9613425.1084

START

9207L036-WES-760

105

0043791

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 07-16-92
RFW #: 9207L036, GC/MS VOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of twelve (12) water samples collected on 07-13,14-92.

The samples were analyzed according to criteria set forth in CLP SOW 2/88 (Rev. 5/89) for TCL Volatile target compounds on 07-23,24,25-92.

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

1. Non-target compounds were not detected in these samples.

2. The following samples required dilution because they contained high levels of target compounds:

Sample ID	Dilution Factor
B06Q53	20
B06Q71	20
B06ZQ4	20

3. All surrogate recoveries were within EPA QC limits.

4. All matrix spike recoveries were within EPA QC limits.

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

6. The laboratory blanks contained the common contaminants Methylene Chloride and/or Acetone at levels less than the CRQL. The laboratory blank 92LVW152-MB1 also contained the target compounds 2-Hexanone and 4-Methyl-2-pentanone at levels less than the CRQL.

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

08.20.92

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

Date

RECEIVED FEB 1996 EDMC

te/voa/07-036v.cn

DOC: 250986895-5 W92-0-0533-C 92-128

WESTON Analytics Use Only
92071036

Custody Transfer Record/Lab Work Request

WESTON

Westinghouse Hanford Co.

Client
Est. Final Proj. Sampling Date
Work Order # P.H. Butcher (509) 376-5
Project Contact/Phone # 6168-02-01
AD Project Manager Jessie King
QC Chp Del Chp TAT 35 Day
Date Rec'd 7-16-92 Date Due 8-20-92
Account # WS-HANFORD

Refrigerator #
#/Type Container — Liquid: SEE SPECIAL INSTRUCTIONS; Solid: SEE SPECIAL INSTRUCTIONS
Volume — Liquid: See Below; Solid: SEE SPECIAL INSTRUCTIONS
Preservatives

ANALYSES REQUESTED

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

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	ORGANIC VOA	BNA	Pest/PCB	Herb	Anions Cyanide	TDS TSS Alk	Inks & Food	INORG Metal	CN	TOC	TOX				Dis. Metals
							WESTON Analytics Use Only														
							06944	06954	06955		(4)			(3)		TOC	TOX		TS48		MHSL50
001	B06Q53			W	7-13-92	0941	✓	✓	✓		✓	✓	✓			✓	✓		✓		✓
002	B06Q54						✓														
003	B06Q55						✓														
004	B06Q71			W	7-14-92	08:15	✓	✓	✓		✓	✓	✓			✓	✓		✓		
005	72																				✓
006	73						✓														
007	B06Q74				7-13-92	09:41	✓	✓	✓		✓	✓	✓			✓	✓		✓		
008	5																				✓
009	6						✓														
	Metals = HSL																				

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS: RAD INFO ADDED

Special Instructions: 1) 3, 40mL, aG: CLP-VOA. 2) 2, 2L, aG: SEMI-VOA, PCB, PEST. 3) 1, 1L, P: ICP/AA-METAL, Hg (HNO3) (unfiltered). 4) 2, 1L, P: TDS, ANIONS, TSS, ALK. 5) 1, 1L, P: AMMONIA, COD (H2SO4). 6) 1, 250mL, aG: TOC ~~INCLUDES BICARBONATE, CARBONATE~~ (H2SO4). 7) 1, 250mL, aG: TOX (H2SO4). 8) 1, 1L, P: GROSS ALPHA/BETA, GAMMA SCAN (HNO3). 9) 1, 1L, P: ICP AN METALS, (FILTERED).

Anions = IC-Cl, IC-F, IC-PO4, IC-SO4, IC-NO2, IC-NO3

(1) MS/MSD required

Relinquished by	Received by	Date	Time
Emery	[illegible]	7-16-92	10:30
	[illegible] 7-16-92		

Relinquished by	Received by	Date	Time
	[illegible] 7-16-92		

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

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) Labels Indicate 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

Anion

RFW 21-21-001/A-7/91 L372 L373 L375 L377 L378 Ref# Cooler# SML-104 / SML-142 381-596a
110 / -149
143 / 108

08

9617425.1085

WESTON Analytics Use Only: 92071036

SDG: 250986895-5 WO: W92-0-0533-8 Proj. #: 92-128

Custody Transfer Record/Lab Work Request

WESTON

Client: Westinghouse Hanford Co.
Est. Final Proj. Sampling Date:
Work Order #:
Project Contact/Phone #: P.H. Butcher (509) 376-5045
AD Project Manager:
QC: Clp Del: Clp TAT:
Date Rec'd: Date Due:
Account #: See Page 1

Refrigerator #:
Type Container: Liquid / Solid — SEE SPECIAL INSTRUCTIONS.
Volume: Liquid / Solid — SEE SPECIAL INSTRUCTIONS. See Page 1
Preservatives — SEE SPECIAL INSTRUCTIONS.

ANALYSES REQUESTED →

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 (✓) MS	MSD	Matrix	Date Collected	Time Collected	ORGANIC: VOA	BNA	Pest/PCB	Herb				INORG: Metal	CN						
							WESTON Analytics Use Only: See Page 1														
010	B06ZR6			W	7-14-92	10:00	✓	✓	✓		✓	✓	✓			✓	✓	✓			
011	B06ZR7			↓	↓	↓															✓
012	B06ZR8						✓		Acid												
013	B06ZR9			W	7-14-92	08:15	✓	✓	✓		✓	✓	✓			✓	✓	✓			
014	SØ																				✓
015	S1						✓														
016	B06PT2					08:00	✓	✓	✓		✓	✓	✓			✓	✓	✓			
017	3																				✓
018	4			↓	↓	↓	✓														

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
1) 3. 40mL. aG: CLP-VOA. 2) 3. IL. aG: SEMI-VOA, PCB/PEST. 3) 1. IL. P: ICP/AA-METAL, Hg (HNO3) (UNFILTERED). 4) 3. IL. P: TDS, ANIONS, TSS, ALK. 5) 1. IL. P: AMMONIA. TOC (H2SO4). 6) 1. 250mL. aG: TOC (INCLUDES BICARBONATE/CARBONATE) (H2SO4). 7) 1. 250mL. G: TOX (H2SO4). 8) 1. IL. P: GROSS ALPHA/BETA, GAMMA SCAN (HNO3). 9) 1. IL. P: ICP/AA METALS. Hg (HNO3) (FILTERED).

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) Labels Indicate 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

Relinquished by	Received by	Date	Time
Emery	[signature]	7-16-92	12:30
	[signature]	7-16-92	

Relinquished by	Received by	Date	Time
	[signature]	7-16-92	

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES: See Page 1

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# ____ Cooler# ____ 381 596a

03

9617425.1086

9613425.1087

0000004

Westinghouse Hanford Company	CHAIN OF CUSTODY 92074036

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 200AAMS

Ice Chest No. SML-154

Bill of Lading/Airbill No. 2509868895-5

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date July 14 1992

Field Logbook No. EFL 1032

Offsite Property No. W92-0-0533-8

Sample Identification

4 B06071
- 3, 40ml, aG, WATER, CLP-VOA
- 3, 2L, aG, WATER, SEMI-VOA, PCB/PEST
- 1, 1L, P, WATER, ICP/AA-METAL & Hg (HNO3) UNFILTERED
- 3, 1L, P, WATER, TDS, ANIONS, TSS, ALK
- 1, 1L, P, WATER, AMMONIA, COD (H2SO4)
- 1, 250ml, aG, WATER, TOC(INCLUDES BICARBONATE/CARBONATE (H2SO4)
- 1, 250ml, Gs, WATER, TOX (H2SO4)
- 1, 1L, P, WATER, GROSS ALPHA/BETA, GAMMA SCAN (HNO3)

B06072
- 1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) (FILTERED)

B06073
- 3, 40 ml, WATER, CLP-VOA

[] Field Transfer of Custody — Chain of Possession — (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
G G Hamilton GG Hamilton	B.W. Butcher B.W. Butcher	7-15 0900 ~~1830~~ BW
B.W. Butcher B.W. Butcher		
Emery	Jack Salinzzi	7-16-92 12:30

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

9613425.1088

000005

Westinghouse Hanford Company	CHAIN OF CUSTODY 92-7L036

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designati.. Sampling Locations 200AAMS

Ice Chest No. SML-110

Bill of Lading/Airbill No. 250966895-5

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 7-13-92

Field Logbook No. EFL-1033

Offsite Property No. W92-W-0533-6

Sample Identification

1 B0G653
- 3, 40ml, aG, WATER, CLP-VOA
- 3, 2L, aG, WATER, SEMI-VOA, PCB/PEST
- 1, 1L, P, WATER, ICP/AA-METAL & Hg (HNO3) UNFILTERED
- 3, 1L, P, WATER, TDS, ANIONS, TSS, ALK
- 1, 1L, P, WATER, AMMONIA, COD (H2SO4)
- 1, 250ml, aG, WATER, TOC(INCLUDES BICARBONATE/CARBONATE (H2SO4)
- 1, 250ml, Gs, WATER, TOX (H2SO4)
- 1, 1L, P, WATER, GROSS ALPHA/BETA, GAMMA SCAN (HNO3)

B0G654
- 1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) (FILTERED)

B0G655
- 3, 40 ml, WATER, CLP-VOA

[] Field Transfer of Custody — Chain of Possession — (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
G G Hamilton GG HAMILTON	B. WHITTON	7-15-92
B. WHITTEN		
Emery		7-16-92 17:30

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

9613425.1089

000006

Westinghouse Hanford Company	CHAIN OF CUSTODY 9207L036

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 200AAMS

Ice Chest No. SML-143

Bill of Lading/Airbill No. 2509966695-5

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 7/13/92

Field Logbook No. EFL-1033

Offsite Property No. W92-0-0533-G

Sample Identification

B06E04
- 3, 40ml, Gs, WATER, CLP-VOA
- 3, 2L, aG, WATER, SEMI-VOA, PCB/PEST
- 1, 1L, P, WATER, ICP/AA-METAL & Hg (HNO3) UNFILTERED
- 3, 1L, P, WATER, TDS, ANIONS, TSS, ALK
- 1, 1L, P, WATER, AMMONIA, COD (H2SO4)
- 1, 250ml, aG, WATER, TOC(INCLUDES BICARBONATE/CARBONATE (H2SO4)
- 1, 250ml, Gs, WATER, TOX (H2SO4)
- 1, 1L, P, WATER, GROSS ALPHA/BETA, GAMMA SCAN (HNO3)

B06E05
- 1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) (FILTERED)

B06E06
- 3, 40 ml, WATER, CLP-VOA

[] Field Transfer of Custody — Chain of Possession — (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
K. A. Lee	B. WHITTEN	07-15-92 0:900
B. WHITTEN		
Emery		12:30 7-16-92

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

9613425.1090

0000007

Westinghouse Hanford Company	CHAIN OF CUSTODY 9207L036

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200AAMS

Collection Date 7-14-92

Ice Chest No. SML-142

Field Logbook No. EFL-1037

Bill of Lading/Airbill No. 250986895-5

Offsite Property No. W92-0-0533-8

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Sample Identification

ID BO6E46

3, 40ml, Gs, WATER, CLP-VOA
3, 2L, aG, WATER, SEMI-VOA, PCB/PEST
1, 1L, P, WATER, ICP/AA-METAL & Hg (HNO3) UNFILTERED
3, 1L, P, WATER, TDS, ANIONS, TSS, ALK
1, 1L, P, WATER, AMMONIA, COD (H2SO4)
1, 250ml, aG, WATER, TOC(INCLUDES BICARBONATE/CARBONATE (H2SO4)
1, 250ml, Gs, WATER, TOX (H2SO4)
1, 1L, P, WATER, GROSS ALPHA/BETA, GAMMA SCAN (HNO3)

BO6E47

1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) (FILTERED)

BO6E48

3, 40 ml, WATER, CLP-VOA

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: L.D. Walker	Received by: B. WHITTEN	Date/Time: 7-15-92 / 0900 7-15-92
Relinquished by: B. WHITTEN	Received by:	Date/Time:
Relinquished by: Emery	Received by: [illegible]	Date/Time: 7-16-92 @ 12:30
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

9613425.1091

000008

Westinghouse Hanford Company	CHAIN OF CUSTODY 9207L030

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 200AAMS

Ice Chest No. SML-108

Bill of Lading/Airbill No. 2509864695-5

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 7 14 92

Field Logbook No. 2-L 1032

Offsite Property No. W92-0-0533-7

Sample Identification

13 B06ER9
- 3, 40ml, Gs, WATER, CLP-VOA
- 3, 2L, aG, WATER, SEMI-VOA, PCB/PEST
- 1, 1L, P, WATER, ICP/AA-METAL & Hg (HNO3) UNFILTERED
- 3, 1L, P, WATER, TDS, ANIONS, TSS, ALK
- 1, 1L, P, WATER, AMMONIA, COD (H2SO4)
- 1, 250ml, aG, WATER, TOC(INCLUDES BICARBONATE/CARBONATE (H2SO4)
- 1, 250ml, Gs, WATER, TOX (H2SO4)
- 1, 1L, P, WATER, GROSS ALPHA/BETA, GAMMA SCAN (HNO3)

B06ER0
- 1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) (FILTERED)

B06ER1
- 3, 40 ml, WATER, CLP-VOA

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: L. Gilbert C. SELBERG	Received by: B. WHITTEN	Date/Time: 09:00 7-15-92 ~~1830~~ RW 7-15-92
Relinquished by: B. WHITTEN	Received by:	Date/Time:
Relinquished by: Emery	Received by:	Date/Time: 7-16-92 1230
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

9613425.1092

72021036

Westinghouse Hanford Company	CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200AAMS

Collection Date 7-14-92

Ice Chest No. SML-149

Field Logbook No. EFL-1033

Bill of Lading/Airbill No. 250966895-5

Offsite Property No. W92-0-0533-7

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Sample Identification

BO[illegible]
3, 40ml, aG, WATER, CLP-VOA
3, 2L, aG, WATER, SEMI-VOA, PCB/PEST
1, 1L, P, WATER, ICP/AA-METAL & Hg (HNO3) UNFILTERED
3, 1L, P, WATER, TDS, ~~BOD, DISOLVED OXYGEN~~, ANIONS, TSS, ALK
1, 1L, P, WATER, AMMONIA, COD (H2SO4)
1, 250ml, aG, WATER, TOC(INCLUDES BICARBONATE/CARBONATE (H2SO4)
1, 250ml, Gs, WATER, TOX (H2SO4)
1, 1L, P, WATER, GROSS ALPHA/BETA, GAMMA SCAN (HNO3)

BO[illegible]
1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) (FILTERED)

BO[illegible]
3, 40 ml, WATER, CLP-VOA

[] Field Transfer of Custody — Chain of Possession — (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
D. Walker	B. WHITTEN	7/15/92 09:00
B. WHITTEN		
Emery		7-16-92 12:30

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

9613425.1093

9207L036

EMERY WORLDWIDE — A CF Company

DATE: 07-15-92 SHIPMENT NO.: 250986895 5

SHIPPER: WESTINGHOUSE SHIPPING DEPT (509) 376-6

REFERENCE NO.: W92-0-0533#6, #7 & #8

SIGNATURE AND TALLY RECORD

60029-46 (8/89) Litho USA

SHIPPER NAME AND ADDRESS

WESTINGHOUSE SHIPPING DEPT (509) 376-6665
G2-06 U.S. DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD COMPANY
2355 STEVENS DRIVE 1163 BUILDING
PO BOX 1970
RICHLAND WA 99352

CONSIGNEE NAME AND ADDRESS

JOSIE KING
RF WESTON INC
208 WELSH POOL ROAD
LIONVILLE PA 19341

Pieces	Weight	Description/Marks	Emery Authorization No.
6	461	6 COOLER ID: WATER SAMPLES SML143 74#; 85#, 81, 77, 76; 78	

EACH PERSON HANDLING OR TAKING CUSTODY OF THIS SHIPMENT MUST SIGN AND COMPLETE THE INFORMATION BELOW

Name of Person/Company	Transship Point/Destination	Signature of Person Accepting Custody	Time/Date
1.			
2.			
3.			
4.			
5.			
6.			
7.			7/16/92
8.			7/16/92

SPECIAL HANDLING INSTRUCTIONS

FOR PAYMENT

Check ☐ GBL ☐ FCCOD ☐

Bill to Shipper ☒ Bill to Consignee ☐ Third Party Billing ☐

Shipper's Account Number 850281585

EMERY WORLDWIDE — A CF Company

9207L036

SERVICES

UNITED STATES / CANADA: Same Day ☐ AM ☒ PM ☐ Second Day ☐ Saturday Delivery ☐ Standard ☐ Business Documents ☐ Customs Clearance ☐ Delivery ☐

Date 07-15-92 Origin Shipment Number 250986895

From:
WESTINGHOUSE SHIPPING DEPT (509) 376-6665
U.S. DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD
BLDG 1163
2355 STEVENS DRIVE
RICHLAND WA
Canada ☐

To:
JOSIE KING
RF WESTON INC
208 WELSH POOL ROAD
LIONVILLE PA
Zip 19341
Consignee's Account Number E
Hold for Pick Up ☐ Canada ☐

Tariff Dest. Gateway

Check to Shipper $

EMERY WORLDWIDE will accept Consignee check with all risks being assumed by Shipper, including but not limited to non-payment, fraud and misrepresentation.

Customer's Reference Numbers: 91232 P8238 W92-0-0533 #6 99352

Description: R SAMPLES #7 & #8
COOLER ID: SML143 74#; 110 85#; SML108 81#; 149 77#; SML142 76#; 154 78#

Pcs.	L	W	H	Total Pieces	Total Weight LBS.
6				6	461

Remarks: RNIGHT DELIVERY ATURE SECURITY SERVICE

Zip Ship ☐ For shipments within the 50 United States Shipper has the option to check this box and, by checking, agrees that the Zip Ship conditions, described in the area to the right, apply.

Mark if Emery Packaging is used: Urgent Letter 9X12 ☐ Urgent Pack 12X15 ☐

FOR INFORMATION OR RATES CALL 1-800 44 EMERY (1-800-443-6379)

Declared Value $

250986895 5

International Shipments: Free Domicile ☐ Commodity Code

Third Party Account Number mandatory for Third Party Billing. Third Party Account Number E

International Customs Value International Insurance

3-PhS

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

RFW Batch Number: 9207L036 | Client: WESTINGHOUSE HANFORD | Work Order: 6168-02-01-0000 | Report Date: 08/13/92 16:09 | Page: 1a

	Cust ID:	B06Q53		B06Q53		B06Q55		B06Q71		B06Q71		B06Q73	
Sample Information	RFW#:	001		001 DL		003		004		004 DL		006	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		20.0		1.00		1.00		20.0		1.00	
	Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Surrogate Recovery	Toluene-d8	93	%	102	%	91	%	90	%	107	%	91	%
	Bromofluorobenzene	97	%	102	%	97	%	95	%	108	%	96	%
	1,2-Dichloroethane-d4	95	%	98	%	94	%	92	%	99	%	87	%
Chloromethane		10	U	NA		10	U	10	U	NA		10	U
Bromomethane		10	U	NA		10	U	10	U	NA		10	U
Vinyl Chloride		10	U	NA		10	U	10	U	NA		10	U
Chloroethane		10	U	NA		10	U	10	U	NA		10	U
Methylene Chloride		2	JB	NA		3	JB	2	JB	NA		12	B
Acetone		10	U	NA		3	JB	10	U	NA		2	JB
Carbon Disulfide		5	U	NA		5	U	5	U	NA		5	U
1,1-Dichloroethene		5	U	NA		5	U	5	U	NA		5	U
1,1-Dichloroethane		5	U	NA		5	U	5	U	NA		5	U
1,2-Dichloroethene (total)		5	U	NA		5	U	5	U	NA		5	U
Chloroform		14		NA		5	U	15		NA		5	U
1,2-Dichloroethane		5	U	NA		5	U	5	U	NA		5	U
2-Butanone		10	U	NA		10	U	10	U	NA		10	U
1,1,1-Trichloroethane		5	U	NA		5	U	5	U	NA		5	U
Carbon Tetrachloride			E	1900		5	U		E	2100		5	U
Vinyl Acetate		10	U	NA		10	U	10	U	NA		10	U
Bromodichloromethane		5	U	NA		5	U	5	U	NA		5	U
1,2-Dichloropropane		5	U	NA		5	U	5	U	NA		5	U
cis-1,3-Dichloropropene		5	U	NA		5	U	5	U	NA		5	U
Trichloroethene		16		NA		5	U	6		NA		5	U
Dibromochloromethane		5	U	NA		5	U	5	U	NA		5	U
1,1,2-Trichloroethane		5	U	NA		5	U	5	U	NA		5	U
Benzene		5	U	NA		5	U	5	U	NA		5	U
Trans-1,3-Dichloropropene		5	U	NA		5	U	5	U	NA		5	U
Bromoform		5	U	NA		5	U	5	U	NA		5	U
4-Methyl-2-pentanone		10	U	NA		10	U	10	U	NA		10	U
2-Hexanone		10	U	NA		10	U	10	U	NA		10	U
Tetrachloroethene		5	U	NA		5	U	5	U	NA		5	U
1,1,2,2-Tetrachloroethane		5	U	NA		5	U	5	U	NA		5	U

*= Outside of EPA CLP QC limits.

000012
9613425.1094

Cust ID:	B06Q53	B06Q53	B06Q55	B06Q71	B06Q71	B06Q73
RFW#:	001	001 DL	003	004	004 DL	006
Toluene	5 U	NA	5 U	5 U	NA	5 U
Chlorobenzene	5 U	NA	5 U	5 U	NA	5 U
Ethylbenzene	5 U	NA	5 U	5 U	NA	5 U
Styrene	5 U	NA	5 U	5 U	NA	5 U
Xylene (total)	5 U	NA	5 U	5 U	NA	5 U

*= Outside of EPA CLP QC limits.

000013

9613425.1095

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

RFW Batch Number: 9207L036 | Client: WESTINGHOUSE HANFORD | Work Order: 6168-02-01-0000 | Report Date: 08/13/92 16:09 | Page: 2a

	Cust ID:	BO6ZQ4		BO6ZQ4		BO6ZQ6		BO6ZR6		BO6ZR8		BO6ZR9	
Sample Information	RFW#:	007		007 DL		009		010		012		013	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		20.0		1.00		1.00		1.00		1.00	
	Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Surrogate Recovery	Toluene-d8	93	%	105	%	93	%	90	%	93	%	104	%
	Bromofluorobenzene	99	%	108	%	99	%	96	%	99	%	103	%
	1,2-Dichloroethane-d4	93	%	101	%	79	%	81	%	78	%	79	%
			fl		fl		fl		fl		fl		fl
Chloromethane		10	U	NA		10	U	10	U	10	U	10	U
Bromomethane		10	U	NA		10	U	10	U	10	U	10	U
Vinyl Chloride		10	U	NA		10	U	10	U	10	U	10	U
Chloroethane		10	U	NA		10	U	10	U	10	U	10	U
Methylene Chloride		3	JB	NA		17	B	16	B	13	B	3	JB
Acetone		10	U	NA		3	JB	10	U	10	U	10	U
Carbon Disulfide		5	U	NA		5	U	5	U	5	U	5	U
1,1-Dichloroethene		5	U	NA		5	U	5	U	5	U	5	U
1,1-Dichloroethane		5	U	NA		5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	NA		5	U	5	U	5	U	5	U
Chloroform		13		NA		5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	NA		5	U	5	U	5	U	5	U
2-Butanone		10	U	NA		10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	NA		5	U	5	U	5	U	5	U
Carbon Tetrachloride			E	1900		5	U	5	U	5	U	5	U
Vinyl Acetate		10	U	NA		10	U	10	U	10	U	10	U
Bromodichloromethane		5	U	NA		5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	NA		5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	NA		5	U	5	U	5	U	5	U
Trichloroethene		16		NA		5	U	5	U	5	U	5	U
Dibromochloromethane		5	U	NA		5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	NA		5	U	5	U	5	U	5	U
Benzene		5	U	NA		5	U	5	U	5	U	5	U
Trans-1,3-Dichloropropene		5	U	NA		5	U	5	U	5	U	5	U
Bromoform		5	U	NA		5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	NA		10	U	10	U	10	U	10	U
2-Hexanone		10	U	NA		10	U	10	U	10	U	10	U
Tetrachloroethene		5	U	NA		5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	NA		5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

9613425.1096
000017

Cust ID:	BO6ZQ4	BO6ZQ4	BO6ZQ6	BO6ZR6	BO6ZR8	BO6ZR9
RFW#:	007	007 DL	009	010	012	013
Toluene	5 U	NA	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	NA	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	NA	5 U	5 U	5 U	5 U
Styrene	5 U	NA	5 U	5 U	5 U	5 U
Xylene (total)	5 U	NA	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

9613425.1097

000015

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

RFW Batch Number: 9207L036 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 06/13/92 16:09 Page: 3a

	Cust ID:	B06ZS1		B06PT2		B06PT4		B06PT4		B06PT4		VBLK	
Sample Information	RFW#:	015		016		018		018 MS		018 MSD		92LVW148-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Surrogate Recovery	Toluene-d8	101	%	99	%	97	%	94	%	95	%	100	%
	Bromofluorobenzene	103	%	99	%	96	%	94	%	96	%	106	%
	1,2-Dichloroethane-d4	94	%	95	%	95	%	94	%	95	%	97	%
			fl		fl		fl		fl		fl		fl
Chloromethane		10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride		10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride		7	B	4	JB	7	B	6	B	9	B	2	J
Acetone		2	J	10	U	2	JB	10	U	1	JB	8	J
Carbon Disulfide		5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		5	U	5	U	5	U	89	%	91	%	5	U
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone		10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl Acetate		10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene		5	U	5	U	5	U	98	%	102	%	5	U
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Benzene		5	U	5	U	5	U	90	%	93	%	5	U
Trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Bromoform		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000016
9613425.1098

Cust ID:	B06ZS1	B06PT2	B06PT4	B06PT4	B06PT4	VBLK
RFW#:	015	016	018	018 MS	018 MSD	92LVW148-MB1
Toluene	5 U	5 U	5 U	96 %	98 %	5 U
Chlorobenzene	5 U	5 U	5 U	101 %	101 %	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

000017

9613425.1099

9613425.1100

1A

VOLATILE ORGANICS ANALYSIS SHEET 000039

CLIENT SAMPLE NO.

B06Q53

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-001

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

Lab File ID: W072314

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	2	JB
67-64-1	Acetone	10	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	14	
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		E
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	16	
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

9613425.1101

1E

0000040

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B06Q53

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-001

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

Lab File ID: W072314

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1102

1A

000049

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B06Q53DL

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-001 DL

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

Lab File ID: W072426

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 20.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1900	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

9613425.1103

1A

VOLATILE ORGANICS ANALYSIS SHEET 000054

CLIENT SAMPLE NO.

B06Q55

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-003

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

Lab File ID: W072315

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	3	JB
67-64-1	Acetone	3	JB
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

9613425.1104

1E

000055

CLIENT SAMPLE NO.

BO6Q55

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-003

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

Lab File ID: W072315

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1105

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000061

CLIENT SAMPLE NO.

B06Q71

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-004

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

Lab File ID: W072316

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
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	2	JB
67-64-1	Acetone	10	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	15	
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		E
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	6	
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

9613425.1106

1E

0000062

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B06Q71

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-004

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

Lab File ID: W072316

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1107

1A

VOLATILE ORGANICS ANALYSIS SHEET 000070

CLIENT SAMPLE NO.

B06Q71DL

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-004 DL

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

Lab File ID: W072427

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 20.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	2100	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

9613425.1108

1A
VOLATILE ORGANICS ANALYSIS SHEET 000075

CLIENT SAMPLE NO.

B06Q73

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-006

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

Lab File ID: W072317

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	12	B
67-64-1	Acetone	2	JB
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

9613425.1109

1E

000076

CLIENT SAMPLE NO.

B06Q73

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-006

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

Lab File ID: W072317

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1110

1A

VOLATILE ORGANICS ANALYSIS SHEET 000083

CLIENT SAMPLE NO.

BO6ZQ4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-007

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

Lab File ID: W072318

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	3	JB
67-64-1	Acetone	10	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	13	
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		E
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	16	
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

9613425.1111

1E

000084

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B06ZQ4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-007

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

Lab File ID: W072318

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1112

1A

VOLATILE ORGANICS ANALYSIS SHEET 000092

CLIENT SAMPLE NO.

BO6ZQ4DL

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-007 DL

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

Lab File ID: W072428

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 20.0

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl Chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	1900	
108-05-4	Vinyl Acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	Trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

9613425.1113

1A

VOLATILE ORGANICS ANALYSIS SHEET 000097

CLIENT SAMPLE NO.

BO6ZQ6

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-009

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

Lab File ID: W072319

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	17	B
67-64-1	Acetone	3	JB
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

9613425.1114

1E

000098

CLIENT SAMPLE NO.

BO6ZQ6

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-009

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

Lab File ID: W072319

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1115

1A

VOLATILE ORGANICS ANALYSIS SHEET 000103

CLIENT SAMPLE NO.

B06ZR6

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-010

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

Lab File ID: W072320

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	16	B
67-64-1	Acetone	10	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

9613425.1116

1E

000104

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B06ZR6

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-010

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

Lab File ID: W072320

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1117

1A

000109

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BO6ZR8

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-012

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

Lab File ID: W072321

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	13	B
67-64-1	Acetone	10	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

9613425.1118

1E

VOLATILE ORGANICS ANALYSIS SHEET 0000110

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BO6ZR8

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-012

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

Lab File ID: W072321

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/23/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1119

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000115

CLIENT SAMPLE NO.

B06ZR9

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-013

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

Lab File ID: W072429

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	3	JB
67-64-1	Acetone	10	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

9613425.1120

1E

000116

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BO6ZR9

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-013

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

Lab File ID: W072429

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1121

1A

VOLATILE ORGANICS ANALYSIS SHEET 0000121

CLIENT SAMPLE NO.

BO6ZS1

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-015

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

Lab File ID: W072430

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	7	B
67-64-1	Acetone	2	J
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

9613425.1122

1E

0000122

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BO6ZS1

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-015

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

Lab File ID: W072430

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1123

1A

VOLATILE ORGANICS ANALYSIS SHEET 000128

CLIENT SAMPLE NO.

BO6PT2

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-016

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

Lab File ID: W072504

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	4	JB
67-64-1	Acetone	10	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

9613425.1124

1E

VOLATILE ORGANICS ANALYSIS SHEET 000129

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BO6PT2

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-016

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

Lab File ID: W072504

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

9613425.1125

1A

VOLATILE ORGANICS ANALYSIS SHEET 000134

CLIENT SAMPLE NO.

B06PT4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-018

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

Lab File ID: W072505

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

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

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	7	B
67-64-1	Acetone	2	JB
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

9613425.1126

1E

VOLATILE ORGANICS ANALYSIS SHEET 000135

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B06PT4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-018

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

Lab File ID: W072505

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____

Date Analyzed: 07/25/92

Column: (pack/cap) PACK

Dilution Factor: 1.00

Number TICs found: 0

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

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

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

RFW Batch Number: 9207L036 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 09/02/92 18:54 Page: 1a

	Cust ID:	B06Q53		B06Q53		B06Q53		B06Q71		B06ZQ4		B06ZR6	
Sample Information	RFW#:	001		001 MS		001 MSD		004		007		010	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Surrogate Recovery	Nitrobenzene-d5	62	%	82	%	58	%	72	%	50	%	64	%
	2-Fluorobiphenyl	57	%	80	%	53	%	67	%	46	%	62	%
	p-Terphenyl-d14	88	%	103	%	77	%	95	%	70	%	99	%
	Phenol-d5	67	%	68	%	63	%	60	%	63	%	82	%
	2-Fluorophenol	65	%	71	%	67	%	64	%	60	%	73	%
	2,4,6-Tribromophenol	99	%	99	%	90	%	80	%	70	%	94	%
			fl		fl		fl		fl		fl		fl
	Phenol	10	U	67	%	68	%	10	U	10	U	10	U
	bis(2-Chloroethyl)ether	10	U	10	U	10	U	10	U	10	U	10	U
	2-Chlorophenol	10	U	65	%	64	%	10	U	10	U	10	U
	1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
	1,4-Dichlorobenzene	10	U	61	%	41	%	10	U	10	U	10	U
	Benzyl alcohol	10	U	10	U	10	U	10	U	10	U	10	U
	1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
	2-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
	bis(2-Chloroisopropyl)ether	10	U	10	U	10	U	10	U	10	U	10	U
	4-Methylphenol	10	U	10	U	10	U	10	U	10	U	10	U
	N-Nitroso-Di-n-propylamine	10	U	88	%	62	%	10	U	10	U	10	U
	Hexachloroethane	10	U	10	U	10	U	10	U	10	U	10	U
	Nitrobenzene	10	U	10	U	10	U	10	U	10	U	10	U
	Isophorone	10	U	10	U	10	U	10	U	10	U	10	U
	2-Nitrophenol	10	U	10	U	10	U	10	U	10	U	10	U
	2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U	10	U
	Benzoic acid	50	U	50	U	50	U	50	U	50	U	50	U
	bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U	10	U
	2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
	1,2,4-Trichlorobenzene	10	U	70	%	47	%	10	U	10	U	10	U
	Naphthalene	10	U	10	U	10	U	10	U	10	U	10	U
	4-Chloroaniline	10	U	10	U	10	U	10	U	10	U	10	U
	Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U	10	U
	4-Chloro-3-methylphenol	10	U	51	%	73	%	10	U	10	U	10	U
	2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U	10	U
	Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	10	U	10	U

*= Outside of EPA CLP QC limits.

9613425.1127

RFW Batch Number: 9207L036 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000

Cust ID:	B06Q53		B06Q53		B06Q53		B06Q71		B06ZQ4		B06ZR6	
RFW#:	001		001 MS		001 MSD		004		007		010	
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U	50	U	50	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	50	U	50	U	50	U	50	U	50	U	50	U
Dimethylphthalate	10	U	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	50	U	50	U	50	U	50	U	50	U	50	U
Acenaphthene	10	U	98	%	68	%	10	U	10	U	10	U
2,4-Dinitrophenol	50	U	50	U	50	U	50	U	50	U	50	U
4-Nitrophenol	50	U	104 *	%	89 *	%	50	U	50	U	50	U
Dibenzofuran	10	U	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	106 *	%	96	%	10	U	10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U	10	U	1	J
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine (1)	10	U	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	50	U	64	%	62	%	50	U	50	U	50	U
Phenanthrene	10	U	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U	10	U
Di-n-Butylphthalate	3	JB	2	JB	3	JB	2	JB	2	JB	2	JB
Fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U
Pyrene	10	U	150 *	%	115	%	10	U	10	U	10	U
Butylbenzylphthalate	10	U	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U	20	U	20	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	20	B	29	B	24	B	13	B	11	B	15	B
Di-n-Octyl phthalate	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U	10	U	10	U

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

9617425.1128
000013

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

RFW Batch Number: 9207L036 | Client: WESTINGHOUSE HANFORD | Work Order: 6168-02-01-0000 | Report Date: 09/02/92 18:54 | Page: 2a

	Cust ID:	BO6ZR9		BO6PT2		SBLK		SBLK BS	
Sample Information	RFW#:	013		016		92LE1121-MB1		92LE1121-MB1	
	Matrix:	WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00	
	Units:	ug/L		ug/L		ug/L		ug/L	
Surrogate Recovery	Nitrobenzene-d5	46	%	55	%	69	%	58	%
	2-Fluorobiphenyl	44	%	50	%	63	%	58	%
	p-Terphenyl-d14	66	%	80	%	92	%	92	%
	Phenol-d5	52	%	65	%	50	%	76	%
	2-Fluorophenol	81	%	66	%	46	%	71	%
	2,4,6-Tribromophenol	81	%	95	%	63	%	116	%
		fl		fl		fl		fl	
Phenol		1	J	10	U	10	U	78	%
bis(2-Chloroethyl)ether		10	U	10	U	10	U	10	U
2-Chlorophenol		10	U	10	U	10	U	74	%
1,3-Dichlorobenzene		10	U	10	U	10	U	10	U
1,4-Dichlorobenzene		10	U	10	U	10	U	38	%
Benzyl alcohol		10	U	10	U	10	U	10	U
1,2-Dichlorobenzene		10	U	10	U	10	U	10	U
2-Methylphenol		10	U	10	U	10	U	10	U
bis(2-Chloroisopropyl)ether		10	U	10	U	10	U	10	U
4-Methylphenol		10	U	10	U	10	U	10	U
N-Nitroso-Di-n-propylamine		10	U	10	U	10	U	66	%
Hexachloroethane		10	U	10	U	10	U	10	U
Nitrobenzene		10	U	10	U	10	U	10	U
Isophorone		10	U	10	U	10	U	10	U
2-Nitrophenol		10	U	10	U	10	U	10	U
2,4-Dimethylphenol		10	U	10	U	10	U	10	U
Benzoic acid		50	U	50	U	50	U	50	U
bis(2-Chloroethoxy)methane		10	U	10	U	10	U	10	U
2,4-Dichlorophenol		10	U	10	U	10	U	10	U
1,2,4-Trichlorobenzene		10	U	10	U	10	U	45	%
Naphthalene		10	U	10	U	10	U	10	U
4-Chloroaniline		10	U	10	U	10	U	10	U
Hexachlorobutadiene		10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol		10	U	10	U	10	U	91	%
2-Methylnaphthalene		10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene		10	U	10	U	10	U	10	U

*= Outside of EPA CLP QC limits.

9213425.1129

Cust ID:	BO6ZR9		BO6PT2		SBLK		SBLK BS	
RFW#:	013		016		92LE1121-MB1		92LE1121-MB1	
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	50	U	50	U	50	U	50	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U
2-Nitroaniline	50	U	50	U	50	U	50	U
Dimethylphthalate	10	U	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U
3-Nitroaniline	50	U	50	U	50	U	50	U
Acenaphthene	10	U	10	U	10	U	80	%
2,4-Dinitrophenol	50	U	50	U	50	U	50	U
4-Nitrophenol	50	U	50	U	50	U	112 *	%
Dibenzofuran	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	118 *	%
Diethylphthalate	1	J	2	J	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U
4-Nitroaniline	50	U	50	U	50	U	50	U
4,6-Dinitro-2-methylphenol	50	U	50	U	50	U	50	U
N-Nitrosodiphenylamine (1)	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U
Pentachlorophenol	50	U	50	U	50	U	57	%
Phenanthrene	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U
Di-n-Butylphthalate	4	JB	2	JB	2	J	7	JB
Fluoranthene	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	128 *	%
Butylbenzylphthalate	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	20	U	20	U	20	U	20	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	26	B	17	B	19		18	B
Di-n-Octyl phthalate	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U

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

9613425.1130

9613425.1131

000017

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLE(S) RECEIVED:** 07-16-92
RFW #: 9207L036, SEMIVOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of six (6) water samples collected on 07-13,14-92.

The samples were extracted on 07-20-92 and analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Semivolatile target compounds on 08-11,12,13-92.

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

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

2. All surrogate recoveries were within EPA QC limits.

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

4. Three (3) of eleven (11) blank spike recoveries were outside EPA QC limits.

5. The laboratory blank 92LE1121-MB1 contained the common contaminants Di-n-butylphthalate and Bis(2-ethylhexyl)phthalate at levels less than 2X the CRQL.

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

09.10.92

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

Date

kls/07-036b.cn

9613425.1132

1B 000036

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B06Q53

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-001

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081124

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

9613425.1133

1C 000037

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B06Q53

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-001

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081124

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	3	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	B
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

9613425.1134 1F 000038

CLIENT SAMPLE NO.

B06Q53

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-001

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081124

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.00	5	JB
2.	ETHOXYETHOXYETHANOL	9.62	9	JB
3.	UNKNOWN	22.09	20	JB
4.	ADIPATE	23.92	6	JB
5.	UNKNOWN	25.00	6	J
6.	UNKNOWN	27.66	30	JB

9613425.1135

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000051

CLIENT SAMPLE NO.

B06Q71

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-004

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081208

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

9613425.1136

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000052

CLIENT SAMPLE NO.

B06Q71

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-004

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081208

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	2	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	13	B
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

9613425.1137

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000053

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B06Q71

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-004

Sample wt/vol: 990 (g/mL) ML

Lab File ID: A081208

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/12/92

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

Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.99	8	JB
2.	CYCLOHEXENONE	8.52	5	J
3.	ETHOXYETHOXYETHANOL	9.64	200	JB
4.	UNKNOWN	22.08	50	JB
5.	UNKNOWN	27.63	10	JB

9613425.1138 000065

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BO6ZQ4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-007

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081209

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

9613425.1139

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000066

CLIENT SAMPLE NO.

BO6ZQ4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-007

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081209

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	2	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	B
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

9613425.1140

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000067

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BO6ZQ4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-007

Sample wt/vol: 990 (g/mL) ML

Lab File ID: A081209

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/12/92

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

Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.98	5	JB
2.	ETHOXYETHOXYETHANOL	9.61	60	JB
3.	UNKNOWN	22.13	30	JB
4.	ADIPATE	23.91	4	JB
5.	UNKNOWN	27.63	10	JB

9613425.1141

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000079

CLIENT SAMPLE NO.

B06ZR6

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-010

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081210

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

BO6ZR6

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-010

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081210

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	1	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	2	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	15	B
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

9613425.1143

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0 A P 0 0 8 1

CLIENT SAMPLE NO.

B06ZR6

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-010

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081210

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.98	8	JB
2.	CYCLOHEXENONE	8.52	4	J
3.	ETHOXYETHOXYETHANOL	9.63	4	JB
4.	UNKNOWN	22.14	20	JB
5.	ADIPATE	23.90	5	JB
6.	UNKNOWN	27.62	20	JB

9613425.1144

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 00 0095

CLIENT SAMPLE NO.

BO6ZR9

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-013

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081211

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

9613425.1145

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0 0 0 9 6

CLIENT SAMPLE NO.

BO6ZR9

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-013

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081211

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	1	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	4	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	26	B
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

9613425.1146

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0 0 0 0 0 9 7

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B06ZR9

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-013

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081211

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/12/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.98	4	JB
2.	BUTOXYETHANOL	7.77	6	J
3.	METHOXYETHOXYETHANOL	8.36	6	J
4.	UNKNOWN	9.00	5	J
5.	UNKNOWN	9.21	20	J
6.	ETHOXYETHOXYETHANOL	9.66	300	JB
7.	METHYL PYRROLIDINONE	10.43	5	J
8.	UNKNOWN	14.28	7	J
9.	UNKNOWN	15.12	5	J
10.	UNKNOWN	22.10	10	JB
11.	UNKNOWN	22.27	8	J
12.	ADIPATE	23.91	8	JB
13.	UNKNOWN	27.63	40	JB

9613425.1147

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000119

CLIENT SAMPLE NO.

BO6PT2

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-016

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081225

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/13/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

9613425.1148

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

9 9 0 1 2 0

CLIENT SAMPLE NO.

BO6PT2

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-016

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081225

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/13/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	2	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	17	B
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

9613425.1149

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0 0 0 1 2 1

CLIENT SAMPLE NO.

BO6PT2

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9207L036-016

Sample wt/vol: 990 (g/mL) ML Lab File ID: A081225

Level: (low/med) LOW Date Received: 07/16/92

% Moisture: not dec. _____ dec. Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 08/13/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.98	5	JB
2.	OXYBIS-ETHANOL	8.86	4	J
3.	ETHOXYETHOXYETHANOL	9.60	7	JB
4.	ALKYLPHENOL	17.33	6	J
5.	UNKNOWN	18.39	10	J
6.	UNKNOWN	20.25	6	J
7.	UNKNOWN	21.98	80	J
8.	UNKNOWN	22.08	6	J
9.	UNKNOWN	22.16	9	JB
10.	UNKNOWN	22.32	6	J
11.	UNKNOWN	22.50	30	J
12.	UNKNOWN	22.60	4	J
13.	UNKNOWN	23.63	4	J
14.	UNKNOWN	23.77	7	J
15.	UNKNOWN	23.85	5	J
16.	ADIPATE	23.91	5	JB
17.	UNKNOWN	23.96	4	J
18.	UNKNOWN	24.11	20	J
19.	UNKNOWN	24.17	20	J
20.	UNKNOWN	25.78	9	J
21.	UNKNOWN	25.87	5	J
22.	UNKNOWN	27.64	20	JB
23.	UNKNOWN	37.63	100	J

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

RFW Batch Number: 9207L036 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 08/31/92 14:03 Page: 1

	Cust ID:	B06Q53	B06Q53	B06Q53	B06Q71	B06ZQ4	B06ZR6
Sample Information	RFW#:	001	001 MS	001 MSD	004	007	010
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	2.00	2.00	1.00	1.00	1.00
	Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Surrogate: Di-n-butylchlorendate		74 %	72 %	81 %	86 %	91 %	106 %
		fl	fl	fl	fl	fl	fl
Alpha-BHC		0.050 U	0.20 U	0.20 U	0.050 U	0.050 U	0.050 U
Beta-BHC		0.050 U	0.20 U	0.20 U	0.050 U	0.050 U	0.050 U
Delta-BHC		0.050 U	0.20 U	0.20 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)		0.050 U	60 %	55 * %	0.050 U	0.050 U	0.050 U
Heptachlor		0.050 U	I %	120 %	0.050 U	0.050 U	0.050 U
Aldrin		0.050 U	60 %	55 %	0.050 U	0.050 U	0.050 U
Heptachlor epoxide		0.050 U	0.20 U	0.20 U	0.050 U	0.050 U	0.050 U
Endosulfan I		0.050 U	0.20 U	0.20 U	0.050 U	0.050 U	0.050 U
Dieldrin		0.10 U	62 %	62 %	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.10 U	0.40 U	0.40 U	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	72 %	72 %	0.10 U	0.10 U	0.10 U
Endosulfan II		0.10 U	0.40 U	0.40 U	0.10 U	0.10 U	0.10 U
4,4'-DDD		0.10 U	0.40 U	0.40 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate		0.10 U	0.40 U	0.40 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	58 %	56 %	0.10 U	0.10 U	0.10 U
Methoxychlor		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
Endrin ketone		0.10 U	0.40 U	0.40 U	0.10 U	0.10 U	0.10 U
alpha-Chlordane		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
gamma-Chlordane		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
Toxaphene		1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1016		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
Aroclor-1221		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
Aroclor-1232		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
Aroclor-1242		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
Aroclor-1248		0.50 U	2.0 U	2.0 U	0.50 U	0.50 U	0.50 U
Aroclor-1254		1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Aroclor-1260		1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 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

0006012
0911342.1150
96/3425

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

RFW Batch Number: 9207L036 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 08/31/92 14:03 Page: 2

	Cust ID:	BO6ZR9		BO6PT2		PBLK		PBLK BS		PBLK BSD	
Sample Information	RFW#:	013		016		92LE1128-MB1		92LE1128-MB1		92LE1128-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.00		1.00		1.00		2.00		2.00	
	Units:	ug/L		ug/L		ug/L		ug/L		ug/L	
Surrogate: Di-n-butylchlorendate		89	%	73	%	96	%	76	%	93	%
Alpha-BHC		0.050	U	0.050	U	0.050	U	0.10	U	0.10	U
Beta-BHC		0.050	U	0.050	U	0.050	U	0.10	U	0.10	U
Delta-BHC		0.050	U	0.050	U	0.050	U	0.10	U	0.10	U
gamma-BHC (Lindane)		0.050	U	0.050	U	0.050	U	60	%	65	%
Heptachlor		0.050	U	0.050	U	0.050	U	I	%	I	%
Aldrin		0.050	U	0.050	U	0.050	U	55	%	60	%
Heptachlor epoxide		0.050	U	0.050	U	0.050	U	0.10	U	0.10	U
Endosulfan I		0.050	U	0.050	U	0.050	U	0.10	U	0.10	U
Dieldrin		0.10	U	0.10	U	0.10	U	56	%	74	%
4,4'-DDE		0.10	U	0.10	U	0.10	U	0.20	U	0.20	U
Endrin		0.10	U	0.10	U	0.10	U	70	%	74	%
Endosulfan II		0.10	U	0.10	U	0.10	U	0.20	U	0.20	U
4,4'-DDD		0.10	U	0.10	U	0.10	U	0.20	U	0.20	U
Endosulfan sulfate		0.10	U	0.10	U	0.10	U	0.20	U	0.20	U
4,4'-DDT		0.10	U	0.10	U	0.10	U	66	%	72	%
Methoxychlor		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
Endrin ketone		0.10	U	0.10	U	0.10	U	0.20	U	0.20	U
alpha-Chlordane		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
gamma-Chlordane		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
Toxaphene		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U
Aroclor-1016		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
Aroclor-1221		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
Aroclor-1232		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
Aroclor-1242		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
Aroclor-1248		0.50	U	0.50	U	0.50	U	1.0	U	1.0	U
Aroclor-1254		1.0	U	1.0	U	1.0	U	2.0	U	2.0	U
Aroclor-1260		1.0	U	1.0	U	1.0	U	2.0	U	2.0	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

000013
9613425.1151

9613425.1152

14A

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLE(S) RECEIVED:** 07-16-92
RFW #: 9207L036, PEST/PCB
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of six (6) water samples collected on 07-13,14-92.

The samples were extracted on 07-20-92 and analyzed according to criteria set forth in the Contract Laboratory Program for Pesticide and PCB target compounds on 08-14,15,16-92.

A modification to the Contract Laboratory Program 02/88 was initiated to include surrogate requirements from Method SW 846. Tetrachloro-m-xylene (TCX) is an early eluting compound which is an additional surrogate added to sample extracts and will be reported when there is an interference with Di-n-butylchlorendate (DBC).

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

1. Linearity and breakdown criteria were met on the primary column.

2. Continuing calibration criteria were exceeded for the target compounds Alpha-BHC and Gamma-BHC prior to sample extracts in a standard analyzed on 08-15-92 at 0526 on the primary column. Column maintenance was performed enabling all compounds to be within the 15%/20% continuing calibration criteria and analysis was continued.

3. Retention time criteria were met for all compounds on both the primary and confirmation columns.

4. All surrogate recoveries were within EPA QC limits.

5. One (1) of eleven (11) obtainable matrix spike recoveries was outside EPA QC limits. The matrix spike recovery for Gamma-BHC (55%) was outside the EPA QC limit of 56%.

WESTON
MANAGERS DESIGNERS CONSULTANTS

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

7. The blank spike and matrix spike samples required two-fold dilutions to maintain the pesticide concentrations within the linear range of the instrument.

09.21.92

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

Date

sma/pcb/07-036pp.cn

9613425.1154

1D

PESTICIDE ORGANICS ANALYSIS SHEET 000022

CLIENT SAMPLE NO.

B06Q53

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 08149203.24

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/15/92

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9613425.1155

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PESTICIDE ORGANICS ANALYSIS SHEET 000027

CLIENT SAMPLE NO.

B06Q71

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-004

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 08149203.37

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/15/92

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9613425.1156

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PESTICIDE ORGANICS ANALYSIS SHEET 000032

CLIENT SAMPLE NO.

BO6ZQ4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-007

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 08149203.38

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/15/92

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9613425.1157

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PESTICIDE ORGANICS ANALYSIS SHEET 000037

CLIENT SAMPLE NO.

BO6ZR6

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-010

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 08169203.15

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/16/92

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9613425.1158

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PESTICIDE ORGANICS ANALYSIS SHEET 000042

CLIENT SAMPLE NO.

BO6ZR9

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-013

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 08149203.40

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/15/92

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9613425.1159

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PESTICIDE ORGANICS ANALYSIS SHEET 000047

CLIENT SAMPLE NO.

BO6PT2

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9207L036-016

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 08149203.41

Level: (low/med) LOW

Date Received: 07/16/92

% Moisture: not dec. _____ dec.

Date Extracted: 07/20/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 08/15/92

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

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

9613425.1160

0000001

RECORD COPY

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLE(S) RECEIVED:** 07-16-92
RFW #: 9207L036
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. Sample holding times as required by 40CFR136 were met with the exception of Total Organic Halides.

2. All preparation blank results were below the required detection limit.

3. All laboratory control standards (blank spikes) were within the control limits of 80-120% (70-130% for Total Organic Halides). All %RPD were within the 20% (40% for Total Organic Halides) guidance limit.

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

5. Matrix spike recoveries are summarized on the Inorganic Accuracy Report contained within this document. All applicable recoveries were within the 75-125% (70-130% for Total Organic Halides) guidance limits. All %RPD were within the 20% guidance limit.

6. Replicate results are summarized on the Inorganic Precision Report contained within this document. All results were within the 20% (40% for Total Organic Halides) RPD guidance limit.

7. 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).

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

09.24.92
Date

SEP 1992
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pas/i07-036

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/18/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-001	B06Q53	Alkalinity	150	MG/L	2.0
		Chloride by IC	26.9	MG/L	5.0
		Fluoride by IC	3.1	MG/L	0.50
		Nitrite by IC	0.25 u	MG/L	0.25
		Nitrate by IC	169	MG/L	5.0
		Chemical Oxygen Demand	5.0 u	MG/L	5.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	58.7	MG/L	5.0
		Ammonia, as N	0.10 u	MG/L	0.10
		Total Organic Carbon	2.3	MG/L	0.50
		Total Dissolved Solids	547	MG/L	5.0
		Total Organic Halides	1410	UG/L	20.0
		Total Suspended Solids	8.0	MG/L	5.0
-004	B06Q71	Alkalinity	100	MG/L	2.0
		Chloride by IC	24.7	MG/L	5.0
		Fluoride by IC	0.50 u	MG/L	0.50
		Nitrite by IC	0.25 u	MG/L	0.25
		Nitrate by IC	23.6	MG/L	5.0
		Chemical Oxygen Demand	5.0 u	MG/L	5.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	34.7	MG/L	5.0
		Ammonia, as N	0.10 u	MG/L	0.10
		Total Organic Carbon	0.62	MG/L	0.50
		Total Dissolved Solids	259	MG/L	5.0
		Total Organic Halides	407	UG/L	5.0
		Total Suspended Solids	7.0	MG/L	5.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/18/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-007	BO6ZQ4	Alkalinity	140	MG/L	2.0
		Chloride by IC	27.0	MG/L	5.0
		Fluoride by IC	3.1	MG/L	0.50
		Nitrite by IC	0.25 u	MG/L	0.25
		Nitrate by IC	171	MG/L	5.0
		Chemical Oxygen Demand	5.0 u	MG/L	5.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	59.2	MG/L	5.0
		Ammonia, as N	0.10 u	MG/L	0.10
		Total Organic Carbon	0.72	MG/L	0.50
		Total Dissolved Solids	547	MG/L	5.0
		Total Organic Halides	279	UG/L	5.0
		Total Suspended Solids	5.0 u	MG/L	5.0
-010	BO6ZR6	Alkalinity	0.50 u	MG/L	0.50
		Chloride by IC	0.25 u	MG/L	0.25
		Fluoride by IC	0.50 u	MG/L	0.50
		Nitrite by IC	0.25 u	MG/L	0.25
		Nitrate by IC	0.25 u	MG/L	0.25
		Chemical Oxygen Demand	5.0 u	MG/L	5.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	0.25 u	MG/L	0.25
		Ammonia, as N	0.10 u	MG/L	0.10
		Total Organic Carbon	0.50 u	MG/L	0.50
		Total Dissolved Solids	9.0	MG/L	5.0
		Total Organic Halides	5.0 u	UG/L	5.0
		Total Suspended Solids	6.0	MG/L	5.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/18/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-013	BO6ZR9	Alkalinity	0.50 u	MG/L	0.50
		Chloride by IC	0.25 u	MG/L	0.25
		Fluoride by IC	0.50 u	MG/L	0.50
		Nitrite by IC	0.25 u	MG/L	0.25
		Nitrate by IC	0.25 u	MG/L	0.25
		Chemical Oxygen Demand	5.0 u	MG/L	5.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	0.25 u	MG/L	0.25
		Ammonia, as N	0.10 u	MG/L	0.10
		Total Organic Carbon	0.50 u	MG/L	0.50
		Total Dissolved Solids	9.0	MG/L	5.0
		Total Organic Halides	6.0	UG/L	5.0
		Total Suspended Solids	5.0 u	MG/L	5.0
-016	BO6PT2	Alkalinity	0.50 u	MG/L	0.50
		Chloride by IC	0.25 u	MG/L	0.25
		Fluoride by IC	0.50 u	MG/L	0.50
		Nitrite by IC	0.25 u	MG/L	0.25
		Nitrate by IC	0.25 u	MG/L	0.25
		Chemical Oxygen Demand	5.0 u	MG/L	5.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	0.25 u	MG/L	0.25
		Ammonia, as N	0.10 u	MG/L	0.10
		Total Organic Carbon	0.50 u	MG/L	0.50
		Total Dissolved Solids	9.0	MG/L	5.0
		Total Organic Halides	9.1	UG/L	5.0
		Total Suspended Solids	5.0 u	MG/L	5.0

Roy F. Weston, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD CO. **SAMPLES RECEIVED:** 07/16/92
RFW #: 9207L036
W.O. #: 6168-02-01

METALS NARRATIVE

The set of samples consisted of twelve (12) water samples collected on 07/13 and 07/14/92.

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.

7. All duplicate analyses were within the 20% RPD control limits with the exceptions of mercury and zinc. All exceptions are flagged with a "*" on the CLP forms.

8. Selenium sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with a "S" according to CLP protocol.

9. For MSA, results reported on Form 8 are calculated from absorbance values. Results reported on other forms are based on concentration. As indicated in the SOWILM01.0, page B-32, differences due to rounding may be found between the MSA values on Form 8 and the results reported on the other forms.

WESTON
MANAGERS DESIGNERS/CONSULTANTS

10. The code CV is currently in use by the laboratory for both mercury instruments in operation (HG1 and HG2). HG1 is complete with autosampler and software, but still requires manual digestion; HG2 is operated by the analyst, produces a strip chart and also requires manual digestion.

11. HG1 requires less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionally scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 ml. For soils, 0.1 gram of sample is taken to a final volume of 50 ml (including all reagents).

12. Quarterly Detection Limits, ICP Interelement Correction Factors and ICP Linear Ranges for IC3 are included in this package, but do not appear on EDD.

13. The graphite furnace time that appears on form XIV is the time of the first injection. The time that appears on the data is the print time.

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

09.17.92
Date

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	B06Q53	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	20000		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	47.1		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	237		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5940		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	140000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	30.0	u	UG/L	30.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	50.0	u	UG/L	50.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	67.8		UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	B06Q54	Silver, Soluble	10.0	u	UG/L	10.0
		Aluminum, Soluble	200	u	UG/L	200
		Arsenic, Soluble	10.0	u	UG/L	10.0
		Barium, Soluble	200	u	UG/L	200
		Beryllium, Soluble	5.0	u	UG/L	5.0
		Calcium, Soluble	19800		UG/L	5000
		Cadmium, Soluble	5.0	u	UG/L	5.0
		Cobalt, Soluble	50.0	u	UG/L	50.0
		Chromium, Soluble	41.8		UG/L	10.0
		Copper, Soluble	25.0	u	UG/L	25.0
		Iron, Soluble	100	u	UG/L	100
		Mercury, Soluble	0.20	u	UG/L	0.20
		Potassium, Soluble	5000	u	UG/L	5000
		Magnesium, Soluble	5920		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	138000		UG/L	5000
		Nickel, Soluble	40.0	u	UG/L	40.0
		Lead, Soluble	3.0	u	UG/L	3.0
		Antimony, Soluble	60.0	u	UG/L	60.0
		Selenium, Soluble	5.0	u	UG/L	5.0
		Thallium, Soluble	10.0	u	UG/L	10.0
		Vanadium, Soluble	51.0		UG/L	50.0
		Zinc, Soluble	20.0	u	UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-004	B06Q71	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	36500		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	11700		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	24100		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	64.3		UG/L	50.0
		Zinc, Total	22.8		UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-005	BO6Q72	Silver, Soluble	10.0	u	UG/L	10.0
		Aluminum, Soluble	200	u	UG/L	200
		Arsenic, Soluble	10.0	u	UG/L	10.0
		Barium, Soluble	200	u	UG/L	200
		Beryllium, Soluble	5.0	u	UG/L	5.0
		Calcium, Soluble	33700		UG/L	5000
		Cadmium, Soluble	5.0	u	UG/L	5.0
		Cobalt, Soluble	50.0	u	UG/L	50.0
		Chromium, Soluble	10.0	u	UG/L	10.0
		Copper, Soluble	25.0	u	UG/L	25.0
		Iron, Soluble	100	u	UG/L	100
		Mercury, Soluble	0.20	u	UG/L	0.20
		Potassium, Soluble	5000	u	UG/L	5000
		Magnesium, Soluble	11000		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	22200		UG/L	5000
		Nickel, Soluble	40.0	u	UG/L	40.0
		Lead, Soluble	3.0	u	UG/L	3.0
		Antimony, Soluble	60.0	u	UG/L	60.0
		Selenium, Soluble	5.0	u	UG/L	5.0
		Thallium, Soluble	10.0	u	UG/L	10.0
		Vanadium, Soluble	50.0	u	UG/L	50.0
		Zinc, Soluble	20.0	u	UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-007	BO6ZQ4	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.1		UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	20900		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	49.1		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	168		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	6210		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	144000		UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	78.4		UG/L	50.0
		Zinc, Total	33.4		UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-008	BO6ZQ5	Silver, Soluble	10.0	u	UG/L	10.0
		Aluminum, Soluble	200	u	UG/L	200
		Arsenic, Soluble	10.0	u	UG/L	10.0
		Barium, Soluble	200	u	UG/L	200
		Beryllium, Soluble	5.0	u	UG/L	5.0
		Calcium, Soluble	19600		UG/L	5000
		Cadmium, Soluble	5.0	u	UG/L	5.0
		Cobalt, Soluble	50.0	u	UG/L	50.0
		Chromium, Soluble	42.2		UG/L	10.0
		Copper, Soluble	25.0	u	UG/L	25.0
		Iron, Soluble	100	u	UG/L	100
		Mercury, Soluble	0.20	u	UG/L	0.20
		Potassium, Soluble	5000	u	UG/L	5000
		Magnesium, Soluble	5860		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	133000		UG/L	5000
		Nickel, Soluble	40.0	u	UG/L	40.0
		Lead, Soluble	3.0	u	UG/L	3.0
		Antimony, Soluble	60.0	u	UG/L	60.0
		Selenium, Soluble	50.0	u	UG/L	50.0
		Thallium, Soluble	10.0	u	UG/L	10.0
		Vanadium, Soluble	58.4		UG/L	50.0
		Zinc, Soluble	20.0	u	UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-010	BO6ZR6	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	27.2		UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	BO6ZR7	Silver, Soluble	10.0	u	UG/L	10.0
		Aluminum, Soluble	200	u	UG/L	200
		Arsenic, Soluble	10.0	u	UG/L	10.0
		Barium, Soluble	200	u	UG/L	200
		Beryllium, Soluble	5.0	u	UG/L	5.0
		Calcium, Soluble	5000	u	UG/L	5000
		Cadmium, Soluble	5.0	u	UG/L	5.0
		Cobalt, Soluble	50.0	u	UG/L	50.0
		Chromium, Soluble	10.0	u	UG/L	10.0
		Copper, Soluble	25.0	u	UG/L	25.0
		Iron, Soluble	100	u	UG/L	100
		Mercury, Soluble	0.20	u	UG/L	0.20
		Potassium, Soluble	5000	u	UG/L	5000
		Magnesium, Soluble	5000	u	UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	5000	u	UG/L	5000
		Nickel, Soluble	40.0	u	UG/L	40.0
		Lead, Soluble	3.0	u	UG/L	3.0
		Antimony, Soluble	60.0	u	UG/L	60.0
		Selenium, Soluble	5.0	u	UG/L	5.0
		Thallium, Soluble	10.0	u	UG/L	10.0
		Vanadium, Soluble	50.0	u	UG/L	50.0
		Zinc, Soluble	20.0	u	UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-013	BO6ZR9	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	299		UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-014	B06ZS0	Silver, Soluble	10.0	u	UG/L	10.0
		Aluminum, Soluble	200	u	UG/L	200
		Arsenic, Soluble	10.0	u	UG/L	10.0
		Barium, Soluble	200	u	UG/L	200
		Beryllium, Soluble	5.0	u	UG/L	5.0
		Calcium, Soluble	5000	u	UG/L	5000
		Cadmium, Soluble	5.0	u	UG/L	5.0
		Cobalt, Soluble	50.0	u	UG/L	50.0
		Chromium, Soluble	10.0	u	UG/L	10.0
		Copper, Soluble	25.0	u	UG/L	25.0
		Iron, Soluble	100	u	UG/L	100
		Mercury, Soluble	0.20	u	UG/L	0.20
		Potassium, Soluble	5000	u	UG/L	5000
		Magnesium, Soluble	5000	u	UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	5000	u	UG/L	5000
		Nickel, Soluble	40.0	u	UG/L	40.0
		Lead, Soluble	3.0	u	UG/L	3.0
		Antimony, Soluble	60.0	u	UG/L	60.0
		Selenium, Soluble	5.0	u	UG/L	5.0
		Thallium, Soluble	10.0	u	UG/L	10.0
		Vanadium, Soluble	50.0	u	UG/L	50.0
		Zinc, Soluble	20.0	u	UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-016	BO6PT2	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.4		UG/L	20.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9207L036

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-017	BO6PT3	Silver, Soluble	10.0	u	UG/L	10.0
		Aluminum, Soluble	200	u	UG/L	200
		Arsenic, Soluble	10.0	u	UG/L	10.0
		Barium, Soluble	200	u	UG/L	200
		Beryllium, Soluble	5.0	u	UG/L	5.0
		Calcium, Soluble	5000	u	UG/L	5000
		Cadmium, Soluble	5.0	u	UG/L	5.0
		Cobalt, Soluble	50.0	u	UG/L	50.0
		Chromium, Soluble	10.0	u	UG/L	10.0
		Copper, Soluble	25.0	u	UG/L	25.0
		Iron, Soluble	100	u	UG/L	100
		Mercury, Soluble	2.2		UG/L	0.20
		Potassium, Soluble	5000	u	UG/L	5000
		Magnesium, Soluble	5000	u	UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	5000	u	UG/L	5000
		Nickel, Soluble	40.0	u	UG/L	40.0
		Lead, Soluble	3.0	u	UG/L	3.0
		Antimony, Soluble	60.0	u	UG/L	60.0
		Selenium, Soluble	5.0	u	UG/L	5.0
		Thallium, Soluble	10.0	u	UG/L	10.0
		Vanadium, Soluble	50.0	u	UG/L	50.0
		Zinc, Soluble	50.2		UG/L	20.0

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U.S. EPA - CLP 0000043

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B06Q53

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703601

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	8.90	B	W	F
7440-39-3	Barium	27.30	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	20000.00		E	P
7440-47-3	Chromium	47.10			P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	237.00			P
7439-92-1	Lead	20.00	U	W	F
7439-95-4	Magnesium	5940.00		E	P
7439-96-5	Manganese	6.60	B		P
7439-97-6	Mercury	.18	B	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	1620.00	B		P
7782-49-2	Selenium	20.00	U	W	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	140000.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	67.80			P
7440-66-6	Zinc	7.20	B	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1179

U.S. EPA - CLP 000044

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO6Q54

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703602

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	5.80	B		F
7440-39-3	Barium	27.80	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	19800.00		E	P
7440-47-3	Chromium	41.80			P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	5920.00		E	P
7439-96-5	Manganese	2.20	B		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	2490.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	138000.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	51.00			P
7440-66-6	Zinc	6.00	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1180

U.S. EPA CLP 000045

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B06Q71

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703604

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	3.30	B	W	F
7440-39-3	Barium	32.90	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	36500.00		E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	29.60	B		P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	11700.00		E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	3910.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	24100.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	64.30			P
7440-66-6	Zinc	22.80		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1181

U.S. EPA - CLP 000046

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B06Q72

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703605

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	2.60	B		F
7440-39-3	Barium	32.30	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	33700.00		E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	11000.00		E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	3860.00	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	22200.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	37.00	B		P
7440-66-6	Zinc	6.00	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1182

U.S. EPA CLP 000047

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO6ZQ4

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703607

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	10.10			F
7440-39-3	Barium	27.30	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	20900.00		E	P
7440-47-3	Chromium	49.10			P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	168.00			P
7439-92-1	Lead	2.80	B	W	F
7439-95-4	Magnesium	6210.00		E	P
7439-96-5	Manganese	4.00	B		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	1780.00	B		P
7782-49-2	Selenium	2.00	U	S	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	144000.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	78.40			P
7440-66-6	Zinc	33.40		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1183

U.S. EPA CLP 0048

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B06ZQ5

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703608

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	6.30	B		F
7440-39-3	Barium	34.70	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	19600.00		E	P
7440-47-3	Chromium	42.20			P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	5860.00		E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	2890.00	B		P
7782-49-2	Selenium	20.00	U		F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	133000.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	58.40			P
7440-66-6	Zinc	6.00	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1184

U.S. EPA CLP 00049

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO6ZR6

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703610

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	2.00	U	W	F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.10	B		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	29.30	B	E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.50	B		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	214.00	B	E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	970.00	U		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	294.00	B	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	32.30	B		P
7440-66-6	Zinc	27.20		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1185

U.S. EPA 000050

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO6ZR7

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703611

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	2.00	U	W	F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	14.00	U	E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	121.00	B	E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	970.00	U		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	212.00	B	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	14.90	B		P
7440-66-6	Zinc	6.00	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1186

U.S. EPA - CLP 000051

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B06ZR9

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703613

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	53.30	B	E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	21.30	B		P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	256.00	B	E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	970.00	U		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	299.00	B	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	36.00	B		P
7440-66-6	Zinc	299.00		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1187

U.S. EPA 0 0 0 0 5 2

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B06ZS0

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703614

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	14.00	U	E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	40.20	B	E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	970.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	87.00	B	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	6.50	B		P
7440-66-6	Zinc	6.00	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1188

U.S. EPA CLP 00053

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B06PT2

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703616

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	14.00	U	E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U	W	F
7439-95-4	Magnesium	222.00	B	E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U	*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	970.00	U		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	7.80	B		P
7440-23-5	Sodium	266.00	B	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	34.10	B		P
7440-66-6	Zinc	20.40		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9613425.1189

U.S. EPA CLP 000054

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BO6PT3

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP036

Matrix (soil/water): WATER Lab Sample ID: 920703617

Level (low/med): LOW Date Received: 7/16/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.00	U		P
7440-36-0	Antimony	44.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	U		P
7440-70-2	Calcium	14.00	U	E	P
7440-47-3	Chromium	8.00	U		P
7440-48-4	Cobalt	6.00	U		P
7440-50-8	Copper	5.00	U		P
7439-89-6	Iron	19.00	U		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	50.20	B	E	P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	2.23		*	CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	970.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	6.00	U		P
7440-23-5	Sodium	123.00	B	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	6.40	B		P
7440-66-6	Zinc	50.20		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: