichloroethane	6.0U	108-88-3	Toluene	6.0BU
56-23-5	Carbon Tetrachloride	6.0U	108-90-7	Chlorobenzene	6.0U
108-05-4	Vinyl Acetate	12. U	100-41-4	Ethylbenzene	6.0U
75-27-4	Bromodichloromethane	6.0U	100-42-5	Styrene	6.0U
				Total Xylenes	6.0U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC406

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/13/86
Dil Factor: 5.000
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	2000. U	83-32-9	Acenaphthene	2000. U
111-44-4	bis(2-Chloroethyl)Ether	2000. U	51-28-5	2,4-Dinitrophenol	9500. U
95-57-8	2-Chlorophenol	2000. U	100-02-7	4-Nitrophenol	9500. U
541-73-1	1,3-Dichlorobenzene	2000. U	132-64-9	Dibenzofuran	2000. U
106-46-7	1,4-Dichlorobenzene	2000. U	121-14-2	2,4-Dinitrotoluene	2000. U
100-51-6	Benzyl Alcohol	2000. U	606-20-2	2,6-Dinitrotoluene	2000. U
95-50-1	1,2-Dichlorobenzene	2000. U	84-66-2	Diethylphthalate	2000. U
95-48-7	2-Methylphenol	2000. U	7005-72-3	4-Chlorophenyl-phenylether	2000. U
39638-32-9	bis(2-Chloroisopropyl)Ether	2000. U	86-73-7	Fluorene	2000. U
106-44-5	4-Methylphenol	2000. U	100-10-6	4-Nitroaniline	9500. U
621-64-7	N-Nitroso-Di-n-Propylamine	2000. U	534-52-1	4,6-Dinitro-2-Methylphenol	9500. U
67[illegible]2-1	Hexachloroethane	2000. U	86-30-6	N-Nitrosodiphenylamine (1)	2000. U
98-95-3	Nitrobenzene	2000. U	101-55-3	4-Bromophenyl-phenylether	2000. U
78-59-1	Isophorone	2000. U	118-74-1	Hexachlorobenzene	2000. U
88-75-5	2-Nitrophenol	2000. U	87-86-5	Pentachlorophenol	9500. U
105-67-9	2,4-Dimethylphenol	2000. U	85-01-8	Phenanthrene	2000. U
65-85-0	Benzoic Acid	9500. U	120-12-7	Anthracene	2000. U
111-91-1	bis(2-Chloroethoxy)Methane	2000. U	84-74-2	Di-n-Butylphthalate	2000. U
120-83-2	2,4-Dichlorophenol	2000. U	206-44-0	Fluoranthene	2000. U
120-82-1	1,2,4-Trichlorobenzene	2000. U	129-00-0	Pyrene	2000. U
91-20-3	Naphthalene	2000. U	85-68-7	Butylbenzylphthalate	2000. U
106-47-8	4-Chloroaniline	2000. U	91-94-1	3,3'-Dichlorobenzidine	3900. U
87-68-3	Hexachlorobutadiene	2000. U	56-55-3	Benzo(a)Anthracene	2000. U
59-50-7	4-Chloro-3-Methylphenol	2000. U	117-81-7	bis(2-Ethylhexyl)Phthalate	2000. BU
91-57-6	2-Methylnaphthalene	2000. U	218-01-9	Chrysene	2000. U
77-47-4	Hexachlorocyclopentadiene	2000. U	117-84-0	Di-n-Octyl Phthalate	2000. U
88-06-2	2,4,6-Trichlorophenol	2000. U	205-99-2	Benzo(b)Fluoranthene	2000. U
95-95-4	2,4,5-Trichlorophenol	9500. U	207-08-9	Benzo(k)Fluoranthene	2000. U
91-58-7	2-Chloronaphthalene	2000. U	50-32-8	Benzo(a)Pyrene	2000. U
88-74-4	2-Nitroaniline	9500. U	193-39-5	Indeno(1,2,3-cd)Pyrene	2000. U
131-11-3	Dimethyl Phthalate	2000. U	53-70-3	Dibenz(a,h)Anthracene	2000. U
208-96-8	Acenaphthylene	2000. U	191-24-2	Benzo(g,h,i)Perylene	2000. U
99-09-2	3-Nitroaniline	9500. U			

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC406

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V25

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT ug/kg ~~ug/L~~	
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	38		37	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	100		55	J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC406

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C25

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	311		110000 J
1072-05-5	Heptane, 2,6 - Dimethyl	338	838	1600 J
52896-87-4	Heptane, 4-(1-Methylethyl)-	349	923	1400 J
~~321-60-8~~	~~1,1'-Biphenyl, 2-Fluoro-~~	~~954~~	~~927~~	~~2100 J~~

110

J = Estimated value - A 1:1 Response Factor is assumed

Sample Number
FC407

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205226
Sample Matrix: SOIL
Data Release Authorized By: NO

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/27/85
Date Analyzed: 12/27/85
Conc/Dil Factor: 1. pH 7.50
Percent Moisture: (Not Decanted) 14.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	12. U	78-87-5	1,2-Dichloropropane	5.8U
74-83-9	Bromomethane	12. U	10061-02-6	Trans-1,3-Dichloroproene	5.8U
75-01-4	Vinyl Chloride	12. U	79-01-6	Trichloroethene	5.8U
75-00-3	Chloroethane	12. U	124-48-1	Dibromochloromethane	5.8U
75-09-2	Methylene Chloride	12. B	79-00-5	1,1,2-Trichloroethane	5.8U
67-64-1	Acetone	12. U	71-43-2	Benzene	5.8U
75-15-0	Carbon Disulfide	5.8U	10061-01-5	cis-1,3-Dichloropropene	5.8U
75-35-4	1,1-Dichloroethene	5.8U	110-75-8	2-Chloroethylvinylether	12. U
75-[illegible]5-3	1,1-Dichloroethane	5.8U	75-25-2	Bromoform	5.8U
156-60-5	Trans-1,2-Dichloroethene	5.8U	108-10-1	4-Methyl-2-Pentanone	12. U
67-66-3	Chloroform	5.8U	591-78-6	2-Hexanone	12. U
107-06-2	1,2-Dichloroethane	5.8U	127-18-4	Tetrachloroethene	5.8U
78-93-3	2-Butanone	12. U	79-34-5	1,1,2,2-Tetrachloroethane	5.8U
71-55-6	1,1,1-Trichloroethane	5.8U	108-88-3	Toluene	5.8BU
56-23-5	Carbon Tetrachloride	5.8U	108-90-7	Chlorobenzene	5.8U
108-05-4	Vinyl Acetate	12. U	100-41-4	Ethylbenzene	5.8U
75-27-4	Bromodichloromethane	5.8U	100-42-5	Styrene	5.8BU
				Total Xylenes	5.8U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC407

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/09/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) ——

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	380.	U	83-32-9	Acenaphthene	380.	U
111-44-4	bis(2-Chloroethyl)Ether	380.	U	51-28-5	2,4-Dinitrophenol	1900.	U
95-57-8	2-Chlorophenol	380.	U	100-02-7	4-Nitrophenol	1900.	U
541-73-1	1,3-Dichlorobenzene	380.	U	132-64-9	Dibenzofuran	380.	U
106-46-7	1,4-Dichlorobenzene	380.	U	121-14-2	2,4-Dinitrotoluene	380.	U
100-51-6	Benzyl Alcohol	380.	U	606-20-2	2,6-Dinitrotoluene	380.	U
95-50-1	1,2-Dichlorobenzene	380.	U	84-66-2	Diethylphthalate	380.	U
95-48-7	2-Methylphenol	380.	U	7005-72-3	4-Chlorophenyl-phenylether	380.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	380.	U	86-73-7	Fluorene	380.	U
106-44-5	4-Methylphenol	380.	U	100-10-6	4-Nitroaniline	1900.	U
621-64-7	N-Nitroso-Di-n-Propylamine	380.	U	534-52-1	4,6-Dinitro-2-Methylphenol	1900.	U
67[illegible]2-1	Hexachloroethane	380.	U	86-30-6	N-Nitrosodiphenylamine (1)	380.	U
98-95-3	Nitrobenzene	380.	U	101-55-3	4-Bromophenyl-phenylether	380.	U
78-59-1	Isophorone	380.	U	118-74-1	Hexachlorobenzene	380.	U
88-75-5	2-Nitrophenol	380.	U	87-86-5	Pentachlorophenol	1900.	U
105-67-9	2,4-Dimethylphenol	380.	U	85-01-8	Phenanthrene	380.	U
65-85-0	Benzoic Acid	1900.	U	120-12-7	Anthracene	380.	U
111-91-1	bis(2-Chloroethoxy)Methane	380.	U	84-74-2	Di-n-Butylphthalate	380.	U
120-83-2	2,4-Dichlorophenol	380.	U	206-44-0	Fluoranthene	380.	U
120-82-1	1,2,4-Trichlorobenzene	380.	U	129-00-0	Pyrene	380.	U
91-20-3	Naphthalene	380.	U	85-68-7	Butylbenzylphthalate	380.	U
106-47-8	4-Chloroaniline	380.	U	91-94-1	3,3'-Dichlorobenzidine	770.	U
87-68-3	Hexachlorobutadiene	380.	U	56-55-3	Benzo(a)Anthracene	380.	U
59-50-7	4-Chloro-3-Methylphenol	380.	U	117-81-7	bis(2-Ethylhexyl)Phthalate	380.	BU
91-57-6	2-Methylnaphthalene	380.	U	218-01-9	Chrysene	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U	117-84-0	Di-n-Octyl Phthalate	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	205-99-2	Benzo(b)Fluoranthene	380.	U
95-95-4	2,4,5-Trichlorophenol	1900.	U	207-08-9	Benzo(k)Fluoranthene	380.	U
91-58-7	2-Chloronaphthalene	380.	U	50-32-8	Benzo(a)Pyrene	380.	U
88-74-4	2-Nitroaniline	1900.	U	193-39-5	Indeno(1,2,3-cd)Pyrene	380.	U
131-11-3	Dimethyl Phthalate	380.	U	53-70-3	Dibenz(a,h)Anthracene	380.	U
208-96-8	Acenaphthylene	380.	U	191-24-2	Benzo(g,h,i)Perylene	380.	U
99-09-2	3-Nitroaniline	1900.	U				

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC407

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V26

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				CKT UG/KG ~~UG/L~~
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	105		58 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530

Spectrix DC # 5314-6- 8

SAMPLE: FC407

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation

CASE NO.: 5314

QC REPORT NO.: 157

ANALYST: YPH

DATAFILE: EU12052C26

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/KG
72101-07-6	Diphosphoric Acid, Diisooctyl Ester	260	878	670 J
108-21-4	Acetic Acid, 1-Methylethyl Ester	304	806	7500 J
625-06-9	2-Pentanol, 2,4-Dimethyl-	348	754	150000 J
[illegible]-34-4	Octane, 4-Methyl-	357	891	1800 J
52896-87-4	Heptane, 4-(1-Methylethyl)-	368	913	2000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	436		1700 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	518		360 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2197		580 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC408

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205227
QC Report No: 157
Sample Matrix: SOIL
Contract No: 69-01-6798
Data Release Authorized By: [illegible]
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/26/85
Date Analyzed: 12/26/85
Conc/Dil Factor: 1. pH 6.40
Percent Moisture: (Not Decanted) 20.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	13. U	78-87-5	1,2-Dichloropropane	6.3U
74-83-9	Bromomethane	13. U	10061-02-6	Trans-1,3-Dichloroproene	6.3U
75-01-4	Vinyl Chloride	13. U	79-01-6	Trichloroethene	6.3U
75-00-3	Chloroethane	13. U	124-48-1	Dibromochloromethane	6.3U
75-09-2	Methylene Chloride	17. B	79-00-5	1,1,2-Trichloroethane	6.3U
67-64-1	Acetone	96.	71-43-2	Benzene	6.3U
75-15-0	Carbon Disulfide	6.3U	10061-01-5	cis-1,3-Dichloropropene	6.3U
75-35-4	1,1-Dichloroethene	6.3U	110-75-8	2-Chloroethylvinylether	13. U
75-[illegible]5-3	1,1-Dichloroethane	6.3U	75-25-2	Bromoform	6.3U
156-60-5	Trans-1,2-Dichloroethene	6.3U	108-10-1	4-Methyl-2-Pentanone	13. U
67-66-3	Chloroform	6.3U	591-78-6	2-Hexanone	13. U
107-06-2	1,2-Dichloroethane	6.3U	127-18-4	Tetrachloroethene	6.3U
78-93-3	2-Butanone	13. U	79-34-5	1,1,2,2-Tetrachloroethane	6.3U
71-55-6	1,1,1-Trichloroethane	6.3U	108-88-3	Toluene	6.3BU
56-23-5	Carbon Tetrachloride	6.3U	108-90-7	Chlorobenzene	6.3U
108-05-4	Vinyl Acetate	13. U	100-41-4	Ethylbenzene	6.3U
75-27-4	Bromodichloromethane	6.3U	100-42-5	Styrene	6.3U
				Total Xylenes	6.3U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing

OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC408

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/13/86
Dil Factor: 2.000
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	830. U	83-32-9	Acenaphthene	830. U
111-44-4	bis(2-Chloroethyl)Ether	830. U	51-28-5	2,4-Dinitrophenol	4000. U
95-57-8	2-Chlorophenol	830. U	100-02-7	4-Nitrophenol	4000. U
541-73-1	1,3-Dichlorobenzene	830. U	132-64-9	Dibenzofuran	830. U
106-46-7	1,4-Dichlorobenzene	830. U	121-14-2	2,4-Dinitrotoluene	830. U
100-51-6	Benzyl Alcohol	830. U	606-20-2	2,6-Dinitrotoluene	830. U
95-50-1	1,2-Dichlorobenzene	830. U	84-66-2	Diethylphthalate	830. U
95-48-7	2-Methylphenol	830. U	7005-72-3	4-Chlorophenyl-phenylether	830. U
39638-32-9	bis(2-Chloroisopropyl)Ether	830. U	86-73-7	Fluorene	830. U
106-44-5	4-Methylphenol	830. U	100-10-6	4-Nitroaniline	4000. U
621-64-7	N-Nitroso-Di-n-Propylamine	830. U	534-52-1	4,6-Dinitro-2-Methylphenol	4000. U
67[illegible]2-1	Hexachloroethane	830. U	86-30-6	N-Nitrosodiphenylamine (1)	830. U
98-95-3	Nitrobenzene	830. U	101-55-3	4-Bromophenyl-phenylether	830. U
78-59-1	Isophorone	830. U	118-74-1	Hexachlorobenzene	830. U
88-75-5	2-Nitrophenol	830. U	87-86-5	Pentachlorophenol	4000. U
105-67-9	2,4-Dimethylphenol	830. U	85-01-8	Phenanthrene	830. U
65-85-0	Benzoic Acid	4000. U	120-12-7	Anthracene	830. U
111-91-1	bis(2-Chloroethoxy)Methane	830. U	84-74-2	Di-n-Butylphthalate	830. U
120-83-2	2,4-Dichlorophenol	830. U	206-44-0	Fluoranthene	830. U
120-82-1	1,2,4-Trichlorobenzene	830. U	129-00-0	Pyrene	830. U
91-20-3	Naphthalene	830. U	85-68-7	Butylbenzylphthalate	830. U
106-47-8	4-Chloroaniline	830. U	91-94-1	3,3'-Dichlorobenzidine	1700. U
87-68-3	Hexachlorobutadiene	830. U	56-55-3	Benzo(a)Anthracene	830. U
59-50-7	4-Chloro-3-Methylphenol	830. U	117-81-7	bis(2-Ethylhexyl)Phthalate	830. BU
91-57-6	2-Methylnaphthalene	830. U	218-01-9	Chrysene	830. U
77-47-4	Hexachlorocyclopentadiene	830. U	117-84-0	Di-n-Octyl Phthalate	830. U
88-06-2	2,4,6-Trichlorophenol	830. U	205-99-2	Benzo(b)Fluoranthene	830. U
95-95-4	2,4,5-Trichlorophenol	4000. U	207-08-9	Benzo(k)Fluoranthene	830. U
91-58-7	2-Chloronaphthalene	830. U	50-32-8	Benzo(a)Pyrene	830. U
88-74-4	2-Nitroaniline	4000. U	193-39-5	Indeno(1,2,3-cd)Pyrene	830. U
131-11-3	Dimethyl Phthalate	830. U	53-70-3	Dibenz(a,h)Anthracene	830. U
208-96-8	Acenaphthylene	830. U	191-24-2	Benzo(g,h,i)Perylene	830. U
99-09-2	3-Nitroaniline	4000. U			

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC408

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V27

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	103		UG/KG ~~UG/L~~ 60 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC408

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C27

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
108-21-4	Acetic Acid, 1-METHYLETHYL ESTER	279	820	4500 J
75-91-2	HYDROPEROXIDE, 1,1-DIMETHYLETHYL	325	773	150000 J
921-47-1	HEXANE, 2,3,4-TRIMETHYL-	343	899	730 J
52896-87-4	HEPTANE, 4-(1-METHYLETHYL)-	354	934	920 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1199		1100 J
10544-50-0	SULFUR, MOL. (S8)	1495	756	9100 J
		~~1502~~ YPH		~~630~~ YPH

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC409

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205228
Sample Matrix: SOIL
Data Release Authorized By: MO

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/28/85
Date Analyzed: 12/28/85
Dil Factor: 1.300 pH 5.90
Percent Moisture: (Not Decanted) 7.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1400. U	78-87-5	1,2-Dichloropropane	700. U
74-83-9	Bromomethane	160. J	10061-02-6	Trans-1,3-Dichloroproene	700. U
75-01-4	Vinyl Chloride	1400. U	79-01-6	Trichloroethene	700. U
75-00-3	Chloroethane	1400. U	124-48-1	Dibromochloromethane	700. U
75-09-2	Methylene Chloride	1400. B	79-00-5	1,1,2-Trichloroethane	700. U
67-64-1	Acetone	1400. U	71-43-2	Benzene	700. U
75-15-0	Carbon Disulfide	700. U	10061-01-5	cis-1,3-Dichloropropene	700. U
75-35-4	1,1-Dichloroethene	700. U	110-75-8	2-Chloroethylvinylether	1400. U
75[illegible]-3	1,1-Dichloroethane	700. U	75-25-2	Bromoform	700. U
156-60-5	Trans-1,2-Dichloroethene	700. U	108-10-1	4-Methyl-2-Pentanone	1400. U
67-66-3	Chloroform	700. U	591-78-6	2-Hexanone	1400. U
107-06-2	1,2-Dichloroethane	700. U	127-18-4	Tetrachloroethene	700. U
78-93-3	2-Butanone	1400. U	79-34-5	1,1,2,2-Tetrachloroethane	700. U
71-55-6	1,1,1-Trichloroethane	700. U	108-88-3	Toluene	310. BJ
56-23-5	Carbon Tetrachloride	700. U	108-90-7	Chlorobenzene	700. U
108-05-4	Vinyl Acetate	1400. U	100-41-4	Ethylbenzene	700. U
75-27-4	Bromodichloromethane	700. U	100-42-5	Styrene	700. U
				Total Xylenes	700. U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing
OKD058078775

000637

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC409

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/15/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) ——

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	21000.U	83-32-9	Acenaphthene	21000.U
111-44-4	bis(2-Chloroethyl)Ether	21000.U	51-28-5	2,4-Dinitrophenol	100000U
95-57-8	2-Chlorophenol	21000.U	100-02-7	4-Nitrophenol	100000U
541-73-1	1,3-Dichlorobenzene	21000.U	132-64-9	Dibenzofuran	21000.U
106-46-7	1,4-Dichlorobenzene	21000.U	121-14-2	2,4-Dinitrotoluene	21000.U
100-51-6	Benzyl Alcohol	21000.U	606-20-2	2,6-Dinitrotoluene	21000.U
95-50-1	1,2-Dichlorobenzene	21000.U	84-66-2	Diethylphthalate	21000.U
95-48-7	2-Methylphenol	21000.U	7005-72-3	4-Chlorophenyl-phenylether	21000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	21000.U	86-73-7	Fluorene	21000.U
106-44-5	4-Methylphenol	21000.U	100-10-6	4-Nitroaniline	100000U
621-64-7	N-Nitroso-Di-n-Propylamine	21000.U	534-52-1	4,6-Dinitro-2-Methylphenol	100000U
67-72-1	Hexachloroethane	21000.U	86-30-6	N-Nitrosodiphenylamine (1)	21000.U
98-95-3	Nitrobenzene	21000.U	101-55-3	4-Bromophenyl-phenylether	21000.U
78-59-1	Isophorone	21000.U	118-74-1	Hexachlorobenzene	21000.U
88-75-5	2-Nitrophenol	21000.U	87-86-5	Pentachlorophenol	100000U
105-67-9	2,4-Dimethylphenol	21000.U	85-01-8	Phenanthrene	21000.U
65-85-0	Benzoic Acid	100000U	120-12-7	Anthracene	21000.U
111-91-1	bis(2-Chloroethoxy)Methane	21000.U	84-74-2	Di-n-Butylphthalate	21000.U
120-83-2	2,4-Dichlorophenol	21000.U	206-44-0	Fluoranthene	21000.U
120-82-1	1,2,4-Trichlorobenzene	21000.U	129-00-0	Pyrene	21000.U
91-20-3	Naphthalene	21000.U	85-68-7	Butylbenzylphthalate	21000.U
106-47-8	4-Chloroaniline	21000.U	91-94-1	3,3'-Dichlorobenzidine	43000.U
87-68-3	Hexachlorobutadiene	21000.U	56-55-3	Benzo(a)Anthracene	21000.U
59-50-7	4-Chloro-3-Methylphenol	21000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	21000.U
91-57-6	2-Methylnaphthalene	21000.U	218-01-9	Chrysene	21000.U
77-47-4	Hexachlorocyclopentadiene	21000.U	117-84-0	Di-n-Octyl Phthalate	21000.U
88-06-2	2,4,6-Trichlorophenol	21000.U	205-99-2	Benzo(b)Fluoranthene	21000.U
95-95-4	2,4,5-Trichlorophenol	100000U	207-08-9	Benzo(k)Fluoranthene	21000.U
91-58-7	2-Chloronaphthalene	21000.U	50-32-8	Benzo(a)Pyrene	21000.BU
88-74-4	2-Nitroaniline	100000U	193-39-5	Indeno(1,2,3-cd)Pyrene	21000.U
131-11-3	Dimethyl Phthalate	21000.U	53-70-3	Dibenz(a,h)Anthracene	21000.U
208-96-8	Acenaphthylene	21000.U	191-24-2	Benzo(g,h,i)Perylene	21000.U
99-09-2	3-Nitroaniline	100000U			

(1) - Cannot be separated from diphenylamine

SAMPLE NUMBER: FC409

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V28

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				ug/kg ~~ug/L~~
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	43		13000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	96		1600 J

J = Estimated value - A 1:1 Response Factor is assumed

SAMPLE: FC409

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C28

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT ug/kg	
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1699		35000	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1755		60000	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1809		79000	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1862		87000	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1914		53000	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1965		53000	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2017		91000	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2077		60000	J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC410

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205229
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By: 110
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/28/85
Date Analyzed: 12/28/85
Dil Factor: 1.200 pH 6.10
Percent Moisture: (Not Decanted) 6.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	1300. U	78-87-5	1,2-Dichloropropane	640. U
74-83-9	Bromomethane	1300. U	10061-02-6	Trans-1,3-Dichloroproene	640. U
75-01-4	Vinyl Chloride	1300. U	79-01-6	Trichloroethene	640. U
75-00-3	Chloroethane	1300. U	124-48-1	Dibromochloromethane	640. U
75-09-2	Methylene Chloride	1200 B	79-00-5	1,1,2-Trichloroethane	640. U
67-64-1	Acetone	1300. U	71-43-2	Benzene	640. U
75-15-0	Carbon Disulfide	640. U	10061-01-5	cis-1,3-Dichloropropene	640. U
75-35-4	1,1-Dichloroethene	640. U	110-75-8	2-Chloroethylvinylether	1300. U
75-[illegible]-3	1,1-Dichloroethane	640. U	75-25-2	Bromoform	640. U
156-60-5	Trans-1,2-Dichloroethene	640. U	108-10-1	4-Methyl-2-Pentanone	1300. U
67-66-3	Chloroform	640. U	591-78-6	2-Hexanone	1300. U
107-06-2	1,2-Dichloroethane	640. U	127-18-4	Tetrachloroethene	640. U
78-93-3	2-Butanone	730 J	79-34-5	1,1,2,2-Tetrachloroethane	640. U
71-55-6	1,1,1-Trichloroethane	640. U	108-88-3	Toluene	290 BJ
56-23-5	Carbon Tetrachloride	640. U	108-90-7	Chlorobenzene	640. U
108-05-4	Vinyl Acetate	1300. U	100-41-4	Ethylbenzene	640. U
75-27-4	Bromodichloromethane	640. U	100-42-5	Styrene	640. U
				Total Xylenes	640. U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED
Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC410

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/14/86
Dil Factor: 2.500
Percent Moisture: (Decanted) ——

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	53000.U	83-32-9	Acenaphthene	53000.U
111-44-4	bis(2-Chloroethyl)Ether	53000.U	51-28-5	2,4-Dinitrophenol	260000U
95-57-8	2-Chlorophenol	53000.U	100-02-7	4-Nitrophenol	260000U
541-73-1	1,3-Dichlorobenzene	53000.U	132-64-9	Dibenzofuran	53000.U
106-46-7	1,4-Dichlorobenzene	53000.U	121-14-2	2,4-Dinitrotoluene	53000.U
100-51-6	Benzyl Alcohol	53000.U	606-20-2	2,6-Dinitrotoluene	53000.U
95-50-1	1,2-Dichlorobenzene	53000.U	84-66-2	Diethylphthalate	53000.U
95-48-7	2-Methylphenol	53000.U	7005-72-3	4-Chlorophenyl-phenylether	53000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	53000.U	86-73-7	Fluorene	53000.U
106-44-5	4-Methylphenol	53000.U	100-10-6	4-Nitroaniline	260000U
621-64-7	N-Nitroso-Di-n-Propylamine	53000.U	534-52-1	4,6-Dinitro-2-Methylphenol	260000U
67[illegible]2-1	Hexachloroethane	53000.U	86-30-6	N-Nitrosodiphenylamine (1)	53000.U
98-95-3	Nitrobenzene	53000.U	101-55-3	4-Bromophenyl-phenylether	53000.U
78-59-1	Isophorone	53000.U	118-74-1	Hexachlorobenzene	53000.U
88-75-5	2-Nitrophenol	53000.U	87-86-5	Pentachlorophenol	260000U
105-67-9	2,4-Dimethylphenol	53000.U	85-01-8	Phenanthrene	53000.U
65-85-0	Benzoic Acid	260000U	120-12-7	Anthracene	53000.U
111-91-1	bis(2-Chloroethoxy)Methane	53000.U	84-74-2	Di-n-Butylphthalate	53000.U
120-83-2	2,4-Dichlorophenol	53000.U	206-44-0	Fluoranthene	53000.U
120-82-1	1,2,4-Trichlorobenzene	53000.U	129-00-0	Pyrene	53000.U
91-20-3	Naphthalene	53000.U	85-68-7	Butylbenzylphthalate	53000.U
106-47-8	4-Chloroaniline	53000.U	91-94-1	3,3'-Dichlorobenzidine	110000U
87-68-3	Hexachlorobutadiene	53000.U	56-55-3	Benzo(a)Anthracene	53000.U
59-50-7	4-Chloro-3-Methylphenol	53000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	53000.U
91-57-6	2-Methylnaphthalene	53000.U	218-01-9	Chrysene	53000.U
77-47-4	Hexachlorocyclopentadiene	53000.U	117-84-0	Di-n-Octyl Phthalate	53000.U
88-06-2	2,4,6-Trichlorophenol	53000.U	205-99-2	Benzo(b)Fluoranthene	53000.U
95-95-4	2,4,5-Trichlorophenol	260000U	207-08-9	Benzo(k)Fluoranthene	53000.U
91-58-7	2-Chloronaphthalene	53000.U	50-32-8	Benzo(a)Pyrene	53000.BU
88-74-4	2-Nitroaniline	260000U	193-39-5	Indeno(1,2,3-cd)Pyrene	53000.U
131-11-3	Dimethyl Phthalate	53000.U	53-70-3	Dibenz(a,h)Anthracene	53000.U
208-96-8	Acenaphthylene	53000.U	191-24-2	Benzo(g,h,i)Perylene	53000.U
99-09-2	3-Nitroaniline	260000U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC410

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V29

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				CKT UG/KG ~~UG/L~~
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	98		1900 J

J = Estimated value - A 1:1 Response Factor is assumed

SAMPLE: FC410

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C29

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	518		48000 J
		~~751~~ YPH		~~91000 J~~ YPH
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1577		85000 J
17301-32-5	UNDECANE, 4,7-DIMETHYL-	1752	814	120000 J
74645-98-0	DODECANE, 2,7,10-TRIMETHYL-	1805	773	110000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1858		70000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1908		72000 J
74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYL*	1958	756	100000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2009		100000 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC411

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205230
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By: MO
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/27/85
Date Analyzed: 12/27/85
Conc/Dil Factor: 1. pH 7.00
Percent Moisture: (Not Decanted) 7.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	11. U	78-87-5	1,2-Dichloropropane	5.4U
74-83-9	Bromomethane	11. U	10061-02-6	Trans-1,3-Dichloroproene	5.4U
75-01-4	Vinyl Chloride	11. U	79-01-6	Trichloroethene	5.4U
75-00-3	Chloroethane	11. U	124-48-1	Dibromochloromethane	5.4U
75-09-2	Methylene Chloride	12. B	79-00-5	1,1,2-Trichloroethane	5.4U
67-64-1	Acetone	180.	71-43-2	Benzene	5.4U
75-15-0	Carbon Disulfide	5.4U	10061-01-5	cis-1,3-Dichloropropene	5.4U
75-35-4	1,1-Dichloroethene	5.4U	110-75-8	2-Chloroethylvinylether	11. U
75-35-3	1,1-Dichloroethane	5.4U	75-25-2	Bromoform	5.4U
156-60-5	Trans-1,2-Dichloroethene	5.4U	108-10-1	4-Methyl-2-Pentanone	11. U
67-66-3	Chloroform	5.4U	591-78-6	2-Hexanone	11. U
107-06-2	1,2-Dichloroethane	5.4U	127-18-4	Tetrachloroethene	5.4U
78-93-3	2-Butanone	11. U	79-34-5	1,1,2,2-Tetrachloroethane	5.4U
71-55-6	1,1,1-Trichloroethane	5.4U	108-88-3	Toluene	2.0BJ
56-23-5	Carbon Tetrachloride	5.4U	108-90-7	Chlorobenzene	5.4U
108-05-4	Vinyl Acetate	11. U	100-41-4	Ethylbenzene	5.4U
75-27-4	Bromodichloromethane	5.4U	100-42-5	Styrene	5.4BU
				Total Xylenes	5.4U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC411

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/13/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	350. U	83-32-9	Acenaphthene	350. U
111-44-4	bis(2-Chloroethyl)Ether	350. U	51-28-5	2,4-Dinitrophenol	1700. U
95-57-8	2-Chlorophenol	350. U	100-02-7	4-Nitrophenol	1700. U
541-73-1	1,3-Dichlorobenzene	350. U	132-64-9	Dibenzofuran	350. U
106-46-7	1,4-Dichlorobenzene	350. U	121-14-2	2,4-Dinitrotoluene	350. U
100-51-6	Benzyl Alcohol	350. U	606-20-2	2,6-Dinitrotoluene	350. U
95-50-1	1,2-Dichlorobenzene	350. U	84-66-2	Diethylphthalate	350. U
95-48-7	2-Methylphenol	350. U	7005-72-3	4-Chlorophenyl-phenylether	350. U
39638-32-9	bis(2-Chloroisopropyl)Ether	350. U	86-73-7	Fluorene	350. U
106-44-5	4-Methylphenol	350. U	100-10-6	4-Nitroaniline	1700. U
621-64-7	N-Nitroso-Di-n-Propylamine	350. U	534-52-1	4,6-Dinitro-2-Methylphenol	1700. U
67[illegible]2-1	Hexachloroethane	350. U	86-30-6	N-Nitrosodiphenylamine (1)	1083. ~~2J~~ NOT
98-95-3	Nitrobenzene	350. U	101-55-3	4-Bromophenyl-phenylether	350. U
78-59-1	Isophorone	350. U	118-74-1	Hexachlorobenzene	350. U
88-75-5	2-Nitrophenol	350. U	87-86-5	Pentachlorophenol	1700. U
105-67-9	2,4-Dimethylphenol	350. U	85-01-8	Phenanthrene	350. U
65-85-0	Benzoic Acid	1700. U	120-12-7	Anthracene	350. U
111-91-1	bis(2-Chloroethoxy)Methane	350. U	84-74-2	Di-n-Butylphthalate	350. U
120-83-2	2,4-Dichlorophenol	350. U	206-44-0	Fluoranthene	350. U
120-82-1	1,2,4-Trichlorobenzene	350. U	129-00-0	Pyrene	350. U
91-20-3	Naphthalene	350. U	85-68-7	Butylbenzylphthalate	350. U
106-47-8	4-Chloroaniline	350. U	91-94-1	3,3'-Dichlorobenzidine	710. U
87-68-3	Hexachlorobutadiene	350. U	56-55-3	Benzo(a)Anthracene	350. U
59-50-7	4-Chloro-3-Methylphenol	350. U	117-81-7	bis(2-Ethylhexyl)Phthalate	350. BU
91-57-6	2-Methylnaphthalene	350. U	218-01-9	Chrysene	350. U
77-47-4	Hexachlorocyclopentadiene	350. U	117-84-0	Di-n-Octyl Phthalate	350. U
88-06-2	2,4,6-Trichlorophenol	350. U	205-99-2	Benzo(b)Fluoranthene	350. U
95-95-4	2,4,5-Trichlorophenol	1700. U	207-08-9	Benzo(k)Fluoranthene	350. U
91-58-7	2-Chloronaphthalene	350. U	50-32-8	Benzo(a)Pyrene	350. U
88-74-4	2-Nitroaniline	1700. U	193-39-5	Indeno(1,2,3-cd)Pyrene	350. U
131-11-3	Dimethyl Phthalate	350. U	53-70-3	Dibenz(a,h)Anthracene	350. U
208-96-8	Acenaphthylene	350. U	191-24-2	Benzo(g,h,i)Perylene	350. U
99-09-2	3-Nitroaniline	1700. U			

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC411

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V30

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/KG ~~UG/L~~ CLCY
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	37		31 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	99		43 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC411

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C30

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/KG YPH
108-21-4	Acetic Acid, 1-Methylethyl Ester	273	814	5300 J
625-06-9	2-Pentanol, 2,4-Dimethyl-	324	787	120000 J
2216-34-4	Octane, 4-Methyl-	338	905	1200 J
594-82-1	Butane, 2,2,3,3-Tetramethyl-	351	809	2000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	421		1300 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	508		390 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC412

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205231
Sample Matrix: SOIL
Data Release Authorized By: [illegible]

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/27/85
Date Analyzed: 12/27/85
Conc/Dil Factor: 1. pH 7.70
Percent Moisture: (Not Decanted) 21.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	13. U	78-87-5	1,2-Dichloropropane	6.3U
74-83-9	Bromomethane	13. U	10061-02-6	Trans-1,3-Dichloroproene	6.3U
75-01-4	Vinyl Chloride	13. U	79-01-6	Trichloroethene	6.3U
75-00-3	Chloroethane	13. U	124-48-1	Dibromochloromethane	6.3U
75-09-2	Methylene Chloride	16. B	79-00-5	1,1,2-Trichloroethane	6.3U
67-64-1	Acetone	13. U	71-43-2	Benzene	6.3U
75-15-0	Carbon Disulfide	6.3U	10061-01-5	cis-1,3-Dichloropropene	6.3U
75-35-4	1,1-Dichloroethene	6.3U	110-75-8	2-Chloroethylvinylether	13. U
75-34-3	1,1-Dichloroethane	6.3U	75-25-2	Bromoform	6.3U
156-60-5	Trans-1,2-Dichloroethene	6.3U	108-10-1	4-Methyl-2-Pentanone	13. U
67-66-3	Chloroform	6.3U	591-78-6	2-Hexanone	13. U
107-06-2	1,2-Dichloroethane	6.3U	127-18-4	Tetrachloroethene	6.3U
78-93-3	2-Butanone	13. U	79-34-5	1,1,2,2-Tetrachloroethane	6.3U
71-55-6	1,1,1-Trichloroethane	6.3U	108-88-3	Toluene	3.1BJ
56-23-5	Carbon Tetrachloride	6.3U	108-90-7	Chlorobenzene	6.3U
108-05-4	Vinyl Acetate	13. U	100-41-4	Ethylbenzene	6.3U
75-27-4	Bromodichloromethane	6.3U	100-42-5	Styrene	6.3BU
				Total Xylenes	6.3U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC412

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/13/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	420. U	83-32-9	Acenaphthene	420. U
111-44-4	bis(2-Chloroethyl)Ether	420. U	51-28-5	2,4-Dinitrophenol	2000. U
95-57-8	2-Chlorophenol	420. U	100-02-7	4-Nitrophenol	2000. U
541-73-1	1,3-Dichlorobenzene	420. U	132-64-9	Dibenzofuran	420. U
106-46-7	1,4-Dichlorobenzene	420. U	121-14-2	2,4-Dinitrotoluene	420. U
100-51-6	Benzyl Alcohol	420. U	606-20-2	2,6-Dinitrotoluene	420. U
95-50-1	1,2-Dichlorobenzene	420. U	84-66-2	Diethylphthalate	420. U
95-48-7	2-Methylphenol	420. U	7005-72-3	4-Chlorophenyl-phenylether	420. U
39638-32-9	bis(2-Chloroisopropyl)Ether	420. U	86-73-7	Fluorene	420. U
106-44-5	4-Methylphenol	420. U	100-10-6	4-Nitroaniline	2000. U
621-64-7	N-Nitroso-Di-n-Propylamine	420. U	534-52-1	4,6-Dinitro-2-Methylphenol	2000. U
67[illegible]2-1	Hexachloroethane	420. U	86-30-6	N-Nitrosodiphenylamine (1)	420. U
98-95-3	Nitrobenzene	420. U	101-55-3	4-Bromophenyl-phenylether	420. U
78-59-1	Isophorone	420. U	118-74-1	Hexachlorobenzene	420. U
88-75-5	2-Nitrophenol	420. U	87-86-5	Pentachlorophenol	2000. U
105-67-9	2,4-Dimethylphenol	420. U	85-01-8	Phenanthrene	420. U
65-85-0	Benzoic Acid	2000. U	120-12-7	Anthracene	420. U
111-91-1	bis(2-Chloroethoxy)Methane	420. U	84-74-2	Di-n-Butylphthalate	420. U
120-83-2	2,4-Dichlorophenol	420. U	206-44-0	Fluoranthene	420. U
120-82-1	1,2,4-Trichlorobenzene	420. U	129-00-0	Pyrene	420. U
91-20-3	Naphthalene	420. U	85-68-7	Butylbenzylphthalate	420. U
106-47-8	4-Chloroaniline	420. U	91-94-1	3,3'-Dichlorobenzidine	840. U
87-68-3	Hexachlorobutadiene	420. U	56-55-3	Benzo(a)Anthracene	420. U
59-50-7	4-Chloro-3-Methylphenol	420. U	117-81-7	bis(2-Ethylhexyl)Phthalate	~~882.~~6BJ
91-57-6	2-Methylnaphthalene	420. U	218-01-9	Chrysene	420. U
77-47-4	Hexachlorocyclopentadiene	420. U	117-84-0	Di-n-Octyl Phthalate	420. U
88-06-2	2,4,6-Trichlorophenol	420. U	205-99-2	Benzo(b)Fluoranthene	420. U
95-95-4	2,4,5-Trichlorophenol	2000. U	207-08-9	Benzo(k)Fluoranthene	420. U
91-58-7	2-Chloronaphthalene	420. U	50-32-8	Benzo(a)Pyrene	420. U
88-74-4	2-Nitroaniline	2000. U	193-39-5	Indeno(1,2,3-cd)Pyrene	420. U
131-11-3	Dimethyl Phthalate	420. U	53-70-3	Dibenz(a,h)Anthracene	420. U
208-96-8	Acenaphthylene	420. U	191-24-2	Benzo(g,h,i)Perylene	420. U
99-09-2	3-Nitroaniline	2000. U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC412

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V31

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				ug/kg ~~ug/~~L
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	38		42 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	100		59 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC412

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C31

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
108-21-4	Acetic Acid, 1-Methyl ethyl-Ester	273	809	3700 J
625-06-9	2-Pentanol, 2,4-Dimethyl-	323	803	89000 J
921-47-1	Hexane, 2,3,4-Trimethyl-	341	900	850 J
52896-87-4	Heptane, 4-(1-Methyl ethyl)-	353	896	1200 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	422		1000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	472		600 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	508		270 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1680		2600 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC413

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 8512052
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By:
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/27/85
Date Analyzed: 12/27/85
Conc/Dil Factor: 1. pH 7.10
Percent Moisture: (Not Decanted) 15.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	12. U	78-87-5	1,2-Dichloropropane	5.9U
74-83-9	Bromomethane	12. U	10061-02-6	Trans-1,3-Dichloroproene	5.9U
75-01-4	Vinyl Chloride	12. U	79-01-6	Trichloroethene	5.9U
75-00-3	Chloroethane	12. U	124-48-1	Dibromochloromethane	5.9U
75-09-2	Methylene Chloride	16. B	79-00-5	1,1,2-Trichloroethane	5.9U
67-64-1	Acetone	190.	71-43-2	Benzene	5.9U
75-15-0	Carbon Disulfide	5.9U	10061-01-5	cis-1,3-Dichloropropene	5.9U
75-35-4	1,1-Dichloroethene	5.9U	110-75-8	2-Chloroethylvinylether	12. U
75-[illegible]5-3	1,1-Dichloroethane	5.9U	75-25-2	Bromoform	5.9U
156-60-5	Trans-1,2-Dichloroethene	5.9U	108-10-1	4-Methyl-2-Pentanone	12. U
67-66-3	Chloroform	5.9U	591-78-6	2-Hexanone	12. U
107-06-2	1,2-Dichloroethane	5.9U	127-18-4	Tetrachloroethene	5.9U
78-93-3	2-Butanone	12. U	79-34-5	1,1,2,2-Tetrachloroethane	5.9U
71-55-6	1,1,1-Trichloroethane	5.9U	108-88-3	Toluene	3.0BJ
56-23-5	Carbon Tetrachloride	5.9U	108-90-7	Chlorobenzene	5.9U
108-05-4	Vinyl Acetate	12. U	100-41-4	Ethylbenzene	5.9U
75-27-4	Bromodichloromethane	5.9U	100-42-5	Styrene	5.9BU
				Total Xylenes	5.9U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC413

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/14/86
Dil Factor: 10.000
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	3900. U	83-32-9	Acenaphthene	3900. U
111-44-4	bis(2-Chloroethyl)Ether	3900. U	51-28-5	2,4-Dinitrophenol	19000.U
95-57-8	2-Chlorophenol	3900. U	100-02-7	4-Nitrophenol	19000.U
541-73-1	1,3-Dichlorobenzene	3900. U	132-64-9	Dibenzofuran	3900. U
106-46-7	1,4-Dichlorobenzene	3900. U	121-14-2	2,4-Dinitrotoluene	3900. U
100-51-6	Benzyl Alcohol	3900. U	606-20-2	2,6-Dinitrotoluene	3900. U
95-50-1	1,2-Dichlorobenzene	3900. U	84-66-2	Diethylphthalate	3900. U
95-48-7	2-Methylphenol	3900. U	7005-72-3	4-Chlorophenyl-phenylether	3900. U
39638-32-9	bis(2-Chloroisopropyl)Ether	3900. U	86-73-7	Fluorene	3900. U
106-44-5	4-Methylphenol	3900. U	100-10-6	4-Nitroaniline	19000.U
621-64-7	N-Nitroso-Di-n-Propylamine	3900. U	534-52-1	4,6-Dinitro-2-Methylphenol	19000.U
67[illegible]2-1	Hexachloroethane	3900. U	86-30-6	N-Nitrosodiphenylamine (1)	3900. U
98-95-3	Nitrobenzene	3900. U	101-55-3	4-Bromophenyl-phenylether	3900. U
78-59-1	Isophorone	3900. U	118-74-1	Hexachlorobenzene	3900. U
88-75-5	2-Nitrophenol	3900. U	87-86-5	Pentachlorophenol	19000.U
105-67-9	2,4-Dimethylphenol	3900. U	85-01-8	Phenanthrene	3900. U
65-85-0	Benzoic Acid	19000.U	120-12-7	Anthracene	3900. U
111-91-1	bis(2-Chloroethoxy)Methane	3900. U	84-74-2	Di-n-Butylphthalate	3900. U
120-83-2	2,4-Dichlorophenol	3900. U	206-44-0	Fluoranthene	3900. U
120-82-1	1,2,4-Trichlorobenzene	3900. U	129-00-0	Pyrene	3900. U
91-20-3	Naphthalene	3900. U	85-68-7	Butylbenzylphthalate	3900. U
106-47-8	4-Chloroaniline	3900. U	91-94-1	3,3'-Dichlorobenzidine	7800. U
87-68-3	Hexachlorobutadiene	3900. U	56-55-3	Benzo(a)Anthracene	3900. U
59-50-7	4-Chloro-3-Methylphenol	3900. U	117-81-7	bis(2-Ethylhexyl)Phthalate	3900. BU
91-57-6	2-Methylnaphthalene	3900. U	218-01-9	Chrysene	3900. U
77-47-4	Hexachlorocyclopentadiene	3900. U	117-84-0	Di-n-Octyl Phthalate	3900. U
88-06-2	2,4,6-Trichlorophenol	3900. U	205-99-2	Benzo(b)Fluoranthene	3900. U
95-95-4	2,4,5-Trichlorophenol	19000.U	207-08-9	Benzo(k)Fluoranthene	3900. U
91-58-7	2-Chloronaphthalene	3900. U	50-32-8	Benzo(a)Pyrene	3900. U
88-74-4	2-Nitroaniline	19000.U	193-39-5	Indeno(1,2,3-cd)Pyrene	3900. U
131-11-3	Dimethyl Phthalate	3900. U	53-70-3	Dibenz(a,h)Anthracene	3900. U
208-96-8	Acenaphthylene	3900. U	191-24-2	Benzo(g,h,i)Perylene	3900. U
99-09-2	3-Nitroaniline	19000.U			

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC413

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V32

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT ug/kg ~~ug/L~~	
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	35		50	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	96		61	J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	595		19	J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC413

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C32

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	332		36000 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC416

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205233
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/23/85
Date Analyzed: 12/23/85
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	2.3BJ	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
75-[illegible]5-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	5.0U	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	5.0U	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. U	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	5.0U	108-88-3	Toluene	3.6BJ
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	5.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC416

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/08/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ✓ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	10. U	83-32-9	Acenaphthene	10. U
111-44-4	bis(2-Chloroethyl)Ether	10. U	51-28-5	2,4-Dinitrophenol	50. U
95-57-8	2-Chlorophenol	10. U	100-02-7	4-Nitrophenol	50. U
541-73-1	1,3-Dichlorobenzene	10. U	132-64-9	Dibenzofuran	10. U
106-46-7	1,4-Dichlorobenzene	10. U	121-14-2	2,4-Dinitrotoluene	10. U
100-51-6	Benzyl Alcohol	10. U	606-20-2	2,6-Dinitrotoluene	10. U
95-50-1	1,2-Dichlorobenzene	10. U	84-66-2	Diethylphthalate	10. U
95-48-7	2-Methylphenol	10. U	7005-72-3	4-Chlorophenyl-phenylether	10. U
39638-32-9	bis(2-Chloroisopropyl)Ether	10. U	86-73-7	Fluorene	10. U
106-44-5	4-Methylphenol	10. U	100-10-6	4-Nitroaniline	50. U
621-64-7	N-Nitroso-Di-n-Propylamine	10. U	534-52-1	4,6-Dinitro-2-Methylphenol	50. U
67[illegible]2-1	Hexachloroethane	10. U	86-30-6	N-Nitrosodiphenylamine (1)	10. U
98-95-3	Nitrobenzene	10. U	101-55-3	4-Bromophenyl-phenylether	10. U
78-59-1	Isophorone	10. U	118-74-1	Hexachlorobenzene	10. U
88-75-5	2-Nitrophenol	10. U	87-86-5	Pentachlorophenol	50. U
105-67-9	2,4-Dimethylphenol	10. U	85-01-8	Phenanthrene	10. U
65-85-0	Benzoic Acid	50. U	120-12-7	Anthracene	10. U
111-91-1	bis(2-Chloroethoxy)Methane	10. U	84-74-2	Di-n-Butylphthalate	10. U
120-83-2	2,4-Dichlorophenol	10. U	206-44-0	Fluoranthene	10. U
120-82-1	1,2,4-Trichlorobenzene	10. U	129-00-0	Pyrene	10. U
91-20-3	Naphthalene	10. U	85-68-7	Butylbenzylphthalate	10. U
106-47-8	4-Chloroaniline	10. U	91-94-1	3,3'-Dichlorobenzidine	20. U
87-68-3	Hexachlorobutadiene	10. U	56-55-3	Benzo(a)Anthracene	10. U
59-50-7	4-Chloro-3-Methylphenol	10. U	117-81-7	bis(2-Ethylhexyl)Phthalate	10. BU
91-57-6	2-Methylnaphthalene	10. U	218-01-9	Chrysene	10. U
77-47-4	Hexachlorocyclopentadiene	10. U	117-84-0	Di-n-Octyl Phthalate	10. U
88-06-2	2,4,6-Trichlorophenol	10. U	205-99-2	Benzo(b)Fluoranthene	10. U
95-95-4	2,4,5-Trichlorophenol	50. U	207-08-9	Benzo(k)Fluoranthene	10. U
91-58-7	2-Chloronaphthalene	10. U	50-32-8	Benzo(a)Pyrene	10. U
88-74-4	2-Nitroaniline	50. U	193-39-5	Indeno(1,2,3-cd)Pyrene	10. U
131-11-3	Dimethyl Phthalate	10. U	53-70-3	Dibenz(a,h)Anthracene	10. U
208-96-8	Acenaphthylene	10. U	191-24-2	Benzo(g,h,i)Perylene	10. U
99-09-2	3-Nitroaniline	50. U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC416

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V33

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	37		33 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	96		21 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC416

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C33

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
110-12-3	2-Hexanone, 5-Methyl-	358	907	6 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC412MS

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205220
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/27/85
Date Analyzed: 12/27/85
Conc/Dil Factor: 1. pH 7.70
Percent Moisture: (Not Decanted) 21.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	13. U	78-87-5	1,2-Dichloropropane	6.3U
74-83-9	Bromomethane	13. U	10061-02-6	Trans-1,3-Dichloroproene	6.3U
75-01-4	Vinyl Chloride	13. U	79-01-6	Trichloroethene	6.3U
75-00-3	Chloroethane	13. U	124-48-1	Dibromochloromethane	6.3U
75-09-2	Methylene Chloride	27. B	79-00-5	1,1,2-Trichloroethane	6.3U
67-64-1	Acetone	13. U	71-43-2	Benzene	6.3U
75-15-0	Carbon Disulfide	6.3U	10061-01-5	cis-1,3-Dichloropropene	6.3U
75-35-4	1,1-Dichloroethene	6.3U	110-75-8	2-Chloroethylvinylether	13. U
75-35-3	1,1-Dichloroethane	6.3U	75-25-2	Bromoform	6.3U
156-60-5	Trans-1,2-Dichloroethene	6.3U	108-10-1	4-Methyl-2-Pentanone	13. U
67-66-3	Chloroform	6.3U	591-78-6	2-Hexanone	13. U
107-06-2	1,2-Dichloroethane	6.3U	127-18-4	Tetrachloroethene	6.3U
78-93-3	2-Butanone	13. U	79-34-5	1,1,2,2-Tetrachloroethane	6.3U
71-55-6	1,1,1-Trichloroethane	6.3U	108-88-3	Toluene	6.3BU
56-23-5	Carbon Tetrachloride	6.3U	108-90-7	Chlorobenzene	6.3U
108-05-4	Vinyl Acetate	13. U	100-41-4	Ethylbenzene	6.3U
75-27-4	Bromodichloromethane	6.3U	100-42-5	Styrene	6.3BU
				Total Xylenes	6.3U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC412MS

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/13/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	420.	U	83-32-9	Acenaphthene	420.	U
111-44-4	bis(2-Chloroethyl)Ether	420.	U	51-28-5	2,4-Dinitrophenol	2000.	U
95-57-8	2-Chlorophenol	420.	U	100-02-7	4-Nitrophenol	2000.	U
541-73-1	1,3-Dichlorobenzene	420.	U	132-64-9	Dibenzofuran	420.	U
106-46-7	1,4-Dichlorobenzene	420.	U	121-14-2	2,4-Dinitrotoluene	420.	U
100-51-6	Benzyl Alcohol	420.	U	606-20-2	2,6-Dinitrotoluene	420.	U
95-50-1	1,2-Dichlorobenzene	420.	U	84-66-2	Diethylphthalate	420.	U
95-48-7	2-Methylphenol	420.	U	7005-72-3	4-Chlorophenyl-phenylether	420.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	420.	U	86-73-7	Fluorene	420.	U
106-44-5	4-Methylphenol	420.	U	100-10-6	4-Nitroaniline	2000.	U
62[illegible]64-7	N-Nitroso-Di-n-Propylamine	420.	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000.	U
6[illegible]2-1	Hexachloroethane	420.	U	86-30-6	N-Nitrosodiphenylamine (1)	420.	U
98-95-3	Nitrobenzene	420.	U	101-55-3	4-Bromophenyl-phenylether	420.	U
78-59-1	Isophorone	420.	U	118-74-1	Hexachlorobenzene	420.	U
88-75-5	2-Nitrophenol	420.	U	87-86-5	Pentachlorophenol	2000.	U
105-67-9	2,4-Dimethylphenol	420.	U	85-01-8	Phenanthrene	420.	U
65-85-0	Benzoic Acid	2000.	U	120-12-7	Anthracene	420.	U
111-91-1	bis(2-Chloroethoxy)Methane	420.	U	84-74-2	Di-n-Butylphthalate	420.	U
120-83-2	2,4-Dichlorophenol	420.	U	206-44-0	Fluoranthene	420.	U
120-82-1	1,2,4-Trichlorobenzene	420.	U	129-00-0	Pyrene	420.	U
91-20-3	Naphthalene	420.	U	85-68-7	Butylbenzylphthalate	420.	U
106-47-8	4-Chloroaniline	420.	U	91-94-1	3,3'-Dichlorobenzidine	840.	U
87-68-3	Hexachlorobutadiene	420.	U	56-55-3	Benzo(a)Anthracene	420.	U
59-50-7	4-Chloro-3-Methylphenol	420.	U	117-81-7	bis(2-Ethylhexyl)Phthalate	420.	BU
91-57-6	2-Methylnaphthalene	420.	U	218-01-9	Chrysene	420.	U
77-47-4	Hexachlorocyclopentadiene	420.	U	117-84-0	Di-n-Octyl Phthalate	420.	U
88-06-2	2,4,6-Trichlorophenol	420.	U	205-99-2	Benzo(b)Fluoranthene	420.	U
95-95-4	2,4,5-Trichlorophenol	2000.	U	207-08-9	Benzo(k)Fluoranthene	420.	U
91-58-7	2-Chloronaphthalene	420.	U	50-32-8	Benzo(a)Pyrene	420.	U
88-74-4	2-Nitroaniline	2000.	U	193-39-5	Indeno(1,2,3-cd)Pyrene	420.	U
131-11-3	Dimethyl Phthalate	420.	U	53-70-3	Dibenz(a,h)Anthracene	420.	U
208-96-8	Acenaphthylene	420.	U	191-24-2	Benzo(g,h,i)Perylene	420.	U
99-09-2	3-Nitroaniline	2000.	U				

(1) - Cannot be separated from diphenylamine

Form I

SPECTRIX D.C. # 5314-06-8

Sample Number
FC412MSD

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 8512052V21
Sample Matrix: SOIL
Data Release Authorized By: [illegible]

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/20/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/27/85
Date Analyzed: 12/27/85
Conc/Dil Factor: 1. pH 7.70
Percent Moisture: (Not Decanted) 21.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	13. U	78-87-5	1,2-Dichloropropane	6.3U
74-83-9	Bromomethane	13. U	10061-02-6	Trans-1,3-Dichloroproene	6.3U
75-01-4	Vinyl Chloride	13. U	79-01-6	Trichloroethene	6.3U
75-00-3	Chloroethane	13. U	124-48-1	Dibromochloromethane	6.3U
75-09-2	Methylene Chloride	34. B	79-00-5	1,1,2-Trichloroethane	6.3U
67-64-1	Acetone	13. U	71-43-2	Benzene	6.3U
75-15-0	Carbon Disulfide	6.3U	10061-01-5	cis-1,3-Dichloropropene	6.3U
75-35-4	1,1-Dichloroethene	6.3U	110-75-8	2-Chloroethylvinylether	13. U
75-35-3	1,1-Dichloroethane	6.3U	75-25-2	Bromoform	6.3U
156-60-5	Trans-1,2-Dichloroethene	6.3U	108-10-1	4-Methyl-2-Pentanone	13. U
67-66-3	Chloroform	6.3U	591-78-6	2-Hexanone	13. U
107-06-2	1,2-Dichloroethane	6.3U	127-18-4	Tetrachloroethene	6.3U
78-93-3	2-Butanone	13. U	79-34-5	1,1,2,2-Tetrachloroethane	6.3U
71-55-6	1,1,1-Trichloroethane	6.3U	108-88-3	Toluene	6.3BU
56-23-5	Carbon Tetrachloride	6.3U	108-90-7	Chlorobenzene	6.3U
108-05-4	Vinyl Acetate	13. U	100-41-4	Ethylbenzene	6.3U
75-27-4	Bromodichloromethane	6.3U	100-42-5	Styrene	6.3BU
				Total Xylenes	6.3U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED
Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC412MSD

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/20/85
Date Analyzed: 01/13/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	420.	U	83-32-9	Acenaphthene	420.	U
111-44-4	bis(2-Chloroethyl)Ether	420.	U	51-28-5	2,4-Dinitrophenol	2000.	U
95-57-8	2-Chlorophenol	420.	U	100-02-7	4-Nitrophenol	2000.	U
541-73-1	1,3-Dichlorobenzene	420.	U	132-64-9	Dibenzofuran	420.	U
106-46-7	1,4-Dichlorobenzene	420.	U	121-14-2	2,4-Dinitrotoluene	420.	U
100-51-6	Benzyl Alcohol	420.	U	606-20-2	2,6-Dinitrotoluene	420.	U
95-50-1	1,2-Dichlorobenzene	420.	U	84-66-2	Diethylphthalate	420.	U
95-48-7	2-Methylphenol	420.	U	7005-72-3	4-Chlorophenyl-phenylether	420.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	420.	U	86-73-7	Fluorene	420.	U
106-44-5	4-Methylphenol	420.	U	100-10-6	4-Nitroaniline	2000.	U
621-64-7	N-Nitroso-Di-n-Propylamine	420.	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000.	U
67[illegible]2-1	Hexachloroethane	420.	U	86-30-6	N-Nitrosodiphenylamine (1)	420.	U
98-95-3	Nitrobenzene	420.	U	101-55-3	4-Bromophenyl-phenylether	420.	U
78-59-1	Isophorone	420.	U	118-74-1	Hexachlorobenzene	420.	U
88-75-5	2-Nitrophenol	420.	U	87-86-5	Pentachlorophenol	2000.	U
105-67-9	2,4-Dimethylphenol	420.	U	85-01-8	Phenanthrene	420.	U
65-85-0	Benzoic Acid	2000.	U	120-12-7	Anthracene	420.	U
111-91-1	bis(2-Chloroethoxy)Methane	420.	U	84-74-2	Di-n-Butylphthalate	420.	U
120-83-2	2,4-Dichlorophenol	420.	U	206-44-0	Fluoranthene	420.	U
120-82-1	1,2,4-Trichlorobenzene	420.	U	129-00-0	Pyrene	420.	U
91-20-3	Naphthalene	420.	U	85-68-7	Butylbenzylphthalate	420.	U
106-47-8	4-Chloroaniline	420.	U	91-94-1	3,3'-Dichlorobenzidine	840.	U
87-68-3	Hexachlorobutadiene	420.	U	56-55-3	Benzo(a)Anthracene	420.	U
59-50-7	4-Chloro-3-Methylphenol	420.	U	117-81-7	bis(2-Ethylhexyl)Phthalate	420.	BU
91-57-6	2-Methylnaphthalene	420.	U	218-01-9	Chrysene	420.	U
77-47-4	Hexachlorocyclopentadiene	420.	U	117-84-0	Di-n-Octyl Phthalate	420.	U
88-06-2	2,4,6-Trichlorophenol	420.	U	205-99-2	Benzo(b)Fluoranthene	420.	U
95-95-4	2,4,5-Trichlorophenol	2000.	U	207-08-9	Benzo(k)Fluoranthene	420.	U
91-58-7	2-Chloronaphthalene	420.	U	50-32-8	Benzo(a)Pyrene	420.	U
88-74-4	2-Nitroaniline	2000.	U	193-39-5	Indeno(1,2,3-cd)Pyrene	420.	U
131-11-3	Dimethyl Phthalate	420.	U	53-70-3	Dibenz(a,h)Anthracene	420.	U
208-96-8	Acenaphthylene	420.	U	191-24-2	Benzo(g,h,i)Perylene	420.	U
99-09-2	3-Nitroaniline	2000.	U				

(1) - Cannot be separated from diphenylamine

Form I

SPECTRIX D.C. # 5314-06-8

Sample Number
FB747

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205210
Sample Matrix: WATER
Data Release Authorized By: 110

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/22/85
Date Analyzed: 12/22/85
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	4.6BJ	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
75-[illegible]5-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	3.3J	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	5.0U	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. BU	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	5.0U	108-88-3	Toluene	2.0BJ
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	5.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
DKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB747

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/08/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes ✓
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	10. U	83-32-9	Acenaphthene	10. U
111-44-4	bis(2-Chloroethyl)Ether	10. U	51-28-5	2,4-Dinitrophenol	50. U
95-57-8	2-Chlorophenol	10. U	100-02-7	4-Nitrophenol	50. U
541-73-1	1,3-Dichlorobenzene	10. U	132-64-9	Dibenzofuran	10. U
106-46-7	1,4-Dichlorobenzene	10. U	121-14-2	2,4-Dinitrotoluene	10. U
100-51-6	Benzyl Alcohol	10. U	606-20-2	2,6-Dinitrotoluene	10. U
95-50-1	1,2-Dichlorobenzene	10. U	84-66-2	Diethylphthalate	10. U
95-48-7	2-Methylphenol	10. U	7005-72-3	4-Chlorophenyl-phenylether	10. U
39638-32-9	bis(2-Chloroisopropyl)Ether	10. U	86-73-7	Fluorene	10. U
106-44-5	4-Methylphenol	10. U	100-10-6	4-Nitroaniline	50. U
621-64-7	N-Nitroso-Di-n-Propylamine	10. U	534-52-1	4,6-Dinitro-2-Methylphenol	50. U
67[illegible]2-1	Hexachloroethane	10. U	86-30-6	N-Nitrosodiphenylamine (1)	10. U
98-95-3	Nitrobenzene	10. U	101-55-3	4-Bromophenyl-phenylether	10. U
78-59-1	Isophorone	10. U	118-74-1	Hexachlorobenzene	10. U
88-75-5	2-Nitrophenol	10. U	87-86-5	Pentachlorophenol	50. U
105-67-9	2,4-Dimethylphenol	10. U	85-01-8	Phenanthrene	10. U
65-85-0	Benzoic Acid	50. U	120-12-7	Anthracene	10. U
111-91-1	bis(2-Chloroethoxy)Methane	10. U	84-74-2	Di-n-Butylphthalate	10. U
120-83-2	2,4-Dichlorophenol	10. U	206-44-0	Fluoranthene	10. U
120-82-1	1,2,4-Trichlorobenzene	10. U	129-00-0	Pyrene	10. U
91-20-3	Naphthalene	10. U	85-68-7	Butylbenzylphthalate	10. U
106-47-8	4-Chloroaniline	10. U	91-94-1	3,3'-Dichlorobenzidine	20. U
87-68-3	Hexachlorobutadiene	10. U	56-55-3	Benzo(a)Anthracene	10. U
59-50-7	4-Chloro-3-Methylphenol	10. U	117-81-7	bis(2-Ethylhexyl)Phthalate	10. U
91-57-6	2-Methylnaphthalene	10. U	218-01-9	Chrysene	10. U
77-47-4	Hexachlorocyclopentadiene	10. U	117-84-0	Di-n-Octyl Phthalate	10. U
88-06-2	2,4,6-Trichlorophenol	10. U	205-99-2	Benzo(b)Fluoranthene	10. U
95-95-4	2,4,5-Trichlorophenol	50. U	207-08-9	Benzo(k)Fluoranthene	10. U
91-58-7	2-Chloronaphthalene	10. U	50-32-8	Benzo(a)Pyrene	10. U
88-74-4	2-Nitroaniline	50. U	193-39-5	Indeno(1,2,3-cd)Pyrene	10. U
131-11-3	Dimethyl Phthalate	10. U	53-70-3	Dibenz(a,h)Anthracene	10. U
208-96-8	Acenaphthylene	10. U	191-24-2	Benzo(g,h,i)Perylene	10. U
99-09-2	3-Nitroaniline	50. U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FB747

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V10

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/L
2919-23-5	Cyclobutanol	96	833	8 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FB747

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C10

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
7094-26-0	Cyclohexane, 1,1,2-Trimethyl	270	848	6 J
110-12-3	2-Hexanone, 5-Methyl	314	896	10 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	450		7 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2040		18 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2068		25 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2137		21 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FB793

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 8512052V11A
Sample Matrix: WATER
Data Release Authorized By: 110

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/22/85
Date Analyzed: 12/22/85
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	3.5BJ	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
75-34-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	5.0U	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	5.0U	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. BU	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	5.0U	108-88-3	Toluene	2.0BJ
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	5.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Form I Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB793

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/08/86
Dil Factor: 5.000
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ✓ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	50. U	83-32-9	Acenaphthene	50. U
111-44-4	bis(2-Chloroethyl)Ether	50. U	51-28-5	2,4-Dinitrophenol	250. U
95-57-8	2-Chlorophenol	50. U	100-02-7	4-Nitrophenol	250. U
541-73-1	1,3-Dichlorobenzene	50. U	132-64-9	Dibenzofuran	50. U
106-46-7	1,4-Dichlorobenzene	50. U	121-14-2	2,4-Dinitrotoluene	50. U
100-51-6	Benzyl Alcohol	50. U	606-20-2	2,6-Dinitrotoluene	50. U
95-50-1	1,2-Dichlorobenzene	50. U	84-66-2	Diethylphthalate	50. U
95-48-7	2-Methylphenol	50. U	7005-72-3	4-Chlorophenyl-phenylether	50. U
39638-32-9	bis(2-Chloroisopropyl)Ether	50. U	86-73-7	Fluorene	50. U
106-44-5	4-Methylphenol	50. U	100-10-6	4-Nitroaniline	250. U
621-64-7	N-Nitroso-Di-n-Propylamine	50. U	534-52-1	4,6-Dinitro-2-Methylphenol	250. U
67[illegible]2-1	Hexachloroethane	50. U	86-30-6	N-Nitrosodiphenylamine (1)	~~74~~.37 NOT
98-95-3	Nitrobenzene	50. U	101-55-3	4-Bromophenyl-phenylether	50. U
78-59-1	Isophorone	50. U	118-74-1	Hexachlorobenzene	50. U
88-75-5	2-Nitrophenol	50. U	87-86-5	Pentachlorophenol	250. U
105-67-9	2,4-Dimethylphenol	50. U	85-01-8	Phenanthrene	~~53~~. 26 NOT
65-85-0	Benzoic Acid	250. U	120-12-7	Anthracene	50. U
111-91-1	bis(2-Chloroethoxy)Methane	50. U	84-74-2	Di-n-Butylphthalate	50. U
120-83-2	2,4-Dichlorophenol	50. U	206-44-0	Fluoranthene	50. U
120-82-1	1,2,4-Trichlorobenzene	50. U	129-00-0	Pyrene	~~60~~. 30 NOT
91-20-3	Naphthalene	50. U	85-68-7	Butylbenzylphthalate	50. U
106-47-8	4-Chloroaniline	50. U	91-94-1	3,3'-Dichlorobenzidine	100. U
87-68-3	Hexachlorobutadiene	50. U	56-55-3	Benzo(a)Anthracene	50. U
59-50-7	4-Chloro-3-Methylphenol	50. U	117-81-7	bis(2-Ethylhexyl)Phthalate	50. U
91-57-6	2-Methylnaphthalene	11 ~~22~~. J NOT	218-01-9	Chrysene	50. U
77-47-4	Hexachlorocyclopentadiene	50. U	117-84-0	Di-n-Octyl Phthalate	50. U
88-06-2	2,4,6-Trichlorophenol	50. U	205-99-2	Benzo(b)Fluoranthene	50. U
95-95-4	2,4,5-Trichlorophenol	250. U	207-08-9	Benzo(k)Fluoranthene	50. U
91-58-7	2-Chloronaphthalene	50. U	50-32-8	Benzo(a)Pyrene	50. U
88-74-4	2-Nitroaniline	250. U	193-39-5	Indeno(1,2,3-cd)Pyrene	50. U
131-11-3	Dimethyl Phthalate	50. U	53-70-3	Dibenz(a,h)Anthracene	50. U
208-96-8	Acenaphthylene	50. U	191-24-2	Benzo(g,h,i)Perylene	50. U
99-09-2	3-Nitroaniline	250. U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FB793

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V11A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/L
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	91		7 J
2919-23-5	Cyclobutanol	103	855	11 J
15045-43-9	Furan, Tetrahydro-2,2,5,5-Tetramethyl-	433	894	7 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	503		10 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FB793

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C11

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
15980-15-1	1,4 - Oxathiane	361	953	79 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	572		33 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	870		30 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	964		270 J
581-40-8	Naphthalene, 2,3- Dimethyl	989	769	41 J
581-40-8	Naphthalene, 2,3- Dimethyl	1006	791	42 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1025		180 J
31081-17-1	Nonane, 2 - Methyl - 5 - Propyl	1037	797	41 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1078		66 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1115		63 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1193		120 J
1921-70-6	Pentadecane, 2,6,10,14-Tetramethyl-	1237	750	130 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FB794

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205212
Sample Matrix: WATER
Data Release Authorized By: 110

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/22/85
Date Analyzed: 12/22/85
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	4.3BJ	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
7[illegible]5-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	5.0U	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	5.0U	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. BU	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	5.0U	108-88-3	Toluene	2.1BJ
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	5.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED
San Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB794

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/08/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	10. U	83-32-9	Acenaphthene	10. U
111-44-4	bis(2-Chloroethyl)Ether	15.	51-28-5	2,4-Dinitrophenol	50. U
95-57-8	2-Chlorophenol	10. U	100-02-7	4-Nitrophenol	50. U
541-73-1	1,3-Dichlorobenzene	10. U	132-64-9	Dibenzofuran	10. U
106-46-7	1,4-Dichlorobenzene	10. U	121-14-2	2,4-Dinitrotoluene	10. U
100-51-6	Benzyl Alcohol	10. U	606-20-2	2,6-Dinitrotoluene	10. U
95-50-1	1,2-Dichlorobenzene	10. U	84-66-2	Diethylphthalate	10. U
95-48-7	2-Methylphenol	10. U	7005-72-3	4-Chlorophenyl-phenylether	10. U
39638-32-9	bis(2-Chloroisopropyl)Ether	10. U	86-73-7	Fluorene	10. U
106-44-5	4-Methylphenol	10. U	100-10-6	4-Nitroaniline	50. U
621-64-7	N-Nitroso-Di-n-Propylamine	10. U	534-52-1	4,6-Dinitro-2-Methylphenol	50. U
67[illegible]2-1	Hexachloroethane	10. U	86-30-6	N-Nitrosodiphenylamine (1)	10. U
98-95-3	Nitrobenzene	10. U	101-55-3	4-Bromophenyl-phenylether	10. U
78-59-1	Isophorone	10. U	118-74-1	Hexachlorobenzene	10. U
88-75-5	2-Nitrophenol	10. U	87-86-5	Pentachlorophenol	50. U
105-67-9	2,4-Dimethylphenol	10. U	85-01-8	Phenanthrene	10. U
65-85-0	Benzoic Acid	50. U	120-12-7	Anthracene	10. U
111-91-1	bis(2-Chloroethoxy)Methane	10. U	84-74-2	Di-n-Butylphthalate	10. U
120-83-2	2,4-Dichlorophenol	10. U	206-44-0	Fluoranthene	10. U
120-82-1	1,2,4-Trichlorobenzene	10. U	129-00-0	Pyrene	10. U
91-20-3	Naphthalene	10. U	85-68-7	Butylbenzylphthalate	10. U
106-47-8	4-Chloroaniline	10. U	91-94-1	3,3'-Dichlorobenzidine	20. U
87-68-3	Hexachlorobutadiene	10. U	56-55-3	Benzo(a)Anthracene	10. U
59-50-7	4-Chloro-3-Methylphenol	10. U	117-81-7	bis(2-Ethylhexyl)Phthalate	10. U
91-57-6	2-Methylnaphthalene	10. U	218-01-9	Chrysene	10. U
77-47-4	Hexachlorocyclopentadiene	10. U	117-84-0	Di-n-Octyl Phthalate	10. U
88-06-2	2,4,6-Trichlorophenol	10. U	205-99-2	Benzo(b)Fluoranthene	10. U
95-95-4	2,4,5-Trichlorophenol	50. U	207-08-9	Benzo(k)Fluoranthene	10. U
91-58-7	2-Chloronaphthalene	10. U	50-32-8	Benzo(a)Pyrene	10. U
88-74-4	2-Nitroaniline	50. U	193-39-5	Indeno(1,2,3-cd)Pyrene	10. U
131-11-3	Dimethyl Phthalate	10. U	53-70-3	Dibenz(a,h)Anthracene	10. U
208-96-8	Acenaphthylene	10. U	191-24-2	Benzo(g,h,i)Perylene	10. U
99-09-2	3-Nitroaniline	50. U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FB794

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V12

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
75-31-0	2-Propanamine	95	905	9 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- B

SAMPLE: FB794

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C12

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	253		5 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	328		5 J
110-12-3	2-HEXANONE, 5-METHYL-	354	929	13 J
24070-77-7	CYCLOPENTANOL, 2-METHYL-	391	894	35 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	667		9 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2059		45 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2067		11 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2075		83 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FB799

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205213
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By: 110
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/28/85
Date Analyzed: 12/28/85
Dil Factor: 2.500 pH 6.70
Percent Moisture: (Not Decanted) 36.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3900. U	78-87-5	1,2-Dichloropropane	2000. U
74-83-9	Bromomethane	3900. U	10061-02-6	Trans-1,3-Dichloropropene	2000. U
75-01-4	Vinyl Chloride	3900. U	79-01-6	Trichloroethene	2000. U
75-00-3	Chloroethane	3900. U	124-48-1	Dibromochloromethane	2000. U
75-09-2	Methylene Chloride	2600 B	79-00-5	1,1,2-Trichloroethane	2000. U
67-64-1	Acetone	3900. U	71-43-2	Benzene	680 J
75-15-0	Carbon Disulfide	2000. U	10061-01-5	cis-1,3-Dichloropropene	2000. U
75-35-4	1,1-Dichloroethene	2000. U	110-75-8	2-Chloroethylvinylether	3900. U
75-34-3	1,1-Dichloroethane	2000. U	75-25-2	Bromoform	2000. U
156-60-5	Trans-1,2-Dichloroethene	2000. U	108-10-1	4-Methyl-2-Pentanone	3900. U
67-66-3	Chloroform	2000. U	591-78-6	2-Hexanone	3900. U
107-06-2	1,2-Dichloroethane	2000. U	127-18-4	Tetrachloroethene	2000. U
78-93-3	2-Butanone	3900. U	79-34-5	1,1,2,2-Tetrachloroethane	2000. U
71-55-6	1,1,1-Trichloroethane	2000. U	108-88-3	Toluene	2000. BU
56-23-5	Carbon Tetrachloride	2000. U	108-90-7	Chlorobenzene	2000. U
108-05-4	Vinyl Acetate	3900. U	100-41-4	Ethylbenzene	2100
75-27-4	Bromodichloromethane	2000. U	100-42-5	Styrene	2000. U
				Total Xylenes	41000.

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Form I

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB799

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/14/86
Dil Factor: 2.500
Percent Moisture: (Decanted) ____

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	77000.U	83-32-9	Acenaphthene	77000.U
111-44-4	bis(2-Chloroethyl)Ether	77000.U	51-28-5	2,4-Dinitrophenol	380000U
95-57-8	2-Chlorophenol	77000.U	100-02-7	4-Nitrophenol	380000U
541-73-1	1,3-Dichlorobenzene	77000.U	132-64-9	Dibenzofuran	77000.U
106-46-7	1,4-Dichlorobenzene	77000.U	121-14-2	2,4-Dinitrotoluene	77000.U
100-51-6	Benzyl Alcohol	77000.U	606-20-2	2,6-Dinitrotoluene	77000.U
95-50-1	1,2-Dichlorobenzene	77000.U	84-66-2	Diethylphthalate	77000.U
95-48-7	2-Methylphenol	77000.U	7005-72-3	4-Chlorophenyl-phenylether	77000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	77000.U	86-73-7	Fluorene	77000.U
106-44-5	4-Methylphenol	77000.U	100-10-6	4-Nitroaniline	380000U
621-64-7	N-Nitroso-Di-n-Propylamine	77000.U	534-52-1	4,6-Dinitro-2-Methylphenol	380000U
67[illegible]2-1	Hexachloroethane	77000.U	86-30-6	N-Nitrosodiphenylamine (1)	77000.U
98-95-3	Nitrobenzene	77000.U	101-55-3	4-Bromophenyl-phenylether	77000.U
78-59-1	Isophorone	77000.U	118-74-1	Hexachlorobenzene	77000.U
88-75-5	2-Nitrophenol	77000.U	87-86-5	Pentachlorophenol	380000U
105-67-9	2,4-Dimethylphenol	77000.U	85-01-8	Phenanthrene	77000.U
65-85-0	Benzoic Acid	380000U	120-12-7	Anthracene	77000.U
111-91-1	bis(2-Chloroethoxy)Methane	77000.U	84-74-2	Di-n-Butylphthalate	77000.U
120-83-2	2,4-Dichlorophenol	77000.U	206-44-0	Fluoranthene	77000.U
120-82-1	1,2,4-Trichlorobenzene	77000.U	129-00-0	Pyrene	77000.U
91-20-3	Naphthalene	77000.U	85-68-7	Butylbenzylphthalate	77000.U
106-47-8	4-Chloroaniline	77000.U	91-94-1	3,3'-Dichlorobenzidine	150000U
87-68-3	Hexachlorobutadiene	77000.U	56-55-3	Benzo(a)Anthracene	77000.U
59-50-7	4-Chloro-3-Methylphenol	77000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	77000.U
91-57-6	2-Methylnaphthalene	77000.U	218-01-9	Chrysene	77000.U
77-47-4	Hexachlorocyclopentadiene	77000.U	117-84-0	Di-n-Octyl Phthalate	77000.U
88-06-2	2,4,6-Trichlorophenol	77000.U	205-99-2	Benzo(b)Fluoranthene	77000.U
95-95-4	2,4,5-Trichlorophenol	380000U	207-08-9	Benzo(k)Fluoranthene	77000.U
91-58-7	2-Chloronaphthalene	77000.U	50-32-8	Benzo(a)Pyrene	77000.BU
88-74-4	2-Nitroaniline	380000U	193-39-5	Indeno(1,2,3-cd)Pyrene	77000.U
131-11-3	Dimethyl Phthalate	77000.U	53-70-3	Dibenz(a,h)Anthracene	77000.U
208-96-8	Acenaphthylene	77000.U	191-24-2	Benzo(g,h,i)Perylene	77000.U
99-09-2	3-Nitroaniline	380000U			

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FB799

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V13

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT TW KG UG/L
108-87-2	Cyclohexane, Methyl-	379	910	260000 J
1640-89-7	Cyclopentane, Ethyl-	391	912	66000 J
4516-69-2	Cyclopentane, 1,1,3-Trimethyl	419	871	99000 J
18[illegible]50-73-2	1 Heptanol, 2,4- Dimethyl-, (R,R)-(+)-	466	801	56000 J
638-04-0	Cyclohexane, 1,3-Dimethyl-, cis-	485	906	130000 J
3073-66-3	Cyclohexane, 1,1,3-Trimethyl	505	911	160000 J
16747-28-7	Hexane, 2,3,3-Trimethyl-	514	762	130000 J
1653-40-3	1, Heptanol, 6- Methyl-	523	787	110000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	571		150000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	590		140000 J

J = Estimated value - A 1:1 Response Factor is assumed

SAMPLE: FB799

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C13

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT YPH UG/KG
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	276		120000 J
53366-38-4	CYCLOPENTANE, (2-METHYLBUTYL)-	282	851	200000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	334		64000 J
52896-87-4	HEPTANE, (4-(1-METHYLETHYL)—	345	829	100000 J
3728-57-2	CYCLOPENTANE, 1-METHYL-2-PROPYL—	367	858	96000 J
589-43-5	HEXANE, 2,4-DIMETHYL-	392	826	120000 J
1678-92-8	CYCLOHEXANE, PROPYL—	435	910	71000 J
7146-60-3	OCTANE, 2,3-DIMETHYL—	455	879	83000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	520		120000 J
62108-23-0	DECANE, 2,5,6-TRIMETHYL-	542	874	71000 J
		~~YPH 751~~		~~YPH 170000 J~~
62016-37-9	OCTANE, 2,4,6-TRIMETHYL-	1069	856	99000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1823		190000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1924		140000 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FB800

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No:
Sample Matrix: SOIL
Data Release Authorized By: TAO

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/23/85
Date Analyzed: 12/23/85
Conc/Dil Factor: 1. pH 7.20
Percent Moisture: (Not Decanted) 20.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	13. U	78-87-5	1,2-Dichloropropane	6.3U
74-83-9	Bromomethane	13. U	10061-02-6	Trans-1,3-Dichloroproene	6.3U
75-01-4	Vinyl Chloride	13. U	79-01-6	Trichloroethene	6.3U
75-00-3	Chloroethane	13. U	124-48-1	Dibromochloromethane	6.3U
75-09-2	Methylene Chloride	19. B	79-00-5	1,1,2-Trichloroethane	6.3U
67-64-1	Acetone	13. U	71-43-2	Benzene	6.3U
75-15-0	Carbon Disulfide	6.3U	10061-01-5	cis-1,3-Dichloropropene	6.3U
75-35-4	1,1-Dichloroethene	6.3U	110-75-8	2-Chloroethylvinylether	13. U
75-[illegible]5-3	1,1-Dichloroethane	6.3U	75-25-2	Bromoform	6.3U
156-60-5	Trans-1,2-Dichloroethene	6.3U	108-10-1	4-Methyl-2-Pentanone	13. U
67-66-3	Chloroform	6.3U	591-78-6	2-Hexanone	13. U
107-06-2	1,2-Dichloroethane	6.3U	127-18-4	Tetrachloroethene	6.3U
78-93-3	2-Butanone	13. U	79-34-5	1,1,2,2-Tetrachloroethane	6.3U
71-55-6	1,1,1-Trichloroethane	6.3U	108-88-3	Toluene	2.8BJ
56-23-5	Carbon Tetrachloride	6.3U	108-90-7	Chlorobenzene	6.3U
108-05-4	Vinyl Acetate	13. U	100-41-4	Ethylbenzene	6.3U
75-27-4	Bromodichloromethane	6.3U	100-42-5	Styrene	6.3U
				Total Xylenes	6.3U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB800

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/09/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	410.	U	83-32-9	Acenaphthene	410.	U
111-44-4	bis(2-Chloroethyl)Ether	410.	U	51-28-5	2,4-Dinitrophenol	2000.	U
95-57-8	2-Chlorophenol	410.	U	100-02-7	4-Nitrophenol	2000.	U
541-73-1	1,3-Dichlorobenzene	410.	U	132-64-9	Dibenzofuran	410.	U
106-46-7	1,4-Dichlorobenzene	410.	U	121-14-2	2,4-Dinitrotoluene	410.	U
100-51-6	Benzyl Alcohol	410.	U	606-20-2	2,6-Dinitrotoluene	410.	U
95-50-1	1,2-Dichlorobenzene	410.	U	84-66-2	Diethylphthalate	410.	U
95-48-7	2-Methylphenol	410.	U	7005-72-3	4-Chlorophenyl-phenylether	410.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	410.	U	86-73-7	Fluorene	410.	U
106-44-5	4-Methylphenol	410.	U	100-10-6	4-Nitroaniline	2000.	U
621-64-7	N-Nitroso-Di-n-Propylamine	410.	U	534-52-1	4,6-Dinitro-2-Methylphenol	2000.	U
67[illegible]2-1	Hexachloroethane	410.	U	86-30-6	N-Nitrosodiphenylamine (1)	410.	U
98-95-3	Nitrobenzene	410.	U	101-55-3	4-Bromophenyl-phenylether	410.	U
78-59-1	Isophorone	410.	U	118-74-1	Hexachlorobenzene	410.	U
88-75-5	2-Nitrophenol	410.	U	87-86-5	Pentachlorophenol	2000.	U
105-67-9	2,4-Dimethylphenol	410.	U	85-01-8	Phenanthrene	410.	U
65-85-0	Benzoic Acid	2000.	U	120-12-7	Anthracene	410.	U
111-91-1	bis(2-Chloroethoxy)Methane	410.	U	84-74-2	Di-n-Butylphthalate	410.	U
120-83-2	2,4-Dichlorophenol	410.	U	206-44-0	Fluoranthene	410.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U	129-00-0	Pyrene	410.	U
91-20-3	Naphthalene	410.	U	85-68-7	Butylbenzylphthalate	410.	U
106-47-8	4-Chloroaniline	410.	U	91-94-1	3,3'-Dichlorobenzidine	830.	U
87-68-3	Hexachlorobutadiene	410.	U	56-55-3	Benzo(a)Anthracene	410.	U
59-50-7	4-Chloro-3-Methylphenol	410.	U	117-81-7	bis(2-Ethylhexyl)Phthalate	410.	U
91-57-6	2-Methylnaphthalene	410.	U	218-01-9	Chrysene	410.	U
77-47-4	Hexachlorocyclopentadiene	410.	U	117-84-0	Di-n-Octyl Phthalate	410.	U
88-06-2	2,4,6-Trichlorophenol	410.	U	205-99-2	Benzo(b)Fluoranthene	410.	U
95-95-4	2,4,5-Trichlorophenol	2000.	U	207-08-9	Benzo(k)Fluoranthene	410.	U
91-58-7	2-Chloronaphthalene	410.	U	50-32-8	Benzo(a)Pyrene	410.	U
88-74-4	2-Nitroaniline	2000.	U	193-39-5	Indeno(1,2,3-cd)Pyrene	410.	U
131-11-3	Dimethyl Phthalate	410.	U	53-70-3	Dibenz(a,h)Anthracene	410.	U
208-96-8	Acenaphthylene	410.	U	191-24-2	Benzo(g,h,i)Perylene	410.	U
99-09-2	3-Nitroaniline	2000.	U				

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FB800

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V14

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				CKT UG/KG ~~UG/L~~
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	38		31 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	579		25 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	587		21 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530

Spectrix DC # 5314-6- B

SAMPLE: FB800

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation

CASE NO.: 5314

QC REPORT NO.: 157

ANALYST: YPH

DATAFILE: EU12052C14

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT UG/KG
108-21-4	Acetic Acid, 1-Methyl ethyl Ester	261	800	1900 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	309		42000 J
3074-71-3	Heptane, 2,3-Dimethyl-	317	935	550 J
[illegible]6-34-4	Octane, 4-Methyl-	330	910	840 J
52896-87-4	Heptane, 4-(1-Methyl ethyl)-	342	919	950 J
5166-53-0	2-Hexen-2-One, 5-Methyl-	465	756	550 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	503		850 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1676		770 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2196		840 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC400

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205215
QC Report No: 157
Sample Matrix: SOIL
Contract No: 69-01-6798
Data Release Authorized By:
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/26/85
Date Analyzed: 12/26/85
Conc/Dil Factor: 1. pH 7.60
Percent Moisture: (Not Decanted) 8.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	11. U	78-87-5	1,2-Dichloropropane	5.4U
74-83-9	Bromomethane	11. U	10061-02-6	Trans-1,3-Dichloroproene	5.4U
75-01-4	Vinyl Chloride	11. U	79-01-6	Trichloroethene	5.4U
75-00-3	Chloroethane	11. U	124-48-1	Dibromochloromethane	5.4U
75-09-2	Methylene Chloride	9.5B	79-00-5	1,1,2-Trichloroethane	5.4U
67-64-1	Acetone	11. U	71-43-2	Benzene	5.4U
75-15-0	Carbon Disulfide	5.4U	10061-01-5	cis-1,3-Dichloropropene	5.4U
75-35-4	1,1-Dichloroethene	5.4U	110-75-8	2-Chloroethylvinylether	11. U
75-[illegible]5-3	1,1-Dichloroethane	5.4U	75-25-2	Bromoform	5.4U
156-60-5	Trans-1,2-Dichloroethene	5.4U	108-10-1	4-Methyl-2-Pentanone	11. U
67-66-3	Chloroform	5.4U	591-78-6	2-Hexanone	11. U
107-06-2	1,2-Dichloroethane	5.4U	127-18-4	Tetrachloroethene	4.4J
78-93-3	2-Butanone	11. U	79-34-5	1,1,2,2-Tetrachloroethane	5.4U
71-55-6	1,1,1-Trichloroethane	5.4U	108-88-3	Toluene	2.9BJ
56-23-5	Carbon Tetrachloride	5.4U	108-90-7	Chlorobenzene	5.4U
108-05-4	Vinyl Acetate	11. U	100-41-4	Ethylbenzene	5.4U
75-27-4	Bromodichloromethane	5.4U	100-42-5	Styrene	5.4U
				Total Xylenes	5.4U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC400

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/13/86
Dil Factor: 2.000
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	720.	U	83-32-9	Acenaphthene	720.	U
111-44-4	bis(2-Chloroethyl)Ether	720.	U	51-28-5	2,4-Dinitrophenol	3500.	U
95-57-8	2-Chlorophenol	720.	U	100-02-7	4-Nitrophenol	3500.	U
541-73-1	1,3-Dichlorobenzene	720.	U	132-64-9	Dibenzofuran	720.	U
106-46-7	1,4-Dichlorobenzene	720.	U	121-14-2	2,4-Dinitrotoluene	720.	U
100-51-6	Benzyl Alcohol	720.	U	606-20-2	2,6-Dinitrotoluene	720.	U
95-50-1	1,2-Dichlorobenzene	720.	U	84-66-2	Diethylphthalate	720.	U
95-48-7	2-Methylphenol	720.	U	7005-72-3	4-Chlorophenyl-phenylether	720.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	720.	U	86-73-7	Fluorene	720.	U
106-44-5	4-Methylphenol	720.	U	100-10-6	4-Nitroaniline	3500.	U
621-64-7	N-Nitroso-Di-n-Propylamine	720.	U	534-52-1	4,6-Dinitro-2-Methylphenol	3500.	U
67[illegible]2-1	Hexachloroethane	720.	U	86-30-6	N-Nitrosodiphenylamine (1)	720.	U
98-95-3	Nitrobenzene	720.	U	101-55-3	4-Bromophenyl-phenylether	720.	U
78-59-1	Isophorone	720.	U	118-74-1	Hexachlorobenzene	720.	U
88-75-5	2-Nitrophenol	720.	U	87-86-5	Pentachlorophenol	3500.	U
105-67-9	2,4-Dimethylphenol	720.	U	85-01-8	Phenanthrene	720.	U
65-85-0	Benzoic Acid	3500.	U	120-12-7	Anthracene	720.	U
111-91-1	bis(2-Chloroethoxy)Methane	720.	U	84-74-2	Di-n-Butylphthalate	720.	U
120-83-2	2,4-Dichlorophenol	720.	U	206-44-0	Fluoranthene	720.	U
120-82-1	1,2,4-Trichlorobenzene	720.	U	129-00-0	Pyrene	720.	U
91-20-3	Naphthalene	720.	U	85-68-7	Butylbenzylphthalate	720.	U
106-47-8	4-Chloroaniline	720.	U	91-94-1	3,3'-Dichlorobenzidine	1400.	U
87-68-3	Hexachlorobutadiene	720.	U	56-55-3	Benzo(a)Anthracene	720.	U
59-50-7	4-Chloro-3-Methylphenol	720.	U	117-81-7	bis(2-Ethylhexyl)Phthalate	720.	U
91-57-6	2-Methylnaphthalene	720.	U	218-01-9	Chrysene	720.	U
77-47-4	Hexachlorocyclopentadiene	720.	U	117-84-0	Di-n-Octyl Phthalate	720.	U
88-06-2	2,4,6-Trichlorophenol	720.	U	205-99-2	Benzo(b)Fluoranthene	720.	U
95-95-4	2,4,5-Trichlorophenol	3500.	U	207-08-9	Benzo(k)Fluoranthene	720.	U
91-58-7	2-Chloronaphthalene	720.	U	50-32-8	Benzo(a)Pyrene	720.	U
88-74-4	2-Nitroaniline	3500.	U	193-39-5	Indeno(1,2,3-cd)Pyrene	720.	U
131-11-3	Dimethyl Phthalate	720.	U	53-70-3	Dibenz(a,h)Anthracene	720.	U
208-96-8	Acenaphthylene	720.	U	191-24-2	Benzo(g,h,i)Perylene	720.	U
99-09-2	3-Nitroaniline	3500.	U				

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC400

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V15A

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/KG ~~UG/L~~
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	40		30 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	103		56 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC400

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C15

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
108-21-4	Acetic Acid, 1-Methylethyl Ester	272	811	2200 J
625-06-9	2-Pentanol, 2,4-Dimethyl-	318	764	78000 J
3074-71-3	Heptane, 2,3-Dimethyl-	329	907	2400 J
2216-34-4	Octane, 4-Methyl-	341	904	2400 J
52896-87-4	Heptane, 4-(1-Methylethyl)-	353	910	2400 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	472		770 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	509		1500 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1195		750 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC401

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205216
Sample Matrix: SOIL
Data Release Authorized By: TTO

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/24/85
Date Analyzed: 12/24/85
Conc/Dil Factor: 1. pH 7.50
Percent Moisture: (Not Decanted) 9.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	11. U	78-87-5	1,2-Dichloropropane	5.5U
74-83-9	Bromomethane	11. U	10061-02-6	Trans-1,3-Dichloroproene	5.5U
75-01-4	Vinyl Chloride	11. U	79-01-6	Trichloroethene	5.5U
75-00-3	Chloroethane	11. U	124-48-1	Dibromochloromethane	5.5U
75-09-2	Methylene Chloride	17. B	79-00-5	1,1,2-Trichloroethane	5.5U
67-64-1	Acetone	11. U	71-43-2	Benzene	5.5U
75-15-0	Carbon Disulfide	5.5U	10061-01-5	cis-1,3-Dichloropropene	5.5U
75-35-4	1,1-Dichloroethene	5.5U	110-75-8	2-Chloroethylvinylether	11. U
75-[illegible]5-3	1,1-Dichloroethane	5.5U	75-25-2	Bromoform	5.5U
156-60-5	Trans-1,2-Dichloroethene	5.5U	108-10-1	4-Methyl-2-Pentanone	11. U
67-66-3	Chloroform	5.5U	591-78-6	2-Hexanone	11. U
107-06-2	1,2-Dichloroethane	5.5U	127-18-4	Tetrachloroethene	5.5U
78-93-3	2-Butanone	11. U	79-34-5	1,1,2,2-Tetrachloroethane	5.5U
71-55-6	1,1,1-Trichloroethane	5.5U	108-88-3	Toluene	2.0BJ
56-23-5	Carbon Tetrachloride	5.5U	108-90-7	Chlorobenzene	5.5U
108-05-4	Vinyl Acetate	11. U	100-41-4	Ethylbenzene	5.5U
75-27-4	Bromodichloromethane	5.5U	100-42-5	Styrene	5.5U
				Total Xylenes	5.5U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
[redacted] No: 5314

Sample Number
FC401

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/13/86
Dil Factor: 2.000
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	730.	U	83-32-9	Acenaphthene	730.	U
111-44-4	bis(2-Chloroethyl)Ether	730.	U	51-28-5	2,4-Dinitrophenol	3500.	U
95-57-8	2-Chlorophenol	730.	U	100-02-7	4-Nitrophenol	3500.	U
541-73-1	1,3-Dichlorobenzene	730.	U	132-64-9	Dibenzofuran	730.	U
106-46-7	1,4-Dichlorobenzene	730.	U	121-14-2	2,4-Dinitrotoluene	730.	U
100-51-6	Benzyl Alcohol	730.	U	606-20-2	2,6-Dinitrotoluene	730.	U
95-50-1	1,2-Dichlorobenzene	730.	U	84-66-2	Diethylphthalate	730.	U
95-48-7	2-Methylphenol	730.	U	7005-72-3	4-Chlorophenyl-phenylether	730.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	730.	U	86-73-7	Fluorene	730.	U
106-44-5	4-Methylphenol	730.	U	100-10-6	4-Nitroaniline	3500.	U
621-64-7	N-Nitroso-Di-n-Propylamine	730.	U	534-52-1	4,6-Dinitro-2-Methylphenol	3500.	U
67[illegible]2-1	Hexachloroethane	730.	U	86-30-6	N-Nitrosodiphenylamine (1)	730.	U
98-95-3	Nitrobenzene	730.	U	101-55-3	4-Bromophenyl-phenylether	730.	U
78-59-1	Isophorone	730.	U	118-74-1	Hexachlorobenzene	730.	U
88-75-5	2-Nitrophenol	730.	U	87-86-5	Pentachlorophenol	3500.	U
105-67-9	2,4-Dimethylphenol	730.	U	85-01-8	Phenanthrene	730.	U
65-85-0	Benzoic Acid	3500.	U	120-12-7	Anthracene	730.	U
111-91-1	bis(2-Chloroethoxy)Methane	730.	U	84-74-2	Di-n-Butylphthalate	730.	U
120-83-2	2,4-Dichlorophenol	730.	U	206-44-0	Fluoranthene	730.	U
120-82-1	1,2,4-Trichlorobenzene	730.	U	129-00-0	Pyrene	730.	U
91-20-3	Naphthalene	730.	U	85-68-7	Butylbenzylphthalate	730.	U
106-47-8	4-Chloroaniline	730.	U	91-94-1	3,3'-Dichlorobenzidine	1500.	U
87-68-3	Hexachlorobutadiene	730.	U	56-55-3	Benzo(a)Anthracene	730.	U
59-50-7	4-Chloro-3-Methylphenol	730.	U	117-81-7	bis(2-Ethylhexyl)Phthalate	730.	U
91-57-6	2-Methylnaphthalene	730.	U	218-01-9	Chrysene	730.	U
77-47-4	Hexachlorocyclopentadiene	730.	U	117-84-0	Di-n-Octyl Phthalate	730.	U
88-06-2	2,4,6-Trichlorophenol	730.	U	205-99-2	Benzo(b)Fluoranthene	730.	U
95-95-4	2,4,5-Trichlorophenol	3500.	U	207-08-9	Benzo(k)Fluoranthene	730.	U
91-58-7	2-Chloronaphthalene	730.	U	50-32-8	Benzo(a)Pyrene	730.	U
88-74-4	2-Nitroaniline	3500.	U	193-39-5	Indeno(1,2,3-cd)Pyrene	730.	U
131-11-3	Dimethyl Phthalate	730.	U	53-70-3	Dibenz(a,h)Anthracene	730.	U
208-96-8	Acenaphthylene	730.	U	191-24-2	Benzo(g,h,i)Perylene	730.	U
99-09-2	3-Nitroaniline	3500.	U				

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC401

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V16

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/KG ~~UG/L~~ CLY

NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC401

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C16

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
108-21-4	Acetic Acid, 1-Methylethyl Ester	273	809	1700 J
75-91-2	Hydroperoxide, 1,1-Dimethylethyl	318	759	67000 J
3074-71-3	Heptane, 2,3-Dimethyl-	330	919	2000 J
2216-34-4	Octane, 4-Methyl-	343	894	2000 J
2216-33-3	Octane, 3-Methyl-	354	946	1900 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	473		630 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	510		1200 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1196		1300 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC402

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205217
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/24/85
Date Analyzed: 12/24/85
Conc/Dil Factor: 1. pH 7.00
Percent Moisture: (Not Decanted) 18.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	12. U	78-87-5	1,2-Dichloropropane	6.1U
74-83-9	Bromomethane	12. U	10061-02-6	Trans-1,3-Dichloroproene	6.1U
75-01-4	Vinyl Chloride	12. U	79-01-6	Trichloroethene	17.
75-00-3	Chloroethane	12. U	124-48-1	Dibromochloromethane	6.1U
75-09-2	Methylene Chloride	23. B	79-00-5	1,1,2-Trichloroethane	6.1U
67-64-1	Acetone	78.	71-43-2	Benzene	6.1U
75-15-0	Carbon Disulfide	6.1U	10061-01-5	cis-1,3-Dichloropropene	6.1U
75-35-4	1,1-Dichloroethene	6.1U	110-75-8	2-Chloroethylvinylether	12. U
75-34-3	1,1-Dichloroethane	6.1U	75-25-2	Bromoform	6.1U
156-60-5	Trans-1,2-Dichloroethene	6.1U	108-10-1	4-Methyl-2-Pentanone	12. U
67-66-3	Chloroform	6.1U	591-78-6	2-Hexanone	12. U
107-06-2	1,2-Dichloroethane	6.1U	127-18-4	Tetrachloroethene	6.1U
78-93-3	2-Butanone	28.	79-34-5	1,1,2,2-Tetrachloroethane	6.1U
71-55-6	1,1,1-Trichloroethane	6.1U	108-88-3	Toluene	6.1BU
56-23-5	Carbon Tetrachloride	6.1U	108-90-7	Chlorobenzene	6.1U
108-05-4	Vinyl Acetate	12. U	100-41-4	Ethylbenzene	6.1U
75-27-4	Bromodichloromethane	6.1U	100-42-5	Styrene	6.1U
				Total Xylenes	6.1U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery & Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
[redacted] No: 5314

Sample Number
FC402

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/15/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes -X- No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	24000.U	83-32-9	Acenaphthene	24000.U
111-44-4	bis(2-Chloroethyl)Ether	24000.U	51-28-5	2,4-Dinitrophenol	120000U
95-57-8	2-Chlorophenol	24000.U	100-02-7	4-Nitrophenol	120000U
541-73-1	1,3-Dichlorobenzene	24000.U	132-64-9	Dibenzofuran	24000.U
106-46-7	1,4-Dichlorobenzene	24000.U	121-14-2	2,4-Dinitrotoluene	24000.U
100-51-6	Benzyl Alcohol	24000.U	606-20-2	2,6-Dinitrotoluene	24000.U
95-50-1	1,2-Dichlorobenzene	24000.U	84-66-2	Diethylphthalate	24000.U
95-48-7	2-Methylphenol	24000.U	7005-72-3	4-Chlorophenyl-phenylether	24000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	24000.U	86-73-7	Fluorene	24000.U
106-44-5	4-Methylphenol	24000.U	100-10-6	4-Nitroaniline	120000U
621-64-7	N-Nitroso-Di-n-Propylamine	24000.U	534-52-1	4,6-Dinitro-2-Methylphenol	120000U
6[redacted]2-1	Hexachloroethane	24000.U	86-30-6	N-Nitrosodiphenylamine (1)	24000.U
98-95-3	Nitrobenzene	24000.U	101-55-3	4-Bromophenyl-phenylether	24000.U
78-59-1	Isophorone	24000.U	118-74-1	Hexachlorobenzene	24000.U
88-75-5	2-Nitrophenol	24000.U	87-86-5	Pentachlorophenol	120000U
105-67-9	2,4-Dimethylphenol	24000.U	85-01-8	Phenanthrene	24000.U
65-85-0	Benzoic Acid	120000U	120-12-7	Anthracene	24000.U
111-91-1	bis(2-Chloroethoxy)Methane	24000.U	84-74-2	Di-n-Butylphthalate	24000.U
120-83-2	2,4-Dichlorophenol	24000.U	206-44-0	Fluoranthene	24000.U
120-82-1	1,2,4-Trichlorobenzene	24000.U	129-00-0	Pyrene	4500. J
91-20-3	Naphthalene	24000.U	85-68-7	Butylbenzylphthalate	7100. J
106-47-8	4-Chloroaniline	24000.U	91-94-1	3,3'-Dichlorobenzidine	48000.U
87-68-3	Hexachlorobutadiene	24000.U	56-55-3	Benzo(a)Anthracene	5100. J
59-50-7	4-Chloro-3-Methylphenol	24000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	4900. J
91-57-6	2-Methylnaphthalene	24000.U	218-01-9	Chrysene	5700. J
77-47-4	Hexachlorocyclopentadiene	24000.U	117-84-0	Di-n-Octyl Phthalate	24000.U
88-06-2	2,4,6-Trichlorophenol	24000.U	205-99-2	Benzo(b)Fluoranthene	12000.J
95-95-4	2,4,5-Trichlorophenol	120000U	207-08-9	Benzo(k)Fluoranthene	24000.U
91-58-7	2-Chloronaphthalene	24000.U	50-32-8	Benzo(a)Pyrene	24000.BU
88-74-4	2-Nitroaniline	120000U	193-39-5	Indeno(1,2,3-cd)Pyrene	24000.U
131-11-3	Dimethyl Phthalate	24000.U	53-70-3	Dibenz(a,h)Anthracene	24000.U
208-96-8	Acenaphthylene	24000.U	191-24-2	Benzo(g,h,i)Perylene	12000.J
99-09-2	3-Nitroaniline	120000U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC402

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V17

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				CKT UG/KG ~~UG/L~~
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	37		43 J

J = Estimated value - A 1:1 Response Factor is assumed

SAMPLE: FC402

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C17

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2017		20000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2076		23000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2145		22000 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC403

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205218
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By: MO
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/28/85
Date Analyzed: 12/28/85
Dil Factor: 2.500 pH 6.20
Percent Moisture: (Not Decanted) 45.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	4500. U	78-87-5	1,2-Dichloropropane	2300. U
74-83-9	Bromomethane	4500. U	10061-02-6	Trans-1,3-Dichloroproene	2300. U
75-01-4	Vinyl Chloride	4500. U	79-01-6	Trichloroethene	2300. U
75-00-3	Chloroethane	4500. U	124-48-1	Dibromochloromethane	2300. U
75-09-2	Methylene Chloride	2400 ~~3000.~~ B NOT	79-00-5	1,1,2-Trichloroethane	2300. U
67-64-1	Acetone	4500. U	71-43-2	Benzene	2300. U
75-15-0	Carbon Disulfide	2300. U	10061-01-5	cis-1,3-Dichloropropene	2300. U
75-35-4	1,1-Dichloroethene	2300. U	110-75-8	2-Chloroethylvinylether	4500. U
75-[illegible]5-3	1,1-Dichloroethane	2300. U	75-25-2	Bromoform	2300. U
15[illegible]60-5	Trans-1,2-Dichloroethene	2300. U	108-10-1	4-Methyl-2-Pentanone	4500. U
67-66-3	Chloroform	2300. U	591-78-6	2-Hexanone	4500. U
107-06-2	1,2-Dichloroethane	2300. U	127-18-4	Tetrachloroethene	2300. U
78-93-3	2-Butanone	4500. U	79-34-5	1,1,2,2-Tetrachloroethane	2300. U
71-55-6	1,1,1-Trichloroethane	2300. U	108-88-3	Toluene	2300. BU
56-23-5	Carbon Tetrachloride	2300. U	108-90-7	Chlorobenzene	2300. U
108-05-4	Vinyl Acetate	4500. U	100-41-4	Ethylbenzene	2300. U
75-27-4	Bromodichloromethane	2300. U	100-42-5	Styrene	2300. U
				Total Xylenes	~~39000.~~ 31000 NOT

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery & Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC403

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/14/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) ____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	36000.U	83-32-9	Acenaphthene	36000.U
111-44-4	bis(2-Chloroethyl)Ether	36000.U	51-28-5	2,4-Dinitrophenol	170000U
95-57-8	2-Chlorophenol	36000.U	100-02-7	4-Nitrophenol	170000U
541-73-1	1,3-Dichlorobenzene	36000.U	132-64-9	Dibenzofuran	36000.U
106-46-7	1,4-Dichlorobenzene	36000.U	121-14-2	2,4-Dinitrotoluene	36000.U
100-51-6	Benzyl Alcohol	36000.U	606-20-2	2,6-Dinitrotoluene	36000.U
95-50-1	1,2-Dichlorobenzene	36000.U	84-66-2	Diethylphthalate	36000.U
95-48-7	2-Methylphenol	36000.U	7005-72-3	4-Chlorophenyl-phenylether	36000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	36000.U	86-73-7	Fluorene	36000.U
106-44-5	4-Methylphenol	36000.U	100-10-6	4-Nitroaniline	170000U
621-64-7	N-Nitroso-Di-n-Propylamine	36000.U	534-52-1	4,6-Dinitro-2-Methylphenol	170000U
67[illegible]2-1	Hexachloroethane	36000.U	86-30-6	N-Nitrosodiphenylamine (1)	14000.J
98-95-3	Nitrobenzene	36000.U	101-55-3	4-Bromophenyl-phenylether	36000.U
78-59-1	Isophorone	36000.U	118-74-1	Hexachlorobenzene	36000.U
88-75-5	2-Nitrophenol	36000.U	87-86-5	Pentachlorophenol	170000U
105-67-9	2,4-Dimethylphenol	36000.U	85-01-8	Phenanthrene	6200. J
65-85-0	Benzoic Acid	170000U	120-12-7	Anthracene	36000.U
111-91-1	bis(2-Chloroethoxy)Methane	36000.U	84-74-2	Di-n-Butylphthalate	36000.U
120-83-2	2,4-Dichlorophenol	36000.U	206-44-0	Fluoranthene	36000.U
120-82-1	1,2,4-Trichlorobenzene	36000.U	129-00-0	Pyrene	36000.U
91-20-3	Naphthalene	36000.U	85-68-7	Butylbenzylphthalate	36000.U
106-47-8	4-Chloroaniline	36000.U	91-94-1	3,3'-Dichlorobenzidine	72000.U
87-68-3	Hexachlorobutadiene	36000.U	56-55-3	Benzo(a)Anthracene	36000.U
59-50-7	4-Chloro-3-Methylphenol	36000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	36000.U
91-57-6	2-Methylnaphthalene	13000.J	218-01-9	Chrysene	36000.U
77-47-4	Hexachlorocyclopentadiene	36000.U	117-84-0	Di-n-Octyl Phthalate	36000.U
88-06-2	2,4,6-Trichlorophenol	36000.U	205-99-2	Benzo(b)Fluoranthene	36000.U
95-95-4	2,4,5-Trichlorophenol	170000U	207-08-9	Benzo(k)Fluoranthene	36000.U
91-58-7	2-Chloronaphthalene	36000.U	50-32-8	Benzo(a)Pyrene	36000.BU
88-74-4	2-Nitroaniline	170000U	193-39-5	Indeno(1,2,3-cd)Pyrene	36000.U
131-11-3	Dimethyl Phthalate	36000.U	53-70-3	Dibenz(a,h)Anthracene	36000.U
208-96-8	Acenaphthylene	36000.U	191-24-2	Benzo(g,h,i)Perylene	36000.U
99-09-2	3-Nitroaniline	170000U			

(1) - Cannot be separated from diphenylamine

Form I

INST ID: 4000 Spectrix DC # 5314-6- 8

SAMPLE NUMBER: FC403

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V18

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT ug/kg ~~ug/L~~
110-82-7	Cyclohexane (DOT)	266	948	40000 J
108-87-2	Cyclohexane, Methyl	379	927	22000 J
13151-04-7	1-Heptene, 5-methyl	456	770	18000 J
4850-28-6	Cyclopentane, 1,2,4-Trimethyl- *	463	852	8100 J
2207-01-4	Cyclohexane, 1,2-Dimethyl-, cis-	475	799	20000 J
638-04-0	Cyclohexane, 1,3-Dimethyl-, cis-	485	921	13000 J
3073-66-3	Cyclohexane, 1,1,3-Trimethyl-	505	912	12000 J
62108-23-0	Decane, 2,5,6-Trimethyl-	523	866	12000 J
921-47-1	Hexane, 2,3,4-Trimethyl	547	838	27000 J
33063-77-3	Cyclohexane, 1,2,4-Trimethyl-	590	752	11000 J

J = Estimated value - A 1:1 Response Factor is assumed

* = Name Truncated

SAMPLE: FC403

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C18

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				YPH UG/KG
1678-91-7	Cyclohexane, Ethyl	275	829	290000 J
53366-38-4	Cyclopentane, (2-Methylbutyl)	282	847	710000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	344		250000 J
4923-77-7	Cyclohexane, 1-Ethyl-2-Methyl-, Cis-	370	915	230000 J
111-84-2	Nonane	391	900	230000 J
62108-23-0	Decane, 2,5,6-Trimethyl	396	858	560000 J
1678-92-8	Cyclohexane, Propyl	435	911	160000 J
62016-34-6	Octane, 2,3,7-Trimethyl-	445	881	220000 J
52896-87-4	Heptane, 4-(1-Methylethyl)-	457	852	320000 J
21078-65-9	1-Decanol, 2-Ethyl-	476	770	170000 J
124-18-5	Decane	543	910	520000 J
17302-28-2	Nonane, 2,6-Dimethyl	574	890	210000 J
		~~549~~ YPH		~~22000 J~~ YPH
62108-23-0	Decane, 2,5,6-Trimethyl-	671	881	240000 J
17301-32-5	Undecane, 4,7-Dimethyl-	784	870	140000 J
17301-32-5	Undecane, 4,7-Dimethyl-	886	898	130000 J
		~~952~~ YPH		~~95000 J~~ YPH

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC415

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205219
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/23/85
Date Analyzed: 12/23/85
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	4.0BJ	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
75-[illegible]5-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	5.0U	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	5.0U	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. U	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	5.0U	108-88-3	Toluene	3.8BJ
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	5.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FC415

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/08/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	10. U	83-32-9	Acenaphthene	10. U
111-44-4	bis(2-Chloroethyl)Ether	10. U	51-28-5	2,4-Dinitrophenol	50. U
95-57-8	2-Chlorophenol	10. U	100-02-7	4-Nitrophenol	50. U
541-73-1	1,3-Dichlorobenzene	10. U	132-64-9	Dibenzofuran	10. U
106-46-7	1,4-Dichlorobenzene	10. U	121-14-2	2,4-Dinitrotoluene	10. U
100-51-6	Benzyl Alcohol	10. U	606-20-2	2,6-Dinitrotoluene	10. U
95-50-1	1,2-Dichlorobenzene	10. U	84-66-2	Diethylphthalate	10. U
95-48-7	2-Methylphenol	10. U	7005-72-3	4-Chlorophenyl-phenylether	10. U
39638-32-9	bis(2-Chloroisopropyl)Ether	10. U	86-73-7	Fluorene	10. U
106-44-5	4-Methylphenol	10. U	100-10-6	4-Nitroaniline	50. U
621-64-7	N-Nitroso-Di-n-Propylamine	10. U	534-52-1	4,6-Dinitro-2-Methylphenol	50. U
67[illegible]2-1	Hexachloroethane	10. U	86-30-6	N-Nitrosodiphenylamine (1)	10. U
98-95-3	Nitrobenzene	10. U	101-55-3	4-Bromophenyl-phenylether	10. U
78-59-1	Isophorone	10. U	118-74-1	Hexachlorobenzene	10. U
88-75-5	2-Nitrophenol	10. U	87-86-5	Pentachlorophenol	50. U
105-67-9	2,4-Dimethylphenol	10. U	85-01-8	Phenanthrene	10. U
65-85-0	Benzoic Acid	50. U	120-12-7	Anthracene	10. U
111-91-1	bis(2-Chloroethoxy)Methane	10. U	84-74-2	Di-n-Butylphthalate	10. U
120-83-2	2,4-Dichlorophenol	10. U	206-44-0	Fluoranthene	10. U
120-82-1	1,2,4-Trichlorobenzene	10. U	129-00-0	Pyrene	10. U
91-20-3	Naphthalene	10. U	85-68-7	Butylbenzylphthalate	10. U
106-47-8	4-Chloroaniline	10. U	91-94-1	3,3'-Dichlorobenzidine	20. U
87-68-3	Hexachlorobutadiene	10. U	56-55-3	Benzo(a)Anthracene	10. U
59-50-7	4-Chloro-3-Methylphenol	10. U	117-81-7	bis(2-Ethylhexyl)Phthalate	10. U
91-57-6	2-Methylnaphthalene	10. U	218-01-9	Chrysene	10. U
77-47-4	Hexachlorocyclopentadiene	10. U	117-84-0	Di-n-Octyl Phthalate	10. U
88-06-2	2,4,6-Trichlorophenol	10. U	205-99-2	Benzo(b)Fluoranthene	10. U
95-95-4	2,4,5-Trichlorophenol	50. U	207-08-9	Benzo(k)Fluoranthene	10. U
91-58-7	2-Chloronaphthalene	10. U	50-32-8	Benzo(a)Pyrene	10. U
88-74-4	2-Nitroaniline	50. U	193-39-5	Indeno(1,2,3-cd)Pyrene	10. U
131-11-3	Dimethyl Phthalate	10. U	53-70-3	Dibenz(a,h)Anthracene	10. U
208-96-8	Acenaphthylene	10. U	191-24-2	Benzo(g,h,i)Perylene	10. U
99-09-2	3-Nitroaniline	50. U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC415

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V19

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	36		33 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530

Spectrix DC # 5314-6- 8

SAMPLE: FC415

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation

CASE NO.: 5314

QC REPORT NO.: 157

ANALYST: YPH

DATAFILE: EU12052C19

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
110-12-3	2-Hexanone, 5-Methyl-	347	878	8 J
629-74-3	1-Hexadecyne	1498	829	10 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1903		7 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FB793MS

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205208
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/22/85
Date Analyzed: 12/22/85
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	4.7BJ	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
75-35-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	5.0U	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	5.0U	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. BU	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	5.0U	108-88-3	Toluene	5.0BU
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	5.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED
Sun Refinery & Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB793MS

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/08/86
Dil Factor: 5.000
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	50. U	83-32-9	Acenaphthene	50. U
111-44-4	bis(2-Chloroethyl)Ether	50. U	51-28-5	2,4-Dinitrophenol	250. U
95-57-8	2-Chlorophenol	50. U	100-02-7	4-Nitrophenol	250. U
541-73-1	1,3-Dichlorobenzene	50. U	132-64-9	Dibenzofuran	50. U
106-46-7	1,4-Dichlorobenzene	50. U	121-14-2	2,4-Dinitrotoluene	50. U
100-51-6	Benzyl Alcohol	50. U	606-20-2	2,6-Dinitrotoluene	50. U
95-50-1	1,2-Dichlorobenzene	50. U	84-66-2	Diethylphthalate	50. U
95-48-7	2-Methylphenol	50. U	7005-72-3	4-Chlorophenyl-phenylether	50. U
39638-32-9	bis(2-Chloroisopropyl)Ether	50. U	86-73-7	Fluorene	50. U
106-44-5	4-Methylphenol	50. U	100-10-6	4-Nitroaniline	250. U
621-64-7	N-Nitroso-Di-n-Propylamine	50. U	534-52-1	4,6-Dinitro-2-Methylphenol	250. U
67[illegible]2-1	Hexachloroethane	50. U	86-30-6	N-Nitrosodiphenylamine (1)	~~58.~~ 29 NOT
98-95-3	Nitrobenzene	50. U	101-55-3	4-Bromophenyl-phenylether	50. U
78-59-1	Isophorone	50. U	118-74-1	Hexachlorobenzene	50. U
88-75-5	2-Nitrophenol	50. U	87-86-5	Pentachlorophenol	250. U
105-67-9	2,4-Dimethylphenol	50. U	85-01-8	Phenanthrene	~~57~~ 29 NOT
65-85-0	Benzoic Acid	250. U	120-12-7	Anthracene	50. U
111-91-1	bis(2-Chloroethoxy)Methane	50. U	84-74-2	Di-n-Butylphthalate	~~24~~ 8J NOT
120-83-2	2,4-Dichlorophenol	50. U	206-44-0	Fluoranthene	50. U
120-82-1	1,2,4-Trichlorobenzene	50. U	129-00-0	Pyrene	50. U
91-20-3	Naphthalene	50. U	85-68-7	Butylbenzylphthalate	50. U
106-47-8	4-Chloroaniline	50. U	91-94-1	3,3'-Dichlorobenzidine	100. U
87-68-3	Hexachlorobutadiene	50. U	56-55-3	Benzo(a)Anthracene	50. U
59-50-7	4-Chloro-3-Methylphenol	50. U	117-81-7	bis(2-Ethylhexyl)Phthalate	50. U
91-57-6	2-Methylnaphthalene	~~52~~ 26 NOT	218-01-9	Chrysene	50. U
77-47-4	Hexachlorocyclopentadiene	50. U	117-84-0	Di-n-Octyl Phthalate	50. U
88-06-2	2,4,6-Trichlorophenol	50. U	205-99-2	Benzo(b)Fluoranthene	50. U
95-95-4	2,4,5-Trichlorophenol	250. U	207-08-9	Benzo(k)Fluoranthene	50. U
91-58-7	2-Chloronaphthalene	50. U	50-32-8	Benzo(a)Pyrene	50. U
88-74-4	2-Nitroaniline	250. U	193-39-5	Indeno(1,2,3-cd)Pyrene	50. U
131-11-3	Dimethyl Phthalate	50. U	53-70-3	Dibenz(a,h)Anthracene	50. U
208-96-8	Acenaphthylene	50. U	191-24-2	Benzo(g,h,i)Perylene	50. U
99-09-2	3-Nitroaniline	250. U			

(1) - Cannot be separated from diphenylamine

Form I

SPECTRIX D.C. # 5314-06-8

Sample Number
FB799MS

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 851205234
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By:
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/28/85
Date Analyzed: 12/28/85
Dil Factor: 2.500 pH 6.70
Percent Moisture: (Not Decanted) 36.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3900. U	78-87-5	1,2-Dichloropropane	2000. U
74-83-9	Bromomethane	3900. U	10061-02-6	Trans-1,3-Dichloroproene	2000. U
75-01-4	Vinyl Chloride	3900. U	79-01-6	Trichloroethene	2000. U
75-00-3	Chloroethane	3900. U	124-48-1	Dibromochloromethane	2000. U
75-09-2	Methylene Chloride	2900 B	79-00-5	1,1,2-Trichloroethane	2000. U
67-64-1	Acetone	3900. U	71-43-2	Benzene	2000. U
75-15-0	Carbon Disulfide	2000. U	10061-01-5	cis-1,3-Dichloropropene	2000. U
75-35-4	1,1-Dichloroethene	2000. U	110-75-8	2-Chloroethylvinylether	3900. U
75-35-3	1,1-Dichloroethane	2000. U	75-25-2	Bromoform	2000. U
156-60-5	Trans-1,2-Dichloroethene	2000. U	108-10-1	4-Methyl-2-Pentanone	3900. U
67-66-3	Chloroform	2000. U	591-78-6	2-Hexanone	3900. U
107-06-2	1,2-Dichloroethane	2000. U	127-18-4	Tetrachloroethene	2000. U
78-93-3	2-Butanone	1300. J	79-34-5	1,1,2,2-Tetrachloroethane	2000. U
71-55-6	1,1,1-Trichloroethane	2000. U	108-88-3	Toluene	2000. BU
56-23-5	Carbon Tetrachloride	2000. U	108-90-7	Chlorobenzene	2000. U
108-05-4	Vinyl Acetate	3900. U	100-41-4	Ethylbenzene	21000.
75-27-4	Bromodichloromethane	2000. U	100-42-5	Styrene	2000. U
				Total Xylenes	33000.

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB799MS

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/14/86
Dil Factor: 2.500
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	77000.U	83-32-9	Acenaphthene	77000.U
111-44-4	bis(2-Chloroethyl)Ether	77000.U	51-28-5	2,4-Dinitrophenol	380000U
95-57-8	2-Chlorophenol	77000.U	100-02-7	4-Nitrophenol	380000U
541-73-1	1,3-Dichlorobenzene	77000.U	132-64-9	Dibenzofuran	77000.U
106-46-7	1,4-Dichlorobenzene	77000.U	121-14-2	2,4-Dinitrotoluene	77000.U
100-51-6	Benzyl Alcohol	77000.U	606-20-2	2,6-Dinitrotoluene	77000.U
95-50-1	1,2-Dichlorobenzene	77000.U	84-66-2	Diethylphthalate	77000.U
95-48-7	2-Methylphenol	77000.U	7005-72-3	4-Chlorophenyl-phenylether	77000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	77000.U	86-73-7	Fluorene	77000.U
106-44-5	4-Methylphenol	77000.U	100-10-6	4-Nitroaniline	380000U
621-64-7	N-Nitroso-Di-n-Propylamine	77000.U	534-52-1	4,6-Dinitro-2-Methylphenol	380000U
67[illegible]2-1	Hexachloroethane	77000.U	86-30-6	N-Nitrosodiphenylamine (1)	77000.U
98[illegible]5-3	Nitrobenzene	77000.U	101-55-3	4-Bromophenyl-phenylether	77000.U
78-59-1	Isophorone	77000.U	118-74-1	Hexachlorobenzene	77000.U
88-75-5	2-Nitrophenol	77000.U	87-86-5	Pentachlorophenol	380000U
105-67-9	2,4-Dimethylphenol	77000.U	85-01-8	Phenanthrene	77000.U
65-85-0	Benzoic Acid	380000U	120-12-7	Anthracene	77000.U
111-91-1	bis(2-Chloroethoxy)Methane	77000.U	84-74-2	Di-n-Butylphthalate	77000.U
120-83-2	2,4-Dichlorophenol	77000.U	206-44-0	Fluoranthene	77000.U
120-82-1	1,2,4-Trichlorobenzene	77000.U	129-00-0	Pyrene	77000.U
91-20-3	Naphthalene	77000.U	85-68-7	Butylbenzylphthalate	77000.U
106-47-8	4-Chloroaniline	77000.U	91-94-1	3,3'-Dichlorobenzidine	150000U
87-68-3	Hexachlorobutadiene	77000.U	56-55-3	Benzo(a)Anthracene	77000.U
59-50-7	4-Chloro-3-Methylphenol	77000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	77000.U
91-57-6	2-Methylnaphthalene	77000.U	218-01-9	Chrysene	77000.U
77-47-4	Hexachlorocyclopentadiene	77000.U	117-84-0	Di-n-Octyl Phthalate	77000.U
88-06-2	2,4,6-Trichlorophenol	77000.U	205-99-2	Benzo(b)Fluoranthene	77000.U
95-95-4	2,4,5-Trichlorophenol	380000U	207-08-9	Benzo(k)Fluoranthene	77000.U
91-58-7	2-Chloronaphthalene	77000.U	50-32-8	Benzo(a)Pyrene	77000.BU
88-74-4	2-Nitroaniline	380000U	193-39-5	Indeno(1,2,3-cd)Pyrene	77000.U
131-11-3	Dimethyl Phthalate	77000.U	53-70-3	Dibenz(a,h)Anthracene	77000.U
208-96-8	Acenaphthylene	77000.U	191-24-2	Benzo(g,h,i)Perylene	77000.U
99-09-2	3-Nitroaniline	380000U			

(1) - Cannot be separated from diphenylamine

Form I

SPECTRIX D.C. # 5314-06-8

Sample Number
FB793MSD

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205209A
Sample Matrix: WATER
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/23/85
Date Analyzed: 12/23/85
Dil Factor: 20.000 pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	200. U	78-87-5	1,2-Dichloropropane	100. U
74-83-9	Bromomethane	200. U	10061-02-6	Trans-1,3-Dichloroproene	100. U
75-01-4	Vinyl Chloride	200. U	79-01-6	Trichloroethene	100. U
75-00-3	Chloroethane	200. U	124-48-1	Dibromochloromethane	100. U
75-09-2	Methylene Chloride	100. BU	79-00-5	1,1,2-Trichloroethane	100. U
67-64-1	Acetone	200. U	71-43-2	Benzene	100. U
75-15-0	Carbon Disulfide	100. U	10061-01-5	cis-1,3-Dichloropropene	100. U
75-35-4	1,1-Dichloroethene	100. U	110-75-8	2-Chloroethylvinylether	200. U
75-34-3	1,1-Dichloroethane	100. U	75-25-2	Bromoform	100. U
156-60-5	Trans-1,2-Dichloroethene	100. U	108-10-1	4-Methyl-2-Pentanone	200. U
67-66-3	Chloroform	100. U	591-78-6	2-Hexanone	200. U
107-06-2	1,2-Dichloroethane	100. U	127-18-4	Tetrachloroethene	100. U
78-93-3	2-Butanone	200. U	79-34-5	1,1,2,2-Tetrachloroethane	100. U
71-55-6	1,1,1-Trichloroethane	100. U	108-88-3	Toluene	100. BU
56-23-5	Carbon Tetrachloride	100. U	108-90-7	Chlorobenzene	100. U
108-05-4	Vinyl Acetate	200. U	100-41-4	Ethylbenzene	100. U
75-27-4	Bromodichloromethane	100. U	100-42-5	Styrene	100. U
				Total Xylenes	100. U

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB793MSD

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/08/86
Dil Factor: 5.000
Percent Moisture: (Decanted)

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ✓ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	50. U	83-32-9	Acenaphthene	50. U
111-44-4	bis(2-Chloroethyl)Ether	50. U	51-28-5	2,4-Dinitrophenol	250. U
95-57-8	2-Chlorophenol	50. U	100-02-7	4-Nitrophenol	250. U
541-73-1	1,3-Dichlorobenzene	50. U	132-64-9	Dibenzofuran	50. U
106-46-7	1,4-Dichlorobenzene	50. U	121-14-2	2,4-Dinitrotoluene	50. U
100-51-6	Benzyl Alcohol	50. U	606-20-2	2,6-Dinitrotoluene	50. U
95-50-1	1,2-Dichlorobenzene	50. U	84-66-2	Diethylphthalate	50. U
95-48-7	2-Methylphenol	50. U	7005-72-3	4-Chlorophenyl-phenylether	50. U
39638-32-9	bis(2-Chloroisopropyl)Ether	50. U	86-73-7	Fluorene	50. U
106-44-5	4-Methylphenol	50. U	100-10-6	4-Nitroaniline	250. U
621-64-7	N-Nitroso-Di-n-Propylamine	50. U	534-52-1	4,6-Dinitro-2-Methylphenol	250. U
67[illegible]2-1	Hexachloroethane	50. U	86-30-6	N-Nitrosodiphenylamine (1)	18 ~~37~~. J NOT
98-95-3	Nitrobenzene	50. U	101-55-3	4-Bromophenyl-phenylether	50. U
78-59-1	Isophorone	50. U	118-74-1	Hexachlorobenzene	50. U
88-75-5	2-Nitrophenol	50. U	87-86-5	Pentachlorophenol	250. U
105-67-9	2,4-Dimethylphenol	50. U	85-01-8	Phenanthrene	5 ~~9.3~~J NOT
65-85-0	Benzoic Acid	250. U	120-12-7	Anthracene	50. U
111-91-1	bis(2-Chloroethoxy)Methane	50. U	84-74-2	Di-n-Butylphthalate	1 ~~7~~.0J NOT
120-83-2	2,4-Dichlorophenol	50. U	206-44-0	Fluoranthene	50. U
120-82-1	1,2,4-Trichlorobenzene	50. U	129-00-0	Pyrene	50. U
91-20-3	Naphthalene	50. U	85-68-7	Butylbenzylphthalate	50. U
106-47-8	4-Chloroaniline	50. U	91-94-1	3,3'-Dichlorobenzidine	100. U
87-68-3	Hexachlorobutadiene	50. U	56-55-3	Benzo(a)Anthracene	50. U
59-50-7	4-Chloro-3-Methylphenol	50. U	117-81-7	bis(2-Ethylhexyl)Phthalate	50. U
91-57-6	2-Methylnaphthalene	~~2448~~. J NOT	218-01-9	Chrysene	50. U
77-47-4	Hexachlorocyclopentadiene	50. U	117-84-0	Di-n-Octyl Phthalate	50. U
88-06-2	2,4,6-Trichlorophenol	50. U	205-99-2	Benzo(b)Fluoranthene	50. U
95-95-4	2,4,5-Trichlorophenol	250. U	207-08-9	Benzo(k)Fluoranthene	50. U
91-58-7	2-Chloronaphthalene	50. U	50-32-8	Benzo(a)Pyrene	50. U
88-74-4	2-Nitroaniline	250. U	193-39-5	Indeno(1,2,3-cd)Pyrene	50. U
131-11-3	Dimethyl Phthalate	50. U	53-70-3	Dibenz(a,h)Anthracene	50. U
208-96-8	Acenaphthylene	50. U	191-24-2	Benzo(g,h,i)Perylene	50. U
99-09-2	3-Nitroaniline	250. U			

(1) - Cannot be separated from diphenylamine

Form I

SPECTRIX D.C. # 5314-06-8

Sample Number
FB799MSD

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205235
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/19/85

VOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/28/85
Date Analyzed: 12/28/85
Dil Factor: 2.500 pH 6.70
Percent Moisture: (Not Decanted) 36.0

CAS Number		UG/KG	CAS Number		UG/KG
74-87-3	Chloromethane	3900. U	78-87-5	1,2-Dichloropropane	2000. U
74-83-9	Bromomethane	3900. U	10061-02-6	Trans-1,3-Dichloroproene	2000. U
75-01-4	Vinyl Chloride	3900. U	79-01-6	Trichloroethene	2000. U
75-00-3	Chloroethane	3900. U	124-48-1	Dibromochloromethane	2000. U
75-09-2	Methylene Chloride	3400. B	79-00-5	1,1,2-Trichloroethane	2000. U
67-64-1	Acetone	3900. U	71-43-2	Benzene	2000. U
75-15-0	Carbon Disulfide	2000. U	10061-01-5	cis-1,3-Dichloropropene	2000. U
75-35-4	1,1-Dichloroethene	2000. U	110-75-8	2-Chloroethylvinylether	3900. U
75-34-3	1,1-Dichloroethane	2000. U	75-25-2	Bromoform	2000. U
156-60-5	Trans-1,2-Dichloroethene	2000. U	108-10-1	4-Methyl-2-Pentanone	3900. U
67-66-3	Chloroform	2000. U	591-78-6	2-Hexanone	3900. U
107-06-2	1,2-Dichloroethane	2000. U	127-18-4	Tetrachloroethene	2000. U
78-93-3	2-Butanone	3900. U	79-34-5	1,1,2,2-Tetrachloroethane	2000. U
71-55-6	1,1,1-Trichloroethane	2000. U	108-88-3	Toluene	2000. BU
56-23-5	Carbon Tetrachloride	2000. U	108-90-7	Chlorobenzene	2000. U
108-05-4	Vinyl Acetate	3900. U	100-41-4	Ethylbenzene	~~25000~~. 21 000 NOT
75-27-4	Bromodichloromethane	2000. U	100-42-5	Styrene	2000. U
				Total Xylenes	~~39000~~. 32 000 NOT

B - Compound was detected in the QC blank.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB799MSD

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: MEDIUM
Date Extracted/Prepared: 12/23/85
Date Analyzed: 01/14/86
Dil Factor: 2.500
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	77000.U	83-32-9	Acenaphthene	77000.U
111-44-4	bis(2-Chloroethyl)Ether	77000.U	51-28-5	2,4-Dinitrophenol	380000U
95-57-8	2-Chlorophenol	77000.U	100-02-7	4-Nitrophenol	380000U
541-73-1	1,3-Dichlorobenzene	77000.U	132-64-9	Dibenzofuran	77000.U
106-46-7	1,4-Dichlorobenzene	77000.U	121-14-2	2,4-Dinitrotoluene	77000.U
100-51-6	Benzyl Alcohol	77000.U	606-20-2	2,6-Dinitrotoluene	77000.U
95-50-1	1,2-Dichlorobenzene	77000.U	84-66-2	Diethylphthalate	77000.U
95-48-7	2-Methylphenol	77000.U	7005-72-3	4-Chlorophenyl-phenylether	77000.U
39638-32-9	bis(2-Chloroisopropyl)Ether	77000.U	86-73-7	Fluorene	77000.U
106-44-5	4-Methylphenol	77000.U	100-10-6	4-Nitroaniline	380000U
621-64-7	N-Nitroso-Di-n-Propylamine	77000.U	534-52-1	4,6-Dinitro-2-Methylphenol	380000U
67[illegible]2-1	Hexachloroethane	77000.U	86-30-6	N-Nitrosodiphenylamine (1)	77000.U
98[illegible]5-3	Nitrobenzene	77000.U	101-55-3	4-Bromophenyl-phenylether	77000.U
78-59-1	Isophorone	77000.U	118-74-1	Hexachlorobenzene	77000.U
88-75-5	2-Nitrophenol	77000.U	87-86-5	Pentachlorophenol	380000U
105-67-9	2,4-Dimethylphenol	77000.U	85-01-8	Phenanthrene	77000.U
65-85-0	Benzoic Acid	380000U	120-12-7	Anthracene	77000.U
111-91-1	bis(2-Chloroethoxy)Methane	77000.U	84-74-2	Di-n-Butylphthalate	77000.U
120-83-2	2,4-Dichlorophenol	77000.U	206-44-0	Fluoranthene	77000.U
120-82-1	1,2,4-Trichlorobenzene	77000.U	129-00-0	Pyrene	77000.U
91-20-3	Naphthalene	77000.U	85-68-7	Butylbenzylphthalate	77000.U
106-47-8	4-Chloroaniline	77000.U	91-94-1	3,3'-Dichlorobenzidine	150000U
87-68-3	Hexachlorobutadiene	77000.U	56-55-3	Benzo(a)Anthracene	77000.U
59-50-7	4-Chloro-3-Methylphenol	77000.U	117-81-7	bis(2-Ethylhexyl)Phthalate	77000.U
91-57-6	2-Methylnaphthalene	77000.U	218-01-9	Chrysene	77000.U
77-47-4	Hexachlorocyclopentadiene	77000.U	117-84-0	Di-n-Octyl Phthalate	77000.U
88-06-2	2,4,6-Trichlorophenol	77000.U	205-99-2	Benzo(b)Fluoranthene	77000.U
95-95-4	2,4,5-Trichlorophenol	380000U	207-08-9	Benzo(k)Fluoranthene	77000.U
91-58-7	2-Chloronaphthalene	77000.U	50-32-8	Benzo(a)Pyrene	77000.BU
88-74-4	2-Nitroaniline	380000U	193-39-5	Indeno(1,2,3-cd)Pyrene	77000.U
131-11-3	Dimethyl Phthalate	77000.U	53-70-3	Dibenz(a,h)Anthracene	77000.U
208-96-8	Acenaphthylene	77000.U	191-24-2	Benzo(g,h,i)Perylene	77000.U
99-09-2	3-Nitroaniline	380000U			

(1) - Cannot be separated from diphenylamine

Form I

SPECTRIX DC# 5314-6-8

Sample Number
MB6RE

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205201
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/18/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 01/20/86
Date Analyzed: 01/20/86
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	5.0U	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
75-35-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	5.0U	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	3.8J	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. U	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	5.0U	108-88-3	Toluene	0.94J
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	5.0U

J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

Sun Refinery + Marketing
OKD058078775

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE

AUG 27 1992

REORGANIZED

INST ID: 4000

Spectrix DC # ~~5453-1~~ NOT 5314-6 - B

SAMPLE NUMBER: MB6

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION

CASE NO.: 5453

QC REPORT NO.: ~~161~~ 157 NOT

ANALYST: CKT

DATAFILE: EB01033V03

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/~~L~~ KG NOT
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	41		13 J
75-31-0	2-Propanamine	104	863	30 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	116		7 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FB795

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Case No: 5314
Lab Sample ID No: 1205204
QC Report No: 157
Sample Matrix: SOIL
Contract No: 69-01-6798
Data Release Authorized By: 110
Date Sample Received: 12/18/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/23/85
Date Analyzed: 12/23/85
Conc/Dil Factor: 1. pH 7.20
Percent Moisture: (Not Decanted) 22.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	13. U	78-87-5	1,2-Dichloropropane	6.4U
74-83-9	Bromomethane	13. U	10061-02-6	Trans-1,3-Dichloroproene	6.4U
75-01-4	Vinyl Chloride	13. U	79-01-6	Trichloroethene	6.4U
75-00-3	Chloroethane	13. U	124-48-1	Dibromochloromethane	6.4U
75-09-2	Methylene Chloride	68. B	79-00-5	1,1,2-Trichloroethane	6.4U
67-64-1	Acetone	13. U	71-43-2	Benzene	6.4U
75-15-0	Carbon Disulfide	6.4U	10061-01-5	cis-1,3-Dichloropropene	6.4U
75-35-4	1,1-Dichloroethene	6.4U	110-75-8	2-Chloroethylvinylether	13. U
75-[illegible]5-3	1,1-Dichloroethane	6.4U	75-25-2	Bromoform	6.4U
156-60-5	Trans-1,2-Dichloroethene	6.4U	108-10-1	4-Methyl-2-Pentanone	13. U
67-66-3	Chloroform	6.4U	591-78-6	2-Hexanone	28.
107-06-2	1,2-Dichloroethane	6.4U	127-18-4	Tetrachloroethene	6.4U
78-93-3	2-Butanone	13. U	79-34-5	1,1,2,2-Tetrachloroethane	6.4U
71-55-6	1,1,1-Trichloroethane	6.4U	108-88-3	Toluene	5.1BJ
56-23-5	Carbon Tetrachloride	6.4U	108-90-7	Chlorobenzene	13.
108-05-4	Vinyl Acetate	10.0J	100-41-4	Ethylbenzene	18.
75-27-4	Bromodichloromethane	6.4U	100-42-5	Styrene	6.4U
				Total Xylenes	16.

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

SUPERFUND FILE

AUG 27 1992

REORGANIZED

Form I

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB795

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/09/86
Dil Factor: 5.000
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	2100. U	83-32-9	Acenaphthene	2100. U
111-44-4	bis(2-Chloroethyl)Ether	2100. U	51-28-5	2,4-Dinitrophenol	10000.U
95-57-8	2-Chlorophenol	2100. U	100-02-7	4-Nitrophenol	10000.U
541-73-1	1,3-Dichlorobenzene	2100. U	132-64-9	Dibenzofuran	2100. U
106-46-7	1,4-Dichlorobenzene	2100. U	121-14-2	2,4-Dinitrotoluene	2100. U
100-51-6	Benzyl Alcohol	2100. U	606-20-2	2,6-Dinitrotoluene	2100. U
95-50-1	1,2-Dichlorobenzene	2100. U	84-66-2	Diethylphthalate	2100. U
95-48-7	2-Methylphenol	2100. U	7005-72-3	4-Chlorophenyl-phenylether	2100. U
39638-32-9	bis(2-Chloroisopropyl)Ether	2100. U	86-73-7	Fluorene	2100. U
106-44-5	4-Methylphenol	2100. U	100-10-6	4-Nitroaniline	10000.U
621-64-7	N-Nitroso-Di-n-Propylamine	2100. U	534-52-1	4,6-Dinitro-2-Methylphenol	10000.U
67[illegible]2-1	Hexachloroethane	2100. U	86-30-6	N-Nitrosodiphenylamine (1)	690. J
98-95-3	Nitrobenzene	2100. U	101-55-3	4-Bromophenyl-phenylether	2100. U
78-59-1	Isophorone	2100. U	118-74-1	Hexachlorobenzene	2100. U
88-75-5	2-Nitrophenol	2100. U	87-86-5	Pentachlorophenol	10000.U
105-67-9	2,4-Dimethylphenol	2100. U	85-01-8	Phenanthrene	340. J
65-85-0	Benzoic Acid	10000.U	120-12-7	Anthracene	2100. U
111-91-1	bis(2-Chloroethoxy)Methane	2100. U	84-74-2	Di-n-Butylphthalate	2100. U
120-83-2	2,4-Dichlorophenol	2100. U	206-44-0	Fluoranthene	2100. U
120-82-1	1,2,4-Trichlorobenzene	2100. U	129-00-0	Pyrene	2100. U
91-20-3	Naphthalene	2100. U	85-68-7	Butylbenzylphthalate	2100. U
106-47-8	4-Chloroaniline	2100. U	91-94-1	3,3'-Dichlorobenzidine	4200. U
87-68-3	Hexachlorobutadiene	2100. U	56-55-3	Benzo(a)Anthracene	2100. U
59-50-7	4-Chloro-3-Methylphenol	2100. U	117-81-7	bis(2-Ethylhexyl)Phthalate	2100. U
91-57-6	2-Methylnaphthalene	2100. U	218-01-9	Chrysene	2100. U
77-47-4	Hexachlorocyclopentadiene	2100. U	117-84-0	Di-n-Octyl Phthalate	2100. U
88-06-2	2,4,6-Trichlorophenol	2100. U	205-99-2	Benzo(b)Fluoranthene	2100. U
95-95-4	2,4,5-Trichlorophenol	10000.U	207-08-9	Benzo(k)Fluoranthene	2100. U
91-58-7	2-Chloronaphthalene	2100. U	50-32-8	Benzo(a)Pyrene	2100. U
88-74-4	2-Nitroaniline	10000.U	193-39-5	Indeno(1,2,3-cd)Pyrene	2100. U
131-11-3	Dimethyl Phthalate	2100. U	53-70-3	Dibenz(a,h)Anthracene	2100. U
208-96-8	Acenaphthylene	2100. U	191-24-2	Benzo(g,h,i)Perylene	2100. U
99-09-2	3-Nitroaniline	10000.U			

(1) - Cannot be separated from diphenylamine

Form I

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 5314 Region: EPA Calibration Date: 12/22/85
Contractor: SPECTRIX CORP. Time: 11:17
Contract No: 69-01-6798 Laboratory ID: ES1222V02A
Instrument ID: 4000 Initial Cali. Date: 12/21/85

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	1.791	1.322	26.2		* *
Bromomethane	0.555	1.235	-122.5		
Vinyl Chloride	1.797	1.367	23.9	*	
Chloroethane	0.777	0.684	12.0		
Methylene Chloride	1.354	1.191	12.0		
Acetone	0.325	0.293	9.8		
Carbon Disulfide	5.625	4.487	20.2		
1,1-Dichloroethene	1.103	0.924	16.2	*	
1,1-Dichloroethane	2.648	2.322	12.3		* *
Trans-1,2-Dichloroethene	1.284	1.084	15.6		
Chloroform	3.405	2.884	15.3	*	
1,2-Dichloroethane	2.580	2.255	12.6		
2-Butanone	0.025	0.039	-56.0		
1,1,1-Trichloroethane	0.726	0.592	18.5		
Carbon Tetrachloride	0.678	0.550	18.9		
Vinyl Acetate	0.283	0.180	36.4		
Bromodichloromethane	0.906	0.731	19.3		
1,2-Dichloropropane	0.414	0.365	11.8	*	
Trans-1,3-Dichloroproene	0.247	0.210	15.0		
Trichloroethene	0.470	0.368	21.7		
Dibromochloromethane	0.823	0.631	23.3		
1,1,2-Trichloroethane	0.419	0.321	23.4		
Benzene	1.027	0.837	18.5		
cis-1,3-Dichloropropene	0.659	0.525	20.3		
2-Chloroethylvinylether	0.063	0.053	15.9		
Bromoform	0.610	0.421	31.0		* *
4-Methyl-2-Pentanone	0.310	0.202	34.8		
2-Hexanone	0.420	0.310	26.2		
Tetrachloroethene	0.527	0.407	22.8		
1,1,2,2-Tetrachloroethane	0.745	0.553	25.8		* *
Toluene	0.812	0.686	15.5	*	
Chlorobenzene	1.052	0.845	19.7		* *
Ethylbenzene	0.503	0.420	16.5	*	
Styrene	1.382	1.088	21.3		
Total Xylenes	0.840	0.687	18.2		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 5314 Region: EPA Calibration Date: 12/23/85
Contractor: SPECTRIX CORP. Time: 15:18
Contract No: 69-01-6798 Laboratory ID: ES1223V02
Instrument ID: 4000 Initial Cali. Date: 12/21/85

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	1.791	1.729	3.5		**
Bromomethane	0.555	2.320	-318.0		
Vinyl Chloride	1.797	1.941	-8.0	*	
Chloroethane	0.777	0.893	-14.9		
Methylene Chloride	1.354	1.472	-8.7		
Acetone	0.325	0.496	-52.6		
Carbon Disulfide	5.625	5.059	10.1		
1,1-Dichloroethene	1.103	1.135	-2.9	*	
1,1-Dichloroethane	2.648	2.227	15.9		**
Trans-1,2-Dichloroethene	1.284	1.288	-0.3		
Chloroform	3.405	2.661	21.9	*	
1,2-Dichloroethane	2.580	1.656	35.8		
2-Butanone	0.025	0.055	-120.0		
1,1,1-Trichloroethane	0.726	0.468	35.5		
Carbon Tetrachloride	0.678	0.436	35.7		
Vinyl Acetate	0.283	0.220	22.3		
Bromodichloromethane	0.906	0.607	33.0		
1,2-Dichloropropane	0.414	0.368	11.1	*	
Trans-1,3-Dichloroproene	0.247	0.190	23.1		
Trichloroethene	0.470	0.374	20.4		
Dibromochloromethane	0.823	0.565	31.3		
1,1,2-Trichloroethane	0.419	0.338	19.3		
Benzene	1.027	0.898	12.6		
cis-1,3-Dichloropropene	0.659	0.478	27.5		
2-Chloroethylvinylether	0.063	0.047	25.4		
Bromoform	0.610	0.421	31.0		**
4-Methyl-2-Pentanone	0.310	0.150	51.6		
2-Hexanone	0.420	0.256	39.0		
Tetrachloroethene	0.527	0.409	22.4		
1,1,2,2-Tetrachloroethane	0.745	0.589	20.9		**
Toluene	0.812	0.736	9.4	*	
Chlorobenzene	1.052	0.907	13.8		**
Ethylbenzene	0.503	0.454	9.7	*	
Styrene	1.382	1.132	18.1		
Total Xylenes	0.840	0.743	11.5		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 5314 Region: EPA Calibration Date: 12/28/85
Contractor: SPECTRIX CORP. Time: 07:47
Contract No: 68-01-6798 Laboratory ID: ES1228V02
Instrument ID: 4000 Initial Cali. Date: 12/27/85

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	0.312	0.372	-19.2		* *
Bromomethane	2.224	2.776	-24.8		
Vinyl Chloride	0.240	0.293	-22.1	*	
Chloroethane	0.946	0.819	13.4		
Methylene Chloride	1.397	1.394	0.2		
Acetone	0.339	0.348	-2.7		
Carbon Disulfide	4.573	4.010	12.3		
1,1-Dichloroethene	1.255	1.106	11.9	*	
1,1-Dichloroethane	2.531	2.126	16.0		* *
Trans-1,2-Dichloroethene	1.364	1.219	10.6		
Chloroform	3.154	2.704	14.3	*	
1,2-Dichloroethane	1.966	1.621	17.5		
2-Butanone	0.039	0.271	-594.9		
1,1,1-Trichloroethane	0.509	0.449	11.8		
Carbon Tetrachloride	0.556	0.485	12.8		
Vinyl Acetate	0.127	0.068	46.5		
Bromodichloromethane	0.715	0.622	13.0		
1,2-Dichloropropane	0.420	0.354	15.7	*	
Trans-1,3-Dichloroproene	0.207	0.188	9.2		
Trichloroethene	0.487	0.437	10.3		
Dibromochloromethane	0.745	0.682	8.5		
1,1,2-Trichloroethane	0.404	0.364	9.9		
Benzene	1.020	0.866	15.1		
cis-1,3-Dichloropropene	0.596	0.515	13.6		
2-Chloroethylvinylether	0.067	0.171	-155.2		
Bromoform	0.589	0.574	2.5		* *
4-Methyl-2-Pentanone	0.259	0.263	-1.5		
2-Hexanone	0.340	0.263	22.6		
Tetrachloroethene	0.504	0.506	-0.4		
1,1,2,2-Tetrachloroethane	0.652	0.610	6.4		* *
Toluene	0.799	0.718	10.1	*	
Chlorobenzene	1.062	1.013	4.6		* *
Ethylbenzene	0.520	0.485	6.7	*	
Styrene	1.448	1.274	12.0		
Total Xylenes	0.885	0.806	8.9		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

Case No: 5314 Region: EPA Calibration Date: 01/08/86
Contractor: SPECTRIX CORP. Time: 11:16
Contract No: 68-01-6798 Laboratory ID: ES0108C02
Instrument ID: 4500 Initial Cali. Date: 12/30/85

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
Phenol		1.861	2.108	-13.3	*	
bis(2-Chloroethyl)Ether		1.992	2.146	-7.7		
2-Chlorophenol		1.305	1.528	-17.1		
1,3-Dichlorobenzene		1.354	1.571	-16.0		
1,4-Dichlorobenzene		1.543	1.793	-16.2	*	
Benzyl Alcohol		0.561	0.681	-21.4		
1,2-Dichlorobenzene		1.331	1.564	-17.5		
2-Methylphenol		1.110	1.251	-12.7		
bis(2-Chloroisopropyl)Ether		4.100	5.445	-32.8		
4-Methylphenol		1.005	1.071	-6.6		
N-Nitroso-Di-n-Propylamine		1.078	1.345	-24.8		* *
Hexachloroethane		0.701	0.861	-22.8		
Nitrobenzene		0.348	0.505	-45.1		
Isophorone		0.665	1.018	-53.1		
2-Nitrophenol		0.123	0.143	-16.3	*	
2,4-Dimethylphenol		0.240	0.276	-15.0		
Benzoic Acid	x	0.033	0.020	39.4		
bis(2-Chloroethoxy)Methane		0.492	0.576	-17.1		
2,4-Dichlorophenol		0.217	0.239	-10.1	*	
1,2,4-Trichlorobenzene		0.301	0.341	-13.3		
Naphthalene		1.021	1.207	-18.2		
4-Chloroaniline		0.201	0.165	17.9		
Hexachlorobutadiene		0.174	0.211	-21.3	*	
4-Chloro-3-Methylphenol		0.211	0.251	-19.0	*	
2-Methylnaphthalene		0.666	0.781	-17.3		
Hexachlorocyclopentadiene		0.224	0.210	6.3		* *
2,4,6-Trichlorophenol		0.353	0.362	-2.5	*	
2,4,5-Trichlorophenol	x	0.344	0.307	10.8		
2-Chloronaphthalene		1.274	1.446	-13.5		
2-Nitroaniline	x	0.263	0.289	-9.9		
Dimethyl Phthalate		1.088	1.169	-7.4		
Acenaphthylene		1.912	2.157	-12.8		
3-Nitroaniline	x	0.102	0.146	-43.1		
Acenaphthene		1.165	1.304	-11.9	*	
2,4-Dinitrophenol	x	0.068	0.061	10.3		* *
4-Nitrophenol	x	0.127	0.168	-32.3		* *
Dibenzofuran		1.469	1.627	-10.8		

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 2)

Case No: 5314 Region: EPA Calibration Date: 01/08/86
Contractor: SPECTRIX CORP. Time: 11:16
Contract No: 68-01-6798 Laboratory ID: ES0108C02
Instrument ID: 4500 Initial Cali. Date: 12/30/85

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
2,4-Dinitrotoluene		0.213	0.266	-24.9		
2,6-Dinitrotoluene		0.180	0.251	-39.4		
Diethylphthalate		1.150	1.230	-7.0		
4-Chlorophenyl-phenylether . .		0.612	0.655	-7.0		
Fluorene		1.179	1.356	-15.0		
4-Nitroaniline	x	0.135	0.050	63.0		
4,6-Dinitro-2-Methylphenol . .	x	0.081	0.077	4.9		
N-Nitrosodiphenylamine (1) . .		0.479	0.478	0.2	*	
4-Bromophenyl-phenylether . .		0.225	0.209	7.1		
Hexachlorobenzene		0.269	0.298	-10.8		
Pentachlorophenol	x	0.105	0.111	-5.7	*	
Phenanthrene		1.095	1.172	-7.0		
Anthracene		0.980	0.996	-1.6		
Di-n-Butylphthalate		1.205	1.198	0.6		
Fluoranthene		0.912	0.934	-2.4	*	
Pyrene		1.468	1.356	7.6		
Butylbenzylphthalate		0.692	0.784	-13.3		
3,3'-Dichlorobenzidine		0.099	0.107	-8.1		
Benzo(a)Anthracene		1.108	1.197	-8.0		
bis(2-Ethylhexyl)Phthalate . .		1.018	1.598	-57.0		
Chrysene		1.067	1.164	-9.1		
Di-n-Octyl Phthalate		3.305	3.827	-15.8	*	
Benzo(b)Fluoranthene		1.852	2.093	-13.0		
Benzo(k)Fluoranthene		1.852	2.093	-13.0		
Benzo(a)Pyrene		1.488	1.663	-11.8	*	
Indeno(1,2,3-cd)Pyrene		1.497	1.849	-23.5		
Dibenz(a,h)Anthracene		1.161	1.409	-21.4		
Benzo(g,h,i)Perylene		1.222	1.476	-20.8		

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Cannot be separated from diphenylamine

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

Case No: 5314 Region: EPA Calibration Date: 01/09/86
Contractor: SPECTRIX CORP. Time: 09:20
Contract No: 68-01-6798 Laboratory ID: ES0109C02
Instrument ID: 4500 Initial Cali. Date: 12/30/85

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
Phenol		1.861	2.238	20.240	*	
bis(2-Chloroethyl)Ether		1.992	2.240	12.468		
2-Chlorophenol		1.305	1.564	19.833		
1,3-Dichlorobenzene		1.354	1.621	19.662		
1,4-Dichlorobenzene		1.543	1.784	15.606	*	
Benzyl Alcohol		0.561	0.761	35.674		NOT
1,2-Dichlorobenzene		1.331	1.557	16.965		
2-Methylphenol		1.110	1.249	12.440		
bis(2-Chloroisopropyl)Ether		4.100	5.063	23.487		
4-Methylphenol		1.005	1.152	14.700		
N-Nitroso-Di-n-Propylamine		1.078	1.379	27.909		* *
Hexachloroethane		0.701	0.871	24.278		
Nitrobenzene		0.348	0.516	48.451		
Isophorone		0.665	1.063	59.673		
2-Nitrophenol		0.123	0.149	21.689	*	
2,4-Dimethylphenol		0.240	0.316	31.552		
Benzoic Acid	x	0.033	0.014	-57.561		
bis(2-Chloroethoxy)Methane		0.492	0.593	20.585		
2,4-Dichlorophenol		0.216	0.216	-0.082	*	
1,2,4-Trichlorobenzene		0.301	0.360	19.477		
Naphthalene		1.021	1.141	11.726		
4-Chloroaniline		0.201	0.156	-22.345		
Hexachlorobutadiene		0.173	0.209	20.155	*	
4-Chloro-3-Methylphenol		0.211	0.232	9.735	*	
2-Methylnaphthalene		0.665	0.772	15.982		
Hexachlorocyclopentadiene		0.224	0.273	21.707		* *
2,4,6-Trichlorophenol		0.353	0.400	13.346	*	
2,4,5-Trichlorophenol	x	0.303	0.356	17.793		
2-Chloronaphthalene		1.274	1.402	10.099		
2-Nitroaniline	x	0.261	0.339	29.705		
Dimethyl Phthalate		1.089	1.194	9.713		
Acenaphthylene		1.912	2.043	6.826		
3-Nitroaniline	x	0.093	0.172	84.834		
Acenaphthene		1.165	1.244	6.787	*	
2,4-Dinitrophenol	x	0.068	0.067	-1.995		* *
4-Nitrophenol	x	0.123	0.176	42.748		* *
Dibenzofuran		1.469	1.644	11.957		

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 2)

Case No: 5314 Region: EPA Calibration Date: 01/09/86
Contractor: SPECTRIX CORP. Time: 09:20
Contract No: 68-01-6798 Laboratory ID: ES0109C02
Instrument ID: 4500 Initial Cali. Date: 12/30/85

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
2,4-Dinitrotoluene		0.213	0.299	40.454		
2,6-Dinitrotoluene		0.180	0.286	58.624		
Diethylphthalate		1.150	1.288	12.023		
4-Chlorophenyl-phenylether		0.612	0.637	4.043		
Fluorene		1.179	1.327	12.599		
4-Nitroaniline	x	0.134	0.228	70.597		
4,6-Dinitro-2-Methylphenol	x	0.081	0.085	4.670		
N-Nitrosodiphenylamine (1)		0.480	0.483	0.715	*	
4-Bromophenyl-phenylether		0.225	0.233	3.409		
Hexachlorobenzene		0.269	0.337	25.325		
Pentachlorophenol	x	0.094	0.085	-9.760	*	
Phenanthrene		1.095	1.082	-1.214		
Anthracene		0.980	0.988	0.845		
Di-n-Butylphthalate		1.205	1.225	1.683		
Fluoranthene		0.912	1.016	11.411	*	
Pyrene		1.469	1.496	1.886		
Butylbenzylphthalate		0.692	0.813	17.375		
3[illegible]-Dichlorobenzidine		0.099	0.131	32.553		
Benzo(a)Anthracene		1.107	1.259	13.640		
bis(2-Ethylhexyl)Phthalate		1.018	1.182	16.144		
Chrysene		1.066	1.179	10.579		
Di-n-Octyl Phthalate		3.305	3.174	-3.980	*	
Benzo(b)Fluoranthene		1.852	1.884	1.742		
Benzo(k)Fluoranthene		1.852	1.884	1.742		
Benzo(a)Pyrene		1.488	1.621	8.968	*	
Indeno(1,2,3-cd)Pyrene		1.497	1.979	32.167		
Dibenz(a,h)Anthracene		1.161	1.559	34.241		
Benzo(g,h,i)Perylene		1.221	1.623	32.888		

NOT

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Cannot be separated from diphenylamine

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 2)

Case No: 5314 Region: EPA Calibration Date: 01/14/86
Contractor: SPECTRIX CORP. Time: 09:46
Contract No: 68-01-6798 Laboratory ID: ES0114C02
Instrument ID: 4500 Initial Cali. Date: 01/13/86

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
2,4-Dinitrotoluene		0.220	0.191	13.2		
2,6-Dinitrotoluene		0.212	0.190	10.4		
Diethylphthalate		0.995	1.091	-9.6		
4-Chlorophenyl-phenylether . .		0.464	0.488	-5.2		
Fluorene		1.084	1.161	-7.1		
4-Nitroaniline	x	0.175	0.161	8.0		
4,6-Dinitro-2-Methylphenol . .	x	0.073	0.048	34.2		
N-Nitrosodiphenylamine (1) . .		0.577	0.530	8.1	*	
4-Bromophenyl-phenylether . .		0.209	0.204	2.4		
Hexachlorobenzene		0.228	0.262	-14.9		
Pentachlorophenol	x	0.096	0.114	-18.8	*	
Phenanthrene		1.051	1.062	-1.0		
Anthracene		1.075	1.032	4.0		
Di-n-Butylphthalate		1.428	1.324	7.3		
Fluoranthene		0.889	0.939	-5.6	*	
Pyrene		1.583	1.554	1.8		
Butylbenzylphthalate		1.010	0.872	13.7		
3[illegible]'-Dichlorobenzidine		0.153	0.112	26.8		
Benzo(a)Anthracene		1.152	1.082	6.1		
bis(2-Ethylhexyl)Phthalate . .		1.424	1.430	-0.4		
Chrysene		1.139	1.041	8.6		
Di-n-Octyl Phthalate		4.011	4.408	-9.9	*	
Benzo(b)Fluoranthene		1.759	1.884	-7.1		
Benzo(k)Fluoranthene		1.759	1.884	-7.1		
Benzo(a)Pyrene		1.411	1.332	5.6	*	
Indeno(1,2,3-cd)Pyrene		1.577	1.413	10.4		
Dibenz(a,h)Anthracene		1.294	1.206	6.8		
Benzo(g,h,i)Perylene		1.216	1.157	4.9		

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Cannot be separated from diphenylamine

Form VII

SPECTRIX D.C. # 5314-06- 17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

Case No: 5314 Region: EPA Calibration Date: 01/14/86
Contractor: SPECTRIX CORP. Time: 09:46
Contract No: 68-01-6798 Laboratory ID: ES0114C02
Instrument ID: 4500 Initial Cali. Date: 01/13/86

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
Phenol		2.166	2.047	5.5	*	
bis(2-Chloroethyl)Ether		2.292	2.374	-3.6		
2-Chlorophenol		1.494	1.376	7.9		
1,3-Dichlorobenzene		1.445	1.231	14.8		
1,4-Dichlorobenzene		1.493	1.429	4.3	*	
Benzyl Alcohol		0.188	0.036	80.9		
1,2-Dichlorobenzene		1.333	1.138	14.6		
2-Methylphenol		1.336	1.080	19.2		
bis(2-Chloroisopropyl)Ether		6.643	6.206	6.6		
4-Methylphenol		1.164	0.893	23.3		
N-Nitroso-Di-n-Propylamine		1.621	1.399	13.7		* *
Hexachloroethane		0.847	0.731	13.7		
Nitrobenzene		0.560	0.462	17.5		
Isophorone		1.047	0.891	14.9		
2-Nitrophenol		0.163	0.168	-3.1	*	
2,4-Dimethylphenol		0.285	0.206	27.7		
Benzoic Acid	x	0.012	0.011	8.3		
bis(2-Chloroethoxy)Methane		0.653	0.585	10.4		
2,4-Dichlorophenol		0.211	0.198	6.2	*	
1,2,4-Trichlorobenzene		0.282	0.242	14.2		
Naphthalene		1.075	1.093	-1.7		
4-Chloroaniline		0.148	0.154	-4.1		
Hexachlorobutadiene		0.149	0.130	12.8	*	
4-Chloro-3-Methylphenol		0.271	0.223	17.7	*	
2-Methylnaphthalene		0.870	0.780	10.3		
Hexachlorocyclopentadiene		0.205	0.134	34.6		* *
2,4,6-Trichlorophenol		0.294	0.238	19.0	*	
2,4,5-Trichlorophenol	x	0.322	0.285	11.5		
2-Chloronaphthalene		1.298	1.112	14.3		
2-Nitroaniline	x	0.312	0.243	22.1		
Dimethyl Phthalate		0.956	0.934	2.3		
Acenaphthylene		1.965	1.985	-1.0		
3-Nitroaniline	x	0.147	0.121	17.7		
Acenaphthene		1.192	1.191	0.1	*	
2,4-Dinitrophenol	x	0.074	0.050	32.4		* *
4-Nitrophenol	x	0.139	0.114	18.0		* *
Dibenzofuran		1.428	1.318	7.7		

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
% D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)

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Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

Case No: 5314 Region: EPA Calibration Date: 01/15/86
Contractor: SPECTRIX CORP. Time: 09:43
Contract No: 68-01-6798 Laboratory ID: ES0115C02
Instrument ID: 4500 Initial Cali. Date: 01/13/86

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
Phenol		2.166	1.909	11.9	*	
bis(2-Chloroethyl)Ether		2.292	2.208	3.7		
2-Chlorophenol		1.494	1.406	5.9		
1,3-Dichlorobenzene		1.445	1.254	13.2		
1,4-Dichlorobenzene		1.493	1.432	4.1	*	
Benzyl Alcohol		0.188	0.146	22.3		
1,2-Dichlorobenzene		1.333	1.218	8.6		
2-Methylphenol		1.336	1.242	7.0		
bis(2-Chloroisopropyl)Ether		6.643	5.812	12.5		
4-Methylphenol		1.164	0.818	29.7		
N-Nitroso-Di-n-Propylamine		1.621	1.403	13.4		* *
Hexachloroethane		0.847	0.736	13.1		
Nitrobenzene		0.560	0.467	16.6		
Isophorone		1.047	0.876	16.3		
2-Nitrophenol		0.163	0.168	-3.1	*	
2,4-Dimethylphenol		0.285	0.213	25.3		
Benzoic Acid	x	0.012	0.013	-8.3		
bis(2-Chloroethoxy)Methane		0.653	0.561	14.1		
2,4-Dichlorophenol		0.211	0.212	-0.5	*	
1,2,4-Trichlorobenzene		0.282	0.256	9.2		
Naphthalene		1.075	1.083	-0.7		
4-Chloroaniline		0.148	0.150	-1.4		
Hexachlorobutadiene		0.149	0.146	2.0	*	
4-Chloro-3-Methylphenol		0.271	0.248	8.5	*	
2-Methylnaphthalene		0.870	0.785	9.8		
Hexachlorocyclopentadiene		0.205	0.124	39.5		* *
2,4,6-Trichlorophenol		0.294	0.251	14.6	*	
2,4,5-Trichlorophenol	x	0.322	0.251	22.0		
2-Chloronaphthalene		1.298	1.149	11.5		
2-Nitroaniline	x	0.312	0.252	19.2		
Dimethyl Phthalate		0.956	0.902	5.6		
Acenaphthylene		1.965	1.951	0.7		
3-Nitroaniline	x	0.147	0.034	76.9		
Acenaphthene		1.192	1.160	2.7	*	
2,4-Dinitrophenol	x	0.074	0.061	17.6		* *
4-Nitrophenol	x	0.139	0.101	27.3		* *
Dibenzofuran		1.428	1.279	10.4		

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)

Form VII

SPECTRIX D.C. # 5314-06-17

CONTINUING CALIBRATION CHECK
SEMIVOLATILE HSL COMPOUNDS
(Page 2)

Case No: 5314 Region: EPA Calibration Date: 01/15/86
Contractor: SPECTRIX CORP. Time: 09:43
Contract No: 68-01-6798 Laboratory ID: ES0115C02
Instrument ID: 4500 Initial Cali. Date: 01/13/86

Minimum RF for SPCC is 0.050 Maximum %D for CCC is 25%

Compound		AVE RF	RF(50)	% D	CCC	SPCC
2,4-Dinitrotoluene		0.220	0.183	16.8		
2,6-Dinitrotoluene		0.212	0.184	13.2		
Diethylphthalate		0.995	1.023	-2.8		
4-Chlorophenyl-phenylether . .		0.464	0.473	-1.9		
Fluorene		1.084	1.112	-2.6		
4-Nitroaniline	x	0.175	0.019	89.1		
4,6-Dinitro-2-Methylphenol . .	x	0.073	0.067	8.2		
N-Nitrosodiphenylamine (1) . .		0.577	0.476	17.5	*	
4-Bromophenyl-phenylether . .		0.209	0.185	11.5		
Hexachlorobenzene		0.228	0.240	-5.3		
Pentachlorophenol	x	0.096	0.095	1.0	*	
Phenanthrene		1.051	1.040	1.0		
Anthracene		1.075	0.990	7.9		
Di-n-Butylphthalate		1.428	1.257	12.0		
Fluoranthene		0.889	0.932	-4.8	*	
Pyrene		1.583	1.209	23.6		
Butylbenzylphthalate		1.010	0.696	31.1		
3,3'-Dichlorobenzidine		0.153	0.116	24.2		
Benzo(a)Anthracene		1.152	1.062	7.8		
bis(2-Ethylhexyl)Phthalate . .		1.424	1.136	20.2		
Chrysene		1.139	1.024	10.1		
Di-n-Octyl Phthalate		4.011	3.816	4.9	*	
Benzo(b)Fluoranthene		1.759	1.967	-11.8		
Benzo(k)Fluoranthene		1.759	2.033	-15.6		
Benzo(a)Pyrene		1.411	1.345	4.7	*	
Indeno(1,2,3-cd)Pyrene		1.577	1.462	7.3		
Dibenz(a,h)Anthracene		1.294	1.223	5.5		
Benzo(g,h,i)Perylene		1.216	1.131	7.0		

RF(50) - Response Factor from daily standard file at concentration indicated (50 total nanograms)
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
x - - - Due to low response analyze at 80 total nanograms
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Cannot be separated from diphenylamine

Form VII

Environmental Protection Agency CLP Sample Management Office
P. O. Box 818 Alexandria Virginia 22313 703 557-2490

53146-8

Sample Number
Instrument DL
4000

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX
Case No: 5314
Lab Sample ID No:
QC Report No: 157
Sample Matrix: WATER
Contract No: 68-01-6798
Data Release Authorized By: MKF
Date Sample Received: —

Sun Refinery + Marketing
OKD058078775

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed: 9/5/84
Conc/Dil Factor: pH
Percent Moisture:
Percent Moisture (Decanted):

SUPERFUND FILE
AUG 27 1992
REORGANIZED

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	18
74-83-9	Bromomethane	2.4
75-01-4	Vinyl Chloride	6.5
75-00-3	Chloroethane	0.6
75-09-2	Methylene Chloride	1.6
67-64-1	Acetone	5.6
75-15-0	Carbon Disulfide	2.6
75-35-4	1, 1-Dichloroethene	.17
75-34-3	1, 1-Dichloroethane	2.1
156-60-5	Trans-1, 2-Dichloroethene	1.8
67-66-3	Chloroform	2.9
107-06-2	1, 2-Dichloroethane	2.6
78-93-3	2-Butanone	43
71-55-6	1, 1, 1-Trichloroethane	1.1
56-23-5	Carbon Tetrachloride	1.4
108-05-4	Vinyl Acetate	9.9
75-27-4	Bromodichloromethane	1.5

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	2.2
78-87-5	1, 2-Dichloropropane	.96
10061-02-6	Trans-1, 3-Dichloropropene	.35
79-01-6	Trichloroethene	2.4
124-48-1	Dibromochloromethane	.76
79-00-5	1, 1, 2-Trichloroethane	1.4
71-43-2	Benzene	2.4
10061-01-5	cis-1, 3-Dichloropropene	1.2
110-75-8	2-Chloroethylvinylether	5.8
75-25-2	Bromoform	.35
591-78-6	2-Hexanone	1.2
108-10-1	4-Methyl-2-Pentanone	.69
127-18-4	Tetrachloroethene	.46
108-88-3	Toluene	.76
108-90-7	Chlorobenzene	1.8
100-41-4	Ethylbenzene	1.1
100-42-5	Styrene	1.5
	Total Xylenes	1.7

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

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

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

SPECTRIX DC # 5314 - 6 -8

Environmental Protection Agency, CLP Sample Management Office,
P. O Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
Instrument
DL
Inst: 4530

Spectrix

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	11
108-95-2	Phenol	7.9
62-53-3	Aniline	~~8.0~~ 7.9
111-44-4	bis(-2-Chloroethyl)Ether	~~8.0~~ 7.9
95-57-8	2-Chlorophenol	10
541-73-1	1, 3-Dichlorobenzene	6.0
106-46-7	1, 4-Dichlorobenzene	7.9
100-51-6	Benzyl Alcohol	13
95-50-1	1, 2-Dichlorobenzene	9.6
95-48-7	2-Methylphenol	6.2
39638-32-9	bis(2-chloroisopropyl)Ether	5.2
106-44-5	4-Methylphenol	7.5
621-64-7	N-Nitroso-Di-n-Propylamine	1.7
67-72-1	Hexachloroethane	14
98-95-3	Nitrobenzene	4.6
78-59-1	Isophorone	1.7
88-75-5	2-Nitrophenol	1.7
105-67-9	2, 4-Dimethylphenol	1.7
65-85-0	Benzoic Acid	11
111-91-1	bis(-2-Chloroethoxy)Methane	0
120-83-2	2, 4-Dichlorophenol	3.5
120-82-1	1, 2, 4-Trichlorobenzene	0
91-20-3	Naphthalene	~~45~~ 0
106-47-8	4-Chloroaniline	45
87-68-3	Hexachlorobutadiene	3.5
59-50-7	4-Chloro-3-Methylphenol	4.6
91-57-6	2-Methylnaphthalene	4.6
77-47-4	Hexachlorocyclopentadiene	3.5
88-06-2	2, 4, 6-Trichlorophenol	1.7
95-95-4	2, 4, 5-Trichlorophenol	9.6
91-58-7	2-Chloronaphthalene	1.7
88-74-4	2-Nitroaniline	3.0
131-11-3	Dimethyl Phthalate	1.7
208-96-8	Acenaphthylene	1.7
99-09-2	3-Nitroaniline	13

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	1.7
51-28-5	2, 4-Dinitrophenol	8.7
100-02-7	4-Nitrophenol	6.0
132-64-9	Dibenzofuran	1.7
121-14-2	2, 4-Dinitrotoluene	5.2
606-20-2	2, 6-Dinitrotoluene	3.5
84-66-2	Diethylphthalate	3.0
7005-72-3	4-Chlorophenyl-phenylether	1.7
86-73-7	Fluorene	3.0
100-01-6	4-Nitroaniline	18
534-52-1	4, 6-Dinitro-2-Methylphenol	1.7
86-30-6	N-Nitrosodiphenylamine (1)	3.0
101-55-3	4-Bromophenyl-phenylether	1.7
118-74-1	Hexachlorobenzene	1.7
87-86-5	Pentachlorophenol	1.7
85-01-8	Phenanthrene	1.7
120-12-7	Anthracene	5.2
84-74-2	Di-n-Butylphthalate	0
206-44-0	Fluoranthene	3.0
92-87-5	Benzidine	23
129-00-0	Pyrene	4.6
85-68-7	Butylbenzylphthalate	1.7
91-94-1	3, 3'-Dichlorobenzidine	10
56-55-3	Benzo(a)Anthracene	1.7
117-81-7	bis(2-Ethylhexyl)Phthalate	3
218-01-9	Chrysene	1.7
117-84-0	Di-n-Octyl Phthalate	7.5
205-99-2	Benzo(b)Fluoranthene	6.2
207-08-9	Benzo(k)Fluoranthene	6.2
50-32-8	Benzo(a)Pyrene	1.7
193-39-5	Indeno(1, 2, 3-cd)Pyrene	9.0
53-70-3	Dibenz(a, h)Anthracene	7.9
191-24-2	Benzo(g, h, i)Perylene	9.0

(1)-Cannot be separated from diphenylamine

SPECTRIX DC #5314 - 6 -8

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703 557-2490

Sample Number
GC/MS DL

Inst: 4530

Spectrix

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	6.9
319-85-7	Beta-BHC	6.9
319-86-8	Delta-BHC	3.5
58-89-9	Gamma-BHC (Lindane)	3.0
76-44-8	Heptachlor	6.9
309-00-2	Aldrin	3.0
1024-57-3	Heptachlor Epoxide	3.5
959-98-8	Endosulfan I	8.7
60-57-1	Dieldrin	11
72-55-9	4, 4'-DDE	7.9
72-20-8	Endrin	17
33213-65-9	Endosulfan II	4.6
72-54-8	4, 4'-DDD	4.6
7421-93-4	Endrin Aldehyde	14
1031-07-8	Endosulfan Sulfate	7.5
50-29-3	4, 4'-DDT	6.2
72-43-5	Methoxychlor	17
53494-70-5	Endrin Ketone	30
57-74-9	Chlordane	40
8001-35-2	Toxaphene	7.5
12674-11-2	Aroclor-1016	14
11104-28-2	Aroclor-1221	41
11141-16-5	Aroclor-1232	15
53469-21-9	Aroclor-1242	26
12672-29-6	Aroclor-1248	18
11097-69-1	Aroclor-1254	270
11096-82-5	Aroclor-1260	66

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

000858

Sun Refinery + Marketing
OKD058078775

SPECTRIX
CORPORATION

Orig

Shelley L. Neeld

February 18, 1986

Attached is additional data (reanalyses) for case 5314. Please add to case folder which is in your possession.

Feel free to contact the Organics Project Manager, Ted Osterman, if you have any questions.

Thank you for your cooperation.

SUPERFUND FILE

AUG 27 1992

RGANIZED

CASE # 5314-6 VOLATILE CROSS REFERENCE

CALIB STD DATE: 1-29-86

SAMPLE NUMBER	FILENAME	DATE & TIME
BFB	ES0120V01	01/20/86 8:35
50UG/L STD	ES0120V02	01/20/86 9:32
MB6	EB01033V03	01/20/86 15:03
FC406	EU12052V25A	01/20/86 15:43

Case 5314
OK 1911

OKD058078775

DC #5314-6-8

TTO

SOIL SURROGATE PERCENT RECOVERY SUMMARY
(Page 1)

Case No. 5314 Contract Laboratory SPECTRIX CORP. Contract No. 69-01-6798
Low XXX Medium

	VOLATILE			SEMI-VOLATILE							PEST
SMO TRAFFIC NO.	Toluene-d8	BFB	1,2-Dichloroethane-d4	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14		Phenol-d5	2-Fluorophenyl	2,4,6-Tribromophenol	Dibutylchlorendate**
	81	74	70	23	30	18		24	25	19	20
	117	121	121	120	115	138		113	121	122	150
FC406	129*	78	101	DL	DL	DL		DL	DL	DL	NR
FC406RE	115	82	85	NR	NR	NR		NR	NR	NR	NR
MB6RE	98	109	90	NR	NR	NR		NR	NR	NR	NR

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles: 0 out of 6 outside of QC limits
Semi-Volatiles: — out of 18; outside of QC limits
Pesticides: — out of 3; outside of QC limits

Comments:
NR: NOT REQUIRED
DL: DILUTED OUT

FORM II

METHOD BLANK SUMMARY

D.C. No. 5314-6

Case No. 5453 Region 6 Contractor SPECTRIX CORPORATION Contract No. 68-01-6798, 6865, 7018, 7149

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
850103303	1-20-86	V	SOIL	LOW	4000	67-66-3	CHLOROFORM	4	UG/KG	5 UG/K
↓	↓	↓	↓	↓	↓	108-88-3	TOLUENE	1	UG/KG	5 UG/K
						—	UNKNOWN	13 J	UG/KG	—
						75-31-0	2-PROPANAMINE	30 J	UG/KG	—
						—	UNKNOWN	7 J	UG/KG	—

Comments:

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

D.C. No. 5453-1

Case No. 5453 Contractor SPECTRIX CORPORATION Contract No. 68-01-6798, 6865, 7018, 7149

Instrument ID 4000 Date 1/17/86 Time 8:28

Lab ID ES0117V01 Data Release Authorized By: [illegible]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	28.9
75	30.0 - 60.0% of the base peak	50.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of the base peak	6.9
173	Less than 1.0% of the base peak	<1
174	Greater than 50.0% of the base peak	70.4
175	5.0 - 9.0% of mass 174	4.5 (6.4)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	68.6 (97.4)[1]
177	5.0 - 9.0% of mass 176	4.1 (6.0)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1]Value in parenthesis is % mass 174.
[2]Value in parenthesis is % mass 176.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	ES0117V01	01/17/86	8:28
50UG/L STD	ES0117V02B	01/17/86	11:58
200 UG/L STD	ES0117V03	01/17/86	13:47
150 UG/L STD	ES0117V04	01/17/86	14:24
100 UG/L STD	ES0117V05	01/17/86	15:02
20 UG/L STD	ES0117V06	01/17/86	16:16
MB2	EB01022V02	01/17/86	17:33
AE 708	EU01022V09	01/17/86	18:12
AE 708MS	EU01022V11	01/17/86	18:52
AE 708MSD	EU01022V12	01/17/86	19:32

FORM V 7/85

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

D.C. No. 5453-1

Case No. 5453 Contractor SPECTRIX CORPORATION Contract No. 68-01-6798, 6865, 7018, 7149

Instrument ID 4000 Date 1/20/86 Time 8:35

Lab ID ES0120V01 Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	27.8
75	30.0 - 60.0% of the base peak	48.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of the base peak	7.1
173	Less than 1.0% of the base peak	<1.0
174	Greater than 50.0% of the base peak	67.9
175	5.0 - 9.0% of mass 174	5.3 (7.8)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	65.8 (96.9)[1]
177	5.0 - 9.0% of mass 176	4.8 (7.3)[2]

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
BFB	ES0120V01	01/20/86	8:35
50UG/L STD	ES0120V02	01/20/86	9:32
MB6	EB01033V03	01/20/86	15:03
FC406	EU12052V25A	01/20/86	15:43

SPECTRIX D.C. # 5314-06-8

Sample Number
FB798

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205206
Sample Matrix: SOIL
Data Release Authorized By:

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/18/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/23/85
Date Analyzed: 12/23/85
Conc/Dil Factor: 1. pH 6.20
Percent Moisture: (Not Decanted) 16.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	12. U	78-87-5	1,2-Dichloropropane	6.0U
74-83-9	Bromomethane	12. U	10061-02-6	Trans-1,3-Dichloroproene	6.0U
75-01-4	Vinyl Chloride	12. U	79-01-6	Trichloroethene	6.0U
75-00-3	Chloroethane	12. U	124-48-1	Dibromochloromethane	6.0U
75-09-2	Methylene Chloride	49. B	79-00-5	1,1,2-Trichloroethane	6.0U
67-64-1	Acetone	110.	71-43-2	Benzene	6.0U
75-15-0	Carbon Disulfide	6.0U	10061-01-5	cis-1,3-Dichloropropene	6.0U
75-35-4	1,1-Dichloroethene	6.0U	110-75-8	2-Chloroethylvinylether	12. U
75-34-3	1,1-Dichloroethane	6.0U	75-25-2	Bromoform	6.0U
156-60-5	Trans-1,2-Dichloroethene	6.0U	108-10-1	4-Methyl-2-Pentanone	12. U
67-66-3	Chloroform	6.0U	591-78-6	2-Hexanone	12. U
107-06-2	1,2-Dichloroethane	6.0U	127-18-4	Tetrachloroethene	6.0U
78-93-3	2-Butanone	12. U	79-34-5	1,1,2,2-Tetrachloroethane	6.0U
71-55-6	1,1,1-Trichloroethane	6.0U	108-88-3	Toluene	2.6BJ
56-23-5	Carbon Tetrachloride	6.0U	108-90-7	Chlorobenzene	1.4J
108-05-4	Vinyl Acetate	12. U	100-41-4	Ethylbenzene	6.0U
75-27-4	Bromodichloromethane	6.0U	100-42-5	Styrene	6.0U
				Total Xylenes	6.0U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB798

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/09/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	390. U	83-32-9	Acenaphthene	390. U
111-44-4	bis(2-Chloroethyl)Ether	390. U	51-28-5	2,4-Dinitrophenol	1900. U
95-57-8	2-Chlorophenol	390. U	100-02-7	4-Nitrophenol	1900. U
541-73-1	1,3-Dichlorobenzene	390. U	132-64-9	Dibenzofuran	390. U
106-46-7	1,4-Dichlorobenzene	390. U	121-14-2	2,4-Dinitrotoluene	390. U
100-51-6	Benzyl Alcohol	390. U	606-20-2	2,6-Dinitrotoluene	390. U
95-50-1	1,2-Dichlorobenzene	390. U	84-66-2	Diethylphthalate	390. U
95-48-7	2-Methylphenol	390. U	7005-72-3	4-Chlorophenyl-phenylether	390. U
39638-32-9	bis(2-Chloroisopropyl)Ether	390. U	86-73-7	Fluorene	390. U
106-44-5	4-Methylphenol	390. U	100-10-6	4-Nitroaniline	1900. U
621-64-7	N-Nitroso-Di-n-Propylamine	390. U	534-52-1	4,6-Dinitro-2-Methylphenol	1900. U
67[illegible]2-1	Hexachloroethane	390. U	86-30-6	N-Nitrosodiphenylamine (1)	390. U
98-95-3	Nitrobenzene	390. U	101-55-3	4-Bromophenyl-phenylether	390. U
78-59-1	Isophorone	390. U	118-74-1	Hexachlorobenzene	390. U
88-75-5	2-Nitrophenol	390. U	87-86-5	Pentachlorophenol	1900. U
105-67-9	2,4-Dimethylphenol	390. U	85-01-8	Phenanthrene	390. U
65-85-0	Benzoic Acid	1900. U	120-12-7	Anthracene	390. U
111-91-1	bis(2-Chloroethoxy)Methane	390. U	84-74-2	Di-n-Butylphthalate	390. U
120-83-2	2,4-Dichlorophenol	390. U	206-44-0	Fluoranthene	390. U
120-82-1	1,2,4-Trichlorobenzene	390. U	129-00-0	Pyrene	390. U
91-20-3	Naphthalene	390. U	85-68-7	Butylbenzylphthalate	390. U
106-47-8	4-Chloroaniline	390. U	91-94-1	3,3'-Dichlorobenzidine	790. U
87-68-3	Hexachlorobutadiene	390. U	56-55-3	Benzo(a)Anthracene	390. U
59-50-7	4-Chloro-3-Methylphenol	390. U	117-81-7	bis(2-Ethylhexyl)Phthalate ~~5016.~~	J NOT
91-57-6	2-Methylnaphthalene	390. U	218-01-9	Chrysene	390. U
77-47-4	Hexachlorocyclopentadiene	390. U	117-84-0	Di-n-Octyl Phthalate	390. U
88-06-2	2,4,6-Trichlorophenol	390. U	205-99-2	Benzo(b)Fluoranthene	390. U
95-95-4	2,4,5-Trichlorophenol	1900. U	207-08-9	Benzo(k)Fluoranthene	390. U
91-58-7	2-Chloronaphthalene	390. U	50-32-8	Benzo(a)Pyrene	390. U
88-74-4	2-Nitroaniline	1900. U	193-39-5	Indeno(1,2,3-cd)Pyrene	390. U
131-11-3	Dimethyl Phthalate	390. U	53-70-3	Dibenz(a,h)Anthracene	390. U
208-96-8	Acenaphthylene	390. U	191-24-2	Benzo(g,h,i)Perylene	390. U
99-09-2	3-Nitroaniline	1900. U			

(1) - Cannot be separated from diphenylamine

Form I

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FB798

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C06

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/KG
108-21-4	Acetic Acid, 1-Methylethyl Ester	302	801	2000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	344		43000 J
3074-71-3	Heptane, 2,3-Dimethyl-	357	960	1700 J
2216-34-4	Octane, 4-Methyl-	369	911	1900 J
4032-93-3	Heptane 2,3,6-Trimethyl	380	927	1900 J
-	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	442		460 J
-	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	522		850 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX D.C. # 5314-06-8

Sample Number
FC414

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205207
Sample Matrix: WATER
Data Release Authorized By: 110

Case No: 5314
QC Report No: 157
Contract No: 69-01-6798
Date Sample Received: 12/18/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/22/85
Date Analyzed: 12/22/85
Conc/Dil Factor: 1. pH
Percent Moisture: (Not Decanted)

CAS Number		ug/l	CAS Number		ug/l
74-87-3	Chloromethane	10. U	78-87-5	1,2-Dichloropropane	5.0U
74-83-9	Bromomethane	10. U	10061-02-6	Trans-1,3-Dichloroproene	5.0U
75-01-4	Vinyl Chloride	10. U	79-01-6	Trichloroethene	5.0U
75-00-3	Chloroethane	10. U	124-48-1	Dibromochloromethane	5.0U
75-09-2	Methylene Chloride	5.4B	79-00-5	1,1,2-Trichloroethane	5.0U
67-64-1	Acetone	10. U	71-43-2	Benzene	5.0U
75-15-0	Carbon Disulfide	5.0U	10061-01-5	cis-1,3-Dichloropropene	5.0U
75-35-4	1,1-Dichloroethene	5.0U	110-75-8	2-Chloroethylvinylether	10. U
75-34-3	1,1-Dichloroethane	5.0U	75-25-2	Bromoform	5.0U
156-60-5	Trans-1,2-Dichloroethene	5.0U	108-10-1	4-Methyl-2-Pentanone	10. U
67-66-3	Chloroform	5.0U	591-78-6	2-Hexanone	10. U
107-06-2	1,2-Dichloroethane	5.0U	127-18-4	Tetrachloroethene	5.0U
78-93-3	2-Butanone	10. BU	79-34-5	1,1,2,2-Tetrachloroethane	5.0U
71-55-6	1,1,1-Trichloroethane	2.2J	108-88-3	Toluene	4.8BJ
56-23-5	Carbon Tetrachloride	5.0U	108-90-7	Chlorobenzene	5.0U
108-05-4	Vinyl Acetate	10. U	100-41-4	Ethylbenzene	5.0U
75-27-4	Bromodichloromethane	5.0U	100-42-5	Styrene	5.0U
				Total Xylenes	2.6J

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED

Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.

Case No: 5314

Sample Number
FC414

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/08/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes ✓
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/l	CAS Number		ug/l
108-95-2	Phenol	10. U	83-32-9	Acenaphthene	10. U
111-44-4	bis(2-Chloroethyl)Ether	10. U	51-28-5	2,4-Dinitrophenol	50. U
95-57-8	2-Chlorophenol	10. U	100-02-7	4-Nitrophenol	50. U
541-73-1	1,3-Dichlorobenzene	10. U	132-64-9	Dibenzofuran	10. U
106-46-7	1,4-Dichlorobenzene	10. U	121-14-2	2,4-Dinitrotoluene	10. U
100-51-6	Benzyl Alcohol	10. U	606-20-2	2,6-Dinitrotoluene	10. U
95-50-1	1,2-Dichlorobenzene	10. U	84-66-2	Diethylphthalate	10. U
95-48-7	2-Methylphenol	10. U	7005-72-3	4-Chlorophenyl-phenylether	10. U
39638-32-9	bis(2-Chloroisopropyl)Ether	10. U	86-73-7	Fluorene	10. U
106-44-5	4-Methylphenol	10. U	100-10-6	4-Nitroaniline	50. U
621-64-7	N-Nitroso-Di-n-Propylamine	10. U	534-52-1	4,6-Dinitro-2-Methylphenol	50. U
67[illegible]2-1	Hexachloroethane	10. U	86-30-6	N-Nitrosodiphenylamine (1)	10. U
98-95-3	Nitrobenzene	10. U	101-55-3	4-Bromophenyl-phenylether	10. U
78-59-1	Isophorone	10. U	118-74-1	Hexachlorobenzene	10. U
88-75-5	2-Nitrophenol	10. U	87-86-5	Pentachlorophenol	50. U
105-67-9	2,4-Dimethylphenol	10. U	85-01-8	Phenanthrene	10. U
65-85-0	Benzoic Acid	50. U	120-12-7	Anthracene	10. U
111-91-1	bis(2-Chloroethoxy)Methane	10. U	84-74-2	Di-n-Butylphthalate	10. U
120-83-2	2,4-Dichlorophenol	10. U	206-44-0	Fluoranthene	10. U
120-82-1	1,2,4-Trichlorobenzene	10. U	129-00-0	Pyrene	10. U
91-20-3	Naphthalene	10. U	85-68-7	Butylbenzylphthalate	10. U
106-47-8	4-Chloroaniline	10. U	91-94-1	3,3'-Dichlorobenzidine	20. U
87-68-3	Hexachlorobutadiene	10. U	56-55-3	Benzo(a)Anthracene	10. U
59-50-7	4-Chloro-3-Methylphenol	10. U	117-81-7	bis(2-Ethylhexyl)Phthalate	7.7J
91-57-6	2-Methylnaphthalene	10. U	218-01-9	Chrysene	10. U
77-47-4	Hexachlorocyclopentadiene	10. U	117-84-0	Di-n-Octyl Phthalate	10. U
88-06-2	2,4,6-Trichlorophenol	10. U	205-99-2	Benzo(b)Fluoranthene	10. U
95-95-4	2,4,5-Trichlorophenol	50. U	207-08-9	Benzo(k)Fluoranthene	10. U
91-58-7	2-Chloronaphthalene	10. U	50-32-8	Benzo(a)Pyrene	10. U
88-74-4	2-Nitroaniline	50. U	193-39-5	Indeno(1,2,3-cd)Pyrene	10. U
131-11-3	Dimethyl Phthalate	10. U	53-70-3	Dibenz(a,h)Anthracene	10. U
208-96-8	Acenaphthylene	10. U	191-24-2	Benzo(g,h,i)Perylene	10. U
99-09-2	3-Nitroaniline	50. U			

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FC414

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V07

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
78-91-1	1-Propanol, 2-Amino-	102	894	8 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FC414

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C07

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/L
110-12-3	2-Hexanone, 5-Methyl	318	908	8 J

J = Estimated value - A 1:1 Response Factor is assumed

COVER PAGE ONLY

Sample Number
FB797 MS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX
Case No: 5314
Lab Sample ID No: 8512052 V02
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By: [illegible]
Date Sample Received: 12/18/85

Sun Refinery + Marketing
OKD058078775

Volatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 7.6

Percent Moisture: 15%

Percent Moisture (Decanted):

SUPERFUND FILE

AUG 27 1992

REORGANIZED

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	
67-64-1	Acetone	
75-15-0	Carbon Disulfide	
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	
71-55-6	1, 1, 1-Trichloroethane	
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	
75-27-4	Bromodichloromethane	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	
75-25-2	Bromoform	
591-78-6	2-Hexanone	
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides≥10 ng/ul in the final extract should be confirmed by GC/MS.

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

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB797MS

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/09/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	390. U	83-32-9	Acenaphthene	390. U
111-44-4	bis(2-Chloroethyl)Ether	390. U	51-28-5	2,4-Dinitrophenol	1900. U
95-57-8	2-Chlorophenol	390. U	100-02-7	4-Nitrophenol	1900. U
541-73-1	1,3-Dichlorobenzene	390. U	132-64-9	Dibenzofuran	390. U
106-46-7	1,4-Dichlorobenzene	390. U	121-14-2	2,4-Dinitrotoluene	390. U
100-51-6	Benzyl Alcohol	390. U	606-20-2	2,6-Dinitrotoluene	390. U
95-50-1	1,2-Dichlorobenzene	390. U	84-66-2	Diethylphthalate	390. U
95-48-7	2-Methylphenol	390. U	7005-72-3	4-Chlorophenyl-phenylether	390. U
39638-32-9	bis(2-Chloroisopropyl)Ether	390. U	86-73-7	Fluorene	390. U
106-44-5	4-Methylphenol	390. U	100-10-6	4-Nitroaniline	1900. U
62[illegible]64-7	N-Nitroso-Di-n-Propylamine	390. U	534-52-1	4,6-Dinitro-2-Methylphenol	1900. U
6[illegible]2-1	Hexachloroethane	390. U	86-30-6	N-Nitrosodiphenylamine (1)	390. U
98-95-3	Nitrobenzene	390. U	101-55-3	4-Bromophenyl-phenylether	390. U
78-59-1	Isophorone	390. U	118-74-1	Hexachlorobenzene	390. U
88-75-5	2-Nitrophenol	390. U	87-86-5	Pentachlorophenol	1900. U
105-67-9	2,4-Dimethylphenol	390. U	85-01-8	Phenanthrene	390. U
65-85-0	Benzoic Acid	1900. U	120-12-7	Anthracene	390. U
111-91-1	bis(2-Chloroethoxy)Methane	390. U	84-74-2	Di-n-Butylphthalate	11 ~~9.32~~J NOT
120-83-2	2,4-Dichlorophenol	390. U	206-44-0	Fluoranthene	390. U
120-82-1	1,2,4-Trichlorobenzene	390. U	129-00-0	Pyrene	390. U
91-20-3	Naphthalene	390. U	85-68-7	Butylbenzylphthalate	390. U
106-47-8	4-Chloroaniline	390. U	91-94-1	3,3'-Dichlorobenzidine	780. U
87-68-3	Hexachlorobutadiene	390. U	56-55-3	Benzo(a)Anthracene	390. U
59-50-7	4-Chloro-3-Methylphenol	390. U	117-81-7	bis(2-Ethylhexyl)Phthalate	316 ~~9.5~~J NOT
91-57-6	2-Methylnaphthalene	390. U	218-01-9	Chrysene	390. U
77-47-4	Hexachlorocyclopentadiene	390. U	117-84-0	Di-n-Octyl Phthalate	390. U
88-06-2	2,4,6-Trichlorophenol	390. U	205-99-2	Benzo(b)Fluoranthene	390. U
95-95-4	2,4,5-Trichlorophenol	1900. U	207-08-9	Benzo(k)Fluoranthene	390. U
91-58-7	2-Chloronaphthalene	390. U	50-32-8	Benzo(a)Pyrene	390. U
88-74-4	2-Nitroaniline	1900. U	193-39-5	Indeno(1,2,3-cd)Pyrene	390. U
131-11-3	Dimethyl Phthalate	390. U	53-70-3	Dibenz(a,h)Anthracene	390. U
208-96-8	Acenaphthylene	390. U	191-24-2	Benzo(g,h,i)Perylene	390. U
99-09-2	3-Nitroaniline	1900. U			

(1) - Cannot be separated from diphenylamine

Form I

COVER PAGE ONLY

Sample Number
FB797MSD

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX
Case No: 5314
Lab Sample ID No: 851205 2V03
QC Report No: 157
Sample Matrix: SOIL
Contract No: 68-01-6798
Data Release Authorized By:
Date Sample Received: 12/18/85

Sun Refinery + Marketing
OKD058078775

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor: pH 7.6

Percent Moisture: 15 %

Percent Moisture (Decanted):

SUPERFUND FILE

AUG 27 1992

REORGANIZED

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	
67-64-1	Acetone	
75-15-0	Carbon Disulfide	
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	
71-55-6	1, 1, 1-Trichloroethane	
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	
75-27-4	Bromodichloromethane	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	
75-25-2	Bromoform	
591-78-6	2-Hexanone	
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides≥10 ng/ul in the final extract should be confirmed by GC/MS.

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

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB797MSD

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/09/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) _____

GPC Cleanup ___ Yes X No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	CAS Number		ug/kg
108-95-2	Phenol	390. U	83-32-9	Acenaphthene	390. U
111-44-4	bis(2-Chloroethyl)Ether	390. U	51-28-5	2,4-Dinitrophenol	1900. U
95-57-8	2-Chlorophenol	390. U	100-02-7	4-Nitrophenol	1900. U
541-73-1	1,3-Dichlorobenzene	390. U	132-64-9	Dibenzofuran	390. U
106-46-7	1,4-Dichlorobenzene	390. U	121-14-2	2,4-Dinitrotoluene	390. U
100-51-6	Benzyl Alcohol	390. U	606-20-2	2,6-Dinitrotoluene	390. U
95-50-1	1,2-Dichlorobenzene	390. U	84-66-2	Diethylphthalate	390. U
95-48-7	2-Methylphenol	390. U	7005-72-3	4-Chlorophenyl-phenylether	390. U
39638-32-9	bis(2-Chloroisopropyl)Ether	390. U	86-73-7	Fluorene	390. U
106-44-5	4-Methylphenol	390. U	100-10-6	4-Nitroaniline	1900. U
62[illegible]-64-7	N-Nitroso-Di-n-Propylamine	390. U	534-52-1	4,6-Dinitro-2-Methylphenol	1900. U
6[illegible]-2-1	Hexachloroethane	390. U	86-30-6	N-Nitrosodiphenylamine (1)	390. U
98-95-3	Nitrobenzene	390. U	101-55-3	4-Bromophenyl-phenylether	390. U
78-59-1	Isophorone	390. U	118-74-1	Hexachlorobenzene	390. U
88-75-5	2-Nitrophenol	390. U	87-86-5	Pentachlorophenol	1900. U
105-67-9	2,4-Dimethylphenol	390. U	85-01-8	Phenanthrene	390. U
65-85-0	Benzoic Acid	1900. U	120-12-7	Anthracene	390. U
111-91-1	bis(2-Chloroethoxy)Methane	390. U	84-74-2	Di-n-Butylphthalate	13 ~~0.~~40J NOT
120-83-2	2,4-Dichlorophenol	390. U	206-44-0	Fluoranthene	390. U
120-82-1	1,2,4-Trichlorobenzene	390. U	129-00-0	Pyrene	390. U
91-20-3	Naphthalene	390. U	85-68-7	Butylbenzylphthalate	390. U
106-47-8	4-Chloroaniline	390. U	91-94-1	3,3'-Dichlorobenzidine	780. U
87-68-3	Hexachlorobutadiene	390. U	56-55-3	Benzo(a)Anthracene	390. U
59-50-7	4-Chloro-3-Methylphenol	390. U	117-81-7	bis(2-Ethylhexyl)Phthalate ~~2477.~~4J NOT	
91-57-6	2-Methylnaphthalene	390. U	218-01-9	Chrysene	390. U
77-47-4	Hexachlorocyclopentadiene	390. U	117-84-0	Di-n-Octyl Phthalate	390. U
88-06-2	2,4,6-Trichlorophenol	390. U	205-99-2	Benzo(b)Fluoranthene	390. U
95-95-4	2,4,5-Trichlorophenol	1900. U	207-08-9	Benzo(k)Fluoranthene	390. U
91-58-7	2-Chloronaphthalene	390. U	50-32-8	Benzo(a)Pyrene	390. U
88-74-4	2-Nitroaniline	1900. U	193-39-5	Indeno(1,2,3-cd)Pyrene	390. U
131-11-3	Dimethyl Phthalate	390. U	53-70-3	Dibenz(a,h)Anthracene	390. U
208-96-8	Acenaphthylene	390. U	191-24-2	Benzo(g,h,i)Perylene	390. U
99-09-2	3-Nitroaniline	1900. U			

(1) - Cannot be separated from diphenylamine

Form I

Sample Number
5100 D.L.

D.C. No. 5314-6-8

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: SPECTRIX CORPORATION
Case No: 5314
Lab Sample ID No:
QC Report No: 157
Sample Matrix: WATER / SOIL
Contract No: 68-01-6798, 6865, 7018, 7149
Data Release Authorized By: TTO
Date Sample Received
Sun Refinery + Marketing
OKD058078775

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: pH
Percent Moisture: (Not Decanted)

SUPERFUND FILE
AUG 27 1992
REORGANIZED

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11
74-83-9	Bromomethane	11
75-01-4	Vinyl Chloride	16
75-00-3	Chloroethane	8.0
75-09-2	Methylene Chloride	8.2
67-64-1	Acetone	6.8
75-15-0	Carbon Disulfide	9.3
75-35-4	1, 1-Dichloroethene	3.4
75-34-3	1, 1-Dichloroethane	3.9
156-60-5	Trans-1, 2-Dichloroethene	3.9
67-66-3	Chloroform	3.3
107-06-2	1, 2-Dichloroethane	4.4
78-93-3	2-Butanone	7.5
71-55-6	1, 1, 1-Trichloroethane	3.7
56-23-5	Carbon Tetrachloride	3.4
108-05-4	Vinyl Acetate	4.4
75-27-4	Bromodichloromethane	3.9

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	3.7
10061-02-6	Trans-1, 3-Dichloropropene	4.9
79-01-6	Trichloroethene	2.6
124-48-1	Dibromochloromethane	3.7
79-00-5	1, 1, 2-Trichloroethane	3.4
71-43-2	Benzene	4.2
10061-01-5	cis-1, 3-Dichloropropene	3.3
110-75-8	2-Chloroethylvinylether	3.7
75-25-2	Bromoform	3.4
591-78-6	4-Methyl-2-Pentanone	7.8
108-10-1	2-Hexanone	3.3
127-18-4	Tetrachloroethene	3.7
79-34-5	1, 1, 2, 2-Tetrachloroethane	2.5
108-88-3	Toluene	3.4
108-90-7	Chlorobenzene	1.5
100-41-4	Ethylbenzene	4.4
100-42-5	Styrene	3.4
	Total Xylenes	4.4

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration, dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

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

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

000859

Laboratory Name SPECTRIX CORPORATION

Case No 68-01-6798, 6865, 7018, 7149

Sample Number 5100 D.L.

D.C. No. 5314 - 6 -8

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared _____

Date Analyzed _____

Conc./Dil Factor _____

Percent Moisture (Decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

TTO

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	12
111-44-4	bis(-2-Chloroethyl)Ether	3.9
95-57-8	2-Chlorophenol	9.0
541-73-1	1, 3-Dichlorobenzene	2.0
106-46-7	1, 4-Dichlorobenzene	2.0
100-51-6	Benzyl Alcohol	30
95-50-1	1, 2-Dichlorobenzene	2.0
95-48-7	2-Methylphenol	12
108-32-9	bis(2-chloroisopropyl)Ether	3.9
106-44-5	4-Methylphenol	9.0
621-64-7	N-Nitroso-Di-n-Propylamine	12
67-72-1	Hexachloroethane	2.0
98-95-3	Nitrobenzene	3.0
78-59-1	Isophorone	3.0
88-75-5	2-Nitrophenol	12
105-67-9	2, 4-Dimethylphenol	3.0
65-85-0	Benzoic Acid	3.9
111-91-1	bis(-2-Chloroethoxy)Methane	3.0
120-83-2	2, 4-Dichlorophenol	4.2
120-82-1	1, 2, 4-Trichlorobenzene	3.0
91-20-3	Naphthalene	2.0
106-47-8	4-Chloroaniline	3.0
87-68-3	Hexachlorobutadiene	3.0
59-50-7	4-Chloro-3-Methylphenol	12
91-57-6	2-Methylnaphthalene	3.9
77-47-4	Hexachlorocyclopentadiene	21
88-06-2	2, 4, 6-Trichlorophenol	2.0
95-95-4	2, 4, 5-Trichlorophenol	3.9
91-58-7	2-Chloronaphthalene	3.0
88-74-4	2-Nitroaniline	72
131-11-3	Dimethyl Phthalate	2.0
208-96-8	Acenaphthylene	4.2
[illegible]-09-2	3-Nitroaniline	2.0

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	2.0
51-28-5	2, 4-Dinitrophenol	15
100-02-7	4-Nitrophenol	21
132-64-9	Dibenzofuran	2.0
121-14-2	2, 4-Dinitrotoluene	6.0
606-20-2	2, 6-Dinitrotoluene	6.0
84-66-2	Diethylphthalate	6.0
7005-72-3	4-Chlorophenyl-phenylether	2.0
86-73-7	Fluorene	2.0
100-01-6	4-Nitroaniline	21
534-52-1	4, 6-Dinitro-2-Methylphenol	17
86-30-6	N-Nitrosodiphenylamine (1)	72
101-55-3	4-Bromophenyl-phenylether	7.5
118-74-1	Hexachlorobenzene	9.6
87-86-5	Pentachlorophenol	18
85-01-8	Phenanthrene	3.9
120-12-7	Anthracene	3.0
84-74-2	Di-n-Butylphthalate	3.9
206-44-0	Fluoranthene	6.0
129-00-0	Pyrene	6.6
85-68-7	Butylbenzylphthalate	9.3
91-94-1	3, 3'-Dichlorobenzidine	66
56-55-3	Benzo(a)Anthracene	6.0
117-81-7	bis(2-Ethylhexyl)Phthalate	14
218-01-9	Chrysene	7.2
117-84-0	Di-n-Octyl Phthalate	9.0
205-99-2	Benzo(b)Fluoranthene	11
207-08-9	Benzo(k)Fluoranthene	11
50-32-8	Benzo(a)Pyrene	17
193-39-5	Indeno(1, 2, 3-cd)Pyrene	21
53-70-3	Dibenz(a, h)Anthracene	14
191-24-2	Benzo(g, h, i)Perylene	13

(1)-Cannot be separated from diphenylamine

Laboratory Name SPECTRIX CORPORATION

Case No 68-01-6798, 6865, 7018, 7149

Sample Number 5100 D.L.

D.C. No. 5314-6-8

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

Percent Moisture (decanted) _____

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

TTO

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	18
319-85-7	Beta-BHC	13
319-86-8	Delta-BHC	18
58-89-9	Gamma-BHC (Lindane)	12
76-44-8	Heptachlor	15
309-00-2	Aldrin	12
1024-57-3	Heptachlor Epoxide	18
959-98-8	Endosulfan I	12
60-57-1	Dieldrin	15
72-55-9	4, 4'-DDE	11
72-20-8	Endrin	12
33213-65-9	Endosulfan II	11
72-54-8	4, 4'-DDD	8
1031-07-8	Endosulfan Sulfate	14
50-29-3	4, 4'-DDT	14
72-43-5	Methoxychlor	14
53494-70-5	Endrin Ketone	10
57-74-9	Chlordane	195
8001-35-2	Toxaphene	300
12674-11-2	Aroclor-1016	60
11104-28-2	Aroclor-1221	84
11141-16-5	Aroclor-1232	196
53469-21-9	Aroclor-1242	100
12672-29-6	Aroclor-1248	100
11097-69-1	Aroclor-1254	114
11096-82-5	Aroclor-1260	71

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

000861

5314-6-8

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703 557-2490

Sample Number
GC D.L.

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

GC 6000

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: Sun Refinery + Marketing

Date Analyzed: 9/29/84 OKD058078775

Conc/Dil Factor:

SUPERFUND FILE

AUG 27 1992

REORGANIZED

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	.003
319-85-7	Beta-BHC	.006
319-86-8	Delta-BHC	.005
58-89-9	Gamma-BHC (Lindane)	.003
76-44-8	Heptachlor	.009
309-00-2	Aldrin	.0001
1024-57-3	Heptachlor Epoxide	.005
959-98-8	Endosulfan I	.004
60-57-1	Dieldrin	.03
72-55-9	4, 4'-DDE	.008
72-20-8	Endrin	.004
33213-65-9	Endosulfan II	.02
72-54-8	4, 4'-DDD	.02
7421-93-4	Endrin Aldehyde	.06
1031-07-8	Endosulfan Sulfate	.13
50-29-3	4, 4'-DDT	.17
72-43-5	Methoxychlor	2.26
53494-70-5	Endrin Ketone	.003
57-74-9	Chlordane	.01
8001-35-2	Toxaphene	.16
12674-11-2	Aroclor-1016	.01
11104-28-2	Aroclor-1221	.02
11141-16-5	Aroclor-1232	.01
53469-21-9	Aroclor-1242	.02
12672-29-6	Aroclor-1248	.003
11097-69-1	Aroclor-1254	.03
11096-82-5	Aroclor-1260	.08

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

Laboratory Name: SPECTRIX

Case No: 5314

DC No: 5314-6-8

Sample Number: GC D.L.

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared:

Date Analyzed: 5/14/85

Conc/Dil Factor:

INST. ID: 3400

CAS Number		ug/L or ug/Kg (Circle One)
319-84-6	Alpha-BHC	.02
319-85-7	Beta-BHC	.04
319-86-8	Delta-BHC	.04
58-89-9	Gamma-BHC (Lindane)	.01
76-44-8	Heptachlor	.01
309-00-2	Aldrin	.01
1024-57-3	Heptachlor Epoxide	.02
959-98-8	Endosulfan I	.02
60-57-1	Dieldrin	.02
72-55-9	4, 4'-DDE	.03
72-20-8	Endrin	.04
33213-65-9	Endosulfan II	.07
72-54-8	4, 4'-DDD	.02
7421-93-4	Endrin Aldehyde	.08
1031-07-8	Endosulfan Sulfate	.12
50-29-3	4, 4'-DDT	.07
72-43-5	Methoxychlor	.22
53494-70-5	Endrin Ketone	.05
57-74-9	Chlordane	.06
8001-35-2	Toxaphene	1.4
12674-11-2	Aroclor-1016	.37
11104-28-2	Aroclor-1221	.20
11141-16-5	Aroclor-1232	.61
53469-21-9	Aroclor-1242	.18
12672-29-6	Aroclor-1248	.49
11097-69-1	Aroclor-1254	.10
11096-82-5	Aroclor-1260	.38

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

000863

SPECTRIX D.C. # 5314-06-17

INITIAL CALIBRATION DATA
VOLATILE HSL COMPOUNDS

Case No: 5314 Region: EPA Instrument ID: 4000
Contractor: SPECTRIX CORP. Calibration Date: 12/21/85
Contract No: 68-01-6798

Min AVE RF for SPCC is 0.300 (1) Max %RSD for CCC is 30%

Laboratory ID	ES1221V06	ES1221V05	ES1221V04	ES1221V03	ES1221V02			CCC*
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	AVE RF	% RSD	SPCC**
Chloromethane	1.409	1.756	1.819	2.013	1.957	1.791	13.2	* *
Bromomethane	1.013	0.923	0.507	0.164	0.166	0.555	72.8	
Vinyl Chloride	1.432	1.762	1.802	1.931	2.057	1.797	13.1	*
Chloroethane	0.630	0.780	0.785	0.837	0.852	0.777	11.3	
Methylene Chloride	1.453	1.391	1.273	1.316	1.338	1.354	5.1	
Acetone	0.327	0.341	0.271	0.311	0.374	0.325	11.7	
Carbon Disulfide	4.328	5.219	5.491	6.152	6.935	5.625	17.5	
1,1-Dichloroethene	0.950	1.116	1.110	1.153	1.185	1.103	8.2	*
1,1-Dichloroethane	2.171	2.576	2.612	2.874	3.008	2.648	12.2	* *
Trans-1,2-Dichloroethene	1.130	1.288	1.282	1.353	1.365	1.284	7.3	
Chloroform	3.045	3.381	3.352	3.574	3.671	3.405	7.1	*
1,2-Dichloroethane	2.151	2.577	2.524	2.746	2.902	2.580	10.9	
2-Butanone	0.008	0.033	0.026	0.028	0.032	0.025	39.9	
1,1,1-Trichloroethane	0.657	0.774	0.715	0.737	0.745	0.726	6.0	
Carbon Tetrachloride	0.565	0.725	0.684	0.700	0.716	0.678	9.6	
Vinyl Acetate	0.148	0.398	0.267	0.285	0.315	0.283	32.0	
Bromodichloromethane	0.854	0.936	0.865	0.931	0.946	0.906	4.8	
1,2-Dichloropropane	0.338	0.429	0.413	0.441	0.447	0.414	10.7	*
Trans-1,3-Dichloroproene	0.193	0.271	0.253	0.257	0.260	0.247	12.5	
Trichloroethene	0.418	0.501	0.474	0.466	0.490	0.470	6.8	
Dibromochloromethane	0.680	0.886	0.808	0.857	0.886	0.823	10.5	
1,1,2-Trichloroethane	0.446	0.425	0.383	0.420	0.419	0.419	5.4	
Benzene	0.830	1.031	1.001	1.097	1.178	1.027	12.6	
cis-1,3-Dichloropropene	0.512	0.698	0.656	0.694	0.736	0.659	13.2	
2-Chloroethylvinylether	0.078	0.067	0.069	0.045	0.057	0.063	20.0	
Bromoform	0.478	0.670	0.595	0.633	0.674	0.610	13.2	* *
4-Methyl-2-Pentanone	0.412	0.357	0.265	0.240	0.274	0.310	23.3	
2-Hexanone	0.422	0.505	0.413	0.350	0.410	0.420	13.2	
Tetrachloroethene	0.463	0.564	0.531	0.531	0.546	0.527	7.3	
1,1,2,2-Tetrachloroethane	0.671	0.829	0.692	0.743	0.790	0.745	8.8	* *
Toluene	0.737	0.866	0.783	0.829	0.847	0.812	6.4	*
Chlorobenzene	0.924	1.122	1.041	1.070	1.101	1.052	7.4	* *
Ethylbenzene	0.431	0.533	0.505	0.515	0.533	0.503	8.4	*
Styrene	1.218	1.431	1.347	1.419	1.496	1.382	7.7	
Total Xylenes	0.735	0.881	0.833	0.854	0.896	0.840	7.6	

Response Factor (number is the amount of ug/L)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
SPCC - - Calibration Check Compounds (*)
CCC - - System Performance Check Compounds (**)
(1) - - Minimum AVE RF for Bromoform is 0.250

Form VI

SPECTRIX D.C. # 5314-06-17

INITIAL CALIBRATION DATA
VOLATILE HSL COMPOUNDS

C[illegible] No: 5314 Region: EPA Instrument ID: 4000
Contractor: SPECTRIX CORP. Calibration Date: 12/26/85
Contract No: 68-01-6798

Min AVE RF for SPCC is 0.300 (1) Max %RSD for CCC is 30%

Laboratory ID	ES1226V09	ES1226V02	ES1226V07	ES1226V04	ES1226V03			CCC*
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	AVE RF	% RSD	SPCC**
Chloromethane	0.342	0.476	0.375	0.244	0.354	0.358	23.1	* *
Bromomethane	2.520	2.801	2.579	1.536	1.694	2.226	25.6	
Vinyl Chloride	0.315	0.350	0.376	0.250	0.373	0.333	15.7	*
Chloroethane	0.749	0.881	0.832	0.699	0.821	0.796	9.0	
Methylene Chloride	1.226	1.492	1.072	0.912	0.987	1.138	20.2	
Acetone	0.363	0.507	0.214	0.182	0.160	0.285	51.6	
Carbon Disulfide	3.765	5.402	4.414	3.712	4.225	4.304	15.9	
1,1-Dichloroethene	0.991	1.302	1.109	0.909	1.046	1.071	13.8	*
1,1-Dichloroethane	1.910	2.402	2.204	1.728	2.022	2.053	12.7	* *
Trans-1,2-Dichloroethene	0.444	0.591	0.467	0.394	0.446	0.468	15.7	
Chloroform	2.427	3.139	2.773	2.241	2.635	2.643	13.0	*
1,2-Dichloroethane	1.184	1.464	1.378	1.079	1.227	1.266	12.2	
2-Butanone	0.059	0.038	0.023	0.024	0.020	0.033	49.4	
1,1,1-Trichloroethane	0.273	0.356	0.281	0.248	0.253	0.282	15.4	
Carbon Tetrachloride	0.377	0.537	0.480	0.412	0.442	0.450	13.8	
Vinyl Acetate	0.015	0.077	0.078	0.087	0.062	0.064	45.0	
B[illegible]odichloromethane	0.480	0.622	0.553	0.461	0.492	0.522	12.6	
1,2-Dichloropropane	0.305	0.387	0.357	0.279	0.302	0.326	13.6	*
Trans-1,3-Dichloroproene	0.120	0.184	0.166	0.136	0.143	0.150	16.9	
Trichloroethene	0.402	0.569	0.449	0.383	0.407	0.442	17.0	
Dibromochloromethane	0.497	0.716	0.655	0.549	0.608	0.605	14.2	
1,1,2-Trichloroethane	0.279	0.393	0.341	0.277	0.301	0.318	15.4	
Benzene	0.509	0.646	0.570	0.462	0.506	0.539	13.2	
cis-1,3-Dichloropropene	0.337	0.468	0.472	0.375	0.401	0.411	14.3	
2-Chloroethylvinylether	0.078	0.055	0.013	0.008	0.009	0.033	98.3	
Bromoform	0.357	0.583	0.518	0.446	0.487	0.478	17.6	* *
4-Methyl-2-Pentanone	0.219	0.170	0.152	0.128	0.119	0.158	25.2	
2-Hexanone	0.219	0.282	0.252	0.200	0.202	0.231	15.3	
Tetrachloroethene	0.404	0.596	0.486	0.435	0.488	0.482	15.2	
1,1,2,2-Tetrachloroethane	0.379	0.452	0.494	0.411	0.440	0.435	10.0	* *
Toluene	0.597	0.720	0.614	0.508	0.565	0.601	13.0	*
Chlorobenzene	0.856	1.127	0.976	0.810	0.915	0.937	13.2	* *
Ethylbenzene	0.386	0.506	0.465	0.378	0.419	0.431	12.6	*
Styrene	1.073	1.262	1.206	0.980	1.104	1.125	9.9	
Total Xylenes	0.655	0.809	0.743	0.602	0.668	0.695	11.7	

Response Factor (number is the amount of ug/L)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
[illegible] - - Minimum AVE RF for Bromoform is 0.250

Form VI

SPECTRIX D.C. # 5314-06-17

INITIAL CALIBRATION DATA
VOLATILE HSL COMPOUNDS

C[illegible] No: 5314 Region: EPA Instrument ID: 4000
Contractor: SPECTRIX CORP. Calibration Date: 12/27/85
Contract No: 68-01-6798

Min AVE RF for SPCC is 0.300 (1) Max %RSD for CCC is 30%

Laboratory ID	ES1227V06	ES1227V05	ES1227V03					
		ES1227V02		ES1227V04				CCC*
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)	AVE RF	% RSD	SPCC**
Chloromethane	0.522	0.274	0.280	0.270	0.212	0.312	38.8	* *
Bromomethane	3.436	2.287	1.868	1.681	1.846	2.224	32.1	
Vinyl Chloride	0.257	0.182	0.289	0.235	0.238	0.240	16.2	*
Chloroethane	1.084	0.763	0.878	0.998	1.009	0.946	13.3	
Methylene Chloride	1.809	1.192	1.288	1.287	1.409	1.397	17.4	
Acetone	0.453	0.307	0.302	0.302	0.332	0.339	19.1	
Carbon Disulfide	4.787	3.936	4.502	4.424	5.216	4.573	10.3	
1,1-Dichloroethene	1.462	1.080	1.203	1.208	1.324	1.255	11.5	*
1,1-Dichloroethane	2.777	2.070	2.468	2.541	2.798	2.531	11.7	* *
Trans-1,2-Dichloroethene	1.578	1.144	1.318	1.362	1.416	1.364	11.5	
Chloroform	3.571	2.559	3.051	3.181	3.410	3.154	12.3	*
1,2-Dichloroethane	2.255	1.566	1.913	2.017	2.080	1.966	13.0	
2-Butanone	0.099	0.006	0.031	0.042	0.016	0.039	93.7	
1,1,1-Trichloroethane	0.544	0.414	0.489	0.524	0.573	0.509	12.0	
Carbon Tetrachloride	0.567	0.452	0.553	0.582	0.627	0.556	11.6	
Vinyl Acetate	0.177	0.041	0.089	0.210	0.119	0.127	53.2	
B[illegible]odichloromethane	0.778	0.563	0.689	0.742	0.804	0.715	13.3	
1,[illegible]-Dichloropropane	0.452	0.346	0.404	0.423	0.473	0.420	11.7	*
Trans-1,3-Dichloroproene	0.207	0.166	0.211	0.215	0.238	0.207	12.6	
Trichloroethene	0.539	0.412	0.476	0.484	0.526	0.487	10.2	
Dibromochloromethane	0.759	0.589	0.746	0.770	0.859	0.745	13.1	
1,1,2-Trichloroethane	0.444	0.327	0.391	0.406	0.454	0.404	12.5	
Benzene	1.122	0.841	0.972	1.010	1.155	1.020	12.3	
cis-1,3-Dichloropropene	0.596	0.448	0.603	0.633	0.700	0.596	15.5	
2-Chloroethylvinylether	0.089	0.059	0.094	0.043	0.049	0.067	34.9	
Bromoform	0.572	0.461	0.587	0.621	0.703	0.589	14.9	* *
4-Methyl-2-Pentanone	0.430	0.262	0.174	0.209	0.220	0.259	38.8	
2-Hexanone	0.430	0.262	0.306	0.336	0.364	0.340	18.6	
Tetrachloroethene	0.541	0.427	0.491	0.498	0.565	0.504	10.5	
1,1,2,2-Tetrachloroethane	0.711	0.483	0.617	0.684	0.765	0.652	16.6	* *
Toluene	0.941	0.661	0.751	0.770	0.874	0.799	13.7	*
Chlorobenzene	1.202	0.876	1.016	1.038	1.179	1.062	12.5	* *
Ethylbenzene	0.569	0.427	0.506	0.518	0.581	0.520	11.8	*
Styrene	1.647	1.143	1.394	1.430	1.624	1.448	14.1	
Total Xylenes	1.016	0.720	0.842	0.873	0.973	0.885	13.1	

Response Factor (number is the amount of ug/L)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
[illegible] - - Minimum AVE RF for Bromoform is 0.250

Form VI

SPECTRIX D.C. # 5314-06-17

INITIAL CALIBRATION DATA
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

Case No: 5314 Region: EPA Instrument ID: 4500
Contractor: SPECTRIX CORP. Calibration Date: 12/30/85
Contract No: 68-01-6798

Minimum AVE RF for SPCC is 0.050 Maximum %RSD for CCC is 30%

Laboratory ID	ES1230C03	ES1230C02	ES1230C04	ES1230C05	ES1230C06			CCC*
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	AVE RF	% RSD	SPCC**
Phenol	1.765	1.864	1.848	1.883	1.945	1.861	3.5	*
bis(2-Chloroethyl)Ether	1.849	2.022	1.959	2.147	1.982	1.992	5.4	
2-Chlorophenol	1.160	1.259	1.299	1.399	1.407	1.305	7.9	
1,3-Dichlorobenzene	1.415	1.181	1.305	1.495	1.376	1.354	8.8	
1,4-Dichlorobenzene	1.598	1.396	1.514	1.654	1.553	1.543	6.3	*
Benzyl Alcohol	0.416	0.508	0.597	0.619	0.664	0.561	17.6	
1,2-Dichlorobenzene	1.402	1.138	1.299	1.443	1.373	1.331	9.0	
2-Methylphenol	0.943	1.037	1.135	1.187	1.250	1.110	11.0	
bis(2-Chloroisopropyl)Ether	3.862	3.926	4.076	4.263	4.371	4.100	5.3	
4-Methylphenol	0.724	0.935	1.024	1.111	1.229	1.005	19.0	
N-Nitroso-Di-n-Propylamine	0.989	1.029	1.136	1.026	1.210	1.078	8.5	* *
Hexachloroethane	0.687	0.621	0.701	0.770	0.724	0.701	7.8	
Nitrobenzene	0.351	0.313	0.346	0.367	0.363	0.348	6.1	
Isophorone	0.745	0.609	0.682	0.632	0.659	0.665	7.9	
2-Nitrophenol	0.087	0.119	0.125	0.136	0.146	0.123	18.3	*
2,4-Dimethylphenol	0.180	0.243	0.240	0.265	0.273	0.240	15.2	
Benzoic Acid	x	0.013	0.028	0.037	0.053	0.033	51.1	
bis(2-Chloroethoxy)Methane	0.459	0.474	0.490	0.506	0.531	0.492	5.7	
2,4-Dichlorophenol	0.128	0.227	0.229	0.247	0.252	0.217	23.4	*
1,2,4-Trichlorobenzene	0.308	0.276	0.301	0.310	0.309	0.301	4.8	
Naphthalene	0.974	0.993	1.058	1.050	1.032	1.021	3.6	
4-Chloroaniline	0.069	0.155	0.216	0.238	0.329	0.201	48.1	
Hexachlorobutadiene	0.178	0.157	0.176	0.178	0.179	0.174	5.4	*
4-Chloro-3-Methylphenol	0.173	0.207	0.213	0.230	0.233	0.211	11.4	*
2-Methylnaphthalene	0.625	0.663	0.678	0.679	0.683	0.666	3.6	
Hexachlorocyclopentadiene	0.185	0.176	0.223	0.263	0.273	0.224	19.6	* *
2,4,6-Trichlorophenol	0.247	0.336	0.353	0.400	0.430	0.353	19.9	*
2,4,5-Trichlorophenol	x	0.307	0.310	0.358	0.402	0.344	13.1	
2-Chloronaphthalene	1.122	1.072	1.221	1.400	1.554	1.274	15.7	
2-Nitroaniline	x	0.231	0.261	0.257	0.301	0.263	11.0	
Dimethyl Phthalate	1.068	1.077	1.136	1.073	1.088	1.088	2.5	
Acenaphthylene	1.695	1.754	1.947	2.061	2.105	1.912	9.5	
3-Nitroaniline	x	0.052	0.066	0.063	0.228	0.102	82.2	
Acenaphthene	1.018	1.078	1.164	1.241	1.325	1.165	10.6	*
2,4-Dinitrophenol	x	0.063	0.072	0.061	0.076	0.068	10.5	* *
4-Nitrophenol	x	0.129	0.139	0.110	0.129	0.127	9.6	* *
Dibenzofuran	1.284	1.416	1.499	1.547	1.598	1.469	8.4	

Response Factor (number is the amount of nanograms)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
x - - - Not detectable at 20 ng

Form VI

SPECTRIX D.C. # 5314-06-17

INITIAL CALIBRATION DATA
SEMIVOLATILE HSL COMPOUNDS
(Page 2)

Case No: 5314 Region: EPA Instrument ID: 4500
Contractor: SPECTRIX CORP. Calibration Date: 12/30/85
Contract No: 68-01-6798

Minimum AVE RF for SPCC is 0.050 Maximum %RSD for CCC is 30%

Laboratory ID	ES1230C03	ES1230C02	ES1230C04	ES1230C05	ES1230C06			CCC*
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	AVE RF	% RSD	SPCC**
2,4-Dinitrotoluene	0.220	0.199	0.236	0.194	0.217	0.213	8.0	
2,6-Dinitrotoluene	0.197	0.161	0.153	0.177	0.213	0.180	13.8	
Diethylphthalate	1.037	1.178	1.231	1.099	1.204	1.150	7.0	
4-Chlorophenyl-phenylether	0.538	0.610	0.628	0.637	0.647	0.612	7.1	
Fluorene	1.057	1.141	1.275	1.197	1.223	1.179	7.1	
4-Nitroaniline	x	0.129	0.170	0.109	0.133	0.135	18.8	
4,6-Dinitro-2-Methylphenol	x	0.079	0.071	0.076	0.098	0.081	14.6	
N-Nitrosodiphenylamine (1)	0.443	0.444	0.483	0.422	0.605	0.479	15.4	*
4-Bromophenyl-phenylether	0.199	0.214	0.207	0.258	0.248	0.225	11.6	
Hexachlorobenzene	0.257	0.243	0.261	0.294	0.289	0.269	8.1	
Pentachlorophenol	x	0.103	0.095	0.104	0.118	0.105	9.1	*
Phenanthrene	0.941	1.082	1.154	1.129	1.170	1.095	8.4	
Anthracene	0.901	0.914	0.924	1.075	1.085	0.980	9.4	
Di-n-Butylphthalate	1.094	1.196	1.196	1.222	1.316	1.205	6.6	
Fluoranthene	0.920	0.909	0.890	0.893	0.949	0.912	2.6	*
Pyrene	1.550	1.442	1.375	1.433	1.542	1.468	5.1	
Butylbenzylphthalate	0.605	0.694	0.674	0.715	0.773	0.692	8.8	
3,3'-Dichlorobenzidine	0.084	0.107	0.101	0.110	0.093	0.099	10.7	
Benzo(a)Anthracene	1.096	1.089	1.154	1.090	1.109	1.108	2.4	
bis(2-Ethylhexyl)Phthalate	0.798	0.992	1.058	1.062	1.180	1.018	13.8	
Chrysene	1.036	1.020	1.098	1.068	1.111	1.067	3.7	
Di-n-Octyl Phthalate	2.470	3.028	3.229	3.624	4.176	3.305	19.4	*
Benzo(b)Fluoranthene	1.788	1.676	1.905	1.863	2.029	1.852	7.1	
Benzo(k)Fluoranthene	1.788	1.676	1.905	1.863	2.029	1.852	7.1	
Benzo(a)Pyrene	1.415	1.412	1.575	1.477	1.559	1.488	5.2	*
Indeno(1,2,3-cd)Pyrene	1.510	1.522	1.633	1.363	1.459	1.497	6.6	
Dibenz(a,h)Anthracene	1.243	1.158	1.252	1.026	1.128	1.161	8.0	
Benzo(g,h,i)Perylene	1.329	1.233	1.305	1.070	1.171	1.222	8.6	

Response Factor (number is the amount of nanograms)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
x - - - Not detectable at 20 ng
(1) - - Cannot be separated from diphenylamine

Form VI

SPECTRIX D.C. # 5314-06-17

INITIAL CALIBRATION DATA
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

Case No: 5314 Region: EPA Instrument ID: 4500
Contractor: SPECTRIX CORP. Calibration Date: 01/13/86
Contract No: 68-01-6798

Minimum AVE RF for SPCC is 0.050 Maximum %RSD for CCC is 30%

Laboratory ID	ES0113C03	ES0113C04	ES0113C06					
		ES0113C02		ES0113C05				CCC*
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	AVE RF	% RSD	SPCC**
Phenol	2.343	1.946	2.121	2.156	2.265	2.166	7.0	*
bis(2-Chloroethyl)Ether	2.444	2.095	2.330	2.308	2.281	2.292	5.5	
2-Chlorophenol	1.685	1.298	1.470	1.501	1.518	1.494	9.2	
1,3-Dichlorobenzene	1.513	1.362	1.440	1.457	1.454	1.445	3.8	
1,4-Dichlorobenzene	1.581	1.412	1.489	1.488	1.493	1.493	4.0	*
Benzyl Alcohol	0.054	0.078	0.094	0.257	0.456	0.188	90.5	
1,2-Dichlorobenzene	1.338	1.249	1.347	1.353	1.377	1.333	3.7	
2-Methylphenol	1.377	1.135	1.391	1.414	1.365	1.336	8.5	
bis(2-Chloroisopropyl)Ether	7.230	5.844	6.778	6.713	6.650	6.643	7.5	
4-Methylphenol	1.114	0.976	1.168	1.234	1.329	1.164	11.4	
N-Nitroso-Di-n-Propylamine	1.784	1.400	1.664	1.599	1.656	1.621	8.7	* *
Hexachloroethane	0.890	0.792	0.848	0.851	0.854	0.847	4.1	
Nitrobenzene	0.579	0.501	0.571	0.574	0.574	0.560	5.9	
Isophorone	1.133	0.966	1.056	1.039	1.042	1.047	5.7	
2-Nitrophenol	0.161	0.142	0.164	0.174	0.176	0.163	8.3	*
2,4-Dimethylphenol	0.285	0.241	0.282	0.307	0.311	0.285	9.8	
Benzoic Acid	x	0.014	0.011	0.012	0.012	0.012	10.3	
bis(2-Chloroethoxy)Methane	0.658	0.569	0.676	0.678	0.686	0.653	7.4	
2,4-Dichlorophenol	0.173	0.184	0.215	0.241	0.244	0.211	15.3	*
1,2,4-Trichlorobenzene	0.301	0.261	0.284	0.285	0.279	0.282	5.1	
Naphthalene	1.065	1.027	1.096	1.105	1.082	1.075	2.9	
4-Chloroaniline	0.153	0.140	0.154	0.147	0.145	0.148	3.9	
Hexachlorobutadiene	0.158	0.136	0.149	0.153	0.149	0.149	5.5	*
4-Chloro-3-Methylphenol	0.275	0.228	0.270	0.277	0.304	0.271	10.1	*
2-Methylnaphthalene	0.909	0.783	0.863	0.885	0.909	0.870	6.0	
Hexachlorocyclopentadiene	0.159	0.187	0.200	0.243	0.234	0.205	16.8	* *
2,4,6-Trichlorophenol	0.275	0.252	0.293	0.323	0.329	0.294	11.0	*
2,4,5-Trichlorophenol	x	0.283	0.322	0.346	0.335	0.322	8.5	
2-Chloronaphthalene	1.288	1.186	1.302	1.364	1.352	1.298	5.4	
2-Nitroaniline	x	0.278	0.293	0.330	0.345	0.312	10.0	
Dimethyl Phthalate	1.041	0.901	0.953	0.925	0.962	0.956	5.5	
Acenaphthylene	1.899	1.885	1.982	2.034	2.027	1.965	3.6	
3-Nitroaniline	x	0.096	0.102	0.150	0.241	0.147	45.5	
Acenaphthene	1.153	1.145	1.202	1.228	1.233	1.192	3.5	*
2,4-Dinitrophenol	x	0.060	0.069	0.078	0.089	0.074	16.8	* *
4-Nitrophenol	x	0.124	0.134	0.142	0.156	0.139	9.7	* *
Dibenzofuran	1.568	1.282	1.410	1.442	1.437	1.428	7.1	

Response Factor (number is the amount of nanograms)
AVE RF - Average Response Factor
RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
x - - - Not detectable at 20 ng

Form VI

SPECTRIX D.C. # 5314-06-17

INITIAL CALIBRATION DATA
SEMIVOLATILE HSL COMPOUNDS
(Page 2)

Case No: 5314 Region: EPA Instrument ID: 4500
Contractor: SPECTRIX CORP. Calibration Date: 01/13/86
Contract No: 68-01-6798

Minimum AVE RF for SPCC is 0.050 Maximum %RSD for CCC is 30%

Laboratory ID	ES0113C03	ES0113C04	ES0113C06					
	ES0113C02	ES0113C05						CCC*
Compound	RF(20)	RF(50)	RF(80)	RF(120)	RF(160)	AVE RF	% RSD	SPCC**
2,4-Dinitrotoluene	0.236	0.195	0.214	0.219	0.237	0.220	7.9	
2,6-Dinitrotoluene	0.229	0.201	0.206	0.207	0.215	0.212	5.2	
Diethylphthalate	1.062	0.894	1.003	0.988	1.027	0.995	6.3	
4-Chlorophenyl-phenylether	0.504	0.420	0.463	0.458	0.476	0.464	6.6	
Fluorene	1.087	1.081	1.071	1.073	1.107	1.084	1.3	
4-Nitroaniline	x	0.203	0.168	0.160	0.167	0.175	11.1	
4,6-Dinitro-2-Methylphenol	x	0.047	0.070	0.085	0.091	0.073	26.8	
N-Nitrosodiphenylamine (1)	0.643	0.465	0.568	0.580	0.627	0.577	12.1	*
4-Bromophenyl-phenylether	0.224	0.206	0.205	0.209	0.203	0.209	4.0	
Hexachlorobenzene	0.248	0.234	0.222	0.221	0.216	0.228	5.6	
Pentachlorophenol	x	0.089	0.101	0.112	0.082	0.096	13.8	*
Phenanthrene	0.978	1.022	1.064	1.089	1.104	1.051	4.9	
Anthracene	0.990	1.018	1.089	1.139	1.137	1.075	6.3	
Di-n-Butylphthalate	1.536	1.184	1.447	1.503	1.470	1.428	9.8	
Fluoranthene	0.871	0.809	0.885	0.939	0.940	0.889	6.1	*
Pyrene	1.662	1.573	1.572	1.514	1.592	1.583	3.4	
Butylbenzylphthalate	1.094	0.889	1.008	0.998	1.060	1.010	7.7	
3,3'-Dichlorobenzidine	0.252	0.127	0.132	0.145	0.108	0.153	37.3	
Benzo(a)Anthracene	1.115	1.065	1.169	1.181	1.230	1.152	5.5	
bis(2-Ethylhexyl)Phthalate	1.487	1.211	1.460	1.446	1.518	1.424	8.6	
Chrysene	1.138	1.102	1.136	1.144	1.173	1.139	2.2	
Di-n-Octyl Phthalate	4.045	3.341	4.127	4.249	4.295	4.011	9.7	*
Benzo(b)Fluoranthene	1.594	1.489	1.892	1.963	1.856	1.759	11.7	
Benzo(k)Fluoranthene	1.594	1.489	1.892	1.963	1.859	1.759	11.7	
Benzo(a)Pyrene	1.310	1.300	1.426	1.516	1.501	1.411	7.3	*
Indeno(1,2,3-cd)Pyrene	1.498	1.457	1.626	1.666	1.636	1.577	5.9	
Dibenz(a,h)Anthracene	1.351	1.216	1.258	1.332	1.313	1.294	4.3	
Benzo(g,h,i)Perylene	1.178	1.140	1.221	1.300	1.240	1.216	5.0	

Response Factor (number is the amount of nanograms)
AVE RF - Average Response Factor
%RSD - - Percent Relative Standard Deviation
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
x - - - Not detectable at 20 ng
(1) - - Cannot be separated from diphenylamine

Form VI

SAMPLE NUMBER: FB795

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: CKT DATAFILE: EU12052V04

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT cut UG/KG ~~UG/L~~
4516-69-2	Cyclopentane 1,1,3-Trimethyl-	420	831	22 J
51655-64-2	Nonane, 3-Methylene-	465	821	10 J
638-04-0	Cyclohexane, 1,3-Dimethyl-, cis.	487	759	11 J
50876-33-0	Cyclopentane, 1,1,3,3-Tetramethyl	507	756	260 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	525		24 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	571		95 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	592		20 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FB795

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C04

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/KG
108-21-4	ACETIC ACID, 1-METHYLETHYL ESTER	263	787	2000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	301		59000 J
52896-87-4	HEPTANE, 4-(1-METHYLETHYL)-	341	930	1800 J
17301-32-5	UNDECANE, 4,7-DIMETHYL-	783	855	2200 J
17301-32-5	UNDECANE, 4,7-DIMETHYL-	885	885	3800 J
74645-98-0	DODECANE, 2,7,10-TRIMETHYL-	959	753	1700 J
17301-32-5	UNDECANE, 4,7-DIMETHYL-	980	865	4400 J
295-17-0	CYCLOTETRADECANE	1025	755	1800 J
17312-53-7	DECANE, 3,6-DIMETHYL-	1036	850	3100 J
17301-32-5	UNDECANE, 4,7-DIMETHYL-	1069	816	4600 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1115		2100 J
17301-32-5	UNDECANE, 4,7-DIMETHYL-	1153	812	2900 J
629-78-7	HEPTADECANE	1232	816	5400 J
1921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	1237	795	4200 J
10544-50-0	SULFUR, MOL. (S8)	1488	753	3200 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1700		8400 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1751		2700 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1956		3000 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2008		1500 J

SPECTRIX D.C. # 5314-06-8

Sample Number
FB797

ORGANICS ANALYSIS DATA SHEET

(Page 1)

Laboratory Name: SPECTRIX CORP.
Lab Sample ID No: 851205205
Sample Matrix: SOIL
Data Release Authorized By: 110

Case No: 5314
QC Report No: 157
Contract No: 68-01-6798
Date Sample Received: 12/18/85

VOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/27/85
Date Analyzed: 12/27/85
Conc/Dil Factor: 1. pH 7.60
Percent Moisture: (Not Decanted) 15.0

CAS Number		ug/kg	CAS Number		ug/kg
74-87-3	Chloromethane	12. U	78-87-5	1,2-Dichloropropane	5.9U
74-83-9	Bromomethane	12. U	10061-02-6	Trans-1,3-Dichloroproene	5.9U
75-01-4	Vinyl Chloride	12. U	79-01-6	Trichloroethene	5.9U
75-00-3	Chloroethane	12. U	124-48-1	Dibromochloromethane	5.9U
75-09-2	Methylene Chloride	15. B	79-00-5	1,1,2-Trichloroethane	5.9U
67-64-1	Acetone	350.	71-43-2	Benzene	5.9U
75-15-0	Carbon Disulfide	5.9U	10061-01-5	cis-1,3-Dichloropropene	5.9U
75-35-4	1,1-Dichloroethene	5.9U	110-75-8	2-Chloroethylvinylether	12. U
75-[illegible]5-3	1,1-Dichloroethane	5.9U	75-25-2	Bromoform	5.9U
156-60-5	Trans-1,2-Dichloroethene	5.9U	108-10-1	4-Methyl-2-Pentanone	12. U
67-66-3	Chloroform	5.9U	591-78-6	2-Hexanone	12. U
107-06-2	1,2-Dichloroethane	5.9U	127-18-4	Tetrachloroethene	5.9U
78-93-3	2-Butanone	12. U	79-34-5	1,1,2,2-Tetrachloroethane	5.9U
71-55-6	1,1,1-Trichloroethane	5.9U	108-88-3	Toluene	2.0BJ
56-23-5	Carbon Tetrachloride	5.9U	108-90-7	Chlorobenzene	5.9U
108-05-4	Vinyl Acetate	12. U	100-41-4	Ethylbenzene	5.9U
75-27-4	Bromodichloromethane	5.9U	100-42-5	Styrene	5.9BU
				Total Xylenes	5.9U

B - Compound was detected in the QC blank.
J - Reported value is less than the detection limit.
U - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

See page 1A for complete definitions of the data reporting qualifiers.

Form I

SUPERFUND FILE
AUG 27 1992
REORGANIZED
Sun Refinery + Marketing
OKD058078775

SPECTRIX D.C. # 5314-06-8

Laboratory Name: SPECTRIX CORP.
Case No: 5314

Sample Number
FB797

ORGANICS ANALYSIS DATA SHEET
(Page 2)

SEMIVOLATILE COMPOUNDS

Concentration: LOW
Date Extracted/Prepared: 12/19/85
Date Analyzed: 01/09/86
Conc/Dil Factor: 1.
Percent Moisture: (Decanted) —

GPC Cleanup ___ Yes _X_ No
Separatory Funnel Extraction ___ Yes
Continuous Liquid-Liquid Extraction ___ Yes

CAS Number		ug/kg	
108-95-2	Phenol	390.	U
111-44-4	bis(2-Chloroethyl)Ether	390.	U
95-57-8	2-Chlorophenol	390.	U
541-73-1	1,3-Dichlorobenzene	390.	U
106-46-7	1,4-Dichlorobenzene	390.	U
100-51-6	Benzyl Alcohol	390.	U
95-50-1	1,2-Dichlorobenzene	390.	U
95-48-7	2-Methylphenol	390.	U
39638-32-9	bis(2-Chloroisopropyl)Ether	390.	U
106-44-5	4-Methylphenol	390.	U
621-64-7	N-Nitroso-Di-n-Propylamine	390.	U
67[illegible]2-1	Hexachloroethane	390.	U
98-95-3	Nitrobenzene	390.	U
78-59-1	Isophorone	390.	U
88-75-5	2-Nitrophenol	390.	U
105-67-9	2,4-Dimethylphenol	390.	U
65-85-0	Benzoic Acid	1900.	U
111-91-1	bis(2-Chloroethoxy)Methane	390.	U
120-83-2	2,4-Dichlorophenol	390.	U
120-82-1	1,2,4-Trichlorobenzene	390.	U
91-20-3	Naphthalene	390.	U
106-47-8	4-Chloroaniline	390.	U
87-68-3	Hexachlorobutadiene	390.	U
59-50-7	4-Chloro-3-Methylphenol	390.	U
91-57-6	2-Methylnaphthalene	390.	U
77-47-4	Hexachlorocyclopentadiene	390.	U
88-06-2	2,4,6-Trichlorophenol	390.	U
95-95-4	2,4,5-Trichlorophenol	1900.	U
91-58-7	2-Chloronaphthalene	390.	U
88-74-4	2-Nitroaniline	1900.	U
131-11-3	Dimethyl Phthalate	390.	U
208-96-8	Acenaphthylene	390.	U
99-09-2	3-Nitroaniline	1900.	U

CAS Number		ug/kg	
83-32-9	Acenaphthene	390.	U
51-28-5	2,4-Dinitrophenol	1900.	U
100-02-7	4-Nitrophenol	1900.	U
132-64-9	Dibenzofuran	390.	U
121-14-2	2,4-Dinitrotoluene	390.	U
606-20-2	2,6-Dinitrotoluene	390.	U
84-66-2	Diethylphthalate	390.	U
7005-72-3	4-Chlorophenyl-phenylether	390.	U
86-73-7	Fluorene	390.	U
100-10-6	4-Nitroaniline	1900.	U
534-52-1	4,6-Dinitro-2-Methylphenol	1900.	U
86-30-6	N-Nitrosodiphenylamine (1)	390.	U
101-55-3	4-Bromophenyl-phenylether	390.	U
118-74-1	Hexachlorobenzene	390.	U
87-86-5	Pentachlorophenol	1900.	U
85-01-8	Phenanthrene	390.	U
120-12-7	Anthracene	390.	U
84-74-2	Di-n-Butylphthalate	390.	U
206-44-0	Fluoranthene	390.	U
129-00-0	Pyrene	390.	U
85-68-7	Butylbenzylphthalate	390.	U
91-94-1	3,3'-Dichlorobenzidine	780.	U
56-55-3	Benzo(a)Anthracene	390.	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~3069.~~ 2J	NOT
218-01-9	Chrysene	390.	U
117-84-0	Di-n-Octyl Phthalate	390.	U
205-99-2	Benzo(b)Fluoranthene	390.	U
207-08-9	Benzo(k)Fluoranthene	390.	U
50-32-8	Benzo(a)Pyrene	390.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	390.	U
53-70-3	Dibenz(a,h)Anthracene	390.	U
191-24-2	Benzo(g,h,i)Perylene	390.	U

(1) - Cannot be separated from diphenylamine

Form I

SAMPLE NUMBER: FB797

ORGANICS ANALYSIS DATA SHEET - PAGE 4

LABORATORY NAME: SPECTRIX CORPORATION CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: TTO DATAFILE: EU12052V05

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	VOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT ug/L ug/KG ~~UG/L~~
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	36		39 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	97		49 J

J = Estimated value - A 1:1 Response Factor is assumed

Inst ID: 4530 Spectrix DC # 5314-6- 8

SAMPLE: FB797

Organics Analysis Data Sheet - Page 5

LABORATORY NAME: Spectrix Corporation CASE NO.: 5314

QC REPORT NO.: 157 ANALYST: YPH DATAFILE: EU12052C05

B. TENTATIVELY IDENTIFIED COMPOUNDS

CAS #	SEMIVOLATILE COMPOUND NAMES	SCAN#	PURITY	AMOUNT
				UG/KG
108-21-4	Acetic Acid, 1-Methylethyl Ester	300	803	1300 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	342		30000 J
3074-71-3	Heptane, 2,3-Dimethyl-	353	849	950 J
5216-34-4	Octane, 4-Methyl-	365	911	1100 J
52896-87-4	Heptane, 4-(Methylethyl)-	376	913	1200 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	442		350 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	522		660 J
1120-07-6	Nonanamide	1567	866	220 J
		~~1578~~ YPH		~~880 J~~ YPH
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1677		540 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	1796		250 J
	UNKNOWN - DOESN'T MATCH ANY LIBRARY SPECTRA	2197		690 J

J = Estimated value - A 1:1 Response Factor is assumed

SPECTRIX CORPORATION CASE NO: 5314 DOCUMENT CONTROL NO: 5314 - 6 -21

CHECKLIST

SECTION III SMO NO. FB798

SAMPLE DATA PACKAGE

✓ A. * Organic Analysis Data Sheets, Form I, p. 1-3

VOA, p.1 ✓ SV, p.2 ✓ Pest, p.3 ✓

✓ B. Organic Analysis Data Sheet, Tentatively Identified Compounds, Form I, Part B, p. 4-5

VOA, p.4 ✓ SV, p.5 ✓

SUPERFUND FILE

___ C. Raw data: Sun Refinery + Marketing OKD058078775

AUG 27 1992

✓ Volatile Fraction

REORGANIZED

✓ 1. Sample chromatogram - RIC

✓ 2. Data system printout - QUANTITATION REPORT

✓ 3. Spectra of detected HSL compounds - DUAL MASS SPECTRUM

✓ 4. Spectra of tentatively identified compounds along with library spectra of 3 best fit - LIBRARY SEARCH

✓ 5. Chromatogram of tentatively ID'ed compounds - RIC

✓ Semivolatile Fraction

✓ 1. Sample chromatogram - RIC

✓ 2. Data system printout - QUANTITATION REPORT

✓ 3. Spectra of detected HSL compounds - DUAL MASS SPECTRUM

✓ 4. Spectra of tentatively identified compounds along with library spectra of 3 best fit - LIBRARY SEARCH

✓ 5. Chromatrogram of tentatively ID'ed compounds - RIC

___ Pesticide Fraction

___ 1. Chromatogram and data system printout.

___ 2. 2nd column confirmation chromatogram or GC/MS spectra, chromatogram, and computer generated report.

* Signed by Project Manager