

START

9613403.0040

0043068

9208L584-WES-747 1/2

RECORD COPY

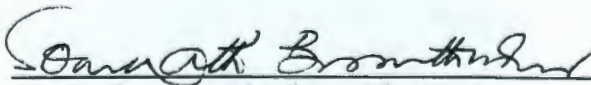
ROY F. WESTON, INC.
Lionville LaboratoryCLIENT: WESTINGHOUSE HANFORD
RFW #: 9208L584
W.O. #: 6168-02-01

SAMPLE(S) RECEIVED: 08-26-92

INORGANIC NARRATIVE

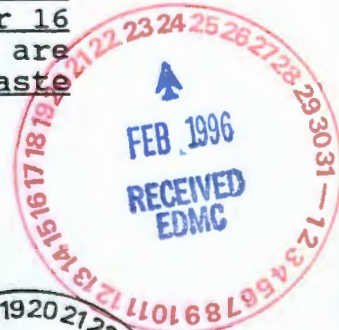
The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met.
2. All preparation blank results were below the required detection limit.
3. All calibration verification checks were within the required control limits of 90-110%. Calibration verification is performed using independent standards.
4. Matrix spike recoveries are summarized on the Inorganic Accuracy Report contained within this document. All recoveries were within the 75-125% guidance limits. All %RPD were within the 20% guidance limit.
5. Replicate results are summarized on the Inorganic Precision Report contained within this document. All results were within the 20% RPD guidance limit.
6. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020) and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).


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

09.08.92
Date

pas/i08-584



9613403.0041

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/04/92

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

WESTON BATCH #: 9208L584

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
=====	=====	=====	=====	=====	=====
-001	B01900	% Solids	96.0	%	0.10
		Chromium VI	0.10 u	MG/KG	0.10

92084.58'

Custody Transfer Record/Lab Work Request

[illegible]

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

Run ① ms/msD

Project # 100-IV-41

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 ☒ or N

4) Labels Indicate
Properly Preserved
☒ or N

5) Received Within
Holding Time ☒ or N

COC Tape was:

1) Present on Outer
Package ☒ or N

2) Unbroken on Outer
Package ☒ or N

3) Present on Sample
☒ or N

4) Unbroken on
Sample ☒ or N

COC Record Present
Upon Sample Rec'd ☒ or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Enriquez	Kevin Shaffer	8/26/12	1250				
	Des	8/27/12				8/27/12	

Discrepancies Between
Samples Labels and
COC Record? Y or **N**

2025.06

5/

FORM OF PAYMENT

Check ☐Bill to Shipper ☒FCCOD ☐Bill to Shipper ☒Bill to Consignee ☐

E 8 0281585

EMERY
WORLDWIDE

SERVICES

UNITED STATES / CANADA

☐ Same Day☒ AM☐ Second Day☐☐ PM☐ Saturday Delivery

INTERNATIONAL

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

Date

08-25-92

Origin

PSC

Shipment Number

250987008 8

From:

WESTINGHOUSE SHIPPING DEPT (509) 946-6445
U.S. DEPARTMENT OF ENERGY
WESTINGHOUSE HANFORD

To:

JOSIE KING

Tariff Dest.

Gateway

BLDG 1163
2355 STEVENS DRIVE

208 WELSH POOL ROAD

Hold for Pick Up ☐Canada ☐

RICHLAND

WA

LIONVILLE

PA

Customer's Reference Numbers

W81225 P3C18 W92-0-0577 #37

99353

E

Consignee's Account Number

19341

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

Description

15 ICE CHEST RM#8
OIL SAMPLES

Dimensions

1

Total Pieces

1

Total Weight

25

FOR INFORMATION OR RATES
CALL 1-800-41-EMERY
1-800-41-3637

Declared Value

\$

Remarks

OVERNIGHT DELIVERY

Zip Ship ☐Mark if Emery
Packaging is usedFor 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

Urgent Letter

9X12 ☐

Urgent Pack

12X15 ☐

Shipper's Signature

Additional Shippers

Commodity Code

From Domicile ☐Third Party
Account Number
mandatory for
Third Party Billing

E

Third Party Account Number

International Customs Value

International Insurance

Base Charge

Total Transportation Charges

Other Charges/Advance of Costs

OC/AQ ☐

6.00

2509870088



3-PHL-A

Terms and Conditions on Back

16

9613403.0043

Westinghouse Hanford
Company

9613403.0044

CHAIN OF CUSTODY

92082584

Study Form Initiator C.E. Heiden

Company Contact C.E. Heiden

Telephone 376-7640

Subject Designation/Sampling Locations Selenium Dichromate

Collection Date 8/24/92

Barrel ERA Site 100-14-4

Chest No. RM # 8

Field Logbook No. EFL-1027

Bill of Lading/Airbill No. 250987008 8

Offsite Property No. WRA-0-0577 # 37

Method of Shipment Emery

Shipped to Weston Lab

Visible Sample Hazards/Remarks —

Sample Identification

BC19CC - (7) 250 ml Seal

Field Transfer of Custody

CHAIN OF POSSESSION

(Sign and Print Names)

Relinquished by: C.E. Heiden

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments:

$$9208 \overline{) 584}$$


PART I: FIELD SECTION

Date Sampled 8/24/92 Time hours

Telephone (509) 376-2440

A-6000-406 (05/90)

Westinghouse Hanford
Company

9613403.0046

CHAIN OF CUSTODY
0000004

92082584

Custody Form Initiator C.E. Heiden

Company Contact C.E. Heiden

Telephone 376-7640

Object Designation/Sampling Locations Sodium Dichromate
Barrel ERA Site 100-IV-4

Collection Date 8/24/92

Chest No. RM # 8

Field Logbook No. EFL-1027

Label of Lading/Airbill No. 250987008 8

Offsite Property No. WQA-0-0577 # 37

Method of Shipment Emery

Shipped to Weston Lab

Possible Sample Hazards/Remarks —

Sample Identification

BO1900 - (7) 250 ml Seal

Field Transfer of Custody

CHAIN OF POSSESSION

(Sign and Print Names)

Relinquished by: C.E. Heiden

Received by:

Date/Time:

C.E. Heiden

Relinquished by:

Received by:

Date/Time:

Emery

John H. H. H.

13:50 8/20/92

Relinquished by: 1

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments:



Roy F. Weston, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD CO.

SAMPLES RECEIVED: 08/26/92

RFW #: 9208L584

W.O. #: 6168-02-01

METALS NARRATIVE

One (1) soil sample was collected on 08/24/92.

The sample and its associated QC 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 limit.
8. Quarterly Detection Limits, ICP Interelement Correction Factors and ICP Linear Ranges for IC3 are included in this package, but do not appear on EDD.

Seamuth Brumfield

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

09.17.92

Date

9613403.0048

0000010

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 09/15/92

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

WESTON BATCH #: 9208L584

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
=====	=====	=====	=====	=====	=====
-001	B01900	Chromium, Total	12.9	MG/KG	2.1

9613403.0049

0000017

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

B01900

Lab Name: Roy F. Weston, Inc.

Contract: 6168-02-01

Lab Code: WESTON

Case No: WEST

SAS No.:

SDG No.: CLP584

Matrix (soil/water): SOIL

Lab Sample ID: 9208584001

Level (low/med): LOW

Date Received: 08/26/92

% Solids: 96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	12.90			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: BROWN

Clarity Before:

Texture: FINE

Color After: BROWN

Clarity After:

Artifacts:

Comments: