WESTON Analytics Use Only
9201L079

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 2

Client: Westinghouse Hanford
Est. Final Proj. Sampling Date:
Work Order #: 61168-02-01
Project Contact/Phone #: Q King
AD Project Manager:
QC: CLP Del: CLP TAT: 35 day
Date Rec'd: 1/21/92 Date Due: 2/25/92
Account #: WS Hanford

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb	Radio Chem			Metal	CN	TOC	Anions	TDS Alk pH		F, H metals
Refrigerator #											500									
#/Type Container Liquid							3/4				1/P			1/P	1/P	1/G	1/P	1/P		1/P
#/Type Container Solid											1/GB									
Volume Liquid							40				1/P 1/GB			1/P	1/P	950	1/P	1/P		1/P
Volume Solid																				
Preservatives							none							none	NaOH	none		none		HNO3
ANALYSES REQUESTED							ORGANIC							INORG						
WESTON Analytics Use Only							062448				2SCB			see below	ICNO TO	IDCT NO3 see below	IDTS IALK IPH			see below
001	B01R32			W	1/18/92						✓			✓	✓	✓	✓	✓		
2	33				↓															✓
3	17				1/17/92						✓			✓	✓	✓	✓	✓		
4	18				↓															✓
5	B5				↓		✓													
6	42				1/18/92		✓				✓			✓	✓	✓	✓	✓		
7	43				↓															✓
8	34				1/18/92						✓			✓	✓	✓	✓	✓		
9	35				↓															✓
10	30				1/18/92						✓			✓	✓	✓	✓	✓		

MATRIX: Soil, Sediment, Solid, Sludge, Water, Drum Solids, Drum Liquids, TCLP Extract, Oil, Other

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions: Metals = HSL + BI, SL
Radiochem = Gross alpha, Beta, TC-99, SR90, CS-137, CO-60, PU238, PU239/240, Total Uranium, Iodium
Original rewritten

DATE/REVISIONS:
1. Anion = ICCL, ICFL, ICSO4, ICPO4,
2. ICNO2, ICNO3
3. Pu in mins/mins
4. Task 92-124
1/30/92 5. Radio chem subbed to Teledyne
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't (Y) or N

Discrepancies Between Samples Labels and COC Record? (Y) or N
NOTES: Weston co says TCE at in plastic - actually in glass
Cond pH, Anions out

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Emery	P Hugin	1/21/92	12:30		P 1/21/92		
	P 1/21/92						

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

START

9201L079-WES-2904

00440088

JAN 29 1996

WESTON Analytics Use Only

92014079

Custody Transfer Record/Lab Work Request

WESTON

Page 2 of 2

Client: Westinghouse Hanford

Est. Final Proj. Sampling Date:

Work Order #:

Project Contact/Phone #: See Page 1

AD Project Manager:

QC: DQI: TAT:

Date Rec'd: Date Due:

Account #:

Refrigerator #:

#/Type Container: Liquid / Solid

Volume: Liquid / Solid

Preservatives:

ANALYSES REQUESTED →

ORGANIC: VOA, BNA, Pest/PCB, Herb

INORG: Metal, CN, F.H. Metals

See Page 1

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	WESTON Analytics Use Only: VOA	BNA	Pest/PCB	Herb				Metal	CN	F.H. Metals			
011	B01R31			W	1/18/92											✓			
12	↓ B14			↓	↓		✓												

WESTON Analytics Use Only: VOA 2414

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

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

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received In Good Condition Y or N
4) 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

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

Relinquished by	Received by	Date	Time
Emery	P. Gregg	1/21/92	1:25pm
	P. Gregg	1/21/92	

Relinquished by	Received by	Date	Time
	P. Gregg	1/21/92	

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

9201 1 1 0076

00000003

9613441.0987 0000004 9201L079

Westinghouse Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200-BP-1

Collection Date 1/18/92

Ice Chest No. SML-108

Field Logbook No. WHC-N-4461

Bill of Lading/Airbill No. 2509865413

Offsite Property No. W92-0-0166-13

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Sample Identification

B01R30

1, 1L, P, WATER, CLP-CN, NaOH
1, 1L, aG, WATER, TOC, NO2/NO3,(H2SO4)
1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (UNFILTERED)
1, 1L, P, WATER, ANIONS(IC)(F,Cl,SO4,NO2,NO3,PO4), TDS, ALK, pH
3, 4L, P, WATER, GROSS ALPHA/BETA, Tc-99, Sr-90, Cs-137, Co-60, Pu-238, Pu-239/240, HNO3
1, 1L, P, WATER, TOTAL URANIUM, HCl
1, 250ml, G, WATER, TRITIUM

B01R31

1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (FILTERED)

B01R34 [illegible]

[] Field Transfer of Custody

Chain of Possession (Sign and Print Names)		
Relinquished by: [illegible]	Received by: PHButcher PHButcher	Date/Time: 1/20/92 0715 1/18/92
Relinquished by: PHButcher PHButcher	Received by:	Date/Time:
Relinquished by: Emery	Received by: [illegible]	Date/Time: 1/21/92 12 50
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

9613441.0988 0000005 9201L079

Westinghouse Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200-BP-1

Collection Date 1/18/92

Ice Chest No. SAL-113

Field Logbook No. WHG-N-494

Bill of Lading/Airbill No. 2509865413

Offsite Property No. W92-0-0166-13

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Sample Identification

B01R34

1, 1L, P, WATER, CLP-CN, NaOH
1, 1L, aG, WATER, TOC, NO2/NO3,(H2SO4)
1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (UNFILTERED)
1, 1L, P, WATER, ANIONS(IC)(F,Cl,SO4,NO2,NO3,PO4), TDS, ALK, pH
3, 4L, P, WATER, GROSS ALPHA/BETA, Tc-99, Sr-90, Cs-137, Co-60, Pu-238, Pu-239/240, HNO3
1, 1L, P, WATER, TOTAL URANIUM, HCl
1, 250ml, G, WATER, TRITIUM

B01R35

1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (FILTERED)

[] Field Transfer of Custody

Chain of Possession		(Sign and Print Names)
Relinquished by: [illegible]	Received by: PHButcher PHButcher	Date/Time: 1/20/92 0711
Relinquished by: PHButcher PHButcher	Received by:	Date/Time:
Relinquished by: Emery	Received by: PHButcher	Date/Time: 1/21/92 12:50 PM
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

9613441.0989 0000006 9201L07

Westinghouse Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200-BP-1

Collection Date 1/18/92

Ice Chest No. SML-109

Field Logbook No. WHC-N-4961

Bill of Lading/Airbill No. 2509865413

Offsite Property No. W92-0-0106-12

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Sample Identification

B01R42

1, 1L, P, WATER, CLP-CN, NaOH
1, 1L, aG, WATER, TOC, NO2/NO3,(H2SO4)
1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (UNFILTERED)
1, 1L, P, WATER, ANIONS(IC)(F,Cl,SO4,NO2,NO3,PO4), TDS, ALK, pH
3, 4L, P, WATER, GROSS ALPHA/BETA, Tc-99, Sr-90, Cs-137, Co-60, Pu-238, Pu-239/240, HNO3
1, 1L, P, WATER, TOTAL URANIUM, HCl
1, 250ml, G, WATER, TRITIUM

B01R43

1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (FILTERED)

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

Relinquished by:	Received by:	Date/Time:
[illegible]	PHButcher PHButcher	1/20/92 0715 1/18/92
Relinquished by: PHButcher PHButcher	Received by:	Date/Time:
Relinquished by: Emery	Received by: [illegible]	Date/Time: 1/21/92 12:50 PM
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

9613441.0990 000007 9201C5

Westinghouse Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200-BP-1

Collection Date 1-17-92

Ice Chest No. SML-107

Field Logbook No. WHG-N-385 #11

Bill of Lading/Airbill No. 2509865413

Offsite Property No. W92-D-0166-12

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Sample Identification

B01R17

1, 1L, P, WATER, CLP-CN, NaOH
1, 1L, aG, WATER, TOC, NO2/NO3,(H2SO4)
1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (UNFILTERED)
1, 1L, P, WATER, ANIONS(IC)(F,Cl,SO4,NO2,NO3,PO4), TDS, ALK, pH
3, 4L, P, WATER, GROSS ALPHA/BETA, Tc-99, Sr-90, Cs-137, Co-60, Pu-238, Pu-239/240, HNO3
1, 1L, P, WATER, TOTAL URANIUM, HCl
1, 250ml, G, WATER, TRITIUM

B01R18

1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (FILTERED)

B01RB5

3, 40ml, aG, Water, CLP-VOA

[] Field Transfer of Custody

Chain of Possession (Sign and Print Names)		
Relinquished by: L.D. Walker L.D. Walker	Received by: P.H. Butcher P.H. Butcher	Date/Time: 1/20/92 0215
Relinquished by: P.H. Butcher P.H. Butcher	Received by:	Date/Time:
Relinquished by: Emery	Received by: P. Keegan	Date/Time: 1/21/92 12:30 PM
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

9613441.0991 0000008 920KG

Westinghouse Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200-BP-1

Collection Date 1/18/92

Ice Chest No. Austin

Field Logbook No. WHCRN-4461

Bill of Lading/Airbill No. 2509865413

Offsite Property No. W92-B-0166-14

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks N/A

Sample Identification

B01R32

1, 1L, P, WATER, CLP-CN, NaOH
1, 1L, aG, WATER, TOC, NO2/NO3,(H2SO4)
1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (UNFILTERED)
1, 1L, P, WATER, ANIONS(IC)(F,Cl,SO4,NO2,NO3,PO4), TDS, ALK, pH
3, 4L, P, WATER, GROSS ALPHA/BETA, Tc-99, Sr-90, Cs-137, Co-60, Pu-238, Pu-239/240, HNO3
1, 1L, P, WATER, TOTAL URANIUM, HCl
1, 250ml, G, WATER, TRITIUM

B01R33

1, 1L, P, WATER, CLP-METAL, Bi/Si, HNO3 (FILTERED)

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

Relinquished by:	Received by:	Date/Time:
[illegible]	PH Butcher PH Butcher	1/18/92 1/20/92 07
PH Butcher PH Butcher		
Emery	[illegible]	1/21/92 12:30 PM

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

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

FORM OF PAYMENT

Check ☐ CBL ☐ FCCOD ☐ 92014079

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

Shipper's Account Number: E 850281585

EMERY WORLDWIDE

A CF Company

SERVICES

UNITED STATES / CANADA: Same Day ☐ AM ☒ PM ☐ Second Day ☐ Saturday Delivery ☐

INTERNATIONAL: Express ☐ Preferred ☐ Standard ☐ Business Documents ☐ Customs Clearance ☐ Delivery ☐

Date: 01-20-92 Origin: PSC Shipment Number: 250986541 3

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

To:
PEG BEATY
RF WESTON INC
208 WELSH POOL ROAD
LIONVILLE PA
Hold for Pick Up ☐
Canada ☐

Tariff Dest. Gateway

Check to Shipper $

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

Customer's Reference Numbers: W80250 PEICA W92-0-0166#12 #13 & #14
Zip: 99352

E Consignee's Account Number
Zip: 19341-1313

Description	Dimensions L W H	Total Pieces	Total Weight (in lbs)
5 COOLER ID: SML 107 88#; SML 109 86#; SML 108 87#; SML 113 87#; & AUSTIN61 5 WATER SAMPLES		5	409

Remarks: ~~W92-0-0166 #12 #13 #14~~
OVERNIGHT DELIVERY
SIGNATURE SECURITY SERVIC

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 $

Pick up 1/21/92 12 PM

250986541 3

Shipper's Signature X W. Neely 1-20-92

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

Base Charge

Total Transportation Charges

Other Charges/Advance at Origin: ☐ OC/AO $

3PHL A

Terms and Conditions on Back

9613441.0992

000000

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

RFW Batch Number: 9201L079 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 02/11/92 13:02 Page: 1a

	Cust ID:	B01RB5		B01RB5		B01RB5		B01RB4		VBLK		VBLK	
Sample Information	RFW#:	005		005 MS		005 MSD		012		92LVY010-MB1		92LVY012-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	99	%	94	%	94	%	101	%	103	%	96	%
	Bromofluorobenzene	99	%	97	%	102	%	98	%	101	%	98	%
	1,2-Dichloroethane-d4	93	%	90	%	85	%	88	%	102	%	88	%
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		3	JB	15	B	17	B	2	JB	1	J	4	J
Acetone		8	J	6	JB	6	JB	10	U	10	U	12	
Carbon Disulfide		5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		5	U	100	%	95	%	5	U	5	U	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	3	J	4	J	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	111	%	103	%	5	U	5	U	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	91	%	84	%	5	U	5	U	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.

961344.0993 000611

Cust ID:	B01RB5		B01RB5		B01RB5		B01RB4		VBLK		VBLK	
RFW#:	005		005 MS		005 MSD		012		92LVY010-MB1		92LVY012-MB1	
Toluene	5	U	99	%	96	%	5	U	5	U	5	U
Chlorobenzene	5	U	104	%	103	%	5	U	5	U	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.

9613441.0994 000012

WESTON

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 01-21-92
RFW #: 9201L079, GC/MS VOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of two (2) water samples collected on 01-17,18-92.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Volatile target compounds on 01-26,27,30-92.

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. All surrogate recoveries were within EPA QC limits.

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

4. The laboratory blanks contained the common contaminant methylene chloride at levels less than the CRQL. The laboratory blank 92LVY012-MB1 also contained the common contaminant acetone at a level less than 2X the CRQL.

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

2.24.92.

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

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B01RB5

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L079-005

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

Lab File ID: Y012610

Level: (low/med) LOW

Date Received: 01/21/92

% Moisture: not dec. _____

Date Analyzed: 01/27/92

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	8	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

CLIENT SAMPLE NO.

BO1RB5

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: 9201L079-005

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

Lab File ID: Y012610

Level: (low/med) LOW

Date Received: 01/21/92

% Moisture: not dec. _____

Date Analyzed: 01/27/92

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.				

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VOLATILE ORGANICS ANALYSIS SHEET

0000036

CLIENT SAMPLE NO.

B01RB4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L079-012

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

Lab File ID: Y012611

Level: (low/med) LOW

Date Received: 01/21/92

% Moisture: not dec. _____

Date Analyzed: 01/27/92

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	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

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B01RB4

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L079-012

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

Lab File ID: Y012611

Level: (low/med) LOW

Date Received: 01/21/92

% Moisture: not dec. ____

Date Analyzed: 01/27/92

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.				

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ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD
RFW #: 9201L079
W.O. #: 6168-02-01

SAMPLES RECEIVED: 01-21-92

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 nitrate by IC, nitrite by IC, phosphate by IC and pH which were received past hold.

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%. All %RPD were within the 20% 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 recoveries were within the 75-125% 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% 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).

2.24.92

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

Date

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/19/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-001	B01R32	Alkalinity	100	MG/L	2.0
		Chloride by IC	5.0	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	16.5	MG/L	0.25
		Cyanide, Total	20.0 u	UG/L	20.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	20.4	MG/L	2.5
		Nitrate Nitrite	4.0	MG-N/L	1.0
		Total Organic Carbon	0.75	MG/L	0.50
		pH	7.6	PH UNITS	0.010
		Total Dissolved Solids	353	MG/L	5.0
-003	B01R17	Alkalinity	106	MG/L	2.0
		Chloride by IC	21.3	MG/L	2.5
		Fluoride by IC	0.50 u	MG/L	0.50
		Nitrite by IC	0.25 u	MG/L	0.25
		Nitrate by IC	23.1	MG/L	2.5
		Cyanide, Total	14.9	UG/L	10.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	94.3	MG/L	2.5
		Nitrate Nitrite	5.5	MG-N/L	1.0
		Total Organic Carbon	0.50 u	MG/L	0.50
		pH	7.6	PH UNITS	0.010
		Total Dissolved Solids	32.0	MG/L	5.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/19/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-006	BO1R42	Alkalinity	93.0	MG/L	2.0
		Chloride by IC	13.4	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	8.8	MG/L	0.25
		Cyanide, Total	10.0 u	UG/L	10.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	30.7	MG/L	2.5
		Nitrate Nitrite	2.3	MG-N/L	0.40
		Total Organic Carbon	0.50 u	MG/L	0.50
		pH	7.8	PH UNITS	0.010
		Total Dissolved Solids	233	MG/L	5.0
-008	BO1R34	Alkalinity	104	MG/L	2.0
		Chloride by IC	7.7	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	56.7	MG/L	2.5
		Cyanide, Total	10.0 u	UG/L	10.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	39.9	MG/L	2.5
		Nitrate Nitrite	13.0	MG-N/L	2.5
		Total Organic Carbon	0.50 u	MG/L	0.50
		pH	7.8	PH UNITS	0.010
		Total Dissolved Solids	305	MG/L	5.0

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/19/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-010	B01R30	Alkalinity	104	MG/L	2.0
		Chloride by IC	7.4	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	62.9	MG/L	2.5
		Cyanide, Total	12.8	UG/L	10.0
		Phosphate by IC	0.25 u	MG/L	0.25
		Sulfate by IC	40.4	MG/L	2.5
		Nitrate Nitrite	14.0	MG-N/L	2.5
		Total Organic Carbon	0.50 u	MG/L	0.50
		pH	7.8	PH UNITS	0.010
		Total Dissolved Solids	308	MG/L	5.0

✓ 8/16/95 M.H.

Roy F. Weston, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 01/21/92
RFW #: 9201L079
W.O. #: 6168-02-01

METALS NARRATIVE

The set of samples consisted of ten (10) water sample collected on 01/18/92.

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 with the exception of silver (91L0415-LC1 and LC2). Weston has established a policy to redigest and reanalyze silver where laboratory control standards fall below 40%.

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

7. All duplicate analyses were within the 20% RPD control limit.

8. Selenium sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "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 SOW1LJM01.0, 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.

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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 for IC3 are included in this package.

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

3.02.92.
Date

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ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9201L079

WORK ORDER: 6168-02-01-0000

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	BO1R32	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
		Bismuth, Total	150	u	UG/L	150
		Calcium, Total	29500		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	54.8		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	320		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5790		UG/L	5000
		Magnesium, Total	8810		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	14400		UG/L	5000
		Nickel, Total	51.8		UG/L	40.0
		Lead, Total	3.3		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Silicon, Total	13800		UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	22.2		UG/L	20.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	B01R33	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
		Bismuth, Soluble	150	u	UG/L	150
		Calcium, Soluble	28100		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	5790		UG/L	5000
		Magnesium, Soluble	8350		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	13500		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
		Silicon, Soluble	13200		UG/L	100
		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 02/28/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-003	B01R17	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
		Bismuth, Total	150	u	UG/L	150
		Calcium, Total	48600		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	7860		UG/L	5000
		Magnesium, Total	13800		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	3.9		UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	10.0	u	UG/L	10.0
		Silicon, Total	15000		UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	44.7		UG/L	20.0

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ROY F. WESTON-INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9201L079

WORK ORDER: 6168-02-01-0000

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-004	B01R18	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
		Bismuth, Soluble	150	u	UG/L	150
		Calcium, Soluble	48100		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	7520		UG/L	5000
		Magnesium, Soluble	13600		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	23500		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
		Silicon, Soluble	14800		UG/L	100
		Thallium, Soluble	10.0	u	UG/L	10.0
		Vanadium, Soluble	50.0	u	UG/L	50.0
		Zinc, Soluble	85.9		UG/L	20.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	B01R42	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
		Bismuth, Total	150	u	UG/L	150
		Calcium, Total	27100		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	31.9		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	152		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	6050		UG/L	5000
		Magnesium, Total	8550		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	20200		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
		Silicon, Total	14100		UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-007	B01R43	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
		Bismuth, Soluble	150	u	UG/L	150
		Calcium, Soluble	26900		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	5880		UG/L	5000
		Magnesium, Soluble	8540		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	20300		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
		Silicon, Soluble	14100		UG/L	100
		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 02/28/92

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9201L079

WORK ORDER: 6168-02-01-0000

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-008	B01R34	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
		Bismuth, Total	150	u	UG/L	150
		Calcium, Total	38000		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	227		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	1450		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	6060		UG/L	5000
		Magnesium, Total	11400		UG/L	5000
		Manganese, Total	39.3		UG/L	15.0
		Sodium, Total	21800		UG/L	5000
		Nickel, Total	118		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
		Silicon, Total	13600		UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	32.9		UG/L	20.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-009	B01R35	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
		Bismuth, Soluble	150	u	UG/L	150
		Calcium, Soluble	35700		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	5760		UG/L	5000
		Magnesium, Soluble	10900		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	21000		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
		Silicon, Soluble	12900		UG/L	100
		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

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

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

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-010	B01R30	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
		Bismuth, Total	150	u	UG/L	150
		Calcium, Total	38600		UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	21.7		UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	104		UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5880		UG/L	5000
		Magnesium, Total	11400		UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	22000		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
		Silicon, Total	13600		UG/L	100
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

9613441.1015 0055517

ROY F. WESTON·INC.

INORGANIC DATA SUMMARY REPORT 02/28/92

CLIENT: WESTINGHOUSE HANFORD

WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9201L079

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-011	B01R31	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
		Bismuth, Soluble	150	u	UG/L	150
		Calcium, Soluble	40900		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	6450		UG/L	5000
		Magnesium, Soluble	12000		UG/L	5000
		Manganese, Soluble	15.0	u	UG/L	15.0
		Sodium, Soluble	23200		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
		Silicon, Soluble	14300		UG/L	100
		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

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R32

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107901

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	7.30	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	29500.00		E	P
7440-47-3	Chromium	54.80			P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	7.40	B		P
7439-89-6	Iron	320.00			P
7439-92-1	Lead	3.30		NW	F
7439-95-4	Magnesium	8810.00			P
7439-96-5	Manganese	9.80	B		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	51.80			P
7440-09-7	Potassium	5790.00			P
7782-49-2	Selenium	2.00	U	WN	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	14400.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	24.50	B		P
7440-66-6	Zinc	22.20			P
	Cyanide	10.00	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R33

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107902

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	7.30	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	28100.00		E	P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	2.00	U	NW	F
7439-95-4	Magnesium	8350.00			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	5790.00			P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	13500.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	24.50	B		P
7440-66-6	Zinc	6.40	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R17

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107903

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	6.80	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	48600.00		E	P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	3.90		NW	F
7439-95-4	Magnesium	13800.00			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	7860.00			P
7782-49-2	Selenium	3.30	B	NS	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	24100.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	30.60	B		P
7440-66-6	Zinc	44.70			P
	Cyanide	14.90			C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R18

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107904

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	6.50	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	48100.00		E	P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	2.00	U	NW	F
7439-95-4	Magnesium	13600.00			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	7520.00			P
7782-49-2	Selenium	4.60	B	NS	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	23500.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	31.60	B		P
7440-66-6	Zinc	85.90			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R42

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107906

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	6.90	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	27100.00		E	P
7440-47-3	Chromium	31.90			P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	152.00			P
7439-92-1	Lead	2.00	U	NW	F
7439-95-4	Magnesium	8550.00			P
7439-96-5	Manganese	4.30	B		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	6050.00			P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	20200.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	24.40	B		P
7440-66-6	Zinc	15.80	B		P
	Cyanide	10.00	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R43

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107907

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	6.70	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	26900.00		E	P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	2.00	U	N	F
7439-95-4	Magnesium	8540.00			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	5880.00			P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	20300.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	23.20	B		P
7440-66-6	Zinc	7.70	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R34

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107908

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	8.50	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	38000.00		E	P
7440-47-3	Chromium	227.00			P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	14.90	B		P
7439-89-6	Iron	1450.00			P
7439-92-1	Lead	2.00	U	N	F
7439-95-4	Magnesium	11400.00			P
7439-96-5	Manganese	39.30			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	118.00			P
7440-09-7	Potassium	6060.00			P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	21800.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	26.60	B		P
7440-66-6	Zinc	32.90			P
	Cyanide	10.00	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

B01R35

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107909

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	8.00	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	35700.00		E	P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	2.00	U	N	F
7439-95-4	Magnesium	10900.00			P
7439-96-5	Manganese	4.90	B		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	5760.00			P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	21000.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	21.10	B		P
7440-66-6	Zinc	4.00	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

BO1R30

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107910

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	8.50	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	38600.00		E	P
7440-47-3	Chromium	21.70			P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	104.00			P
7439-92-1	Lead	2.00	U	N	F
7439-95-4	Magnesium	11400.00			P
7439-96-5	Manganese	2.40	B		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	5880.00			P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	22000.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	23.20	B		P
7440-66-6	Zinc	4.00	U		P
	Cyanide	12.80	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B01R31

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

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP079

Matrix (soil/water): WATER Lab Sample ID: 920107911

Level (low/med): LOW Date Received: 1/21/92

% 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	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	8.90	B	N	F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	40900.00		E	P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	2.00	U	N	F
7439-95-4	Magnesium	12000.00			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	6450.00			P
7782-49-2	Selenium	2.00	U	NW	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	23200.00			P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	25.00	B		P
7440-66-6	Zinc	4.00	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: