0000013
9106L750-WES-090

0044103

WESTON

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 05-31-91
RFW #: 9106L750, GC/MS VOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of sixteen (16) soil samples collected on 05-28-91.

The samples were analyzed according to criteria set forth in CLP SOW 2/88 (rev 5/89) for TCL Volatile target compounds on 06-03,04,05-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. All surrogate recoveries were within EPA QC limits.

3. Samples BOOYC6, BOOYC7, and BOOYC8 required five-fold dilutions because they contained high levels of both target and non-target compounds.

4. Matrix spike and spike duplicate samples are associated with RFW lot 9106L749.

5. The laboratory blanks contained the common contaminants methylene chloride and acetone at levels less than 3x the CRQL.

6. All internal standard area and retention time criteria were met.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

7.11.91.
Date

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9106 1750

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9105-5748

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: WESTINGHOUSE HANFORD
Est. Final Proj. Sampling Date:
Work Order #: 6168-02-01
Project Contact/Phone #:
AD Project Manager: Joru King
QC: CLP Del: CLP TAT: 35 day
Date Rec'd: 5/24/91 Date Due: 7/5/91
Account #: WS-HANFORD

Refrigerator #																					
#/Type Container	Liquid																				
	Solid	3/G	1/G	→								1/G		1/G	1/G						
Volume	Liquid																				
	Solid	125	250	→								25		250	250						
Preservatives																					
ANALYSES REQUESTED →		ORGANIC										INORG									
		VOA	BNA	Pest/PCB	Herb							Metal	CN	Anions	Radio Chem						
		062414	062554	0PCB								See Below		See Below	ISOTOPE						
MATRIX CODES: S - Soil, SE - Sediment, SO - Solid, SL - Sludge, W - Water, O - Oil, A - Air, DS - Drum Solids, DL - Drum Liquids, L - EP/TCLP Leachate, WI - Wipe, X - Other, F - Fish																					
Lab ID	Client ID/Description	Matrix QC Chosen (✓)	Matrix	Date Collected																	
001	B00Y97		S	5/23/91	✓	✓	✓					✓		✓	✓						
2	B00Y98																				
3	99																				
4	B3																				
5	B4																				
6	B5																				
7	B6																				
8	B9																				
9	C3																				
10	C6																				

Special Instructions:

Anions = ICCL, ICFL, ICNO2
ICNO3, IC SO4, IC PO4
metals = Westinghouse ICP
original per written

DATE/REVISIONS:

6/3/91 1. 015, 016, 017 added to COC
6/3/91 2. NOT RADIOACTIVE
3.
4.
5.
6.

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Samples were: 1) Shipped ✓ or Hand Delivered ___ Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition (Y) or N
4) Properly Preserved (Y) or N
5) Received Within Holding Times (Y) or N

COC Tape was: 1) Present on Outer Package (Y) or N
2) Unbroken on Outer Package (Y) or N
3) Present on Sample (Y) or N
4) Unbroken on Sample (Y) or N
COC Record Present Upon Sample Rec'd (Y) or N

Discrepancies Between Samples Labels and COC Record? (Y) or N
NOTES: individual date collected not indicated

Relinquished by	Received by	Date	Time
Emery	P Gegu	5/31/91	4:30 pm

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-8/90 L372 L373 L375 L377 L378 Ref# Cooler# 381-596a

0000002

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9106L750

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9105L748

Custody Transfer Record/Lab Work Request

WESTON

Page 2 of 2

Client: WESTINGHOUSE HANFORD
Est. Final Proj. Sampling Date:
Work Order #: 6168-02-01
Project Contact/Phone #:
AD Project Manager: Josi King
QC: CLP Del: CLP TAT: 35 days
Date Rec'd: 5/3/91 Date Due: 7/5/91
Account #: WS HANFORD

Refrigerator #																		
#/Type Container	Liquid																	
	Solid																	
Volume	Liquid																	
	Solid																	
Preservatives																		
ANALYSES REQUESTED →		ORGANIC										INORG						
		VOA	BNA	Pest/PCB	Herb							Metal	CN	Bioas	Bioas Chem			
		0/60/4H	0/60/4H	0/60								Metals to						

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓)	Matrix	Date Collected	VOA	BNA	Pest/PCB	Metal	Bioas	Bioas Chem
11	BOOYC7		S	5/28/91	✓	✓	✓	✓	✓	✓
12	BOOYC8									
13	BOOYC9									
14	BOOYDO									
15	BOOYBO			5/28/91				✓		
16	YB1				✓					
17	YB2				✓					

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

RFW 21-21 001/A 8 90 L372 L373 L375 L377 L378 Rel# Cooler# 381 596a

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Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 14:05 Page: 1a

	Cust ID:	BOOY97		BOOY98		BOOY99		BOOYB3		BOOYB4		BOOYB5	
Sample Information	RFW#:	001		002		003		004		005		006	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1.00		1.00		1.02		1.02		1.02		0.980	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Toluene-d8	114	%	107	%	108	%	112	%	115	%	107	%
	Bromofluorobenzene	99	%	99	%	96	%	102	%	99	%	100	%
	1,2-Dichloroethane-d4	118	%	113	%	108	%	115	%	118	%	110	%
Chloromethane		10	U	10	U	11	U	11	U	11	U	10	U
Bromomethane		10	U	10	U	11	U	11	U	11	U	10	U
Vinyl Chloride		10	U	10	U	11	U	11	U	11	U	10	U
Chloroethane		10	U	10	U	11	U	11	U	11	U	10	U
Methylene Chloride		35	B	26	B	27	B	29	B	34	B	26	B
Acetone		24		17		21		23		27		25	
Carbon Disulfide		5	U	5	U	6	U	6	U	6	U	5	U
1,1-Dichloroethene		5	U	5	U	6	U	6	U	6	U	5	U
1,1-Dichloroethane		5	U	5	U	6	U	6	U	6	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	6	U	6	U	6	U	5	U
Chloroform		5	U	5	U	6	U	6	U	6	U	5	U
1,2-Dichloroethane		5	U	5	U	6	U	6	U	6	U	5	U
2-Butanone		10	U	10	U	11	U	11	U	11	U	10	U
1,1,1-Trichloroethane		5	U	5	U	6	U	6	U	6	U	5	U
Carbon Tetrachloride		5	U	5	U	6	U	6	U	6	U	5	U
Vinyl Acetate		10	U	10	U	11	U	11	U	11	U	10	U
Bromodichloromethane		5	U	5	U	6	U	6	U	6	U	5	U
1,2-Dichloropropane		5	U	5	U	6	U	6	U	6	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	6	U	6	U	6	U	5	U
Trichloroethene		5	U	5	U	6	U	6	U	6	U	5	U
Dibromochloromethane		5	U	5	U	6	U	6	U	6	U	5	U
1,1,2-Trichloroethane		5	U	5	U	6	U	6	U	6	U	5	U
Benzene		5	U	5	U	6	U	6	U	6	U	5	U
Trans-1,3-Dichloropropene		5	U	5	U	6	U	6	U	6	U	5	U
Bromoform		5	U	5	U	6	U	6	U	6	U	5	U
4-Methyl-2-pentanone		10	U	10	U	11	U	11	U	11	U	10	U
2-Hexanone		10	U	10	U	11	U	11	U	11	U	10	U
Tetrachloroethene		5	U	5	U	6	U	6	U	6	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	6	U	6	U	6	U	5	U

*= Outside of EPA CLP QC limits.

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Cust ID:	BOOY97	BOOY98	BOOY99	BOOYB3	BOOYB4	BOOYB5
RFW#:	001	002	003	004	005	006
Toluene	5 U	5 U	6 U	6 U	6 U	5 U
Chlorobenzene	5 U	5 U	6 U	6 U	6 U	5 U
Ethylbenzene	5 U	5 U	6 U	6 U	6 U	5 U
Styrene	5 U	5 U	6 U	6 U	6 U	5 U
Xylene (total)	5 U	5 U	6 U	6 U	6 U	5 U

*= Outside of EPA CLP QC limits.

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Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 14:05 Page: 2a

	Cust ID:	BOOYB6	BOOYB9	BOOYC3	BOOYC6	BOOYC7	BOOYC8
Sample Information	RFW#:	007	008	009	010	011	012
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	4.55	5.00	5.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Toluene-d8	111 %	100 %	105 %	107 %	113 %	104 %
	Bromofluorobenzene	97 %	93 %	96 %	100 %	98 %	104 %
	1,2-Dichloroethane-d4	110 %	100 %	114 %	110 %	112 %	104 %
Chloromethane		10 U	10 U	10 U	47 U	52 U	51 U
Bromomethane		10 U	10 U	10 U	47 U	52 U	51 U
Vinyl Chloride		10 U	10 U	10 U	47 U	52 U	51 U
Chloroethane		10 U	10 U	10 U	47 U	52 U	51 U
Methylene Chloride		51 B	38 B	35 B	190 B	240 B	140 B
Acetone		18 B	20 B	48 B	190 B	180 B	140 B
Carbon Disulfide		5 U	5 U	5 U	24 U	26 U	26 U
1,1-Dichloroethene		5 U	5 U	5 U	24 U	26 U	26 U
1,1-Dichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
1,2-Dichloroethene (total)		5 U	5 U	5 U	24 U	26 U	26 U
Chloroform		5 U	5 U	5 U	24 U	9 J	6 J
1,2-Dichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
2-Butanone		10 U	10 U	10 U	47 U	52 U	51 U
1,1,1-Trichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
Carbon Tetrachloride		5 U	5 U	5 U	24 U	26 U	26 U
Vinyl Acetate		10 U	10 U	10 U	47 U	52 U	51 U
Bromodichloromethane		5 U	5 U	5 U	24 U	26 U	26 U
1,2-Dichloropropane		5 U	5 U	5 U	24 U	26 U	26 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	24 U	26 U	26 U
Trichloroethene		5 U	5 U	5 U	24 U	26 U	26 U
Dibromochloromethane		5 U	5 U	5 U	24 U	26 U	26 U
1,1,2-Trichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
Benzene		5 U	5 U	5 U	24 U	26 U	26 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	24 U	26 U	26 U
Bromoform		5 U	5 U	5 U	24 U	26 U	26 U
4-Methyl-2-pentanone		10 U	10 U	10 U	47 U	52 U	51 U
2-Hexanone		10 U	10 U	10 U	47 U	52 U	51 U
Tetrachloroethene		5 U	5 U	5 U	78	100	46
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	86	110	26 U

*= Outside of EPA CLP QC limits.

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Cust ID:	BOOYB6	BOOYB9	BOOYC3	BOOYC6	BOOYC7	BOOYC8
RFW#:	007	008	009	010	011	012
Toluene	5 U	5 U	5 U	24 U	26 U	26 U
Chlorobenzene	5 U	5 U	5 U	24 U	26 U	26 U
Ethylbenzene	5 U	5 U	5 U	24 U	26 U	26 U
Styrene	5 U	5 U	5 U	24 U	26 U	26 U
Xylene (total)	5 U	5 U	5 U	24 U	26 U	26 U

*= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 14:05 Page: 3a

	Cust ID:	BOOYC9		BOOYD0		BOOYB1		BOOYB2		VBLK		VBLK	
Sample Information	RFW#:	013		014		016		017		91LVB309-MB1		91LVB310-MB1	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Toluene-d8	102	%	90	%	95	%	104	%	102	%	106	%
	Bromofluorobenzene	114	%	84	%	98	%	101	%	96	%	102	%
	1,2-Dichloroethane-d4	117	%	81	%	98	%	104	%	103	%	110	%
			fl		fl		fl		fl		fl		fl
Chloromethane		11	U	11	U	10	U	10	U	10	U	10	U
Bromomethane		11	U	11	U	10	U	10	U	10	U	10	U
Vinyl Chloride		11	U	11	U	10	U	10	U	10	U	10	U
Chloroethane		11	U	11	U	10	U	10	U	10	U	10	U
Methylene Chloride		31	B	42	B	42	B	48	B	5		11	
Acetone		29	B	35	B	41	B	55	B	10	U	10	
Carbon Disulfide		6	U	6	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		6	U	6	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane		6	U	6	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		6	U	6	U	5	U	5	U	5	U	5	U
Chloroform		6	U	6	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		6	U	6	U	5	U	5	U	5	U	5	U
2-Butanone		11	U	11	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		6	U	6	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		6	U	6	U	5	U	5	U	5	U	5	U
Vinyl Acetate		11	U	11	U	10	U	10	U	10	U	10	U
Bromodichloromethane		6	U	6	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		6	U	6	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		6	U	6	U	5	U	5	U	5	U	5	U
Trichloroethene		6	U	6	U	5	U	5	U	5	U	5	U
Dibromochloromethane		6	U	6	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		6	U	6	U	5	U	5	U	5	U	5	U
Benzene		6	U	6	U	5	U	5	U	5	U	5	U
Trans-1,3-Dichloropropene		6	U	6	U	5	U	5	U	5	U	5	U
Bromoform		6	U	6	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		11	U	11	U	10	U	10	U	10	U	10	U
2-Hexanone		11	U	11	U	10	U	10	U	10	U	10	U
Tetrachloroethene		6	U	6	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		6	U	6	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000008

Cust ID:	BOOYC9	BOOYD0	BOOYB1	BOOYB2	VBLK	VBLK
RFW#:	013	014	016	017	91LVB309-MB1	91LVB310-MB1
Toluene	6 U	6 U	5 U	5 U	5 U	5 U
Chlorobenzene	6 U	6 U	5 U	5 U	5 U	5 U
Ethylbenzene	6 U	6 U	5 U	5 U	5 U	5 U
Styrene	6 U	6 U	5 U	5 U	5 U	5 U
Xylene (total)	6 U	6 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

1A

VOLATILE ORGANICS ANALYSIS SHEET

0000027 CLIENT SAMPLE NO.

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060304

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	35	B
67-64-1	Acetone	24	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

000002

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060304

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

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1A
VOLATILE ORGANICS ANALYSIS SHEET

0000036 CLIENT SAMPLE NO.

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-002

Sample wt/vol: 5.00 (g/mL) G Lab File ID: B060305

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 Date Analyzed: 06/03/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	26	B
67-64-1	Acetone	17	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

0000037 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-002

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060305

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS SHEET

000004 CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 4.90 (g/mL) G Lab File ID: B060306

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 Date Analyzed: 06/03/91

Column: (pack/cap) CAP Dilution Factor: 1.02

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	27	B
67-64-1	Acetone	21	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

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VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-003

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060306

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

Number TICs found: 0

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

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

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1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-004

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060307

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 6

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	29	B
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

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0000054

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-004

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060307

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 6

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

Number TICs found: 0

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

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

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VOLATILE ORGANICS ANALYSIS SHEET

0000062 CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 4.90 (g/mL) G Lab File ID: B060308

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 Date Analyzed: 06/03/91

Column: (pack/cap) CAP Dilution Factor: 1.02

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	34	B
67-64-1	Acetone	27	
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

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000006 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-005

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060308

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

Number TICs found: 0

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

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

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000007 CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 5.10 (g/mL) G Lab File ID: B060309

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 Date Analyzed: 06/03/91

Column: (pack/cap) CAP Dilution Factor: 0.980

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	26	B
67-64-1	Acetone	25	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

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0000072 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-006

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: B060309

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 0.980

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	PENTACHLOROBUTADIENE	26.35	7	J
2.	HEXACHLOROBUTADIENE	27.18	9	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

000008 CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-007

Sample wt/vol: 5.00 (g/mL) G Lab File ID: B060505

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 1 Date Analyzed: 06/05/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	51	B
67-64-1	Acetone	18	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

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0000084 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-007

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060505

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 1

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-72-1	HEXACHLOROETHANE	24.93	9	J
2.	PENTACHLOROBUTADIENE	26.33	20	J
3.	HEXACHLOROBUTADIENE	27.17	30	J

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VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060506

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	38	B
67-64-1	Acetone	20	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

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0000097 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060506

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	PENTACHLOROBUTADIENE	26.33	8	J
2.	HEXACHLOROBUTADIENE	27.17	10	J

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0000108 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-009

Sample wt/vol: 5.00 (g/mL) G Lab File ID: B060507

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 Date Analyzed: 06/05/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	35	B
67-64-1	Acetone	48	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

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0000109 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-009

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060507

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	26.07	6	J
2.	UNKNOWN	26.53	20	J
3.	HYDROCARBON	27.12	20	J
4.	UNKNOWN	27.35	20	J

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VOLATILE ORGANICS ANALYSIS SHEET

0000122

CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

Sample wt/vol: 1.10 (g/mL) G

Lab File ID: B060509

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 4.55

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	47	U
74-83-9	Bromomethane	47	U
75-01-4	Vinyl Chloride	47	U
75-00-3	Chloroethane	47	U
75-09-2	Methylene Chloride	190	B
67-64-1	Acetone	190	B
75-15-0	Carbon Disulfide	24	U
75-35-4	1,1-Dichloroethene	24	U
75-34-3	1,1-Dichloroethane	24	U
540-59-0	1,2-Dichloroethene (total)	24	U
67-66-3	Chloroform	24	U
107-06-2	1,2-Dichloroethane	24	U
78-93-3	2-Butanone	47	U
71-55-6	1,1,1-Trichloroethane	24	U
56-23-5	Carbon Tetrachloride	24	U
108-05-4	Vinyl Acetate	47	U
75-27-4	Bromodichloromethane	24	U
78-87-5	1,2-Dichloropropane	24	U
10061-01-5	cis-1,3-Dichloropropene	24	U
79-01-6	Trichloroethene	24	U
124-48-1	Dibromochloromethane	24	U
79-00-5	1,1,2-Trichloroethane	24	U
71-43-2	Benzene	24	U
10061-02-6	Trans-1,3-Dichloropropene	24	U
75-25-2	Bromoform	24	U
108-10-1	4-Methyl-2-pentanone	47	U
591-78-6	2-Hexanone	47	U
127-18-4	Tetrachloroethene	78	
79-34-5	1,1,2,2-Tetrachloroethane	86	
108-88-3	Toluene	24	U
108-90-7	Chlorobenzene	24	U
100-41-4	Ethylbenzene	24	U
100-42-5	Styrene	24	U
1330-20-7	Xylene (total)	24	U

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0000123 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

Sample wt/vol: 1.10 (g/mL) G

Lab File ID: B060509

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 4.55

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-72-1	HEXACHLOROETHANE	24.95	3000	J
2.	UNKNOWN	25.15	600	J
3.	UNKNOWN	25.43	800	J
4.	HYDROCARBON	25.73	2000	J
5.	ALCOHOL	26.43	3000	J
6.	UNKNOWN	26.57	3000	J
7.	UNKNOWN	27.17	5000	J
8.	ALKANE	27.42	6000	J
9.	UNKNOWN	27.65	3000	J
10.	UNKNOWN	27.88	3000	J

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VOLATILE ORGANICS ANALYSIS SHEET

0000145 CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-011

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B060510

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 Date Analyzed: 06/05/91

Column: (pack/cap) CAP Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	52	U
74-83-9	Bromomethane	52	U
75-01-4	Vinyl Chloride	52	U
75-00-3	Chloroethane	52	U
75-09-2	Methylene Chloride	240	B
67-64-1	Acetone	180	B
75-15-0	Carbon Disulfide	26	U
75-35-4	1,1-Dichloroethene	26	U
75-34-3	1,1-Dichloroethane	26	U
540-59-0	1,2-Dichloroethene (total)	26	U
67-66-3	Chloroform	9	J
107-06-2	1,2-Dichloroethane	26	U
78-93-3	2-Butanone	52	U
71-55-6	1,1,1-Trichloroethane	26	U
56-23-5	Carbon Tetrachloride	26	U
108-05-4	Vinyl Acetate	52	U
75-27-4	Bromodichloromethane	26	U
78-87-5	1,2-Dichloropropane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
79-01-6	Trichloroethene	26	U
124-48-1	Dibromochloromethane	26	U
79-00-5	1,1,2-Trichloroethane	26	U
71-43-2	Benzene	26	U
10061-02-6	Trans-1,3-Dichloropropene	26	U
75-25-2	Bromoform	26	U
108-10-1	4-Methyl-2-pentanone	52	U
591-78-6	2-Hexanone	52	U
127-18-4	Tetrachloroethene	100	
79-34-5	1,1,2,2-Tetrachloroethane	110	
108-88-3	Toluene	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
100-42-5	Styrene	26	U
1330-20-7	Xylene (total)	26	U

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0000146 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-011

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: B060510

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 5.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	PROPYLFURAN	15.62	300	J
2. 67-72-1	HEXACHLOROETHANE	24.93	900	J
3.	UNKNOWN	25.72	700	J
4.	PENTACHLOROBUTADIENE	26.33	1000	J
5.	HYDROCARBON	26.53	200	J
6.	UNKNOWN	27.17	600	J
7.	UNKNOWN	27.37	500	J
8.	HYDROCARBON	27.60	200	J
9.	UNKNOWN	27.85	200	J
10.	UNKNOWN	29.50	100	J

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VOLATILE ORGANICS ANALYSIS SHEET

000017

CLIENT SAMPLE NO.

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: B060511

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	51	U
74-83-9	Bromomethane	51	U
75-01-4	Vinyl Chloride	51	U
75-00-3	Chloroethane	51	U
75-09-2	Methylene Chloride	140	B
67-64-1	Acetone	140	B
75-15-0	Carbon Disulfide	26	U
75-35-4	1,1-Dichloroethene	26	U
75-34-3	1,1-Dichloroethane	26	U
540-59-0	1,2-Dichloroethene (total)	26	U
67-66-3	Chloroform	6	J
107-06-2	1,2-Dichloroethane	26	U
78-93-3	2-Butanone	51	U
71-55-6	1,1,1-Trichloroethane	26	U
56-23-5	Carbon Tetrachloride	26	U
108-05-4	Vinyl Acetate	51	U
75-27-4	Bromodichloromethane	26	U
78-87-5	1,2-Dichloropropane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
79-01-6	Trichloroethene	26	U
124-48-1	Dibromochloromethane	26	U
79-00-5	1,1,2-Trichloroethane	26	U
71-43-2	Benzene	26	U
10061-02-6	Trans-1,3-Dichloropropene	26	U
75-25-2	Bromoform	26	U
108-10-1	4-Methyl-2-pentanone	51	U
591-78-6	2-Hexanone	51	U
127-18-4	Tetrachloroethene	46	
79-34-5	1,1,2,2-Tetrachloroethane	26	U
108-88-3	Toluene	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
100-42-5	Styrene	26	U
1330-20-7	Xylene (total)	26	U

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0000172 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: B060511

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 5.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-72-1	HEXACHLOROETHANE	24.95	2000	J
2.	UNKNOWN	25.72	700	J
3.	UNKNOWN	26.40	2000	J
4.	UNKNOWN	26.53	600	J
5.	~~UNKNOWN~~ Alkene	27.13	1000	J
6.	ALKANE	27.38	2000	J
7.	~~UNKNOWN~~ HC	27.62	600	J
8.	UNKNOWN	27.85	600	J
9.	~~UNKNOWN~~ HC	28.15	600	J
10.	ALKANE	29.50	600	J

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VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060508

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 8

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	31	B
67-64-1	Acetone	29	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

0000193

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VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060508

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 8

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

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VOLATILE ORGANICS ANALYSIS SHEET

000020 CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-014

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6407

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	42	B
67-64-1	Acetone	35	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

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VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-014

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6407

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

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0000208

CLIENT SAMPLE NO.

BOOYB1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-016

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6408

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 0

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	42	B
67-64-1	Acetone	41	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

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0000209

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-016

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6408

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 0

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

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00002 CLIENT SAMPLE NO.

BOOYB2

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-017

Sample wt/vol: 5.00 (g/mL) G Lab File ID: AX6409

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 0 Date Analyzed: 06/04/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	48	B
67-64-1	Acetone	55	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

FORM 1 V-1 12/88 Rev.

BEST AVAILABLE COPY

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0 0 0 0 2 1 7 CLIENT SAMPLE NO.

BOOYB2

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-017

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6409

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 0

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

FORM 1 VOA-TIC 12/88 Rev.

DEPARTURE COPY

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 19:20 Page: 1a

	Cust ID:	BOOY97	BOOY97	BOOY97	BOOY98	BOOY99	BOOYB3
Sample Information	RFW#:	001	001 MS	001 MSD	002	003	004
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Nitrobenzene-d5	95 %	80 %	76 %	93 %	85 %	84 %
	2-Fluorobiphenyl	93 %	85 %	75 %	91 %	85 %	85 %
	p-Terphenyl-d14	113 %	96 %	89 %	114 %	110 %	107 %
	Phenol-d5	110 %	99 %	94 %	110 %	100 %	93 %
	2-Fluorophenol	106 %	97 %	96 %	113 %	96 %	100 %
	2,4,6-Tribromophenol	94 %	77 %	79 %	106 %	96 %	96 %
Phenol		340 U	96 * %	91 * %	340 U	340 U	350 U
bis(2-Chloroethyl)ether		340 U	340 U	340 U	340 U	340 U	350 U
2-Chlorophenol		340 U	79 %	77 %	340 U	340 U	350 U
1,3-Dichlorobenzene		340 U	340 U	340 U	340 U	340 U	350 U
1,4-Dichlorobenzene		340 U	81 %	75 %	340 U	340 U	350 U
Benzyl alcohol		340 U	340 U	340 U	340 U	340 U	350 U
1,2-Dichlorobenzene		340 U	340 U	340 U	340 U	340 U	350 U
2-Methylphenol		340 U	340 U	340 U	340 U	340 U	350 U
bis(2-Chloroisopropyl)ether		340 U	340 U	340 U	340 U	340 U	350 U
4-Methylphenol		340 U	340 U	340 U	340 U	340 U	350 U
N-Nitroso-Di-n-propylamine		340 U	73 %	67 %	340 U	340 U	350 U
Hexachloroethane		340 U	340 U	340 U	340 U	340 U	350 U
Nitrobenzene		340 U	340 U	340 U	340 U	340 U	350 U
Isophorone		340 U	340 U	340 U	340 U	340 U	350 U
2-Nitrophenol		340 U	340 U	340 U	340 U	340 U	350 U
2,4-Dimethylphenol		340 U	340 U	340 U	340 U	340 U	350 U
Benzoic acid		1700 U	1700 U	1700 U	1700 U	1700 U	1800 U
bis(2-Chloroethoxy)methane		340 U	340 U	340 U	340 U	340 U	350 U
2,4-Dichlorophenol		340 U	340 U	340 U	340 U	340 U	350 U
1,2,4-Trichlorobenzene		340 U	82 %	76 %	340 U	340 U	350 U
Naphthalene		340 U	340 U	340 U	340 U	340 U	350 U
4-Chloroaniline		340 U	340 U	340 U	340 U	340 U	350 U
Hexachlorobutadiene		340 U	340 U	340 U	340 U	340 U	350 U
4-Chloro-3-methylphenol		340 U	90 %	81 %	340 U	340 U	350 U
2-Methylnaphthalene		340 U	340 U	340 U	340 U	340 U	350 U
Hexachlorocyclopentadiene		340 U	340 U	340 U	340 U	340 U	350 U

*= Outside of EPA CLP QC limits.

0000014

Cust ID:	BOOY97		BOOY97		BOOY97		BOOY98		BOOY99		BOOYB3	
RFW#:	001		001 MS		001 MSD		002		003		004	
2,4,6-Trichlorophenol	340	U	340	U	340	U	340	U	340	U	350	U
2,4,5-Trichlorophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
2-Chloronaphthalene	340	U	340	U	340	U	340	U	340	U	350	U
2-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
Dimethylphthalate	340	U	340	U	340	U	340	U	340	U	350	U
Acenaphthylene	340	U	340	U	340	U	340	U	340	U	350	U
2,6-Dinitrotoluene	340	U	340	U	340	U	340	U	340	U	350	U
3-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
Acenaphthene	340	U	95	%	86	%	340	U	340	U	350	U
2,4-Dinitrophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
4-Nitrophenol	1700	U	95	%	85	%	1700	U	1700	U	1800	U
Dibenzofuran	340	U	340	U	340	U	340	U	340	U	350	U
2,4-Dinitrotoluene	340	U	99 *	%	85	%	340	U	340	U	350	U
Diethylphthalate	340	U	340	U	340	U	340	U	340	U	350	U
4-Chlorophenyl-phenylether	340	U	340	U	340	U	340	U	340	U	350	U
Fluorene	340	U	340	U	340	U	340	U	340	U	350	U
4-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
4,6-Dinitro-2-methylphenol	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
N-Nitrosodiphenylamine (1)	340	U	340	U	340	U	340	U	340	U	350	U
4-Bromophenyl-phenylether	340	U	340	U	340	U	340	U	340	U	350	U
Hexachlorobenzene	340	U	340	U	340	U	340	U	340	U	350	U
Pentachlorophenol	1700	U	92	%	75	%	1700	U	1700	U	1800	U
Phenanthrene	340	U	340	U	340	U	340	U	340	U	350	U
Anthracene	340	U	340	U	340	U	340	U	340	U	350	U
Di-n-Butylphthalate	1700		710		730		1500		2500		2800	
Fluoranthene	340	U	340	U	340	U	340	U	340	U	350	U
Pyrene	340	U	96	%	89	%	340	U	340	U	350	U
Butylbenzylphthalate	340	U	340	U	340	U	340	U	340	U	350	U
3,3'-Dichlorobenzidine	680	U	690	U	690	U	690	U	680	U	700	U
Benzo(a)anthracene	340	U	340	U	340	U	340	U	340	U	350	U
Chrysene	340	U	340	U	340	U	340	U	340	U	350	U
bis(2-Ethylhexyl)phthalate	340	U	340	U	340	U	340	U	340	U	350	U
Di-n-Octyl phthalate	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(b)fluoranthene	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(k)fluoranthene	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(a)pyrene	340	U	340	U	340	U	340	U	340	U	350	U
Indeno(1,2,3-cd)pyrene	340	U	340	U	340	U	340	U	340	U	350	U
Dibenzo(a,h)anthracene	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(g,h,i)perylene	340	U	340	U	340	U	340	U	340	U	350	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 19:20 Page: 2a

	Cust ID:	BOOYB4		BOOYB5		BOOYB6		BOOYB9		BOOYC3		BOOYC6	
Sample Information	RFW#:	005		006		007		008		009		010	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Nitrobenzene-d5	87	%	86	%	75	%	78	%	65	%	81	%
	2-Fluorobiphenyl	86	%	89	%	94	%	83	%	82	%	89	%
	p-Terphenyl-d14	104	%	101	%	89	%	86	%	99	%	98	%
	Phenol-d5	99	%	105	%	72	%	87	%	92	%	75	%
	2-Fluorophenol	95	%	106	%	85	%	87	%	104	%	110	%
	2,4,6-Tribromophenol	84	%	92	%	44	%	62	%	91	%	70	%
			fl		fl		fl		fl		fl		fl
Phenol		340	U	340	U	340	U	330	U	340	U	340	U
bis(2-Chloroethyl)ether		340	U	340	U	340	U	330	U	340	U	340	U
2-Chlorophenol		340	U	340	U	340	U	330	U	340	U	340	U
1,3-Dichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
1,4-Dichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
Benzyl alcohol		340	U	340	U	340	U	330	U	340	U	340	U
1,2-Dichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
2-Methylphenol		340	U	340	U	340	U	330	U	340	U	340	U
bis(2-Chloroisopropyl)ether		340	U	340	U	340	U	330	U	340	U	340	U
4-Methylphenol		340	U	340	U	340	U	330	U	340	U	340	U
N-Nitroso-Di-n-propylamine		340	U	340	U	340	U	330	U	340	U	340	U
Hexachloroethane		340	U	340	U	340	U	330	U	340	U	500	
Nitrobenzene		340	U	340	U	340	U	330	U	340	U	340	U
Isophorone		340	U	340	U	340	U	330	U	340	U	340	U
2-Nitrophenol		340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dimethylphenol		340	U	340	U	340	U	330	U	340	U	340	U
Benzoic acid		1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
bis(2-Chloroethoxy)methane		340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dichlorophenol		340	U	340	U	340	U	330	U	340	U	340	U
1,2,4-Trichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
Naphthalene		340	U	340	U	340	U	330	U	340	U	340	U
4-Chloroaniline		340	U	340	U	340	U	330	U	340	U	340	U
Hexachlorobutadiene		340	U	340	U	300	J	330	U	340	U	300	J
4-Chloro-3-methylphenol		340	U	340	U	340	U	330	U	340	U	340	U
2-Methylnaphthalene		340	U	340	U	340	U	330	U	340	U	340	U
Hexachlorocyclopentadiene		340	U	340	U	340	U	330	U	340	U	340	U

*= Outside of EPA CLP QC limits.

000016

Cust ID:	BOOYB4		BOOYB5		BOOYB6		BOOYB9		BOOYC3		BOOYC6	
RFW#:	005		006		007		008		009		010	
2,4,6-Trichlorophenol	340	U	340	U	340	U	330	U	340	U	340	U
2,4,5-Trichlorophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
2-Chloronaphthalene	340	U	340	U	340	U	330	U	340	U	340	U
2-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Dimethylphthalate	340	U	340	U	340	U	330	U	340	U	340	U
Acenaphthylene	340	U	340	U	340	U	330	U	340	U	340	U
2,6-Dinitrotoluene	340	U	340	U	340	U	330	U	340	U	340	U
3-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Acenaphthene	340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dinitrophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
4-Nitrophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Dibenzofuran	340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dinitrotoluene	340	U	340	U	340	U	330	U	340	U	340	U
Diethylphthalate	340	U	340	U	340	U	330	U	340	U	340	U
4-Chlorophenyl-phenylether	340	U	340	U	340	U	330	U	340	U	340	U
Fluorene	340	U	340	U	340	U	330	U	340	U	340	U
4-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
4,6-Dinitro-2-methylphenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
N-Nitrosodiphenylamine (1)	340	U	340	U	340	U	330	U	340	U	340	U
4-Bromophenyl-phenylether	340	U	340	U	340	U	330	U	340	U	340	U
Hexachlorobenzene	340	U	340	U	340	U	330	U	340	U	340	U
Pentachlorophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Phenanthrene	340	U	340	U	340	U	330	U	340	U	340	U
Anthracene	340	U	340	U	340	U	330	U	340	U	340	U
Di-n-Butylphthalate	2400		2000		5500		3600		3200		5500	
Fluoranthene	340	U	340	U	340	U	330	U	340	U	340	U
Pyrene	340	U	340	U	340	U	330	U	340	U	340	U
Butylbenzylphthalate	340	U	340	U	340	U	330	U	340	U	340	U
3,3'-Dichlorobenzidine	690	U	690	U	680	U	670	U	680	U	690	U
Benzo(a)anthracene	340	U	340	U	340	U	330	U	340	U	340	U
Chrysene	340	U	340	U	340	U	330	U	340	U	340	U
bis(2-Ethylhexyl)phthalate	340	U	340	U	340	U	330	U	340	U	340	U
Di-n-Octyl phthalate	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(b)fluoranthene	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(k)fluoranthene	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(a)pyrene	340	U	340	U	340	U	330	U	340	U	340	U
Indeno(1,2,3-cd)pyrene	340	U	340	U	340	U	330	U	340	U	340	U
Dibenzo(a,h)anthracene	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(g,h,i)perylene	340	U	340	U	340	U	330	U	340	U	340	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

0000017

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 19:20 Page: 3a

	Cust ID:	BOOYC7	BOOYC8	BOOYC8	BOOYC9	BOOYD0	SBLK
Sample Information	RFW#:	011	012	012 DL	013	014	91LE0721-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	5.00	1.00	5.00	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Nitrobenzene-d5	21 * %	83 %	101 %	81 %	82 %	77 %
	2-Fluorobiphenyl	52 %	92 %	91 %	83 %	87 %	85 %
	p-Terphenyl-d14	53 %	91 %	81 %	97 %	102 %	89 %
	Phenol-d5	38 %	72 %	54 %	102 %	107 %	103 %
	2-Fluorophenol	53 %	96 %	76 %	93 %	116 %	112 %
	2,4,6-Tribromophenol	31 %	52 %	70 %	54 %	96 %	75 %
		fl	fl	fl	fl	fl	fl
Phenol		1700 U	340 U	NA	340 U	350 U	330 U
bis(2-Chloroethyl)ether		1700 U	340 U	NA	340 U	350 U	330 U
2-Chlorophenol		1700 U	340 U	NA	340 U	350 U	330 U
1,3-Dichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
1,4-Dichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
Benzyl alcohol		1700 U	340 U	NA	340 U	350 U	330 U
1,2-Dichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
2-Methylphenol		1700 U	340 U	NA	340 U	350 U	330 U
bis(2-Chloroisopropyl)ether		1700 U	340 U	NA	340 U	350 U	330 U
4-Methylphenol		1700 U	340 U	NA	340 U	350 U	330 U
N-Nitroso-Di-n-propylamine		1700 U	340 U	NA	340 U	350 U	330 U
Hexachloroethane		1700 U	710	NA	340 U	350 U	330 U
Nitrobenzene		1700 U	340 U	NA	340 U	350 U	330 U
Isophorone		1700 U	340 U	NA	340 U	350 U	330 U
2-Nitrophenol		1700 U	340 U	NA	340 U	350 U	330 U
2,4-Dimethylphenol		1700 U	340 U	NA	340 U	350 U	330 U
Benzoic acid		8400 U	1700 U	NA	1700 U	1700 U	1700 U
bis(2-Chloroethoxy)methane		1700 U	340 U	NA	340 U	350 U	330 U
2,4-Dichlorophenol		1700 U	340 U	NA	340 U	350 U	330 U
1,2,4-Trichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
Naphthalene		1700 U	340 U	NA	340 U	350 U	330 U
4-Chloroaniline		1700 U	340 U	NA	340 U	350 U	330 U
Hexachlorobutadiene		440 J	390	NA	340 U	350 U	330 U
4-Chloro-3-methylphenol		1700 U	340 U	NA	340 U	350 U	330 U
2-Methylnaphthalene		1700 U	340 U	NA	340 U	350 U	330 U
Hexachlorocyclopentadiene		1700 U	340 U	NA	340 U	350 U	330 U

*= Outside of EPA CLP QC limits.

000018

Cust ID:	BOOYC7		BOOYC8		BOOYC8	BOOYC9		BOOYD0		SBLK	
RFW#:	011		012		012 DL	013		014		91LE0721-MB1	
2,4,6-Trichlorophenol	1700	U	340	U	NA	340	U	350	U	330	U
2,4,5-Trichlorophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
2-Chloronaphthalene	1700	U	340	U	NA	340	U	350	U	330	U
2-Nitroaniline	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Dimethylphthalate	1700	U	340	U	NA	340	U	350	U	330	U
Acenaphthylene	1700	U	340	U	NA	340	U	350	U	330	U
2,6-Dinitrotoluene	1700	U	340	U	NA	340	U	350	U	330	U
3-Nitroaniline	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Acenaphthene	1700	U	340	U	NA	340	U	350	U	330	U
2,4-Dinitrophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
4-Nitrophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Dibenzofuran	1700	U	340	U	NA	340	U	350	U	330	U
2,4-Dinitrotoluene	1700	U	340	U	NA	340	U	350	U	330	U
Diethylphthalate	1700	U	340	U	NA	340	U	350	U	330	U
4-Chlorophenyl-phenylether	1700	U	340	U	NA	340	U	350	U	330	U
Fluorene	1700	U	340	U	NA	340	U	350	U	330	U
4-Nitroaniline	8400	U	1700	U	NA	1700	U	1700	U	1700	U
4,6-Dinitro-2-methylphenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
N-Nitrosodiphenylamine (1)	1700	U	340	U	NA	340	U	350	U	330	U
4-Bromophenyl-phenylether	1700	U	340	U	NA	340	U	350	U	330	U
Hexachlorobenzene	1700	U	340	U	NA	340	U	350	U	330	U
Pentachlorophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Phenanthrene	240	J	340	U	NA	340	U	350	U	330	U
Anthracene	1700	U	340	U	NA	340	U	350	U	330	U
Di-n-Butylphthalate	2100			E	6200	3100		3800		330	U
Fluoranthene	1700	U	340	U	NA	340	U	350	U	330	U
Pyrene	1700	U	340	U	NA	340	U	350	U	330	U
Butylbenzylphthalate	1700	U	150	J	NA	38	J	81	J	330	U
3,3'-Dichlorobenzidine	3300	U	690	U	NA	680	U	700	U	670	U
Benzo(a)anthracene	1700	U	340	U	NA	340	U	350	U	330	U
Chrysene	1700	U	340	U	NA	340	U	350	U	330	U
bis(2-Ethylhexyl)phthalate	1700	U	340	U	NA	340	U	350	U	330	U
Di-n-Octyl phthalate	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(b)fluoranthene	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(k)fluoranthene	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(a)pyrene	1700	U	340	U	NA	340	U	350	U	330	U
Indeno(1,2,3-cd)pyrene	1700	U	340	U	NA	340	U	350	U	330	U
Dibenzo(a,h)anthracene	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(g,h,i)perylene	1700	U	340	U	NA	340	U	350	U	330	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

22A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 05-31-91
RFW #: 9106L750, SEMIVOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of fourteen (14) soil samples collected on 05-28-91.

The samples were extracted on 06-04-91 and analyzed according to criteria set forth in CLP SOW 2/88 (rev 5/89) for TCL Semivolatile target compounds on 06-28-91 and 07-02,03,05,08-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Non-target compounds were detected in these samples.

2. One (1) of one hundred fourteen (114) surrogate recoveries was outside EPA QC limits; however, EPA CLP surrogate recovery criteria were met (i.e., no more than one outlier per fraction {acid and base neutral} and no recoveries less than 10%).

3. The following samples required dilutions because they contained high levels of both target and non-target compounds:

Sample ID	Dilution Factor
BOOYC7	5
BOOYC8	5

4. Three (3) of twenty-two (22) matrix spike recoveries were outside EPA QC limits.

5. One (1) of eleven (11) blank spike recoveries was outside EPA QC limits.

6. Internal standard areas were outside QC limits for samples BOOYC8 DL. The original analysis required for this sample fulfilled its re-analysis requirement.

7.10.91.

Jack R. Tuschall, Ph.D. Date
Laboratory Manager
Lionville Analytical Laboratory

1B

0000037 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-001

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062810

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

0000038 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-001

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062810

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	1700	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

0000039

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J062810

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.60	300	JA
2.	ALDOL CONDENSATE	7.12	600	JA
3.	ALDOL CONDENSATE	7.89	100	JA
4.	ALDOL CONDENSATE	8.73	300	JA
5.	UNKNOWN	20.67	200	J
6.	UNKNOWN	24.48	200	J
7.	ALKANE	28.89	200	J
8.	ALKANE	32.88	200	J

1B

0000057

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-002

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: J062811

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-002

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: J062811

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	1500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-002

Sample wt/vol: 30.4 (g/mL) G Lab File ID: J062811

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.61	300	J
2.	ALDOL CONDENSATE	7.13	200	JA
3.	ALDOL CONDENSATE	7.90	300	JA
4.	UNKNOWN	20.67	200	J
5.	UNKNOWN	24.52	200	J

1B

0000074 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 30.6 (g/mL) G Lab File ID: J062812

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 30.6 (g/mL) G Lab File ID: J062812

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-003

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: J062812

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.64	300	J
2.	ALDOL CONDENATE	7.16	500	JA
3.	ALDOL CONDENSATE	7.92	200	JA
4.	ALDOL CONDENSATE	8.75	100	JA
5.	UNKNOWN	20.70	200	J
6.	UNKNOWN	24.60	200	J
7.	ALKANE	28.92	100	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J062813

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J062813

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	2800	
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-Octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

BEST AVAILABLE COPY

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J062813

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.66	300	J
2.	ALDOL CONDENSATE	7.17	200	JA
3.	ALDOL CONDENSATE	7.94	200	JA
4.	UNKNOWN	20.72	200	J
5.	UNKNOWN	24.64	200	J
6.	ALKANE	28.96	100	J

BEST AVAILABLE COPY

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SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000111

CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J062814

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

0000112 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2400	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J062814

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.60	300	JA
2.	ALDOL CONDENSATE	7.12	500	JA
3.	ALDOL CONDENSATE	7.89	300	JA
4.	ALDOL CONDENSATE	8.73	200	JA
5.	ALKANE	14.11	100	J
6.	TRIBUTYLPHOSPHATE	17.77	4000	J
7.	TRIBUTYLPHOSPHATE	19.38	400	J
8.	TRIBUTYLPHOSPHATE	19.62	1000	J
9.	UNKNOWN	20.29	300	J
10.	UNKNOWN	20.67	700	J
11.	UNKNOWN	20.98	100	J
12.	UNKNOWN	21.09	200	J
13.	UNKNOWN	21.43	500	J
14.	ALKANE	21.62	200	J
15.	UNKNOWN	22.00	200	J
16.	UNKNOWN	24.55	200	J
17.	ALKANE	28.89	200	J

0000140

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J062815

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: J062815

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2000	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

0000142

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: J062815

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.60	300	JA
2.	ALDOL CONDENSATE	7.11	600	JA
3.	ALKANE	11.63	200	J
4.	ALKANE	12.55	600	J
5.	ALKANE	12.96	300	J
6.	ALKANE	14.10	500	J
7.	ALKANE	14.41	200	J
8.	ALKANE	15.29	200	J
9.	ALKANE	15.80	100	J
10.	TRIBUTYLPHOSPHATE	17.75	600	J
11.	UNKNOWN	19.35	100	J
12.	ALKANE	19.44	200	J
13.	ALKANE	19.94	100	J
14.	ALKANE	20.15	100	J
15.	ALKANE	20.20	200	J
16.	UNKNOWN	20.66	400	J
17.	UNKNOWN	21.42	200	J
18.	ALKANE	21.60	200	J
19.	UNKNOWN	22.01	200	J
20.	UNKNOWN	24.61	300	J
21.	ALKANE	28.88	200	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-007

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

Lab File ID: J070212

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	300	J
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070212

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 2 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	5500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

0000175

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-007

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

Lab File ID: J070212

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 1.00

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	7.13	400	JA
2.	ALKANE	12.58	300	J
3.	ALKANE	14.12	800	J
4.	ALKANE	15.31	300	J
5.	TRICHLOROBENZENE	15.78	200	J
6.	TRIBUTYLPHOSPHATE	16.67	200	J
7.	PENTACHLOROBENZENE	17.01	300	J
8.	UNKNOWN	17.70	2000	J
9.	TRIBUTYLPHOSPHATE	18.01	100000	J
10.	UNKNOWN	19.13	300	J
11.	UNKNOWN	19.70	30000	J
12.	UNKNOWN	20.32	6000	J
13.	UNKNOWN	20.57	300	J
14.	UNKNOWN	20.70	700	J
15.	UNKNOWN	21.00	100	J
16.	UNKNOWN	21.10	2000	J
17.	UNKNOWN	21.48	400	J
18.	UNKNOWN	21.66	900	J
19.	UNKNOWN	22.01	200	J
20.	UNKNOWN	22.18	200	J

1B

0000208

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: J070213

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

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0000209 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-008

Sample wt/vol: 30.7 (g/mL) G Lab File ID: J070213

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 2 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	3600	
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	670	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-Octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: J070213

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.64	300	J
2.	ALDOL CONDENSATE	7.33	1000	JA
3.	ALDOL CONDENSATE	8.21	200	JA
4.	TRIBUTYLPHOSPHATE	17.94	70000	J
5.	TRIBUTYLPHOSPHATE	19.42	4000	J
6.	TRIBUTYLPHOSPHATE	19.68	10000	J
7.	UNKNOWN	20.33	2000	J
8.	UNKNOWN	20.71	600	J
9.	UNKNOWN	21.12	600	J
10.	UNKNOWN	21.67	200	J
11.	ALKANE	28.96	800	J

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000023

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-009

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J070214

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.5

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J070214

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	3200	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

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0000233

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SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-009

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J070214

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.5

Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	11.46	1000	J
2.	ALKANE	11.69	1000	J
3.	ALKENE	12.07	600	J
4.	ALKENE	12.26	800	J
5.	UNKNOWN	12.46	600	J
6.	ALKANE	12.62	4000	J
7.	ALKENE	12.95	1000	J
8.	ALKANE	13.02	2000	J
9.	UNKNOWN	13.19	800	J
10.	ALKANE	13.30	600	J
11.	ALKANE	13.58	500	J
12.	ALKANE	13.82	500	J
13.	ALKANE	13.96	300	J
14.	ALKANE	14.06	300	J
15.	ALKANE	14.16	2000	J
16.	ALKANE	14.48	1000	J
17.	ALKANE	14.54	500	J
18.	ALKANE	15.34	1000	J
19.	ALKANE	15.85	500	J
20.	TRIBUTYLPHOSPHATE	17.81	5000	J
21.	TRIBUTYLPHOSPHATE	19.66	600	J

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0000263 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070215

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	500	
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	300	J
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

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SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

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

Lab File ID: J070215

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	5500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

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0000265

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

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

Lab File ID: J070215

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

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

Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.48	6000	J
2.	ALKANE	11.70	10000	J
3.	ALKENE	12.08	6000	J
4.	ALKANE	12.25	7000	J
5.	UNKNOWN	12.48	3000	J
6.	ALKANE	12.63	10000	J
7.	ALKENE	12.97	3000	J
8.	ALKANE	13.03	3000	J
9.	ALKANE	13.20	2000	J
10.	ALKANE	13.33	3000	J
11.	UNKNOWN	13.83	3000	J
12.	UNKNOWN	14.07	2000	J
13.	ALKANE	14.17	10000	J
14.	ALKANE	14.48	7000	J
15.	ALKANE	15.35	2000	J
16.	ALKANE	15.87	2000	J
17.	TRIBUTYLPHOSPHATE	18.02	100000	J
18.	TRIBUTYLPHOSPHATE	19.43	7000	J
19.	TRIBUTYLPHOSPHATE	19.72	20000	J
20.	UNKNOWN	20.33	6000	J
21.	UNKNOWN	21.13	1000	J

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1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-011

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: J070505

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	1700	U
111-44-4	bis(2-Chloroethyl)ether	1700	U
95-57-8	2-Chlorophenol	1700	U
541-73-1	1,3-Dichlorobenzene	1700	U
106-46-7	1,4-Dichlorobenzene	1700	U
100-51-6	Benzyl alcohol	1700	U
95-50-1	1,2-Dichlorobenzene	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	bis(2-Chloroisopropyl)ether	1700	U
106-44-5	4-Methylphenol	1700	U
621-64-7	N-Nitroso-Di-n-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
65-85-0	Benzoic acid	8400	U
111-91-1	bis(2-Chloroethoxy)methane	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
120-82-1	1,2,4-Trichlorobenzene	1700	U
91-20-3	Naphthalene	1700	U
106-47-8	4-Chloroaniline	1700	U
87-68-3	Hexachlorobutadiene	440	J
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	1700	U
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	8400	U
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	8400	U
131-11-3	Dimethylphthalate	1700	U
208-96-8	Acenaphthylene	1700	U
606-20-2	2,6-Dinitrotoluene	1700	U

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SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-011

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: J070505

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	8400	U
83-32-9	Acenaphthene	1700	U
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	1700	U
121-14-2	2,4-Dinitrotoluene	1700	U
84-66-2	Diethylphthalate	1700	U
7005-72-3	4-Chlorophenyl-phenylether	1700	U
86-73-7	Fluorene	1700	U
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
86-30-6	N-Nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	240	J
120-12-7	Anthracene	1700	U
84-74-2	Di-n-Butylphthalate	2100	
206-44-0	Fluoranthene	1700	U
129-00-0	Pyrene	1700	U
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	3300	U
56-55-3	Benzo(a)anthracene	1700	U
218-01-9	Chrysene	1700	U
117-81-7	bis(2-Ethylhexyl)phthalate	1700	U
117-84-0	Di-n-Octyl phthalate	1700	U
205-99-2	Benzo(b)fluoranthene	1700	U
207-08-9	Benzo(k)fluoranthene	1700	U
50-32-8	Benzo(a)pyrene	1700	U
193-39-5	Indeno(1,2,3-cd)pyrene	1700	U
53-70-3	Dibenzo(a,h)anthracene	1700	U
191-24-2	Benzo(g,h,i)perylene	1700	U

(1) - Cannot be separated from Diphenylamine

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0000302

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-011

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: J070505

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 5.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	12.26	700	J
2.	ALKANE	12.60	3000	J
3.	ALKANE	12.95	1000	J
4.	ALKANE	14.15	2000	J
5.	ALKANE	15.34	800	J
6.	TRIBUTYLPHOSPHATE	17.92	300000	J
7.	TRIBUTYLPHOSPHATE	19.42	20000	J
8.	TRIBUTYLPHOSPHATE	19.68	60000	J
9.	UNKNOWN	20.33	10000	J
10.	UNKNOWN	21.13	2000	J

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0000326 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-012

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070217

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	710	
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	390	
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

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0000327 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-012

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070217

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate		E
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	150	J
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

0000328

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012

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

Lab File ID: J070217

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/03/91

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

Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	11.67	600	J
2.	ALKANE	12.59	1000	J
3.	ALKANE	13.00	500	J
4.	ALKANE	14.14	900	J
5.	ALKANE	14.45	800	J
6.	ALKANE	15.33	500	J
7.	HEXACHLOROBUTENE	15.44	300	J
8.	ALKANE	15.83	600	J
9.	TRIBUTYLPHOSPHATE	16.68	400	J
10.	PENTACHLOROBENZENE	17.01	600	J
11.	UNKNOWN	17.68	800	J
12.	TRIBUTYLPHOSPHATE	18.08	200000	J
13.	TRIBUTYLPHOSPHATE	19.43	9000	J
14.	TRIBUTYLPHOSPHATE	19.72	30000	J
15.	UNKNOWN	20.33	7000	J
16.	TRIBUTYLPHOSPHATE	20.58	300	J
17.	UNKNOWN	20.70	600	J
18.	UNKNOWN	21.01	2000	J
19.	UNKNOWN	21.12	2000	J
20.	UNKNOWN	21.46	400	J
21.	UNKNOWN	21.67	600	J

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1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC8DL

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012 DL

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

Lab File ID: S070814

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/08/91

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

Dilution Factor: 5.00

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

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

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1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC8DL

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012 DL

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

Lab File ID: S070814

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/08/91

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

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
99-09-2	3-Nitroaniline	NA	
83-32-9	Acenaphthene	NA	
51-28-5	2,4-Dinitrophenol	NA	
100-02-7	4-Nitrophenol	NA	
132-64-9	Dibenzofuran	NA	
121-14-2	2,4-Dinitrotoluene	NA	
84-66-2	Diethylphthalate	NA	
7005-72-3	4-Chlorophenyl-phenylether	NA	
86-73-7	Fluorene	NA	
100-01-6	4-Nitroaniline	NA	
534-52-1	4,6-Dinitro-2-methylphenol	NA	
86-30-6	N-Nitrosodiphenylamine (1)	NA	
101-55-3	4-Bromophenyl-phenylether	NA	
118-74-1	Hexachlorobenzene	NA	
87-86-5	Pentachlorophenol	NA	
85-01-8	Phenanthrene	NA	
120-12-7	Anthracene	NA	
84-74-2	Di-n-Butylphthalate	6200	
206-44-0	Fluoranthene	NA	
129-00-0	Pyrene	NA	
85-68-7	Butylbenzylphthalate	NA	
91-94-1	3,3'-Dichlorobenzidine	NA	
56-55-3	Benzo(a)anthracene	NA	
218-01-9	Chrysene	NA	
117-81-7	bis(2-Ethylhexyl)phthalate	NA	
117-84-0	Di-n-Octyl phthalate	NA	
205-99-2	Benzo(b)fluoranthene	NA	
207-08-9	Benzo(k)fluoranthene	NA	
50-32-8	Benzo(a)pyrene	NA	
193-39-5	Indeno(1,2,3-cd)pyrene	NA	
53-70-3	Dibenzo(a,h)anthracene	NA	
191-24-2	Benzo(g,h,i)perylene	NA	

(1) - Cannot be separated from Diphenylamine

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1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.
BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-013

Sample wt/vol: 30.5 (g/mL) G Lab File ID: J070218

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: J070218

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	3100	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	38	J
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

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1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-013

Sample wt/vol: 30.5 (g/mL) G Lab File ID: J070218

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.61	300	JA
2.	ALDOL CONDENSATE	7.13	1000	JA
3.	ALDOL CONDENSATE	7.32	200	JA
4.	UNKNOWN	10.83	100	J
5.	TRIBUTYLPHOSPHATE	17.78	6000	J
6.	TRIBUTYLPHOSPHATE	19.39	100	J
7.	TRIBUTYLPHOSPHATE	19.63	400	J
8.	UNKNOWN	20.68	200	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-014

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J070219

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-014

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J070219

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	3800	
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	81	J
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-Octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

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1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYDO

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-014

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J070219

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/03/91

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

Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.68	300	J
2.	ALDOL CONDENSATE	7.16	500	JA
3.	TRIBUTYLPHOSPHATE	17.80	300	J
4.	UNKNOWN	20.71	200	J
5.	UNKNOWN	22.20	70	J

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Roy F. Weston, Inc. - Lionville Laboratory
PCBs by GC

RFW Batch Number: 9106L750 | Client: WESTINGHOUSE HANFORD | Work Order: 6168-02-01-0000 | Report Date: 07/11/91 15:20 | Page: 1

	Cust ID:	BOOY97	BOOY97	BOOY97	BOOY98	BOOY99	BOOYB3
Sample Information	RFW#:	001	001 MS	001 MSD	002	003	004
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	2.00	2.00	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate: Di-n-butylchlorendate		85 %	51 %	114 %	105 %	I %	85 %
Aroclor-1016		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1221		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1232		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1242		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1248		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1254		160 U	81 %	167 * %	170 U	160 U	160 U
Aroclor-1260		160 U	330 U	320 U	170 U	160 U	160 U

	Cust ID:	BOOYB4	BOOYB5	BOOYB6	BOOYB9	BOOYC3	BOOYC6
Sample Information	RFW#:	005	006	007	008	009	010
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	10.0	5.00	50.0	5.00	2.50	10.0
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate: Di-n-butylchlorendate		89 %	134 %	D %	100 %	95 %	133 %
Aroclor-1016		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1221		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1232		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1242		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1248		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1254		1700 U	830 U	8100 U	790 U	400 U	1600 U
Aroclor-1260		1700 U	830 U	8100 U	790 U	400 U	1600 U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

000003

Roy F. Weston, Inc. - Lionville Laboratory

PCBs by GC

Report Date: 07/11/91 15:20

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Page: 2

	Cust ID:	BOOYC7	BOOYC8	BOOYC9	BOOYD0	PBLK	PBLK BS
Sample Information	RFW#:	011	012	013	014	91LE0726-MB1	91LE0726-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	50.0	50.0	5.00	1.00	1.00	2.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg

Surrogate: Di-n-butylchlorendate	D	%	D	%	90	%	I	%	87	%	68	%
		fl		fl		fl		fl		fl		fl
Aroclor-1016	4000	U	4100	U	410	U	82	U	80	U	160	U
Aroclor-1221	4000	U	4100	U	410	U	82	U	80	U	160	U
Aroclor-1232	4000	U	4100	U	410	U	82	U	80	U	160	U
Aroclor-1242	4000	U	4100	U	410	U	82	U	80	U	160	U
Aroclor-1248	4000	U	4100	U	410	U	82	U	80	U	160	U
Aroclor-1254	8100	U	8100	U	810	U	160	U	160	U	94	%
Aroclor-1260	8100	U	8100	U	810	U	160	U	160	U	320	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

000004

5A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 05-31-91
RFW #: 9106L750, PCB
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of fourteen (14) soil samples collected on 05-28-91.

The samples were extracted on 06-05-91 and analyzed according to criteria set forth in the Contract Laboratory Program for PCB target compounds on 07-09-91.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. Linearity and breakdown criteria were met for all compounds except aldrin on the primary column (RSD of calibration factors exceeds 10%). Quantitation of target compounds was not required.

2. Continuing calibration criteria were exceeded for several non-target compounds, but this occurred in standards analyzed after the sample extracts, so there were no re-analysis requirements.

3. Retention time criteria were exceeded for a few compounds, but this occurred in standards analyzed after the sample extracts, so there were no re-analysis requirements.

4. All obtainable surrogate recoveries were within EPA QC limits.

5. One (1) of two (2) matrix spike recoveries was outside EPA QC limits. The matrix spike duplicate recovery for sample BOOY97 (167%) exceeded the EPA QC limit of 150%.

6. All blank spike recoveries were within EPA QC limits.

WESTON

7. The following samples required dilutions because they contained high levels of non-target compounds:

Sample ID	Dilution Factor
BOOYB4	10
BOOYB5	5
BOOYB6	50
BOOYB9	5
BOOYC6	10
BOOYC7	50
BOOYC8	50
BOOYC9	5
BOOYCS	2.5

8. The blank spike and matrix spike samples required two-fold dilutions to obtain spike recoveries within the linear range of the instrument.

7.15.91.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

Date

14A

1D

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B00Y97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: 07089109.13

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.6

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

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0000015 CLIENT SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS SHEET

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-002

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 07089109.14

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.6

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	84	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	84	U
53469-21-9	Aroclor-1242	84	U
12672-29-6	Aroclor-1248	84	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

7/12/91

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-003

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 07089109.15

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

7/12/91

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0000026 CLIENT SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS SHEET

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.8 (g/mL) G Lab File ID: 07089109.20

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

7/12/91

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PESTICIDE ORGANICS ANALYSIS SHEET

0 0 0 0 0 3 1 CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 07089109.21

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
12674-11-2	Aroclor-1016	840	U
11104-28-2	Aroclor-1221	840	U
11141-16-5	Aroclor-1232	840	U
53469-21-9	Aroclor-1242	840	U
12672-29-6	Aroclor-1248	840	U
11097-69-1	Aroclor-1254	1700	U
11096-82-5	Aroclor-1260	1700	U

7/12/91

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PESTICIDE ORGANICS ANALYSIS SHEET

0000037 CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 07089109.22

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

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

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	830	U
11096-82-5	Aroclor-1260	830	U

N.C 7/14/91

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PESTICIDE ORGANICS ANALYSIS SHEET

0000043 CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-007

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 07089109.23

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 2 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 50.0

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	4000	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	8100	U
11096-82-5	Aroclor-1260	8100	U

7/12/91

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 31.0 (g/mL) G

Lab File ID: 07089109.24

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.6

Dilution Factor: 5.00

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

CAS NO.	COMPOUND			
12674-11-2	Aroclor-1016	400	U	
11104-28-2	Aroclor-1221	400	U	
11141-16-5	Aroclor-1232	400	U	
53469-21-9	Aroclor-1242	400	U	
12672-29-6	Aroclor-1248	400	U	
11097-69-1	Aroclor-1254	790	U	
11096-82-5	Aroclor-1260	790	U	

7/12/91

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1D

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-009

Sample wt/vol: 31.2 (g/mL) G

Lab File ID: 07089109.27

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) N pH: 7.5

Dilution Factor: 2.50

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	200	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

LC 7/12/91

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0000061

1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: 07089109.28

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

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

Dilution Factor: 10.0

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	810	U
11104-28-2	Aroclor-1221	810	U
11141-16-5	Aroclor-1232	810	U
53469-21-9	Aroclor-1242	810	U
12672-29-6	Aroclor-1248	810	U
11097-69-1	Aroclor-1254	1600	U
11096-82-5	Aroclor-1260	1600	U

JC
7/12/91

FORM 1 PEST 12/88 Rev.

1D

PESTICIDE ORGANICS ANALYSIS SHEET

0000067 CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-011

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: 07089109.29

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.9

Dilution Factor: 50.0

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	4000	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	8100	U
11096-82-5	Aroclor-1260	8100	U

JC 7/12/91

FORM 1 PEST 12/88 Rev.

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PESTICIDE ORGANICS ANALYSIS SHEET

0000073 CLIENT SAMPLE NO.

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-012

Sample wt/vol: 30.5 (g/mL) G Lab File ID: 07089109.30

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 50.0

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	4100	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	4100	U
12672-29-6	Aroclor-1248	4100	U
11097-69-1	Aroclor-1254	8100	U
11096-82-5	Aroclor-1260	8100	U

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: 07089109.31

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.9

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	810	U
11096-82-5	Aroclor-1260	810	U

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0000084

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-014

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: 07089109.34

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

7/12/91

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ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 05-31-91
RFW #: 9106L750
W.O. #: 6168-02-01

INORGANIC NARRATIVE

The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met for water samples.

2. All preparation blanks were analyzed below the required detection limit.

3. All calibration verification checks were within the required control limits of 90-110%. Calibration verification is performed using independent standards.

4. Matrix spike recoveries are summarized on the Inorganics Accuracy Report contained within this document. Recoveries were within the 75-125% guidance limit with the exception of fluoride and phosphate. All %RPD were within the 20% guidance limit.

5. Replicate results are summarized on the Inorganic Precision report contained within this document. All results were within the 20% RPD guidance limit.

6. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020), and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).

7.1.91.
Date

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

JUL 1991
RECEIVED
DATA RECEIPT

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3

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/25/91

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9106L750

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	BOOY97	% Solids	95.7		%	0.10
		Chloride by IC	4.1		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	265		mg/kg	13.2
		Phosphate by IC	4.0		mg/kg	1.3
		Sulfate by IC	153		mg/kg	13.2
-002	BOOY98	% Solids	96.1		%	0.10
		Chloride by IC	1.7		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	8.5		mg/kg	1.3
		Phosphate by IC	2.9		mg/kg	1.3
		Sulfate by IC	2.5		mg/kg	1.3
-003	BOOY99	% Solids	95.9		%	0.10
		Chloride by IC	3.5		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	108		mg/kg	13.2
		Phosphate by IC	2.3		mg/kg	1.3
		Sulfate by IC	226		mg/kg	13.2
-004	BOOYB3	% Solids	94.5		%	0.10
		Chloride by IC	2.2		mg/kg	1.3
		Fluoride by IC	2.7	u	mg/kg	2.7
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	2.7		mg/kg	1.3
		Phosphate by IC	1.8		mg/kg	1.3
		Sulfate by IC	1.3	u	mg/kg	1.3
-005	BOOYB4	% Solids	97.0		%	0.10
		Chloride by IC	86.2		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	5.7		mg/kg	1.3
		Phosphate by IC	40.7		mg/kg	1.3
		Sulfate by IC	8.5		mg/kg	1.3
-006	BOOYB5	% Solids	96.5		%	0.10

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/25/91

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9106L750

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	BOOYB5	Chloride by IC	73.1		mg/kg	1.3
		Fluoride by IC	2.5	u	mg/kg	2.5
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1.3	u	mg/kg	1.3
		Phosphate by IC	39.2		mg/kg	1.3
		Sulfate by IC	21.7		mg/kg	1.3
-007	BOOYB6	% Solids	99.1		%	0.10
		Chloride by IC	116		mg/kg	12.8
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	111		mg/kg	12.8
		Phosphate by IC	43.4		mg/kg	1.3
		Sulfate by IC	21.8		mg/kg	1.3
-008	BOOYB9	% Solids	98.2		%	0.10
		Chloride by IC	44.8		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	34.1		mg/kg	1.3
		Phosphate by IC	12.7		mg/kg	1.3
		Sulfate by IC	8.6		mg/kg	1.3
-009	BOOYC3	% Solids	97.3		%	0.10
		Chloride by IC	169		mg/kg	13.1
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	53.8		mg/kg	1.3
		Phosphate by IC	10.9		mg/kg	1.3
		Sulfate by IC	9.1		mg/kg	1.3
-010	BOOYC6	% Solids	97.0		%	0.10
		Chloride by IC	267		mg/kg	13.1
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1.3	u	mg/kg	1.3
		Phosphate by IC	1.3	u	mg/kg	1.3
		Sulfate by IC	4.0		mg/kg	1.3

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/25/91

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9106L750

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	BOOYC7	% Solids	97.0		%	0.10
		Chloride by IC	220		mg/kg	12.6
		Fluoride by IC	2.5	u	mg/kg	2.5
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	28.0		mg/kg	1.3
		Phosphate by IC	6.9		mg/kg	1.3
		Sulfate by IC	310		mg/kg	12.6
-012	BOOYC8	% Solids	97.6		%	0.10
		Chloride by IC	194		mg/kg	13.5
		Fluoride by IC	2.7	u	mg/kg	2.7
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1.3	u	mg/kg	1.3
		Phosphate by IC	1.3	u	mg/kg	1.3
		Sulfate by IC	1.3	u	mg/kg	1.3
-013	BOOYC9	% Solids	91.8		%	0.10
		Chloride by IC	14.0		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1670		mg/kg	13.0
		Phosphate by IC	2.0		mg/kg	1.3
		Sulfate by IC	983		mg/kg	13.0
-014	BOOYD0	% Solids	94.6		%	0.10
		Chloride by IC	3.9		mg/kg	1.3
		Fluoride by IC	2.7	u	mg/kg	2.7
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1450		mg/kg	13.3
		Phosphate by IC	1.3	u	mg/kg	1.3
		Sulfate by IC	771		mg/kg	13.3
-015	BOOYB0	% Solids	99.9		%	0.10
-016	BOOYB1	% Solids	100		%	0.10
-017	BOOYB2	% Solids	100		%	0.10

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ROY F. WESTON INC.

INORGANICS PRECISION REPORT 06/25/91

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9106L750

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	% DIFF
-003REP	BOOY99	% Solids	95.9	95.8	0.13

~~JH 9-7-94~~ 9-9-94

WESTON

Roy F. Weston, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 5/31/91
RFW #: 9106L750
W.O.#: 6168-02-02

METALS NARRATIVE

The set of samples consisted of (15) soil samples collected on 5/28/91.

The samples were analyzed according to criteria set forth in CLP SOW 7/87.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits.

   Note: The USEPA has dropped control limits for antimony and silver due to documented difficulties in obtaining reliable results. WESTON Analytics has adopted the same policy.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of Sb and Mn. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limit with the exception of Mn. All corresponding samples were flagged with a "*" according to CLP protocol.

Jack R. Tuschall, Ph.D.
Laboratory Manager
WESTON Analytical Laboratories

7.11.91
Date

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY97

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750001

Level (low/med): LOW Date Received:05/31/91

% Solids: 95.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3373.60			P
7440-36-0	Antimony	2.97	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	69.00			P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	2786.10			P
7440-47-3	Chromium	0.47	B		P
7440-48-4	Cobalt	7.00	B		P
7440-50-8	Copper	7.40			P
7439-89-6	Iron	10464.70			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2395.70			P
7439-96-5	Manganese	298.40		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.80			P
7440-09-7	Potassium	961.60			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.10	B		P
7440-23-5	Sodium	79.30	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.30			P
7440-66-6	Zinc	22.30			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY98

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750002

Level (low/med): LOW Date Received:05/31/91

% Solids: 96.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3323.80			P
7440-36-0	Antimony	3.81	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	55.80			P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium	3585.50			P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	6.00	B		P
7440-50-8	Copper	7.20			P
7439-89-6	Iron	10494.20			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2450.40			P
7439-96-5	Manganese	223.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.70	B		P
7440-09-7	Potassium	793.30	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.92	B		P
7440-23-5	Sodium	98.40	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	15.00			P
7440-66-6	Zinc	20.80			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY99

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750003

Level (low/med): LOW Date Received:05/31/91

% Solids: 95.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340.50			P
7440-36-0	Antimony	3.37	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	56.50			P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.71	U		P
7440-70-2	Calcium	3294.30			P
7440-47-3	Chromium	0.53	U		P
7440-48-4	Cobalt	5.80	B		P
7440-50-8	Copper	7.80			P
7439-89-6	Iron	10395.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2300.20			P
7439-96-5	Manganese	221.20		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.30	B		P
7440-09-7	Potassium	925.40			P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.99	B		P
7440-23-5	Sodium	85.60	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.80			P
7440-66-6	Zinc	37.40			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB3

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750004

Level (low/med): LOW Date Received:05/31/91

% Solids: 94.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3161.10			P
7440-36-0	Antimony	3.39	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	57.20			P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.71	U		P
7440-70-2	Calcium	2599.10			P
7440-47-3	Chromium	0.53	U		P
7440-48-4	Cobalt	5.50	B		P
7440-50-8	Copper	6.00			P
7439-89-6	Iron	9417.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2110.40			P
7439-96-5	Manganese	222.10		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	5.80	B		P
7440-09-7	Potassium	975.80			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.20	B		P
7440-23-5	Sodium	77.90	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.40			P
7440-66-6	Zinc	21.30			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB4

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750005

Level (low/med): LOW Date Received:05/31/91

% Solids: 96.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3194.40			P
7440-36-0	Antimony	3.65	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	56.00			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.77	U		P
7440-70-2	Calcium	3084.10			P
7440-47-3	Chromium	0.58	U		P
7440-48-4	Cobalt	5.70	B		P
7440-50-8	Copper	7.60			P
7439-89-6	Iron	10617.20			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2233.00			P
7439-96-5	Manganese	200.40		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	5.50	B		P
7440-09-7	Potassium	906.30	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	111.30	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	13.90			P
7440-66-6	Zinc	22.70			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB5

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750006

Level (low/med): LOW Date Received:05/31/91

% Solids: 96.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3700.20			P
7440-36-0	Antimony	3.25	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	64.30			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.68	U		P
7440-70-2	Calcium	3326.10			P
7440-47-3	Chromium	0.51	U		P
7440-48-4	Cobalt	6.80	B		P
7440-50-8	Copper	8.00			P
7439-89-6	Iron	12369.00			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2738.20			P
7439-96-5	Manganese	250.30		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	8.40			P
7440-09-7	Potassium	1029.50			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	101.40	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.30			P
7440-66-6	Zinc	34.80			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB6

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750007

Level (low/med): LOW Date Received:05/31/91

% Solids: 99.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4265.50			P
7440-36-0	Antimony	3.46	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	78.20			P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.73	U		P
7440-70-2	Calcium	3333.30			P
7440-47-3	Chromium	0.55	U		P
7440-48-4	Cobalt	7.30	B		P
7440-50-8	Copper	8.40			P
7439-89-6	Iron	13469.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2903.40			P
7439-96-5	Manganese	279.80		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.90			P
7440-09-7	Potassium	1411.90			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.40	B		P
7440-23-5	Sodium	102.50	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	17.70			P
7440-66-6	Zinc	30.80			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB9

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750008

Level (low/med): LOW Date Received:05/31/91

% Solids: 98.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4470.50			P
7440-36-0	Antimony	3.12	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	72.80			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	3281.50			P
7440-47-3	Chromium	0.49	U		P
7440-48-4	Cobalt	7.40	B		P
7440-50-8	Copper	8.90			P
7439-89-6	Iron	13358.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	3007.50			P
7439-96-5	Manganese	279.60		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.60			P
7440-09-7	Potassium	1253.70			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.40	B		P
7440-23-5	Sodium	114.40	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	19.10			P
7440-66-6	Zinc	27.70			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC3

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750009

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1678.10			P
7440-36-0	Antimony	3.50	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	29.60	B		P
7440-41-7	Beryllium	0.18	U		P
7440-43-9	Cadmium	0.74	U		P
7440-70-2	Calcium	2641.00			P
7440-47-3	Chromium	0.55	U		P
7440-48-4	Cobalt	4.10	B		P
7440-50-8	Copper	8.10			P
7439-89-6	Iron	9932.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1557.30			P
7439-96-5	Manganese	106.90		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.40	B		P
7440-09-7	Potassium	529.50	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.81	B		P
7440-23-5	Sodium	102.70	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	6.90	B		P
7440-66-6	Zinc	13.80			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC6

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750010

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1783.20			P
7440-36-0	Antimony	2.66	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	35.60			P
7440-41-7	Beryllium	0.14			P
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium	3895.40			P
7440-47-3	Chromium	0.42	U		P
7440-48-4	Cobalt	5.40	B		P
7440-50-8	Copper	9.30			P
7439-89-6	Iron	9350.40			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1835.00			P
7439-96-5	Manganese	124.70		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.90	B		P
7440-09-7	Potassium	319.30	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	102.70	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.70			P
7440-66-6	Zinc	14.30			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC7

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750011

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3414.60			P
7440-36-0	Antimony	3.55	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	60.80			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.75	U		P
7440-70-2	Calcium	3120.40			P
7440-47-3	Chromium	0.56	U		P
7440-48-4	Cobalt	6.50	B		P
7440-50-8	Copper	10.50			P
7439-89-6	Iron	14207.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2396.00			P
7439-96-5	Manganese	213.90		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.50			P
7440-09-7	Potassium	1010.80			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.30	B		P
7440-23-5	Sodium	108.60	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.10			P
7440-66-6	Zinc	66.90			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC8

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750012

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1646.20			P
7440-36-0	Antimony	3.25	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	32.70	B		P
7440-41-7	Beryllium	0.17	U		P
7440-43-9	Cadmium	0.68	U		P
7440-70-2	Calcium	3207.10			P
7440-47-3	Chromium	0.51	U		P
7440-48-4	Cobalt	4.50	B		P
7440-50-8	Copper	8.30			P
7439-89-6	Iron	8069.30			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1556.90			P
7439-96-5	Manganese	103.20		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.40	B		P
7440-09-7	Potassium	352.20	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.68	U		P
7440-23-5	Sodium	102.80	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.40	B		P
7440-66-6	Zinc	14.00			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC9

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750013

Level (low/med): LOW Date Received:05/31/91

% Solids: 91.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340.80			P
7440-36-0	Antimony	3.12	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	65.80			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	3700.80			P
7440-47-3	Chromium	0.49	U		P
7440-48-4	Cobalt	6.50	B		P
7440-50-8	Copper	9.90			P
7439-89-6	Iron	11766.80			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2547.00			P
7439-96-5	Manganese	232.30		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.90			P
7440-09-7	Potassium	842.20			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.30	B		P
7440-23-5	Sodium	97.10	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.10			P
7440-66-6	Zinc	36.10			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYD0

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750014

Level (low/med): LOW Date Received:05/31/91

% Solids: 94.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1671.00			P
7440-36-0	Antimony	3.06	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	52.20			P
7440-41-7	Beryllium	0.16	U		P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	3590.90			P
7440-47-3	Chromium	0.48	U		P
7440-48-4	Cobalt	4.80	B		P
7440-50-8	Copper	8.30			P
7439-89-6	Iron	8228.40			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1536.60			P
7439-96-5	Manganese	105.30		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.70	B		P
7440-09-7	Potassium	241.70	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.64	U		P
7440-23-5	Sodium	82.40	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	9.80			P
7440-66-6	Zinc	15.30			P
	Cyanide				

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYBO

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750015

Level (low/med): LOW Date Received:05/31/91

% Solids: 99.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	151.40			P
7440-36-0	Antimony	3.16	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	3.90	B		P
7440-41-7	Beryllium	0.17	U		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	133.30	B		P
7440-47-3	Chromium	0.50	U		P
7440-48-4	Cobalt	0.66	U		P
7440-50-8	Copper	1.16	U		P
7439-89-6	Iron	755.10			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	57.40	B		P
7439-96-5	Manganese	26.80		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.16	U		P
7440-09-7	Potassium	167.36	U		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.66	U		P
7440-23-5	Sodium	26.50	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	1.50	B		P
7440-66-6	Zinc	3.00	B		P
	Cyanide				NR

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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Roy F. Weston, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 5/31/91
RFW #: 9106L750
W.O. #: 6168-02-01

METALS NARRATIVE

The set of samples consisted of fifthteen (15) soil samples collected on 5/28/91.

The samples were analyzed according to criteria set forth in CLP SOW 3/90.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.
2. All ICV and CCV values were within control limits.
3. All ICB and CCB values were within control limits.
4. All preparation blank values were within control limits.
5. All LCS results were within the 80-120% control limits.
6. All matrix spike recoveries were within the 75-125% control limits with the exception of Sb and Mn. All corresponding samples were flagged with an "N" according to CLP protocol.
7. All duplicate analyses were within the 20% RPD control limit with the exception of Mn. All corresponding samples were flagged with an "*" according to CLP protocol.
8. Quarterly Detection Limits for IC2 are included in this package.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratories

10.15.91.
Date

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U.S. EPA - CLP

EPA SAMPLE NO.

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INORGANIC ANALYSIS DATA SHEET

BOOY97

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675001

Level (low/med): LOW Date Received: 5/31/91

% Solids: 95.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3370.00			P
7440-36-0	Antimony	2.97	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	69.00			P
7440-41-7	Beryllium	.28	B		P
7440-43-9	Cadmium	.63	U		P
7440-70-2	Calcium	2786.10			P
7440-47-3	Chromium	.47	U		P
7440-48-4	Cobalt	7.00	B		P
7440-50-8	Copper	7.40			P
7439-89-6	Iron	10464.70			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2395.00			P
7439-96-5	Manganese	298.00		N*	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.80			P
7440-09-7	Potassium	962.00			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.10	B		P
7440-23-5	Sodium	79.30	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.30			P
7440-66-6	Zinc	22.30			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY98

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675002

Level (low/med): LOW Date Received: 5/31/91

% Solids: 96.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3320.00			P
7440-36-0	Antimony	3.81	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	55.80			P
7440-41-7	Beryllium	.26	B		P
7440-43-9	Cadmium	.80	U		P
7440-70-2	Calcium	3585.50			P
7440-47-3	Chromium	.60	U		P
7440-48-4	Cobalt	6.00	B		P
7440-50-8	Copper	7.20			P
7439-89-6	Iron	10494.20			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2450.00			P
7439-96-5	Manganese	223.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.70	B		P
7440-09-7	Potassium	793.00	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	.92	B		P
7440-23-5	Sodium	98.40	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	15.00			P
7440-66-6	Zinc	20.80			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY99 -

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675003

Level (low/med): LOW Date Received: 5/31/91

% Solids: 95.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340.00			P
7440-36-0	Antimony	3.37	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	56.50			P
7440-41-7	Beryllium	.23	B		P
7440-43-9	Cadmium	.71	U		P
7440-70-2	Calcium	3294.30			P
7440-47-3	Chromium	.53	U		P
7440-48-4	Cobalt	5.80	B		P
7440-50-8	Copper	7.80			P
7439-89-6	Iron	10395.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2300.00			P
7439-96-5	Manganese	221.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.30	B		P
7440-09-7	Potassium	925.00			P
7782-49-2	Selenium				NR
7440-22-4	Silver	.99	B		P
7440-23-5	Sodium	85.60	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.80			P
7440-66-6	Zinc	37.40			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB3 -

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675004

Level (low/med): LOW Date Received: 5/31/91

% Solids: 94.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3160.00			P
7440-36-0	Antimony	3.39	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	57.20			P
7440-41-7	Beryllium	.23	B		P
7440-43-9	Cadmium	.71	U		P
7440-70-2	Calcium	2600.00			P
7440-47-3	Chromium	.53	U		P
7440-48-4	Cobalt	5.50	B		P
7440-50-8	Copper	6.00			P
7439-89-6	Iron	9417.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2110.00			P
7439-96-5	Manganese	222.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	5.80	B		P
7440-09-7	Potassium	976.00			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.25	U		P
7440-23-5	Sodium	77.90	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.40			P
7440-66-6	Zinc	21.30			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB4

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675005

Level (low/med): LOW Date Received: 5/31/91

% Solids: 96.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3194.40			P
7440-36-0	Antimony	3.65	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	56.00			P
7440-41-7	Beryllium	.25	B		P
7440-43-9	Cadmium	.77	U		P
7440-70-2	Calcium	3080.00			P
7440-47-3	Chromium	.58	U		P
7440-48-4	Cobalt	5.70	B		P
7440-50-8	Copper	7.60			P
7439-89-6	Iron	10617.20			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2230.00			P
7439-96-5	Manganese	200.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	5.50	B		P
7440-09-7	Potassium	906.00	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	111.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	13.90			P
7440-66-6	Zinc	22.70			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

BOOYB5

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675006

Level (low/med): LOW Date Received: 5/31/91

% Solids: 96.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3700.00			P
7440-36-0	Antimony	3.25	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	64.30			P
7440-41-7	Beryllium	.31	B		P
7440-43-9	Cadmium	.69	U		P
7440-70-2	Calcium	3326.10			P
7440-47-3	Chromium	.51	U		P
7440-48-4	Cobalt	6.80	B		P
7440-50-8	Copper	8.00			P
7439-89-6	Iron	12369.00			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2738.20			P
7439-96-5	Manganese	250.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	8.40			P
7440-09-7	Potassium	1030.00			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	U		P
7440-23-5	Sodium	101.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.30			P
7440-66-6	Zinc	34.80			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB6

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675007

Level (low/med): LOW Date Received: 5/31/91

% Solids: 99.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4265.50			P
7440-36-0	Antimony	3.46	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	78.20			P
7440-41-7	Beryllium	.33	B		P
7440-43-9	Cadmium	.73	U		P
7440-70-2	Calcium	3330.00			P
7440-47-3	Chromium	.55	U		P
7440-48-4	Cobalt	7.30	B		P
7440-50-8	Copper	8.40			P
7439-89-6	Iron	13469.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2900.00			P
7439-96-5	Manganese	280.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.90			P
7440-09-7	Potassium	1411.90			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.40	B		P
7440-23-5	Sodium	102.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	17.70			P
7440-66-6	Zinc	30.80			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB9

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675008

Level (low/med): LOW Date Received: 5/31/91

% Solids: 98.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4470.00			P
7440-36-0	Antimony	3.12	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	72.80			P
7440-41-7	Beryllium	.31	B		P
7440-43-9	Cadmium	.66	U		P
7440-70-2	Calcium	3280.00			P
7440-47-3	Chromium	.49	U		P
7440-48-4	Cobalt	7.40	B		P
7440-50-8	Copper	8.90			P
7439-89-6	Iron	13358.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	3007.50			P
7439-96-5	Manganese	280.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.60			P
7440-09-7	Potassium	1253.70			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.40	B		P
7440-23-5	Sodium	114.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	19.10			P
7440-66-6	Zinc	27.70			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC3

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675009

Level (low/med): LOW Date Received: 5/31/91

% Solids: 97.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1678.10			P
7440-36-0	Antimony	3.50	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	29.60	B		P
7440-41-7	Beryllium	.18	U		P
7440-43-9	Cadmium	.74	U		P
7440-70-2	Calcium	2641.00			P
7440-47-3	Chromium	.55	U		P
7440-48-4	Cobalt	4.10	B		P
7440-50-8	Copper	8.10			P
7439-89-6	Iron	9932.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1557.30			P
7439-96-5	Manganese	106.90		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.40	B		P
7440-09-7	Potassium	530.00	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	.81	U		P
7440-23-5	Sodium	103.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	6.90	B		P
7440-66-6	Zinc	13.80			P
	Cyanide				C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC6

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675010

Level (low/med): LOW Date Received: 5/31/91

% Solids: 97.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1783.20			P
7440-36-0	Antimony	2.66	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	35.60			P
7440-41-7	Beryllium	.14			P
7440-43-9	Cadmium	.56	U		P
7440-70-2	Calcium	3895.40			P
7440-47-3	Chromium	.42	U		P
7440-48-4	Cobalt	5.40	B		P
7440-50-8	Copper	9.30			P
7439-89-6	Iron	9350.00			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1835.00			P
7439-96-5	Manganese	125.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.90	B		P
7440-09-7	Potassium	319.00	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	103.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.70			P
7440-66-6	Zinc	14.30			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC7-

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675011

Level (low/med): LOW Date Received: 5/31/91

% Solids: 97.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3414.60			P
7440-36-0	Antimony	3.55	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	60.80			P
7440-41-7	Beryllium	.24	B		P
7440-43-9	Cadmium	.75	U		P
7440-70-2	Calcium	3120.00			P
7440-47-3	Chromium	.56	U		P
7440-48-4	Cobalt	6.50	B		P
7440-50-8	Copper	10.50			P
7439-89-6	Iron	14207.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2396.00			P
7439-96-5	Manganese	214.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.50			P
7440-09-7	Potassium	1010.00			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.30	B		P
7440-23-5	Sodium	109.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.10			P
7440-66-6	Zinc	66.90			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA 0000021

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC8

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675012

Level (low/med): LOW Date Received: 5/31/91

% Solids: 97.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1646.20	O		P
7440-36-0	Antimony	3.25	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	32.70	B		P
7440-41-7	Beryllium	.17	U		P
7440-43-9	Cadmium	.68	U		P
7440-70-2	Calcium	3207.10			P
7440-47-3	Chromium	.51	U		P
7440-48-4	Cobalt	4.50	B		P
7440-50-8	Copper	8.30			P
7439-89-6	Iron	8069.30			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1556.90			P
7439-96-5	Manganese	103.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.40	B		P
7440-09-7	Potassium	352.00	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	.68	U		P
7440-23-5	Sodium	103.00	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.40	B		P
7440-66-6	Zinc	14.00			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

BOOYC9

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675013

Level (low/med): LOW Date Received: 5/31/91

% Solids: 91.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340.00			P
7440-36-0	Antimony	3.12	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	65.80			P
7440-41-7	Beryllium	.25	B		P
7440-43-9	Cadmium	.66	U		P
7440-70-2	Calcium	3700.00			P
7440-47-3	Chromium	.49	U		P
7440-48-4	Cobalt	6.50	B		P
7440-50-8	Copper	9.90			P
7439-89-6	Iron	11766.80			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2547.00			P
7439-96-5	Manganese	232.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.90			P
7440-09-7	Potassium	842.00			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.30	B		P
7440-23-5	Sodium	97.10	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.10			P
7440-66-6	Zinc	36.10			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

BOOYD0

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675014

Level (low/med): LOW Date Received: 5/31/91

% Solids: 94.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1670.00			P
7440-36-0	Antimony	3.06	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	52.20			P
7440-41-7	Beryllium	.16	U		P
7440-43-9	Cadmium	.64	U		P
7440-70-2	Calcium	3590.00			P
7440-47-3	Chromium	.48	U		P
7440-48-4	Cobalt	4.80	B		P
7440-50-8	Copper	8.30			P
7439-89-6	Iron	8228.40			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1536.60			P
7439-96-5	Manganese	105.00		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.70	B		P
7440-09-7	Potassium	242.00	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	.64	U		P
7440-23-5	Sodium	82.40	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	9.80			P
7440-66-6	Zinc	15.30			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP 000024

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYBO

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: 618-9 SAS No.: SDG No.: CLP750

Matrix (soil/water): SOIL Lab Sample ID: 910675015

Level (low/med): LOW Date Received: 5/31/91

% Solids: 99.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	151.00			P
7440-36-0	Antimony	3.16	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	3.90	B		P
7440-41-7	Beryllium	.17	U		P
7440-43-9	Cadmium	.67	U		P
7440-70-2	Calcium	133.00	B		P
7440-47-3	Chromium	.50	U		P
7440-48-4	Cobalt	.66	U		P
7440-50-8	Copper	1.16	U		P
7439-89-6	Iron	755.00			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	57.40	B		P
7439-96-5	Manganese	26.80		*N	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.66	U		P
7440-09-7	Potassium	167.36	U		P
7782-49-2	Selenium				NR
7440-22-4	Silver	.66	U		P
7440-23-5	Sodium	26.50	B		P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	1.50	U		P
7440-66-6	Zinc	3.00	B		P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

BEST AVAILABLE COPY

9106L750-WS-090

Westinghouse
Hanford Company

OSM ORGANIC DATA ASSESSMENT

DATE 7-19-91

REVIEWED BY CJ Simiele

LABORATORY Roy F Weston

CASE #

SDG # 9106L750

SAMPLES/MATRIX B00Y97 B00YB3 B00YC3
B00Y98 B00YB4 B00YC6
B00Y99 B00YB5 B00YC7
B00YB1 B00YB6 B00YC8
B00YB2 B00YB9 B00YC9
B00YD0-SOLIS

DATA ASSESSMENT SUMMARY

	VOA	ABN	~~PEST~~ PCB
1. Holding Times (Form I)	O	O	O
2. Surrogate Recovery (II)	O	O	O
3. Matrix Spike/ MSD (III)	O	X	X
4. Blanks (IV)	X	O	O
5. GC/MS Tune (V)	O	O	
6. Calibration (VI-VII; VIII pest)	O	O	X
7. Internal Standards (VIII)	O	X	
8. Instr. Perform. (IX pest)			O
9. Other ( )	O	O	O

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: Good, minor QC problems found in VOA, BNA and PCB data

NOTES :

Refer to the corresponding attachments for explanation of any problems.

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 14:05 Page: 1a

	Cust ID:	BOOY97	BOOY98	BOOY99	BOOYB3	BOOYB4	BOOYB5
Sample Information	RFW#:	001	002	003	004	005	006
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.02	1.02	1.02	0.980
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Toluene-d8	114 %	107 %	108 %	112 %	115 %	107 %
	Bromofluorobenzene	99 %	99 %	96 %	102 %	99 %	100 %
	1,2-Dichloroethane-d4	118 %	113 %	108 %	115 %	118 %	110 %
		fl	fl	fl	fl	fl	fl
Chloromethane		10 U	10 U	11 U	11 U	11 U	10 U
Bromomethane		10 U	10 U	11 U	11 U	11 U	10 U
Vinyl Chloride		10 U	10 U	11 U	11 U	11 U	10 U
Chloroethane		10 U	10 U	11 U	11 U	11 U	10 U
Methylene Chloride		35 B u	26 B u	27 B u	29 B u	34 B u	26 B u
Acetone		24 u	17 u	21 u	23 u	27 u	25 u
Carbon Disulfide		5 U	5 U	6 U	6 U	6 U	5 U
1,1-Dichloroethene		5 U	5 U	6 U	6 U	6 U	5 U
1,1-Dichloroethane		5 U	5 U	6 U	6 U	6 U	5 U
1,2-Dichloroethene (total)		5 U	5 U	6 U	6 U	6 U	5 U
Chloroform		5 U	5 U	6 U	6 U	6 U	5 U
1,2-Dichloroethane		5 U	5 U	6 U	6 U	6 U	5 U
2-Butanone		10 U	10 U	11 U	11 U	11 U	10 U
1,1,1-Trichloroethane		5 U	5 U	6 U	6 U	6 U	5 U
Carbon Tetrachloride		5 U	5 U	6 U	6 U	6 U	5 U
Vinyl Acetate		10 U	10 U	11 U	11 U	11 U	10 U
Bromodichloromethane		5 U	5 U	6 U	6 U	6 U	5 U
1,2-Dichloropropane		5 U	5 U	6 U	6 U	6 U	5 U
cis-1,3-Dichloropropene		5 U	5 U	6 U	6 U	6 U	5 U
Trichloroethene		5 U	5 U	6 U	6 U	6 U	5 U
Dibromochloromethane		5 U	5 U	6 U	6 U	6 U	5 U
1,1,2-Trichloroethane		5 U	5 U	6 U	6 U	6 U	5 U
Benzene		5 U	5 U	6 U	6 U	6 U	5 U
Trans-1,3-Dichloropropene		5 U	5 U	6 U	6 U	6 U	5 U
Bromoform		5 U	5 U	6 U	6 U	6 U	5 U
4-Methyl-2-pentanone		10 U	10 U	11 U	11 U	11 U	10 U
2-Hexanone		10 U	10 U	11 U	11 U	11 U	10 U
Tetrachloroethene		5 U	5 U	6 U	6 U	6 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	6 U	6 U	6 U	5 U

*= Outside of EPA CLP QC limits.

7-21-91
W Sample

Cust ID:	BOOY97	BOOY98	BOOY99	BOOYB3	BOOYB4	BOOYB5
RFW#:	001	002	003	004	005	006
Toluene	5 U	5 U	6 U	6 U	6 U	5 U
Chlorobenzene	5 U	5 U	6 U	6 U	6 U	5 U
Ethylbenzene	5 U	5 U	6 U	6 U	6 U	5 U
Styrene	5 U	5 U	6 U	6 U	6 U	5 U
Xylene (total)	5 U	5 U	6 U	6 U	6 U	5 U

*= Outside of EPA CLP QC limits.

000000

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

Report Date: 07/09/91 14:05

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Page: 2a

	Cust ID:	BOOYB6	BOOYB9	BOOYC3	BOOYC6	BOOYC7	BOOYC8
Sample Information	RFW#:	007	008	009	010	011	012
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	4.55	5.00	5.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Toluene-d8	111 %	100 %	105 %	107 %	113 %	104 %
	Bromofluorobenzene	97 %	93 %	96 %	100 %	98 %	104 %
	1,2-Dichloroethane-d4	110 %	100 %	114 %	110 %	112 %	104 %
Chloromethane		10 U	10 U	10 U	47 U	52 U	51 U
Bromomethane		10 U	10 U	10 U	47 U	52 U	51 U
Vinyl Chloride		10 U	10 U	10 U	47 U	52 U	51 U
Chloroethane		10 U	10 U	10 U	47 U	52 U	51 U
Methylene Chloride		51 B u	38 B u	35 B u	190 B	240 B	140 B
Acetone		18 B u	20 B u	48 B u	190 B u	180 B u	140 B u
Carbon Disulfide		5 U	5 U	5 U	24 U	26 U	26 U
1,1-Dichloroethene		5 U	5 U	5 U	24 U	26 U	26 U
1,1-Dichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
1,2-Dichloroethene (total)		5 U	5 U	5 U	24 U	26 U	26 U
Chloroform		5 U	5 U	5 U	24 U	9 J	6 J
1,2-Dichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
2-Butanone		10 U	10 U	10 U	47 U	52 U	51 U
1,1,1-Trichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
Carbon Tetrachloride		5 U	5 U	5 U	24 U	26 U	26 U
Vinyl Acetate		10 U	10 U	10 U	47 U	52 U	51 U
Bromodichloromethane		5 U	5 U	5 U	24 U	26 U	26 U
1,2-Dichloropropane		5 U	5 U	5 U	24 U	26 U	26 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	24 U	26 U	26 U
Trichloroethene		5 U	5 U	5 U	24 U	26 U	26 U
Dibromochloromethane		5 U	5 U	5 U	24 U	26 U	26 U
1,1,2-Trichloroethane		5 U	5 U	5 U	24 U	26 U	26 U
Benzene		5 U	5 U	5 U	24 U	26 U	26 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	24 U	26 U	26 U
Bromoform		5 U	5 U	5 U	24 U	26 U	26 U
4-Methyl-2-pentanone		10 U	10 U	10 U	47 U	52 U	51 U
2-Hexanone		10 U	10 U	10 U	47 U	52 U	51 U
Tetrachloroethene		5 U	5 U	5 U	78	100	46
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	86	110	26 U

*= Outside of EPA CLP QC limits.

7-21-91
CJSumell

000003

Cust ID:	BOOYB6	BOOYB9	BOOYC3	BOOYC6	BOOYC7	BOOYC8
RFW#:	007	008	009	010	011	012
Toluene	5 U	5 U	5 U	24 U	26 U	26 U
Chlorobenzene	5 U	5 U	5 U	24 U	26 U	26 U
Ethylbenzene	5 U	5 U	5 U	24 U	26 U	26 U
Styrene	5 U	5 U	5 U	24 U	26 U	26 U
Xylene (total)	5 U	5 U	5 U	24 U	26 U	26 U

*= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

Report Date: 07/09/91 14:05

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Page: 3a

	Cust ID:	BOOYC9	BOOYD0	BOOYB1	BOOYB2	VBLK	VBLK
Sample Information	RFW#:	013	014	016	017	91LVB309-MB1	91LVB310-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Toluene-d8	102 %	90 %	95 %	104 %	102 %	106 %
	Bromofluorobenzene	114 %	84 %	98 %	101 %	96 %	102 %
	1,2-Dichloroethane-d4	117 %	81 %	98 %	104 %	103 %	110 %
Chloromethane		11 U	11 U	10 U	10 U	10 U	10 U
Bromomethane		11 U	11 U	10 U	10 U	10 U	10 U
Vinyl Chloride		11 U	11 U	10 U	10 U	10 U	10 U
Chloroethane		11 U	11 U	10 U	10 U	10 U	10 U
Methylene Chloride		31 B u	42 B u	42 B u	48 B u	5	11
Acetone		29 B u	35 B u	41 B u	55 B u	10 U	10
Carbon Disulfide		6 U	6 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		6 U	6 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		6 U	6 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)		6 U	6 U	5 U	5 U	5 U	5 U
Chloroform		6 U	6 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		6 U	6 U	5 U	5 U	5 U	5 U
2-Butanone		11 U	11 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane		6 U	6 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride		6 U	6 U	5 U	5 U	5 U	5 U
Vinyl Acetate		11 U	11 U	10 U	10 U	10 U	10 U
Bromodichloromethane		6 U	6 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		6 U	6 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		6 U	6 U	5 U	5 U	5 U	5 U
Trichloroethene		6 U	6 U	5 U	5 U	5 U	5 U
Dibromochloromethane		6 U	6 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		6 U	6 U	5 U	5 U	5 U	5 U
Benzene		6 U	6 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene		6 U	6 U	5 U	5 U	5 U	5 U
Bromoform		6 U	6 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone		11 U	11 U	10 U	10 U	10 U	10 U
2-Hexanone		11 U	11 U	10 U	10 U	10 U	10 U
Tetrachloroethene		6 U	6 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		6 U	6 U	5 U	5 U	5 U	5 U

** Outside of EPA CLP QC limits.

7-21-91
WSmith

000008

Cust ID:	BOOYC9	BOOYD0	BOOYB1	BOOYB2	VBLK	VBLK
RFW#:	013	014	016	017	91LVB309-MB1	91LVB310-MB1
Toluene	6 U	6 U	5 U	5 U	5 U	5 U
Chlorobenzene	6 U	6 U	5 U	5 U	5 U	5 U
Ethylbenzene	6 U	6 U	5 U	5 U	5 U	5 U
Styrene	6 U	6 U	5 U	5 U	5 U	5 U
Xylene (total)	6 U	6 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

000009

Cust ID: VBLK

Sample Information

RFW#: 91LVX096-MB1
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

Surrogate Recovery	Toluene-d8	103	%
	Bromofluorobenzene	97	%
	1,2-Dichloroethane-d4	92	%

Chloromethane	10	U
Bromomethane	10	U
Vinyl Chloride	10	U
Chloroethane	10	U
Methylene Chloride	8	
Acetone	19	
Carbon Disulfide	5	U
1,1-Dichloroethene	5	U
1,1-Dichloroethane	5	U
1,2-Dichloroethene (total)	5	U
Chloroform	5	U
1,2-Dichloroethane	5	U
2-Butanone	10	U
1,1,1-Trichloroethane	5	U
Carbon Tetrachloride	5	U
Vinyl Acetate	10	U
Bromodichloromethane	5	U
1,2-Dichloropropane	5	U
cis-1,3-Dichloropropene	5	U
Trichloroethene	5	U
Dibromochloromethane	5	U
1,1,2-Trichloroethane	5	U
Benzene	5	U
Trans-1,3-Dichloropropene	5	U
Bromoform	5	U
4-Methyl-2-pentanone	10	U
2-Hexanone	10	U
Tetrachloroethene	5	U
1,1,2,2-Tetrachloroethane	5	U

** Outside of EPA CLP QC limits.

000010

Cust ID: VBLK

RFW#: 91LVX096-MB1

Toluene	5	U
Chlorobenzene	5	U
Ethylbenzene	5	U
Styrene	5	U
Xylene (total)	5	U

*= Outside of EPA CLP QC limits.

000011

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000027 CLIENT SAMPLE NO.

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060304

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	35	B U
67-64-1	Acetone	24	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
WSumek

1E

0 0 0 0 0 2 9 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060304

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A

VOLATILE ORGANICS ANALYSIS SHEET

0000036 CLIENT SAMPLE NO.

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-002

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060305

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	26	B U
67-64-1	Acetone	17	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
W Sumely

1E

0000037 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-002

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060305

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS SHEET

000004 CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 4.90 (g/mL) G Lab File ID: B060306

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 Date Analyzed: 06/03/91

Column: (pack/cap) CAP Dilution Factor: 1.02

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	27	B U
67-64-1	Acetone	21	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

7-21-91
W Summaly

1E

0000045

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-003

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060306

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

Number TICs found: 0

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

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

1A

0000053 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 4.90 (g/mL) G Lab File ID: B060307

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 6 Date Analyzed: 06/03/91

Column: (pack/cap) CAP Dilution Factor: 1.02

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	29	B U
67-64-1	Acetone	23	U 7-21-91
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

000005 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-004

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060307

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 6

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

Number TICs found: 0

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

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

1A

VOLATILE ORGANICS ANALYSIS SHEET

0000062 CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-005

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060308

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	34	B U
67-64-1	Acetone	27	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

7-21-91
W Sumeli

1E

0000062 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-005

Sample wt/vol: 4.90 (g/mL) G

Lab File ID: B060308

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 1.02

Number TICs found: 0

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

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

1A

000007 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 5.10 (g/mL) G Lab File ID: B060309

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 Date Analyzed: 06/03/91

Column: (pack/cap) CAP Dilution Factor: 0.980

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	26	B U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
W Sumeli

1E

0 0 0 0 0 7 2 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-006

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: B060309

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4

Date Analyzed: 06/03/91

Column: (pack/cap) CAP

Dilution Factor: 0.980

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	PENTACHLOROBUTADIENE	26.35	7	J
2.	HEXACHLOROBUTADIENE	27.18	9	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

000008 CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-007

Sample wt/vol: 5.00 (g/mL) G Lab File ID: B060505

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 1 Date Analyzed: 06/05/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	51	B U
67-64-1	Acetone	18	B U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
W Summers

1E

000008 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-007

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060505

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 1

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-72-1	HEXACHLOROETHANE	24.93	9	J
2.	PENTACHLOROBUTADIENE	26.33	20	J
3.	HEXACHLOROBUTADIENE	27.17	30	J

0000096

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060506

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	38	B U
67-64-1	Acetone	20	B U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
LS Surrogate

1E

0000097 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060506

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	PENTACHLOROBUTADIENE	26.33	8	J
2.	HEXACHLOROBUTADIENE	27.17	10	J

1A

0000108 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-009

Sample wt/vol: 5.00 (g/mL) G Lab File ID: B060507

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 Date Analyzed: 06/05/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	35	B U
67-64-1	Acetone	48	B U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
W Sumell

1E

0000109

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-009

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060507

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	26.07	6	J
2.	UNKNOWN	26.53	20	J
3.	HYDROCARBON	27.12	20	J
4.	UNKNOWN	27.35	20	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000122 CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-010

Sample wt/vol: 1.10 (g/mL) G Lab File ID: B060509

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 Date Analyzed: 06/05/91

Column: (pack/cap) CAP Dilution Factor: 4.55

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	47	U
74-83-9	Bromomethane	47	U
75-01-4	Vinyl Chloride	47	U
75-00-3	Chloroethane	47	U
75-09-2	Methylene Chloride	190	B
67-64-1	Acetone	190	B U
75-15-0	Carbon Disulfide	24	U
75-35-4	1,1-Dichloroethene	24	U
75-34-3	1,1-Dichloroethane	24	U
540-59-0	1,2-Dichloroethene (total)	24	U
67-66-3	Chloroform	24	U
107-06-2	1,2-Dichloroethane	24	U
78-93-3	2-Butanone	47	U
71-55-6	1,1,1-Trichloroethane	24	U
56-23-5	Carbon Tetrachloride	24	U
108-05-4	Vinyl Acetate	47	U
75-27-4	Bromodichloromethane	24	U
78-87-5	1,2-Dichloropropane	24	U
10061-01-5	cis-1,3-Dichloropropene	24	U
79-01-6	Trichloroethene	24	U
124-48-1	Dibromochloromethane	24	U
79-00-5	1,1,2-Trichloroethane	24	U
71-43-2	Benzene	24	U
10061-02-6	Trans-1,3-Dichloropropene	24	U
75-25-2	Bromoform	24	U
108-10-1	4-Methyl-2-pentanone	47	U
591-78-6	2-Hexanone	47	U
127-18-4	Tetrachloroethene	78	
79-34-5	1,1,2,2-Tetrachloroethane	86	
108-88-3	Toluene	24	U
108-90-7	Chlorobenzene	24	U
100-41-4	Ethylbenzene	24	U
100-42-5	Styrene	24	U
1330-20-7	Xylene (total)	24	U

7-21-91
W Sumell

1E

0000123 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

Sample wt/vol: 1.10 (g/mL) G

Lab File ID: B060509

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 4.55

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-72-1	HEXACHLOROETHANE	24.95	3000	J
2.	UNKNOWN	25.15	600	J
3.	UNKNOWN	25.43	800	J
4.	HYDROCARBON	25.73	2000	J
5.	ALCOHOL	26.43	3000	J
6.	UNKNOWN	26.57	3000	J
7.	UNKNOWN	27.17	5000	J
8.	ALKANE	27.42	6000	J
9.	UNKNOWN	27.65	3000	J
10.	UNKNOWN	27.88	3000	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

0000145 CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-011

Sample wt/vol: 1.00 (g/mL) G Lab File ID: B060510

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 Date Analyzed: 06/05/91

Column: (pack/cap) CAP Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	52	U
74-83-9	Bromomethane	52	U
75-01-4	Vinyl Chloride	52	U
75-00-3	Chloroethane	52	U
75-09-2	Methylene Chloride	240	B
67-64-1	Acetone	180	B,U
75-15-0	Carbon Disulfide	26	U
75-35-4	1,1-Dichloroethene	26	U
75-34-3	1,1-Dichloroethane	26	U
540-59-0	1,2-Dichloroethene (total)	26	U
67-66-3	Chloroform	9	J
107-06-2	1,2-Dichloroethane	26	U
78-93-3	2-Butanone	52	U
71-55-6	1,1,1-Trichloroethane	26	U
56-23-5	Carbon Tetrachloride	26	U
108-05-4	Vinyl Acetate	52	U
75-27-4	Bromodichloromethane	26	U
78-87-5	1,2-Dichloropropane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
79-01-6	Trichloroethene	26	U
124-48-1	Dibromochloromethane	26	U
79-00-5	1,1,2-Trichloroethane	26	U
71-43-2	Benzene	26	U
10061-02-6	Trans-1,3-Dichloropropene	26	U
75-25-2	Bromoform	26	U
108-10-1	4-Methyl-2-pentanone	52	U
591-78-6	2-Hexanone	52	U
127-18-4	Tetrachloroethene	100	
79-34-5	1,1,2,2-Tetrachloroethane	110	
108-88-3	Toluene	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
100-42-5	Styrene	26	U
1330-20-7	Xylene (total)	26	U

7-21-91
WSumner

1E

0000146 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-011

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: B060510

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 5.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	PROPYLFURAN	15.62	300	J
2. 67-72-1	HEXACHLOROETHANE	24.93	900	J
3.	UNKNOWN	25.72	700	J
4.	PENTACHLOROBUTADIENE	26.33	1000	J
5.	HYDROCARBON	26.53	200	J
6.	UNKNOWN	27.17	600	J
7.	UNKNOWN	27.37	500	J
8.	HYDROCARBON	27.60	200	J
9.	UNKNOWN	27.85	200	J
10.	UNKNOWN	29.50	100	J

1A
VOLATILE ORGANICS ANALYSIS SHEET

000017

CLIENT SAMPLE NO.

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: B060511

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	51	U
74-83-9	Bromomethane	51	U
75-01-4	Vinyl Chloride	51	U
75-00-3	Chloroethane	51	U
75-09-2	Methylene Chloride	140	B
67-64-1	Acetone	140	B U
75-15-0	Carbon Disulfide	26	U
75-35-4	1,1-Dichloroethene	26	U
75-34-3	1,1-Dichloroethane	26	U
540-59-0	1,2-Dichloroethene (total)	26	U
67-66-3	Chloroform	6	J
107-06-2	1,2-Dichloroethane	26	U
78-93-3	2-Butanone	51	U
71-55-6	1,1,1-Trichloroethane	26	U
56-23-5	Carbon Tetrachloride	26	U
108-05-4	Vinyl Acetate	51	U
75-27-4	Bromodichloromethane	26	U
78-87-5	1,2-Dichloropropane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
79-01-6	Trichloroethene	26	U
124-48-1	Dibromochloromethane	26	U
79-00-5	1,1,2-Trichloroethane	26	U
71-43-2	Benzene	26	U
10061-02-6	Trans-1,3-Dichloropropene	26	U
75-25-2	Bromoform	26	U
108-10-1	4-Methyl-2-pentanone	51	U
591-78-6	2-Hexanone	51	U
127-18-4	Tetrachloroethene	46	
79-34-5	1,1,2,2-Tetrachloroethane	26	U
108-88-3	Toluene	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
100-42-5	Styrene	26	U
1330-20-7	Xylene (total)	26	U

7-21-91
W Simmell

1E

0000172 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012

Sample wt/vol: 1.00 (g/mL) G

Lab File ID: B060511

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 5.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-72-1	HEXACHLOROETHANE	24.95	2000	J
2.	UNKNOWN	25.72	700	J
3.	UNKNOWN	26.40	2000	J
4.	UNKNOWN	26.53	600	J
5.	~~UNKNOWN~~ Alkene	27.13	1000	J
6.	ALKANE	27.38	2000	J
7.	~~UNKNOWN~~ HC	27.62	600	J
8.	UNKNOWN	27.85	600	J
9.	~~UNKNOWN~~ HC	28.15	600	J
10.	ALKANE	29.50	600	J

1A

0000192

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060508

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 8

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	31	B U
67-64-1	Acetone	29	B U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

7-21-91
W Sumnel

0000193

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: B060508

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 8

Date Analyzed: 06/05/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A

VOLATILE ORGANICS ANALYSIS SHEET

000020 CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-014

Sample wt/vol: 5.00 (g/mL) G Lab File ID: AX6407

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 Date Analyzed: 06/04/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	42	B U
67-64-1	Acetone	35	B U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

7-21-91
LW Sumrell

0000202

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-014

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6407

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A

VOLATILE ORGANICS ANALYSIS SHEET

0000208 CLIENT SAMPLE NO.

BOOYB1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-016

Sample wt/vol: 5.00 (g/mL) G Lab File ID: AX6408

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 0 Date Analyzed: 06/04/91

Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	42	B U
67-64-1	Acetone	41	B U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
W Simmelli

1E

0000209 CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-016

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6408

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 0

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS SHEET

00002 10

CLIENT SAMPLE NO.

BOOYB2

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-017

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6409

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 0

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	48	B U
67-64-1	Acetone	55	B U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

7-21-91
CJSumich

1E

0 0 0 0 2 1 7

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB2

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-017

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX6409

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 0

Date Analyzed: 06/04/91

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 19:20 Page: 1a

	Cust ID:	BOOY97	BOOY97	BOOY97	BOOY98	BOOY99	BOOYB3
Sample Information	RFW#:	001	001 MS	001 MSD	002	003	004
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Nitrobenzene-d5	95 %	80 %	76 %	93 %	85 %	84 %
	2-Fluorobiphenyl	93 %	85 %	75 %	91 %	85 %	85 %
	p-Terphenyl-d14	113 %	96 %	89 %	114 %	110 %	107 %
	Phenol-d5	110 %	99 %	94 %	110 %	100 %	93 %
	2-Fluorophenol	106 %	97 %	96 %	113 %	96 %	100 %
	2,4,6-Tribromophenol	94 %	77 %	79 %	106 %	96 %	96 %
		fl	fl	fl	fl	fl	fl
Phenol		340 U	96 * %	91 * %	340 U	340 U	350 U
bis(2-Chloroethyl)ether		340 U	340 U	340 U	340 U	340 U	350 U
2-Chlorophenol		340 U	79 %	77 %	340 U	340 U	350 U
1,3-Dichlorobenzene		340 U	340 U	340 U	340 U	340 U	350 U
1,4-Dichlorobenzene		340 U	81 %	75 %	340 U	340 U	350 U
Benzyl alcohol		340 U	340 U	340 U	340 U	340 U	350 U
1,2-Dichlorobenzene		340 U	340 U	340 U	340 U	340 U	350 U
2-Methylphenol		340 U	340 U	340 U	340 U	340 U	350 U
bis(2-Chloroisopropyl)ether		340 U	340 U	340 U	340 U	340 U	350 U
4-Methylphenol		340 U	340 U	340 U	340 U	340 U	350 U
N-Nitroso-Di-n-propylamine		340 U	73 %	67 %	340 U	340 U	350 U
Hexachloroethane		340 U	340 U	340 U	340 U	340 U	350 U
Nitrobenzene		340 U	340 U	340 U	340 U	340 U	350 U
Isophorone		340 U	340 U	340 U	340 U	340 U	350 U
2-Nitrophenol		340 U	340 U	340 U	340 U	340 U	350 U
2,4-Dimethylphenol		340 U	340 U	340 U	340 U	340 U	350 U
Benzoic acid		1700 U	1700 U	1700 U	1700 U	1700 U	1800 U
bis(2-Chloroethoxy)methane		340 U	340 U	340 U	340 U	340 U	350 U
2,4-Dichlorophenol		340 U	340 U	340 U	340 U	340 U	350 U
1,2,4-Trichlorobenzene		340 U	82 %	76 %	340 U	340 U	350 U
Naphthalene		340 U	340 U	340 U	340 U	340 U	350 U
4-Chloroaniline		340 U	340 U	340 U	340 U	340 U	350 U
Hexachlorobutadiene		340 U	340 U	340 U	340 U	340 U	350 U
4-Chloro-3-methylphenol		340 U	90 %	81 %	340 U	340 U	350 U
2-Methylnaphthalene		340 U	340 U	340 U	340 U	340 U	350 U
Hexachlorocyclopentadiene		340 U	340 U	340 U	340 U	340 U	350 U

*= Outside of EPA CLP QC limits.

000014

Cust ID:	BOOY97		BOOY97		BOOY97		BOOY98		BOOY99		BOOYB3	
RFW#:	001		001 MS		001 MSD		002		003		004	
2,4,6-Trichlorophenol	340	U	340	U	340	U	340	U	340	U	350	U
2,4,5-Trichlorophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
2-Chloronaphthalene	340	U	340	U	340	U	340	U	340	U	350	U
2-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
Dimethylphthalate	340	U	340	U	340	U	340	U	340	U	350	U
Acenaphthylene	340	U	340	U	340	U	340	U	340	U	350	U
2,6-Dinitrotoluene	340	U	340	U	340	U	340	U	340	U	350	U
3-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
Acenaphthene	340	U	95	%	86	%	340	U	340	U	350	U
2,4-Dinitrophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
4-Nitrophenol	1700	U	95	%	85	%	1700	U	1700	U	1800	U
Dibenzofuran	340	U	340	U	340	U	340	U	340	U	350	U
2,4-Dinitrotoluene	340	U	99 *	%	85	%	340	U	340	U	350	U
Diethylphthalate	340	U	340	U	340	U	340	U	340	U	350	U
4-Chlorophenyl-phenylether	340	U	340	U	340	U	340	U	340	U	350	U
Fluorene	340	U	340	U	340	U	340	U	340	U	350	U
4-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
4,6-Dinitro-2-methylphenol	1700	U	1700	U	1700	U	1700	U	1700	U	1800	U
N-Nitrosodiphenylamine (1)	340	U	340	U	340	U	340	U	340	U	350	U
4-Bromophenyl-phenylether	340	U	340	U	340	U	340	U	340	U	350	U
Hexachlorobenzene	340	U	340	U	340	U	340	U	340	U	350	U
Pentachlorophenol	1700	U	92	%	75	%	1700	U	1700	U	1800	U
Phenanthrene	340	U	340	U	340	U	340	U	340	U	350	U
Anthracene	340	U	340	U	340	U	340	U	340	U	350	U
Di-n-Butylphthalate	1700		710		730		1500		2500		2800	
Fluoranthene	340	U	340	U	340	U	340	U	340	U	350	U
Pyrene	340	U	96	%	89	%	340	U	340	U	350	U
Butylbenzylphthalate	340	U	340	U	340	U	340	U	340	U	350	U
3,3'-Dichlorobenzidine	680	U	690	U	690	U	690	U	680	U	700	U
Benzo(a)anthracene	340	U	340	U	340	U	340	U	340	U	350	U
Chrysene	340	U	340	U	340	U	340	U	340	U	350	U
bis(2-Ethylhexyl)phthalate	340	U	340	U	340	U	340	U	340	U	350	U
Di-n-Octyl phthalate	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(b)fluoranthene	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(k)fluoranthene	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(a)pyrene	340	U	340	U	340	U	340	U	340	U	350	U
Indeno(1,2,3-cd)pyrene	340	U	340	U	340	U	340	U	340	U	350	U
Dibenzo(a,h)anthracene	340	U	340	U	340	U	340	U	340	U	350	U
Benzo(g,h,i)perylene	340	U	340	U	340	U	340	U	340	U	350	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 19:20 Page: 2a

	Cust ID:	BOOYB4		BOOYB5		BOOYB6		BOOYB9		BOOYC3		BOOYC6	
Sample Information	RFW#:	005		006		007		008		009		010	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Nitrobenzene-d5	87	%	86	%	75	%	78	%	65	%	81	%
	2-Fluorobiphenyl	86	%	89	%	94	%	83	%	82	%	89	%
	p-Terphenyl-d14	104	%	101	%	89	%	86	%	99	%	98	%
	Phenol-d5	99	%	105	%	72	%	87	%	92	%	75	%
	2-Fluorophenol	95	%	106	%	85	%	87	%	104	%	110	%
	2,4,6-Tribromophenol	84	%	92	%	44	%	62	%	91	%	70	%
			fl		fl		fl		fl		fl		fl
Phenol		340	U	340	U	340	U	330	U	340	U	340	U
bis(2-Chloroethyl)ether		340	U	340	U	340	U	330	U	340	U	340	U
2-Chlorophenol		340	U	340	U	340	U	330	U	340	U	340	U
1,3-Dichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
1,4-Dichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
Benzyl alcohol		340	U	340	U	340	U	330	U	340	U	340	U
1,2-Dichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
2-Methylphenol		340	U	340	U	340	U	330	U	340	U	340	U
bis(2-Chloroisopropyl)ether		340	U	340	U	340	U	330	U	340	U	340	U
4-Methylphenol		340	U	340	U	340	U	330	U	340	U	340	U
N-Nitroso-Di-n-propylamine		340	U	340	U	340	U	330	U	340	U	340	U
Hexachloroethane		340	U	340	U	340	U	330	U	340	U	500	
Nitrobenzene		340	U	340	U	340	U	330	U	340	U	340	U
Isophorone		340	U	340	U	340	U	330	U	340	U	340	U
2-Nitrophenol		340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dimethylphenol		340	U	340	U	340	U	330	U	340	U	340	U
Benzoic acid		1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
bis(2-Chloroethoxy)methane		340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dichlorophenol		340	U	340	U	340	U	330	U	340	U	340	U
1,2,4-Trichlorobenzene		340	U	340	U	340	U	330	U	340	U	340	U
Naphthalene		340	U	340	U	340	U	330	U	340	U	340	U
4-Chloroaniline		340	U	340	U	340	U	330	U	340	U	340	U
Hexachlorobutadiene		340	U	340	U	300	J	330	U	340	U	300	J
4-Chloro-3-methylphenol		340	U	340	U	340	U	330	U	340	U	340	U
2-Methylnaphthalene		340	U	340	U	340	U	330	U	340	U	340	U
Hexachlorocyclopentadiene		340	U	340	U	340	U	330	U	340	U	340	U

*= Outside of EPA CLP QC limits.

000015

Cust ID:	BOOYB4		BOOYB5		BOOYB6		BOOYB9		BOOYC3		BOOYC6	
RFW#:	005		006		007		008		009		010	
2,4,6-Trichlorophenol	340	U	340	U	340	U	330	U	340	U	340	U
2,4,5-Trichlorophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
2-Chloronaphthalene	340	U	340	U	340	U	330	U	340	U	340	U
2-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Dimethylphthalate	340	U	340	U	340	U	330	U	340	U	340	U
Acenaphthylene	340	U	340	U	340	U	330	U	340	U	340	U
2,6-Dinitrotoluene	340	U	340	U	340	U	330	U	340	U	340	U
3-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Acenaphthene	340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dinitrophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
4-Nitrophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Dibenzofuran	340	U	340	U	340	U	330	U	340	U	340	U
2,4-Dinitrotoluene	340	U	340	U	340	U	330	U	340	U	340	U
Diethylphthalate	340	U	340	U	340	U	330	U	340	U	340	U
4-Chlorophenyl-phenylether	340	U	340	U	340	U	330	U	340	U	340	U
Fluorene	340	U	340	U	340	U	330	U	340	U	340	U
4-Nitroaniline	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
4,6-Dinitro-2-methylphenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
N-Nitrosodiphenylamine (1)	340	U	340	U	340	U	330	U	340	U	340	U
4-Bromophenyl-phenylether	340	U	340	U	340	U	330	U	340	U	340	U
Hexachlorobenzene	340	U	340	U	340	U	330	U	340	U	340	U
Pentachlorophenol	1700	U	1700	U	1700	U	1700	U	1700	U	1700	U
Phenanthrene	340	U	340	U	340	U	330	U	340	U	340	U
Anthracene	340	U	340	U	340	U	330	U	340	U	340	U
Di-n-Butylphthalate	2400		2000		5500		3600		3200		5500	
Fluoranthene	340	U	340	U	340	U	330	U	340	U	340	U
Pyrene	340	U	340	U	340	U	330	U	340	U	340	U
Butylbenzylphthalate	340	U	340	U	340	U	330	U	340	U	340	U
3,3'-Dichlorobenzidine	690	U	690	U	680	U	670	U	680	U	690	U
Benzo(a)anthracene	340	U	340	U	340	U	330	U	340	U	340	U
Chrysene	340	U	340	U	340	U	330	U	340	U	340	U
bis(2-Ethylhexyl)phthalate	340	U	340	U	340	U	330	U	340	U	340	U
Di-n-Octyl phthalate	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(b)fluoranthene	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(k)fluoranthene	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(a)pyrene	340	U	340	U	340	U	330	U	340	U	340	U
Indeno(1,2,3-cd)pyrene	340	U	340	U	340	U	330	U	340	U	340	U
Dibenzo(a,h)anthracene	340	U	340	U	340	U	330	U	340	U	340	U
Benzo(g,h,i)perylene	340	U	340	U	340	U	330	U	340	U	340	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

000017

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 07/09/91 19:20 Page: 3a

	Cust ID:	BOOYC7	BOOYC8	BOOYC8	BOOYC9	BOOYD0	SBLK
Sample Information	RFW#:	011	012	012 DL	013	014	91LE0721-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	5.00	1.00	5.00	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate Recovery	Nitrobenzene-d5	21 * %	83 %	101 %	81 %	82 %	77 %
	2-Fluorobiphenyl	52 %	92 %	91 %	83 %	87 %	85 %
	p-Terphenyl-d14	53 %	91 %	81 %	97 %	102 %	89 %
	Phenol-d5	38 %	72 %	54 %	102 %	107 %	103 %
	2-Fluorophenol	53 %	96 %	76 %	93 %	116 %	112 %
	2,4,6-Tribromophenol	31 %	52 %	70 %	54 %	96 %	75 %
Phenol		1700 U	340 U	NA	340 U	350 U	330 U
bis(2-Chloroethyl)ether		1700 U	340 U	NA	340 U	350 U	330 U
2-Chlorophenol		1700 U	340 U	NA	340 U	350 U	330 U
1,3-Dichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
1,4-Dichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
Benzyl alcohol		1700 U	340 U	NA	340 U	350 U	330 U
1,2-Dichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
2-Methylphenol		1700 U	340 U	NA	340 U	350 U	330 U
bis(2-Chloroisopropyl)ether		1700 U	340 U	NA	340 U	350 U	330 U
4-Methylphenol		1700 U	340 U	NA	340 U	350 U	330 U
N-Nitroso-Di-n-propylamine		1700 U	340 U	NA	340 U	350 U	330 U
Hexachloroethane		1700 U	710	NA	340 U	350 U	330 U
Nitrobenzene		1700 U	340 U	NA	340 U	350 U	330 U
Isophorone		1700 U	340 U	NA	340 U	350 U	330 U
2-Nitrophenol		1700 U	340 U	NA	340 U	350 U	330 U
2,4-Dimethylphenol		1700 U	340 U	NA	340 U	350 U	330 U
Benzoic acid		8400 U	1700 U	NA	1700 U	1700 U	1700 U
bis(2-Chloroethoxy)methane		1700 U	340 U	NA	340 U	350 U	330 U
2,4-Dichlorophenol		1700 U	340 U	NA	340 U	350 U	330 U
1,2,4-Trichlorobenzene		1700 U	340 U	NA	340 U	350 U	330 U
Naphthalene		1700 U	340 U	NA	340 U	350 U	330 U
4-Chloroaniline		1700 U	340 U	NA	340 U	350 U	330 U
Hexachlorobutadiene		440 J	390	NA	340 U	350 U	330 U
4-Chloro-3-methylphenol		1700 U	340 U	NA	340 U	350 U	330 U
2-Methylnaphthalene		1700 U	340 U	NA	340 U	350 U	330 U
Hexachlorocyclopentadiene		1700 U	340 U	NA	340 U	350 U	330 U

*= Outside of EPA CLP QC limits.

Cust ID:	BOOYC7		BOOYC8		BOOYC8	BOOYC9		BOOYD0		SBLK	
RFW#:	011		012		012 DL	013		014		91LE0721-MB1	
2,4,6-Trichlorophenol	1700	U	340	U	NA	340	U	350	U	330	U
2,4,5-Trichlorophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
2-Chloronaphthalene	1700	U	340	U	NA	340	U	350	U	330	U
2-Nitroaniline	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Dimethylphthalate	1700	U	340	U	NA	340	U	350	U	330	U
Acenaphthylene	1700	U	340	U	NA	340	U	350	U	330	U
2,6-Dinitrotoluene	1700	U	340	U	NA	340	U	350	U	330	U
3-Nitroaniline	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Acenaphthene	1700	U	340	U	NA	340	U	350	U	330	U
2,4-Dinitrophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
4-Nitrophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Dibenzofuran	1700	U	340	U	NA	340	U	350	U	330	U
2,4-Dinitrotoluene	1700	U	340	U	NA	340	U	350	U	330	U
Diethylphthalate	1700	U	340	U	NA	340	U	350	U	330	U
4-Chlorophenyl-phenylether	1700	U	340	U	NA	340	U	350	U	330	U
Fluorene	1700	U	340	U	NA	340	U	350	U	330	U
4-Nitroaniline	8400	U	1700	U	NA	1700	U	1700	U	1700	U
4,6-Dinitro-2-methylphenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
N-Nitrosodiphenylamine (1)	1700	U	340	U	NA	340	U	350	U	330	U
4-Bromophenyl-phenylether	1700	U	340	U	NA	340	U	350	U	330	U
Hexachlorobenzene	1700	U	340	U	NA	340	U	350	U	330	U
Pentachlorophenol	8400	U	1700	U	NA	1700	U	1700	U	1700	U
Phenanthrene	240	J	340	U	NA	340	U	350	U	330	U
Anthracene	1700	U	340	U	NA	340	U	350	U	330	U
Di-n-Butylphthalate	2100			E	6200 J	3100		3800		330	U
Fluoranthene	1700	U	340	U	NA	340	U	350	U	330	U
Pyrene	1700	U	340	U	NA	340	U	350	U	330	U
Butylbenzylphthalate	1700	U	150	J	NA	38	J	81	J	330	U
3,3'-Dichlorobenzidine	3300	U	690	U	NA	680	U	700	U	670	U
Benzo(a)anthracene	1700	U	340	U	NA	340	U	350	U	330	U
Chrysene	1700	U	340	U	NA	340	U	350	U	330	U
bis(2-Ethylhexyl)phthalate	1700	U	340	U	NA	340	U	350	U	330	U
Di-n-Octyl phthalate	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(b)fluoranthene	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(k)fluoranthene	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(a)pyrene	1700	U	340	U	NA	340	U	350	U	330	U
Indeno(1,2,3-cd)pyrene	1700	U	340	U	NA	340	U	350	U	330	U
Dibenzo(a,h)anthracene	1700	U	340	U	NA	340	U	350	U	330	U
Benzo(g,h,i)perylene	1700	U	340	U	NA	340	U	350	U	330	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

7-21-91
CJ Sempell

000019

Cust ID: SBLK BS

Sample Information

RFW#: 91LE0721-MB1
Matrix: SOIL
D.F.: 1.00
Units: ug/Kg

Surrogate Recovery	Nitrobenzene-d5	83	%
	2-Fluorobiphenyl	84	%
	p-Terphenyl-d14	90	%
	Phenol-d5	94	%
	2-Fluorophenol	99	%
	2,4,6-Tribromophenol	74	%

Phenol	92 *	%
bis(2-Chloroethyl)ether	330	U
2-Chlorophenol	79	%
1,3-Dichlorobenzene	330	U
1,4-Dichlorobenzene	79	%
Benzyl alcohol	330	U
1,2-Dichlorobenzene	330	U
2-Methylphenol	330	U
bis(2-Chloroisopropyl)ether	330	U
4-Methylphenol	330	U
N-Nitroso-Di-n-propylamine	64	%
Hexachloroethane	330	U
Nitrobenzene	330	U
Isophorone	330	U
2-Nitrophenol	330	U
2,4-Dimethylphenol	330	U
Benzoic acid	1700	U
bis(2-Chloroethoxy)methane	330	U
2,4-Dichlorophenol	330	U
1,2,4-Trichlorobenzene	82	%
Naphthalene	330	U
4-Chloroaniline	330	U
Hexachlorobutadiene	330	U
4-Chloro-3-methylphenol	80	%
2-Methylnaphthalene	330	U
Hexachlorocyclopentadiene	330	U

*= Outside of EPA CLP QC limits.

000020

Cust ID: SBLK BS

RFW#: 91LE0721-MB1

2,4,6-Trichlorophenol	330	U
2,4,5-Trichlorophenol	1700	U
2-Chloronaphthalene	330	U
2-Nitroaniline	1700	U
Dimethylphthalate	330	U
Acenaphthylene	330	U
2,6-Dinitrotoluene	330	U
3-Nitroaniline	1700	U
Acenaphthene	96	%
2,4-Dinitrophenol	1700	U
4-Nitrophenol	68	%
Dibenzofuran	330	U
2,4-Dinitrotoluene	86	%
Diethylphthalate	330	U
4-Chlorophenyl-phenylether	330	U
Fluorene	330	U
4-Nitroaniline	1700	U
4,6-Dinitro-2-methylphenol	1700	U
N-Nitrosodiphenylamine (1)	330	U
4-Bromophenyl-phenylether	330	U
Hexachlorobenzene	330	U
Pentachlorophenol	73	%
Phenanthrene	330	U
Anthracene	330	U
Di-n-Butylphthalate	330	U
Fluoranthene	330	U
Pyrene	87	%
Butylbenzylphthalate	330	U
3,3'-Dichlorobenzidine	670	U
Benzo(a)anthracene	330	U
Chrysene	330	U
bis(2-Ethylhexyl)phthalate	330	U
Di-n-Octyl phthalate	330	U
Benzo(b)fluoranthene	330	U
Benzo(k)fluoranthene	330	U
Benzo(a)pyrene	330	U
Indeno(1,2,3-cd)pyrene	330	U
Dibenzo(a,h)anthracene	330	U
Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

1B

0000037 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-001

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062810

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-001

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062810

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	1700	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

0000039

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J062810

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.60	300	JA
2.	ALDOL CONDENSATE	7.12	600	JA
3.	ALDOL CONDENSATE	7.89	100	JA
4.	ALDOL CONDENSATE	8.73	300	JA
5.	UNKNOWN	20.67	200	J
6.	UNKNOWN	24.48	200	J
7.	ALKANE	28.89	200	J
8.	ALKANE	32.88	200	J

1B

0000057

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-002

Sample wt/vol: 30.4 (g/mL) G Lab File ID: J062811

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

0000058

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-002

Sample wt/vol: 30.4 (g/mL) G Lab File ID: J062811

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	1500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

0000059

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOY98

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-002

Sample wt/vol: 30.4 (g/mL) G

Lab File ID: J062811

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.61	300	J
2.	ALDOL CONDENSATE	7.13	200	JA
3.	ALDOL CONDENSATE	7.90	300	JA
4.	UNKNOWN	20.67	200	J
5.	UNKNOWN	24.52	200	J

1B

0000074 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 30.6 (g/mL) G Lab File ID: J062812

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 30.6 (g/mL) G Lab File ID: J062812

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-003

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: J062812

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.64	300	J
2.	ALDOL CONDENATE	7.16	500	JA
3.	ALDOL CONDENSATE	7.92	200	JA
4.	ALDOL CONDENSATE	8.75	100	JA
5.	UNKNOWN	20.70	200	J
6.	UNKNOWN	24.60	200	J
7.	ALKANE	28.92	100	J

0000093

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J062813

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J062813

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	2800	
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-Octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: J062813

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 06/28/91

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

Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.66	300	J
2.	ALDOL CONDENSATE	7.17	200	JA
3.	ALDOL CONDENSATE	7.94	200	JA
4.	UNKNOWN	20.72	200	J
5.	UNKNOWN	24.64	200	J
6.	ALKANE	28.96	100	J

1B

000011

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

0000112 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2400	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

0000113

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.60	300	JA
2.	ALDOL CONDENSATE	7.12	500	JA
3.	ALDOL CONDENSATE	7.89	300	JA
4.	ALDOL CONDENSATE	8.73	200	JA
5.	ALKANE	14.11	100	J
6.	TRIBUTYLPHOSPHATE	17.77	4000	J
7.	TRIBUTYLPHOSPHATE	19.38	400	J
8.	TRIBUTYLPHOSPHATE	19.62	1000	J
9.	UNKNOWN	20.29	300	J
10.	UNKNOWN	20.67	700	J
11.	UNKNOWN	20.98	100	J
12.	UNKNOWN	21.09	200	J
13.	UNKNOWN	21.43	500	J
14.	ALKANE	21.62	200	J
15.	UNKNOWN	22.00	200	J
16.	UNKNOWN	24.55	200	J
17.	ALKANE	28.89	200	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: J062815

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: J062815

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2000	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 30.6 (g/mL) G Lab File ID: J062812

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.64	300	J
2.	ALDOL CONDENATE	7.16	500	JA
3.	ALDOL CONDENSATE	7.92	200	JA
4.	ALDOL CONDENSATE	8.75	100	JA
5.	UNKNOWN	20.70	200	J
6.	UNKNOWN	24.60	200	J
7.	ALKANE	28.92	100	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J062813

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J062813

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	2800	
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-Octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J062813

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.66	300	J
2.	ALDOL CONDENSATE	7.17	200	JA
3.	ALDOL CONDENSATE	7.94	200	JA
4.	UNKNOWN	20.72	200	J
5.	UNKNOWN	24.64	200	J
6.	ALKANE	28.96	100	J

1B

000011

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2400	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

0000113

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J062814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.60	300	JA
2.	ALDOL CONDENSATE	7.12	500	JA
3.	ALDOL CONDENSATE	7.89	300	JA
4.	ALDOL CONDENSATE	8.73	200	JA
5.	ALKANE	14.11	100	J
6.	TRIBUTYLPHOSPHATE	17.77	4000	J
7.	TRIBUTYLPHOSPHATE	19.38	400	J
8.	TRIBUTYLPHOSPHATE	19.62	1000	J
9.	UNKNOWN	20.29	300	J
10.	UNKNOWN	20.67	700	J
11.	UNKNOWN	20.98	100	J
12.	UNKNOWN	21.09	200	J
13.	UNKNOWN	21.43	500	J
14.	ALKANE	21.62	200	J
15.	UNKNOWN	22.00	200	J
16.	UNKNOWN	24.55	200	J
17.	ALKANE	28.89	200	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: J062815

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: J062815

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	2000	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: J062815

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/28/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.60	300	JA
2.	ALDOL CONDENSATE	7.11	600	JA
3.	ALKANE	11.63	200	J
4.	ALKANE	12.55	600	J
5.	ALKANE	12.96	300	J
6.	ALKANE	14.10	500	J
7.	ALKANE	14.41	200	J
8.	ALKANE	15.29	200	J
9.	ALKANE	15.80	100	J
10.	TRIBUTYLPHOSPHATE	17.75	600	J
11.	UNKNOWN	19.35	100	J
12.	ALKANE	19.44	200	J
13.	ALKANE	19.94	100	J
14.	ALKANE	20.15	100	J
15.	ALKANE	20.20	200	J
16.	UNKNOWN	20.66	400	J
17.	UNKNOWN	21.42	200	J
18.	ALKANE	21.60	200	J
19.	UNKNOWN	22.01	200	J
20.	UNKNOWN	24.61	300	J
21.	ALKANE	28.88	200	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070212

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 2 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	300	J
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

000017

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070212

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 2 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	5500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

0000175

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-007

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

Lab File ID: J070212

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 1.00

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	7.13	400	JA
2.	ALKANE	12.58	300	J
3.	ALKANE	14.12	800	J
4.	ALKANE	15.31	300	J
5.	TRICHLOROBENZENE	15.78	200	J
6.	TRIBUTYLPHOSPHATE	16.67	200	J
7.	PENTACHLOROBENZENE	17.01	300	J
8.	UNKNOWN	17.70	2000	J
9.	TRIBUTYLPHOSPHATE	18.01	100000	J
10.	UNKNOWN	19.13	300	J
11.	UNKNOWN	19.70	30000	J
12.	UNKNOWN	20.32	6000	J
13.	UNKNOWN	20.57	300	J
14.	UNKNOWN	20.70	700	J
15.	UNKNOWN	21.00	100	J
16.	UNKNOWN	21.10	2000	J
17.	UNKNOWN	21.48	400	J
18.	UNKNOWN	21.66	900	J
19.	UNKNOWN	22.01	200	J
20.	UNKNOWN	22.18	200	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-008

Sample wt/vol: 30.7 (g/mL) G Lab File ID: J070213

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 2 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	bis(2-Chloroisopropyl)ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

1C

0000209

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-008

Sample wt/vol: 30.7 (g/mL) G Lab File ID: J070213

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 2 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	3600	
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	670	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-Octyl phthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: J070213

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.6

Dilution Factor: 1.00

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.64	300	J
2.	ALDOL CONDENSATE	7.33	1000	JA
3.	ALDOL CONDENSATE	8.21	200	JA
4.	TRIBUTYLPHOSPHATE	17.94	70000	J
5.	TRIBUTYLPHOSPHATE	19.42	4000	J
6.	TRIBUTYLPHOSPHATE	19.68	10000	J
7.	UNKNOWN	20.33	2000	J
8.	UNKNOWN	20.71	600	J
9.	UNKNOWN	21.12	600	J
10.	UNKNOWN	21.67	200	J
11.	ALKANE	28.96	800	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J070214

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

0000232 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J070214

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	3200	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-009

Sample wt/vol: 30.2 (g/mL) G Lab File ID: J070214

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	11.46	1000	J
2.	ALKANE	11.69	1000	J
3.	ALKENE	12.07	600	J
4.	ALKENE	12.26	800	J
5.	UNKNOWN	12.46	600	J
6.	ALKANE	12.62	4000	J
7.	ALKENE	12.95	1000	J
8.	ALKANE	13.02	2000	J
9.	UNKNOWN	13.19	800	J
10.	ALKANE	13.30	600	J
11.	ALKANE	13.58	500	J
12.	ALKANE	13.82	500	J
13.	ALKANE	13.96	300	J
14.	ALKANE	14.06	300	J
15.	ALKANE	14.16	2000	J
16.	ALKANE	14.48	1000	J
17.	ALKANE	14.54	500	J
18.	ALKANE	15.34	1000	J
19.	ALKANE	15.85	500	J
20.	TRIBUTYLPHOSPHATE	17.81	5000	J
21.	TRIBUTYLPHOSPHATE	19.66	600	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070215

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	500	
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	300	J
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

0000264 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070215

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	5500	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

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

Lab File ID: J070215

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/02/91

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

Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.48	6000	J
2.	ALKANE	11.70	10000	J
3.	ALKENE	12.08	6000	J
4.	ALKANE	12.25	7000	J
5.	UNKNOWN	12.48	3000	J
6.	ALKANE	12.63	10000	J
7.	ALKENE	12.97	3000	J
8.	ALKANE	13.03	3000	J
9.	ALKANE	13.20	2000	J
10.	ALKANE	13.33	3000	J
11.	UNKNOWN	13.83	3000	J
12.	UNKNOWN	14.07	2000	J
13.	ALKANE	14.17	10000	J
14.	ALKANE	14.48	7000	J
15.	ALKANE	15.35	2000	J
16.	ALKANE	15.87	2000	J
17.	TRIBUTYLPHOSPHATE	18.02	100000	J
18.	TRIBUTYLPHOSPHATE	19.43	7000	J
19.	TRIBUTYLPHOSPHATE	19.72	20000	J
20.	UNKNOWN	20.33	6000	J
21.	UNKNOWN	21.13	1000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-011

Sample wt/vol: 30.9 (g/mL) G Lab File ID: J070505

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
108-95-2	Phenol	1700	U
111-44-4	bis(2-Chloroethyl)ether	1700	U
95-57-8	2-Chlorophenol	1700	U
541-73-1	1,3-Dichlorobenzene	1700	U
106-46-7	1,4-Dichlorobenzene	1700	U
100-51-6	Benzyl alcohol	1700	U
95-50-1	1,2-Dichlorobenzene	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	bis(2-Chloroisopropyl)ether	1700	U
106-44-5	4-Methylphenol	1700	U
621-64-7	N-Nitroso-Di-n-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
65-85-0	Benzoic acid	8400	U
111-91-1	bis(2-Chloroethoxy)methane	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
120-82-1	1,2,4-Trichlorobenzene	1700	U
91-20-3	Naphthalene	1700	U
106-47-8	4-Chloroaniline	1700	U
87-68-3	Hexachlorobutadiene	440	J
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	1700	U
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	8400	U
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	8400	U
131-11-3	Dimethylphthalate	1700	U
208-96-8	Acenaphthylene	1700	U
606-20-2	2,6-Dinitrotoluene	1700	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-011

Sample wt/vol: 30.9 (g/mL) G Lab File ID: J070505

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	8400	U
83-32-9	Acenaphthene	1700	U
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	1700	U
121-14-2	2,4-Dinitrotoluene	1700	U
84-66-2	Diethylphthalate	1700	U
7005-72-3	4-Chlorophenyl-phenylether	1700	U
86-73-7	Fluorene	1700	U
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
86-30-6	N-Nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	240	J
120-12-7	Anthracene	1700	U
84-74-2	Di-n-Butylphthalate	2100	
206-44-0	Fluoranthene	1700	U
129-00-0	Pyrene	1700	U
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	3300	U
56-55-3	Benzo(a)anthracene	1700	U
218-01-9	Chrysene	1700	U
117-81-7	bis(2-Ethylhexyl)phthalate	1700	U
117-84-0	Di-n-Octyl phthalate	1700	U
205-99-2	Benzo(b)fluoranthene	1700	U
207-08-9	Benzo(k)fluoranthene	1700	U
50-32-8	Benzo(a)pyrene	1700	U
193-39-5	Indeno(1,2,3-cd)pyrene	1700	U
53-70-3	Dibenzo(a,h)anthracene	1700	U
191-24-2	Benzo(g,h,i)perylene	1700	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-011

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: J070505

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/05/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 5.00

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	12.26	700	J
2.	ALKANE	12.60	3000	J
3.	ALKANE	12.95	1000	J
4.	ALKANE	14.15	2000	J
5.	ALKANE	15.34	800	J
6.	TRIBUTYLPHOSPHATE	17.92	300000	J
7.	TRIBUTYLPHOSPHATE	19.42	20000	J
8.	TRIBUTYLPHOSPHATE	19.68	60000	J
9.	UNKNOWN	20.33	10000	J
10.	UNKNOWN	21.13	2000	J

1B

0000326

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-012

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070217

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	710	
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	390	
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

0000327 CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS SHEET

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-012

Sample wt/vol: 30.0 (g/mL) G Lab File ID: J070217

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate		E
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	150	J
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

0000328

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012

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

Lab File ID: J070217

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/03/91

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

Dilution Factor: 1.00

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALKANE	11.67	600	J
2.	ALKANE	12.59	1000	J
3.	ALKANE	13.00	500	J
4.	ALKANE	14.14	900	J
5.	ALKANE	14.45	800	J
6.	ALKANE	15.33	500	J
7.	HEXACHLOROBUTENE	15.44	300	J
8.	ALKANE	15.83	600	J
9.	TRIBUTYLPHOSPHATE	16.68	400	J
10.	PENTACHLOROBENZENE	17.01	600	J
11.	UNKNOWN	17.68	800	J
12.	TRIBUTYLPHOSPHATE	18.08	200000	J
13.	TRIBUTYLPHOSPHATE	19.43	9000	J
14.	TRIBUTYLPHOSPHATE	19.72	30000	J
15.	UNKNOWN	20.33	7000	J
16.	TRIBUTYLPHOSPHATE	20.58	300	J
17.	UNKNOWN	20.70	600	J
18.	UNKNOWN	21.01	2000	J
19.	UNKNOWN	21.12	2000	J
20.	UNKNOWN	21.46	400	J
21.	UNKNOWN	21.67	600	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC8DL

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-012 DL

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

Lab File ID: S070814

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/08/91

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

Dilution Factor: 5.00

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

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

1C

0000366

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC8DL

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-012 DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S070814

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/08/91

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	NA	
83-32-9	Acenaphthene	NA	
51-28-5	2,4-Dinitrophenol	NA	
100-02-7	4-Nitrophenol	NA	
132-64-9	Dibenzofuran	NA	
121-14-2	2,4-Dinitrotoluene	NA	
84-66-2	Diethylphthalate	NA	
7005-72-3	4-Chlorophenyl-phenylether	NA	
86-73-7	Fluorene	NA	
100-01-6	4-Nitroaniline	NA	
534-52-1	4,6-Dinitro-2-methylphenol	NA	
86-30-6	N-Nitrosodiphenylamine (1)	NA	
101-55-3	4-Bromophenyl-phenylether	NA	
118-74-1	Hexachlorobenzene	NA	
87-86-5	Pentachlorophenol	NA	
85-01-8	Phenanthrene	NA	
120-12-7	Anthracene	NA	
84-74-2	Di-n-Butylphthalate	6200	J
206-44-0	Fluoranthene	NA	
129-00-0	Pyrene	NA	
85-68-7	Butylbenzylphthalate	NA	
91-94-1	3,3'-Dichlorobenzidine	NA	
56-55-3	Benzo(a)anthracene	NA	
218-01-9	Chrysene	NA	
117-81-7	bis(2-Ethylhexyl)phthalate	NA	
117-84-0	Di-n-Octyl phthalate	NA	
205-99-2	Benzo(b)fluoranthene	NA	
207-08-9	Benzo(k)fluoranthene	NA	
50-32-8	Benzo(a)pyrene	NA	
193-39-5	Indeno(1,2,3-cd)pyrene	NA	
53-70-3	Dibenzo(a,h)anthracene	NA	
191-24-2	Benzo(g,h,i)perylene	NA	

7-21-91
CJ Symelf

(1) - Cannot be separated from Diphenylamine

1B

0000375

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-013

Sample wt/vol: 30.5 (g/mL) G Lab File ID: J070218

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 30.5 (g/mL) G

Lab File ID: J070218

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.9

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	3100	
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	38	J
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

0000377

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-013

Sample wt/vol: 30.5 (g/mL) G Lab File ID: J070218

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	6.61	300	JA
2.	ALDOL CONDENSATE	7.13	1000	JA
3.	ALDOL CONDENSATE	7.32	200	JA
4.	UNKNOWN	10.83	100	J
5.	TRIBUTYLPHOSPHATE	17.78	6000	J
6.	TRIBUTYLPHOSPHATE	19.39	100	J
7.	TRIBUTYLPHOSPHATE	19.63	400	J
8.	UNKNOWN	20.68	200	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-014

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J070219

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-014

Sample wt/vol: 30.3 (g/mL) G Lab File ID: J070219

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/03/91

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	3800	
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	81	J
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-Octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BOOYDO

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-014

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: J070219

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/04/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/03/91

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

Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.68	300	J
2.	ALDOL CONDENSATE	7.16	500	JA
3.	TRIBUTYLPHOSPHATE	17.80	300	J
4.	UNKNOWN	20.71	200	J
5.	UNKNOWN	22.20	70	J

Roy F. Weston, Inc. - Lionville Laboratory
PCBs by GC

RFW Batch Number: 9106L750 | Client: WESTINGHOUSE HANFORD | Work Order: 6168-02-01-0000 | Report Date: 07/11/91 15:20 | Page: 1

	Cust ID:	BOOY97	BOOY97	BOOY97	BOOY98	BOOY99	BOOYB3
Sample Information	RFW#:	001	001 MS	001 MSD	002	003	004
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	2.00	2.00	1.00	1.00	1.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate: Di-n-butylchlorendate		85 %	51 %	114 %	105 %	I %	85 %
		fl	fl	fl	fl	fl	fl
Aroclor-1016		80 U UJ	170 U	160 U	84 U UJ	82 U UJ	82 U UJ
Aroclor-1221		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1232		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1242		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1248		80 U	170 U	160 U	84 U	82 U	82 U
Aroclor-1254		160 U	81 %	167 * %	170 U	160 U	160 U
Aroclor-1260		160 U	330 U	320 U	170 U	160 U	160 U

	Cust ID:	BOOYB4	BOOYB5	BOOYB6	BOOYB9	BOOYC3	BOOYC6
Sample Information	RFW#:	005	006	007	008	009	010
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	10.0	5.00	50.0	5.00	2.50	10.0
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate: Di-n-butylchlorendate		89 %	134 %	D %	100 %	95 %	133 %
		fl	fl	fl	fl	fl	fl
Aroclor-1016		840 U UJ	410 U UJ	4000 U UJ	400 U UJ	200 U UJ	810 U UJ
Aroclor-1221		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1232		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1242		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1248		840 U	410 U	4000 U	400 U	200 U	810 U
Aroclor-1254		1700 U	830 U	8100 U	790 U	400 U	1600 U
Aroclor-1260		1700 U	830 U	8100 U	790 U	400 U	1600 U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

7-21-91
W Sumell

000003

Roy F. Weston, Inc. - Lionville Laboratory
PCBs by GC

Report Date: 07/11/91 15:20

RFW Batch Number: 9106L750 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Page: 2

	Cust ID:	BOOYC7	BOOYC8	BOOYC9	BOOYD0	PBLK	PBLK BS
Sample Information	RFW#:	011	012	013	014	91LE0726-MB1	91LE0726-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	50.0	50.0	5.00	1.00	1.00	2.00
	Units:	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg

Surrogate: Di-n-butylchlorendate	D	%		D	%		90	%		I	%		87	%		68	%	
		fl			fl			fl			fl			fl			fl	
Aroclor-1016	4000	U	UJ	4100	U	UJ	410	U	UJ	82	U	UJ	80	U		160	U	
Aroclor-1221	4000	U		4100	U		410	U		82	U		80	U		160	U	
Aroclor-1232	4000	U		4100	U		410	U		82	U		80	U		160	U	
Aroclor-1242	4000	U		4100	U		410	U		82	U		80	U		160	U	
Aroclor-1248	4000	U		4100	U		410	U		82	U		80	U		160	U	
Aroclor-1254	8100	U		8100	U		810	U		160	U		160	U		94	%	
Aroclor-1260	8100	U		8100	U		810	U		160	U		160	U		320	U	

7-21-91
W Sumeli

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

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1D
PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY97

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-001

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: 07089109.13

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.6

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	80	U UJ
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

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7-21-91
LJ Samuel

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOY99

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 07089109.15

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	82	U UJ
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

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7-21-91
W Simuel

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0000025 CLIENT SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS SHEET

BOOYB3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-004

Sample wt/vol: 30.8 (g/mL) G Lab File ID: 07089109.20

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 5 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND			
12674-11-2	Aroclor-1016	82	U	UJ
11104-28-2	Aroclor-1221	82	U	
11141-16-5	Aroclor-1232	82	U	
53469-21-9	Aroclor-1242	82	U	
12672-29-6	Aroclor-1248	82	U	
11097-69-1	Aroclor-1254	160	U	
11096-82-5	Aroclor-1260	160	U	

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7-21-91
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000003 1 CLIENT SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS SHEET

BOOYB4

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 07089109.21

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 10.0

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

CAS NO.	COMPOUND			
12674-11-2	Aroclor-1016	840	U	UJ
11104-28-2	Aroclor-1221	840	U	
11141-16-5	Aroclor-1232	840	U	
53469-21-9	Aroclor-1242	840	U	
12672-29-6	Aroclor-1248	840	U	
11097-69-1	Aroclor-1254	1700	U	
11096-82-5	Aroclor-1260	1700	U	

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7-21-91
W Simuel

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0000037 CLIENT SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS SHEET

BOOYB5

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-006

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 07089109.22

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 4 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 5.00

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

CAS NO.	COMPOUND			
12674-11-2	Aroclor-1016	410	U	UJ
11104-28-2	Aroclor-1221	410	U	
11141-16-5	Aroclor-1232	410	U	
53469-21-9	Aroclor-1242	410	U	
12672-29-6	Aroclor-1248	410	U	
11097-69-1	Aroclor-1254	830	U	
11096-82-5	Aroclor-1260	830	U	

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7-21-91
CJ Sumell

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0000043

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-007

Sample wt/vol: 30.3 (g/mL) G

Lab File ID: 07089109.23

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.9

Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
12674-11-2	Aroclor-1016	4000	U UJ
11104-28-2	Aroclor-1221	4000	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	8100	U
11096-82-5	Aroclor-1260	8100	U

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7-21-91
CJSumels

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYB9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-008

Sample wt/vol: 31.0 (g/mL) G

Lab File ID: 07089109.24

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 2 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.6

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	400	U UJ
11104-28-2	Aroclor-1221	400	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	790	U
11096-82-5	Aroclor-1260	790	U

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7-21-91
WSimpell

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-009

Sample wt/vol: 31.2 (g/mL) G

Lab File ID: 07089109.27

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) N pH: 7.5

Dilution Factor: 2.50

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	200	U UJ
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	200	U
53469-21-9	Aroclor-1242	200	U
12672-29-6	Aroclor-1248	200	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

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CJSmith

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7/12/91

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0000061

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-010

Sample wt/vol: 30.6 (g/mL) G

Lab File ID: 07089109.28

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 3 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

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

Dilution Factor: 10.0

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	810	U UJ
11104-28-2	Aroclor-1221	810	U
11141-16-5	Aroclor-1232	810	U
53469-21-9	Aroclor-1242	810	U
12672-29-6	Aroclor-1248	810	U
11097-69-1	Aroclor-1254	1600	U
11096-82-5	Aroclor-1260	1600	U

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7-21-91 WSimek

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PESTICIDE ORGANICS ANALYSIS SHEET

0000067 CLIENT SAMPLE NO.

BOOYC7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-011

Sample wt/vol: 30.6 (g/mL) G Lab File ID: 07089109.29

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 50.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
12674-11-2	Aroclor-1016	4000	U UJ
11104-28-2	Aroclor-1221	4000	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	8100	U
11096-82-5	Aroclor-1260	8100	U

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WSimell

7/12/91

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0000073

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC8

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9106L750-012

Sample wt/vol: 30.5 (g/mL) G Lab File ID: 07089109.30

Level: (low/med) LOW Date Received: 05/31/91

% Moisture: not dec. 3 dec. Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 50.0

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	4100	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	4100	U
12672-29-6	Aroclor-1248	4100	U
11097-69-1	Aroclor-1254	8100	U
11096-82-5	Aroclor-1260	8100	U

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CJ Simpson
7-21-91

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BOOYC9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-013

Sample wt/vol: 30.7 (g/mL) G

Lab File ID: 07089109.31

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 4 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

GPC Cleanup: (Y/N) Y pH: 7.9

Dilution Factor: 5.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	410	U UJ
11104-28-2	Aroclor-1221	410	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	810	U
11096-82-5	Aroclor-1260	810	U

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PESTICIDE ORGANICS ANALYSIS SHEET

0000084 CLIENT SAMPLE NO.

BOOYD0

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9106L750-014

Sample wt/vol: 30.9 (g/mL) G

Lab File ID: 07089109.34

Level: (low/med) LOW

Date Received: 05/31/91

% Moisture: not dec. 5 dec.

Date Extracted: 06/05/91

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/91

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
12674-11-2	Aroclor-1016	82	U UJ
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

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7-21-91
W Samuels

ORGANIC QC - Holding Times

Name C.J Simiele Date 7-19-91

COMMENTS: VOA- (hold time 14 days) analysis performed three
fours and five days after sampling.
BNA- (hold time- extract 7days, analysis 40days after extract)
extraction 7days after sampling, analysis 30 days after extraction
P.C.B (hold time- extract 7days, analysis 40days after extract)
extraction 7 days after sampling, analysis 35days after extra

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Surrogate Recovery

Name C.J. Simiele Date 7-19-91

COMMENTS: VOA- All surrogate % recoveries are within required control limits.
BNA- One surrogate recovery was out of required control limits
PCB- all surrogate % recoveries which were not diluted out were within required control limits

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - MS/MSD

Name C J Simiele Date 7-19-91

COMMENTS: VOA- All matrix spike % recoveries and % RPD's are with in required control limits

BNA- two matrix spike % recoveries are out of required control limits, 1 MSD % recovery is out of required control limits and blank spike has 1% recovery out of required control limit. Phenol potential for slight false positive results

PCB- one matrix spike % recoveries and 1 RPD are out of the required control limits.

~~ACTION:~~

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Blanks

Name C.J. Simiele Date 7-19-91

COMMENTS: VOA- contaminants detected method blanks for methylene chloride (11 ug/kg) and acetone (19 ug/kg).
BNA- no contaminants detected in blank
PCB- no contaminants detected in blank

ACTION: qualify all associated samples as per OSM guidelines for VOA's

sample #	constituent	value/qual
VOA-		
BOOY97	methylene Cl	35 u
↓	acetone	24 u
BOOY98	methylene Cl	26 u
↓	acetone	17 u
BOOY99	methylene Cl	27 u
↓	acetone	21 u
BOOYB3	methylene Cl	29 u
↓	acetone	23 u
BOOYB4	methylene Cl	34 u
↓	acetone	27 u
BOOYB5	methylene Cl	26 u
↓	acetone	25 u
BOOYB6	methylene Cl	51 u
↓	acetone	18 u
BOOYB9	methylene Cl	38 u
↓	acetone	20 u
BOOYC3	methylene Cl	35 u
↓	acetone	48 u

sample #	constituent	value/qual
BOOYC6	acetone	190 u
BOOYC7	acetone	180 u
BOOYC8	acetone	140 u
BOOYC9	methylene Cl	31 u
↓	acetone	29 u
BOOYD0	methylene Cl	42 u
↓	acetone	35 u
BOOYB1	methylene Cl	42 u
↓	acetone	41 u
BOOYB2	methylene Cl	48 u
↓	acetone	55 u

ORGANIC QC - GC/MS Tune

Name C.J Simicia Date 7-19-91

COMMENTS: VOA-BFB % relative abundance are all within required control limits, tune frequency met. BNA-DFTPP % relative abundance all within required criteria limits, tune frequency met.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Calibrations

Name CJ Simicic Date 7-19-91

COMMENTS: VOA - All initial and continuing calibration are with in required control limits.
BNA - All initial and continuing calibration are with in required control limits
PCB - initial calibration for linearity - aldrin out of required control limits, analytical sequence requirements met. Continuing calibration - % Differences are all within required control limits for standard at the beginning of run

ACTION: Action: PCB - qualify all associated samples as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
PCB:					
B00Y97	All constituents in all samples	UJ			
B00Y98					
B00Y99					
B00YB3					
B00YB4					
B00YB5					
B00YB6					
B00YB9					
B00YC3					
B00YC6					
B00YC7					
B00YC8					
B00YC9					
B00YD0					

ORGANIC QC - Internal Standards

Name CJ Simiele Date 7-19-91

COMMENTS: VOA- Internal standards area counts and retention times are all with in required control limits.
BNA- Internal standard area counts and retention times are with in required control limits with the exception of 2 area counts on one sample.

ACTION: BNA- Qualify all associated samples as per OSH guidelines.

BNA: sample #	constituent	value/qual	sample #	constituent	value/qual
B00YC8DL	Di-n-Butylphthalate	J			

ORGANIC QC - Instrument Performance (pest)

Name C.J. Simiele Date 7-19-91

COMMENTS: DDT retention time criteria met. All analysis up to samples had retention times within the required control limits. % Breakdown limits were not exceeded for Endrin or DDT. Retention times %D's for DBC were within required control limits

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Other

Name C.J. Simiele Date 7-19-91

COMMENTS: None

ACTION: N/A

sample #	constituent	value/qual	sample #	constituent	value/qual

Westinghouse
Hanford Company

OSM RCRA LEVEL C DATA ASSESSMENT

DATE 7-19-91

REVIEWED BY C.J. Simiela

LABORATORY Roy F. Weston

CASE #

SDG # 91056750

SAMPLES/MATRIX B00Y97 B00YB3 B00YC3
B00Y98 B00YB4 B00YC6
B00Y99 B00YB5 B00YC9
B00YB1 B00YB6 B00YC7
B00YB2 B00YB9 B00YC8
B00YD0-SOILS.

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	Anions-IC	N/A	N/A
1.	Requested vs. Reported	O		
2.	Holding time	O		
3.	Matrix Spike	X		
4.	Duplicate Analysis	O		
5.	Analytical Blanks	O		
6.	Calibration	X		
7.	LCS	X		
8.				
9.				
10.				

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: Fair, data user should use data with caution as no calibration or LCS information was provided with data package.

NOTES:

o Refer to the corresponding attachments for explanation of any problems.

3

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/25/91

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9106L750

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	BOOY97	% Solids	95.7		%	0.10
		Chloride by IC	4.1		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	265		mg/kg	13.2
		Phosphate by IC	4.0		mg/kg J	1.3
		Sulfate by IC	153		mg/kg	13.2
-002	BOOY98	% Solids	96.1		%	0.10
		Chloride by IC	1.7		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	8.5		mg/kg	1.3
		Phosphate by IC	2.9		mg/kg J	1.3
		Sulfate by IC	2.5		mg/kg	1.3
-003	BOOY99	% Solids	95.9		%	0.10
		Chloride by IC	3.5		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	108		mg/kg	13.2
		Phosphate by IC	2.3		mg/kg J	1.3
		Sulfate by IC	226		mg/kg	13.2
-004	BOOYB3	% Solids	94.5		%	0.10
		Chloride by IC	2.2		mg/kg	1.3
		Fluoride by IC	2.7	u	mg/kg UJ	2.7
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	2.7		mg/kg	1.3
		Phosphate by IC	1.8		mg/kg J	1.3
		Sulfate by IC	1.3	u	mg/kg	1.3
-005	BOOYB4	% Solids	97.0		%	0.10
		Chloride by IC	86.2		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	5.7		mg/kg	1.3
		Phosphate by IC	40.7		mg/kg J	1.3
		Sulfate by IC	8.5		mg/kg	1.3
-006	BOOYB5	% Solids	96.5		%	0.10

7-21-91
LJ Sumely

4

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/25/91

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9106L750

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	BOOYB5	Chloride by IC	73.1		mg/kg	1.3
		Fluoride by IC	2.5	u	mg/kg UJ	2.5
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1.3	u	mg/kg	1.3
		Phosphate by IC	39.2		mg/kg J	1.3
		Sulfate by IC	21.7		mg/kg	1.3
-007	BOOYB6	% Solids	99.1		%	0.10
		Chloride by IC	116		mg/kg	12.8
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	111		mg/kg	12.8
		Phosphate by IC	43.4		mg/kg J	1.3
		Sulfate by IC	21.8		mg/kg	1.3
-008	BOOYB9	% Solids	98.2		%	0.10
		Chloride by IC	44.8		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	34.1		mg/kg	1.3
		Phosphate by IC	12.7		mg/kg J	1.3
		Sulfate by IC	8.6		mg/kg	1.3
-009	BOOYC3	% Solids	97.3		%	0.10
		Chloride by IC	169		mg/kg	13.1
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	53.8		mg/kg	1.3
		Phosphate by IC	10.9		mg/kg J	1.3
		Sulfate by IC	9.1		mg/kg	1.3
-010	BOOYC6	% Solids	97.0		%	0.10
		Chloride by IC	267		mg/kg	13.1
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1.3	u	mg/kg	1.3
		Phosphate by IC	1.3	u	mg/kg UJ	1.3
		Sulfate by IC	4.0		mg/kg	1.3

7-21-91
US Samples

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/25/91

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9106L750

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	BOOYC7	% Solids	97.0		%	0.10
		Chloride by IC	220		mg/kg	12.6
		Fluoride by IC	2.5	u	mg/kg UJ	2.5
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	28.0		mg/kg	1.3
		Phosphate by IC	6.9		mg/kg J	1.3
		Sulfate by IC	310		mg/kg	12.6
-012	BOOYC8	% Solids	97.6		%	0.10
		Chloride by IC	194		mg/kg	13.5
		Fluoride by IC	2.7	u	mg/kg UJ	2.7
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1.3	u	mg/kg	1.3
		Phosphate by IC	1.3	u	mg/kg UJ	1.3
		Sulfate by IC	1.3	u	mg/kg	1.3
-013	BOOYC9	% Solids	91.8		%	0.10
		Chloride by IC	14.0		mg/kg	1.3
		Fluoride by IC	2.6	u	mg/kg UJ	2.6
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1670		mg/kg	13.0
		Phosphate by IC	2.0		mg/kg J	1.3
		Sulfate by IC	983		mg/kg	13.0
-014	BOOYD0	% Solids	94.6		%	0.10
		Chloride by IC	3.9		mg/kg	1.3
		Fluoride by IC	2.7	u	mg/kg UJ	2.7
		Nitrite by IC	1.3	u	mg/kg	1.3
		Nitrate by IC	1450		mg/kg	13.3
		Phosphate by IC	1.3	u	mg/kg UJ	1.3
		Sulfate by IC	771		mg/kg	13.3
-015	BOOYB0	% Solids	99.9		%	0.10
-016	BOOYB1	% Solids	100		%	0.10
-017	BOOYB2	% Solids	100		%	0.10

7-21-91

RCRA LEVEL C QC

Name C.J. Simiele Date 7-19-91

QC Check: Requested vs Reported Analysis

COMMENTS: Analysis Requested - Anions
Analysis Reported - Anions

ACTION: None.

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 7-19-91

QC Check: Holding Time

COMMENTS: Analysis performed 11 days after sampling.

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J Simiele Date 7-19-91

QC Check: Matrix Spike

COMMENTS: Matrix spike % recoveries are out of ±25% control limits for: F (102.5%) & PO4 (106%)

ACTION: qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
300Y97	F	2.6 UJ
↓	PO4	4.0 J
00Y98	F	2.6 UJ
↓	PO4	2.9 J
00Y99	F	2.6 UJ
↓	PO4	2.3 J
300Y B3	F	2.7 UJ
↓	PO4	1.8 J
00Y B4	F	2.6 UJ
↓	PO4	40.7 J
00Y B5	F	2.5 UJ
↓	PO4	39.2 J
00YB6	F	2.6 UJ
↓	PO4	43.4 J
00Y B9	F	2.6 UJ
↓	PO4	12.7 J
00Y C3	F	2.6 UJ
↓	PO4	10.9 J
00Y C6	F	2.6 UJ
↓	PO4	1.3 UJ

sample #	constituent	value/qual
B00Y C7	F	2.5 UJ
↓	PO4	6.9 J
B00Y C8	F	2.7 UJ
↓	PO4	1.3 UJ
B00Y C9	F	2.6 UJ
↓	PO4	2.0 J
B00Y D0	F	2.7 UJ
↓	PO4	1.3 UJ

of ____

RCRA LEVEL C QC

Name CJ Simiele Date 7-19-91

QC Check: Duplicate Analysis

COMMENTS: MSD performed, RPD's are all within ±20% control limits

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name CJ Simiele Date 7-19-91

QC Check: Analytical Blank

COMMENTS: No contaminants detected in matrix ~~SP~~ LWS blank

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 7-19-91

QC Check: Calibration

COMMENTS: No calibration data provided with data package, summary does note that all calibration verification was with in ±10% control limits

ACTION: None - user should be aware that no calibration data was provided with package

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

RCRA LEVEL C QC

Name C.J. Simiele Date 7-19-91

QC Check: Laboratory Control Samples

COMMENTS: No LCS data provided with data package.

ACTION: None - user should note no LCS data was provided with data package.

sample #	constituent	value/qual	sample #	constituent	value/qual

___ of ___

Westinghouse
Hanford Company

OSM INORGANIC DATA ASSESSMENT

DATE 7-19-91

REVIEWED BY C.J. Simiele

LABORATORY Roy F. Weston

CASE # —

SDG # 91051750

SAMPLES/MATRIX B00Y97 B00YB3 B00YC3
B00Y98 B00YB4 B00YC6
B00Y99 B00YB5 B00YC9
~~B00YB1~~ B00YB6 B00YC7
6/10/93 ~~B00YB2~~ B00YB9 B00YC8
B00YD0-SOUS.

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O			
2. Blanks (III)	X			
3. ICS (IV)	X			
4. Matrix Spike (V)	X			
5. Duplicate Analysis (VI)	X			
6. LCS (VII)	O			
7. Serial Dilution (IX)	O			
8. GFAA				
9. Holding Times (XIV)	O			
10. Other QC	O			

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: Good, several constituents qualified as undetected due to contaminants in blanks

NOTES: Samples B00YB1 and B00YB2 did not request Metals analyses

ō Refer to the corresponding attachments for explanation of any problems.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY97

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750001

Level (low/med): LOW Date Received:05/31/91

% Solids: 95.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3373.60			P
7440-36-0	Antimony	2.97	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	69.00			P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	2786.10			P
7440-47-3	Chromium	0.47	B		P
7440-48-4	Cobalt	7.00	B		P
7440-50-8	Copper	7.40		U	P
7439-89-6	Iron	10464.70			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2395.70			P
7439-96-5	Manganese	298.40		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.80			P
7440-09-7	Potassium	961.60			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.10	B		P
7440-23-5	Sodium	79.30	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.30		U	P
7440-66-6	Zinc	22.30			P
	Cyanide				

7-21-91
W Surgeli

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY98

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750002

Level (low/med): LOW Date Received:05/31/91

% Solids: 96.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3323.80			P
7440-36-0	Antimony	3.81	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	55.80			P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium	3585.50			P
7440-47-3	Chromium	0.60	U		P
7440-48-4	Cobalt	6.00	B		P
7440-50-8	Copper	7.20		U	P
7439-89-6	Iron	10494.20			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2450.40			P
7439-96-5	Manganese	223.00		*NJ	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.70	B		P
7440-09-7	Potassium	793.30	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.92	B		P
7440-23-5	Sodium	98.40	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	15.00		U	P
7440-66-6	Zinc	20.80			P
	Cyanide				

7-21-91
W Samuels

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOY99

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750003

Level (low/med): LOW Date Received:05/31/91

% Solids: 95.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340.50			P
7440-36-0	Antimony	3.37	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	56.50			P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.71	U		P
7440-70-2	Calcium	3294.30			P
7440-47-3	Chromium	0.53	U		P
7440-48-4	Cobalt	5.80	B		P
7440-50-8	Copper	7.80		U	P
7439-89-6	Iron	10395.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2300.20			P
7439-96-5	Manganese	221.20		*NJ	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	6.30	B		P
7440-09-7	Potassium	925.40			P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.99	B		P
7440-23-5	Sodium	85.60	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.80		U	P
7440-66-6	Zinc	37.40			P
	Cyanide				

7-21-91
W Sumrell

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB3

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750004

Level (low/med): LOW Date Received:05/31/91

% Solids: 94.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3161.10			P
7440-36-0	Antimony	3.39	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	57.20			P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.71	U		P
7440-70-2	Calcium	2599.10			P
7440-47-3	Chromium	0.53	U		P
7440-48-4	Cobalt	5.50	B		P
7440-50-8	Copper	6.00		U	P
7439-89-6	Iron	9417.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2110.40			P
7439-96-5	Manganese	222.10		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	5.80	B		P
7440-09-7	Potassium	975.80			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.20	B		P
7440-23-5	Sodium	77.90	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.40		U	P
7440-66-6	Zinc	21.30			P
	Cyanide				

7-21-91
W Summers

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB4

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750005

Level (low/med): LOW Date Received:05/31/91

% Solids: 96.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3194.40			P
7440-36-0	Antimony	3.65	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	56.00			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.77	U		P
7440-70-2	Calcium	3084.10			P
7440-47-3	Chromium	0.58	U		P
7440-48-4	Cobalt	5.70	B		P
7440-50-8	Copper	7.60		U	P
7439-89-6	Iron	10617.20			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2233.00			P
7439-96-5	Manganese	200.40		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	5.50	B		P
7440-09-7	Potassium	906.30	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	111.30	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	13.90		U	P
7440-66-6	Zinc	22.70			P
	Cyanide				

7-21-91
W Sumeel

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB5

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750006

Level (low/med): LOW Date Received:05/31/91

% Solids: 96.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3700.20			P
7440-36-0	Antimony	3.25	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	64.30			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.68	U		P
7440-70-2	Calcium	3326.10			P
7440-47-3	Chromium	0.51	U		P
7440-48-4	Cobalt	6.80	B	~~D~~ 7-21	P
7440-50-8	Copper	8.00		U	P
7439-89-6	Iron	12369.00			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2738.20			P
7439-96-5	Manganese	250.30		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	8.40			P
7440-09-7	Potassium	1029.50			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	101.40	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.30		U	P
7440-66-6	Zinc	34.80			P
	Cyanide				

7-21-91
W Samuels

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB6

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750007

Level (low/med): LOW Date Received:05/31/91

% Solids: 99.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4265.50			P
7440-36-0	Antimony	3.46	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	78.20			P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.73	U		P
7440-70-2	Calcium	3333.30			P
7440-47-3	Chromium	0.55	U		P
7440-48-4	Cobalt	7.30	B		P
7440-50-8	Copper	8.40		U	P
7439-89-6	Iron	13469.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2903.40			P
7439-96-5	Manganese	279.80		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.90			P
7440-09-7	Potassium	1411.90			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.40	B		P
7440-23-5	Sodium	102.50	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	17.70		U	P
7440-66-6	Zinc	30.80			P
	Cyanide				

7-21-91
W Samuels

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYB9

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750008

Level (low/med): LOW Date Received:05/31/91

% Solids: 98.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4470.50			P
7440-36-0	Antimony	3.12	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	72.80			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	3281.50			P
7440-47-3	Chromium	0.49	U		P
7440-48-4	Cobalt	7.40	B		P
7440-50-8	Copper	8.90		U	P
7439-89-6	Iron	13358.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	3007.50			P
7439-96-5	Manganese	279.60		*NJ	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.60			P
7440-09-7	Potassium	1253.70			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.40	B		P
7440-23-5	Sodium	114.40	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	19.10		U	P
7440-66-6	Zinc	27.70			P
	Cyanide				

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Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC3

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750009

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1678.10			P
7440-36-0	Antimony	3.50	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	29.60	B		P
7440-41-7	Beryllium	0.18	U		P
7440-43-9	Cadmium	0.74	U		P
7440-70-2	Calcium	2641.00			P
7440-47-3	Chromium	0.55	U		P
7440-48-4	Cobalt	4.10	B		P
7440-50-8	Copper	8.10		U	P
7439-89-6	Iron	9932.60			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1557.30			P
7439-96-5	Manganese	106.90		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.40	B		P
7440-09-7	Potassium	529.50	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.81	B		P
7440-23-5	Sodium	102.70	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	6.90	B	U	P
7440-66-6	Zinc	13.80			P
	Cyanide				

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Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC6

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750010

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1783.20			P
7440-36-0	Antimony	2.66	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	35.60			P
7440-41-7	Beryllium	0.14			P
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium	3895.40			P
7440-47-3	Chromium	0.42	U		P
7440-48-4	Cobalt	5.40	B		P
7440-50-8	Copper	9.30		U	P
7439-89-6	Iron	9350.40			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1835.00			P
7439-96-5	Manganese	124.70		*NJ	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.90	B		P
7440-09-7	Potassium	319.30	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.00	B		P
7440-23-5	Sodium	102.70	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.70		U	P
7440-66-6	Zinc	14.30			P
	Cyanide				

7-21-91
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Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC7

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750011

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3414.60			P
7440-36-0	Antimony	3.55	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	60.80			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.75	U		P
7440-70-2	Calcium	3120.40			P
7440-47-3	Chromium	0.56	U		P
7440-48-4	Cobalt	6.50	B		P
7440-50-8	Copper	10.50		U	P
7439-89-6	Iron	14207.90			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2396.00			P
7439-96-5	Manganese	213.90		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.50			P
7440-09-7	Potassium	1010.80			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.30	B		P
7440-23-5	Sodium	108.60	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	14.10		U	P
7440-66-6	Zinc	66.90			P
	Cyanide				

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Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC8

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750012

Level (low/med): LOW Date Received:05/31/91

% Solids: 97.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1646.20			P
7440-36-0	Antimony	3.25	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	32.70	B		P
7440-41-7	Beryllium	0.17	U		P
7440-43-9	Cadmium	0.68	U		P
7440-70-2	Calcium	3207.10			P
7440-47-3	Chromium	0.51	U		P
7440-48-4	Cobalt	4.50	B		P
7440-50-8	Copper	8.30		U	P
7439-89-6	Iron	8069.30			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1556.90			P
7439-96-5	Manganese	103.20		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	3.40	B		P
7440-09-7	Potassium	352.20	B		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.68	U		P
7440-23-5	Sodium	102.80	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.40	B	U	P
7440-66-6	Zinc	14.00			P
	Cyanide				

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Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYC9

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750013

Level (low/med): LOW Date Received:05/31/91

% Solids: 91.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3340.80			P
7440-36-0	Antimony	3.12	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	65.80			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	3700.80			P
7440-47-3	Chromium	0.49	U		P
7440-48-4	Cobalt	6.50	B		P
7440-50-8	Copper	9.90		U	P
7439-89-6	Iron	11766.80			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	2547.00			P
7439-96-5	Manganese	232.30		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	7.90			P
7440-09-7	Potassium	842.20			P
7782-49-2	Selenium				NR
7440-22-4	Silver	1.30	B		P
7440-23-5	Sodium	97.10	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	16.10		U	P
7440-66-6	Zinc	36.10			P
	Cyanide				

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Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYDO

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750014

Level (low/med): LOW Date Received:05/31/91

% Solids: 94.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1671.00			P
7440-36-0	Antimony	3.06	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	52.20			P
7440-41-7	Beryllium	0.16	U		P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	3590.90			P
7440-47-3	Chromium	0.48	U		P
7440-48-4	Cobalt	4.80	B		P
7440-50-8	Copper	8.30		U	P
7439-89-6	Iron	8228.40			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	1536.60			P
7439-96-5	Manganese	105.30		*N J	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	2.70	B		P
7440-09-7	Potassium	241.70	B	~~N~~	P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.64	U		P
7440-23-5	Sodium	82.40	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	9.80		U	P
7440-66-6	Zinc	15.30			P
	Cyanide				

7-21-91 LJ Samuels

Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOYBO

Lab Name:Roy F. Weston, Inc. Contract:6168-02-02

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP750

Matrix (soil/water):SOIL Lab Sample ID:9106750015

Level (low/med): LOW Date Received:05/31/91

% Solids: 99.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	151.40			P
7440-36-0	Antimony	3.16	U	N	P
7440-38-2	Arsenic				NR
7440-39-3	Barium	3.90	B		P
7440-41-7	Beryllium	0.17	U		P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	133.30	B		P
7440-47-3	Chromium	0.50	U		P
7440-48-4	Cobalt	0.66	U		P
7440-50-8	Copper	1.16	U	U	P
7439-89-6	Iron	755.10			P
7439-92-1	Lead				NR
7439-95-4	Magnesium	57.40	B		P
7439-96-5	Manganese	26.80		*NJ	P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.16	U		P
7440-09-7	Potassium	167.36	U		P
7782-49-2	Selenium				NR
7440-22-4	Silver	0.66	U		P
7440-23-5	Sodium	26.50	B	U	P
7440-28-0	Thallium				NR
7440-62-2	Vanadium	1.50	B	U	P
7440-66-6	Zinc	3.00	B		P
	Cyanide				NR

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Color Before:BROWN Clarity Before: Texture:FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

FORM I - IN

INORGANIC QC - Calibrations

Name C.J Simiele Date 7-19-91

COMMENTS: ICP-all initial and continuing calibration standards are within required control limits

ACTION: None

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Blanks

Name C.J. Simiele Date 7-19-91

COMMENTS: Contaiminants detected in blank for following elements: Cu(8.3); Mg(128.5); Na(120.9) & V (14.1);

ACTION: Qualify all associated samples as per OSM guidelines

sample #	constituent	value/qual
B00Y97	Cu	7.4 u
	Na	79.3 u
	V	16.3 u
B00Y98	Cu	7.2 u
	Na	98.4 u
	V	15.0 u
B00Y99	Cu	7.8 u
	Na	85.6 u
	V	14.8 u
B00YB3	Cu	6.0 u
	Na	77.9 u
	V	14.4 u
B00YB4	Cu	7.6 u
	Na	111.3 u
	V	13.9 u
B00YB5	Cu	8.0 u
	Na	101.4 u
	V	16.3 u
B00YB6	Cu	8.4 u
	Na	102.5 u
	V	17.7 u
B00YB9	Cu	8.9 u
	Na	114.4 u
	V	19.1 u
B00YC3	Cu	8.1 u
	Na	102.7 u
	V	6.9 u
B00YC6	Cu	9.3 u
	Na	102.7 u
	V	7.7 u
B00YC7	Cu	10.5 u
	Na	108.6 u
	V	14.1 u
B00YC8	Cu	8.3 u
	Na	102.8 u
	V	7.4 u
B00YC9	Cu	9.9 u
	Na	97.1 u
	V	16.1 u
B00YD0	Cu	8.3 u
	Na	82.4 u
	V	9.8 u
B00YB0	Na	26.5 u
	V	1.5 u

INORGANIC QC - ICS

Name CJ Simicic Date 7-19-91

COMMENTS: Only one ICS form provided with data. All % recoveries are within required control limits, but data was not bracketed ICS samples

ACTION: None- note that ICS data was not provided to bracket data as required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Matrix Spike

Name C.J. Simiela Date 7-19-91

COMMENTS: Sb(167%) and Mn (21%) % recoveries are out of ±25% control limits, post digestion spike performed, both % recoveries were within ±25% control limits.

ACTION: Qualify associated samples as per OSM guidelines.

sample #	constituent	value/qual
B00Y97	Mn	J
B00Y98	Mn	J
B00Y99	Mn	J
B00Y B3	Mn	J
B00Y B4	Mn	J
B00Y B5	Mn	J
B00Y B6	Mn	J
B00Y B9	Mn	J
B00Y C3	Mn	J
B00Y C6	Mn	J
B00Y C7	Mn	J
B00Y C8	Mn	J
B00Y C9	Mn	J
B00Y D0	Mn	J
B00Y B0	Mn	J

sample #	constituent	value/qual

INORGANIC QC - Duplicate Analysis

Name C.J Simiele Date 7-19-91

COMMENTS: Duplicate RPD out of ±20% control limits for Mn (216.1%)

ACTION: Qualify all associated samples as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
300Y97	Mn	J			
300Y98	Mn				
300Y99	Mn				
B00YB3	Mn				
B00YB4	Mn				
B00YB5	Mn				
B00YB6	Mn				
B00YB9	Mn				
B00YC3	Mn				
B00YC6	Mn				
B00YC7	Mn				
B00YC8	Mn				
B00YC9	Mn				
B00YD0	Mn				
B00YB0	Mn				

INORGANIC QC - GFAA

Name C. Lismeil Date 7-19-91

COMMENTS: None

ACTION: N/A

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - other

Name CJ Simiela Date 7-19-91

COMMENTS: None

ACTION: N/A

sample #	constituent	value/qual	sample #	constituent	value/qual