



**ROY F. WESTON, INC.**  
**LIONVILLE ANALYTICAL LABORATORY**  
**ANALYTICAL CASE NARRATIVE**

\*\* REVISION \*\*

**Client:** WESTINGHOUSE HANFORD  
**RFW #:** 9310L363

**W.O. #:** 06168-002-001-9999-00  
**Date Received:** 10-21-93

**GC SCAN**

One (1) soil sample was collected on 10-13-93.

The sample and its associated QC samples were extracted on 10-25-93 and analyzed by WESTON OP 21-16-8015.2 for Diesel Range Petroleum Hydrocarbons on 10-29,30-93.

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

1. This narrative has been revised to reflect method of analysis.
2. All surrogate recoveries were within laboratory control limits.
3. All blank spike recoveries were within laboratory control limits.
4. All matrix spike recoveries were within laboratory control limits.
5. The multi-level Diesel Fuel standards provided calibration data with a correlation coefficient of at least 0.996.
6. Seven (7) to ten (10) hydrocarbon peaks were used to quantitate Diesel Fuel in standards, samples, and spikes.
7. Continuing calibration criteria (15%) were met for all continuing standards analyzed prior to the sample extracts.

*J. Peter Hershey*

J. Peter Hershey, Ph.D.  
 Laboratory Manager  
 Lionville Analytical Laboratory

02.02.94  
 Date

NOV 1996  
9661 ALON

**DON'T SAY IT --- Write It!**

DATE: February 25, 1994

TO: 9310L363-WES-629

FROM: Pat Reich

H4-19

Telephone: 372-2785

cc:

SUBJECT: DATA VALIDATION FOR THE 100-IU-1, RIVERLAND ERA SAMPLING PROJECT

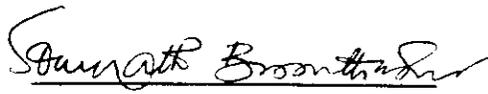
THE VALIDATION REPORT FOR THIS DATA PACKAGE IS FILED IN B08NP7-TMA-559.

PAT REICH



ADDENDUM

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  Name: SOUM N. BASUTHA WIR  
Date: 11.10.03 Title: UNIT-LEADER



Westinghouse  
Hanford  
Company

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

005213

Collector **M.L. MYERS/L. GUERRA** Company Contact **C.E. HEIDEN**

Telephone **376-2640**

SAF No. **93-181**

Project Designation **Operable Unit - 100-IU-1**

Sampling Location **RIVERLAND**

Ice Chest No. **WHC 054**

Bill of Lading/Airbill No. **997 332 626**

Offsite Property No.

Method of Shipment **AIR OVERNIGHT**

Field Logbook No. **WHC-N-205-26**

Shipped to **ROY F. WESTON . LIONVILLE, PA**

Possible Sample Hazards/Remarks **UNKNOWN, SUBJECT TO ANALYSIS/PRIORITY TURNAROUND REQUESTED/CERCLA PROTOCOL**

Special Handling and/or Storage **Shipped on WET ICE. KEEP AT 4 DEGREES C**

00003

Sample Number	*	Date Collected	Time	Number and Type of Containers	Analysis Required	Preservative
BOSNS	<del>185</del>	10-13-93	12:54	1, Gs 125ML	TPH-DIESEL RANGE, METHOD 8015H	N/A
<del>Signature</del>						

<b>Chain of Possession</b>		<b>(Sign and Print Names)</b>		<b>PRIORITY TURNAROUND, Temp = 5.30°</b>	<b>* Matrix</b> SE = Sediment SL = Sludge SO = Solid DL = Drum Liquids DS = Drum Solids L = Liquid O = Oil S = Soil T = Tissue W = Water WI = Wipe X = Other
Ret Inquished By <i>L. GUERRA</i>	Date/Time <i>10-18-93</i>	Received By <i>Burlington Air</i>	Date/Time		
Ret Inquished By <i>Burlington Air</i>	Date/Time	Received By <i>B. Burnett</i>	Date/Time <i>10-21-93 15:00</i>		
Ret Inquished By	Date/Time	Received By	Date/Time		
<b>LABORATORY SECTION</b>	Received By	Title		Date/Time	
<b>Final Sample Disposition</b>	Disposal Method:	Disposed by:		Date/Time:	

Riverland ERA  
SAF # 93-181

DON'T SAY IT -- Write It!

DATE: April 22, 1993 93-33530-052

TO: J. E. Lindsey

SO-05

FROM: K. A. Smith

*181*

NI-06

cc: R. H. Griffin S4-67  
R. E. Heineman R3-12  
J. W. Schmidt H6-30  
P. J. Valcich H6-04  
C. D. Wade NI-06  
KAS: File/LB

Post-It™ brand fax transmittal memo 7671		* of pages *	
To	<i>CIND</i>	From	<i>Laura</i>
Co.		Co.	
Dept.		Phone #	
Fax #	<i>3-3193</i>	Fax #	

SUBJECT: FACILITIES/AREAS EXEMPT FROM RADIOLOGICAL RELEASE SURVEY

Add the following areas/ facilities to the approved exempt facility/area list:

FACILITY/ AREA

NAMES AND LOCATIONS: The 100-IU-1 Operable Unit and all waste sites contained within. Includes; Riverland Rail Yard Homestead Sites, Munition Cache, anti-aircraft artillery sites, and Military Exercise Sites. The Operable Unit is located south of the Vernita Bridge and west of Highway 240.

BASIS: With the exception of the Riverland Rail Site, the area has no history of work with radioactive materials within it's boundaries. The Rail Site was remediated in the 1960s and follow-up surveys with conventional instrumentation and USRADS show no areas containing elevated radiological levels. Core samples taken at the wash pad area were analyzed and found to contain less than 20 pCi/gram of total radioactive material. The site is located up-stream of the prevailing winds from the direction of Hanford operations and wind-blown contamination is not likely to be present.

REFERENCES: Radiation Survey Report numbers 127760, 127663, 128144, 145977.

CONTACT: If there are any questions concerning this exemption please contact C. D. Wade (6-3770) or K. A. Smith at 6-3323.

APPROVED: *[Signature]*

RECEIVED  
JUN 28 1993

*EXEMPT*

Supplemental information to  
SAF/FSR 93-181 0004

**AIR OVERNIGHT**

Contractor <b>WESTINGHOUSE HANFORD</b>	<b>OFF-SITE PROPERTY CONTROL</b>	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT) <b>1094-0-0009 #21</b>
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**PART I - TO BE COMPLETED BY ORIGINATOR**

Department <b>Processing &amp; Analytical Lab</b>	Section	Unit <b>Sampling &amp; Mobile Lab</b>
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The following items are to be shipped from  Contractor  Vendor

Routing **BURLINGTON AIR EXPRESS**  Contractor  Vendor

Shipped to <b>ROY F. WESTON, INC. 256 Welsh Pool Road Lionville PA 19341-1313</b>	Off-site Custodian <b>Josie King</b>
	Full Title

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	<b>POLYCOOLER. SAMPLES PACKED IN PLASTIC BAGS AND STORED ON WET ICE</b>  <b>SAMPLE #B08NSS</b>  <b>WEIGHT COOLER # W.H.C. 056</b>	

- Classified  Unclassified  Shipped Under DOE Contract  Shipped Under Contractor's Use Permit Contract

**Necessity for the Off-Site Use of this Property**

Samples require analysis that are not presently available at this site.

SAF #93-121  
COC #5213

BILL OF LADING **987 332 525**

**CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.**

RM Clearance for Public Release <b>NA</b>	RM Survey No	Date
Location of Property (Area & Bldg) <b>200 WEST / 202-S</b>	Contact <b>C. D. Hayes</b>	Phone <b>373-2891</b>
Date Ready for Shipment <b>10/20/93</b>	Cost Code to be Charged <b>PB62P / Org Code: 12911</b>	Approximate Date This Property will be Returned <b>N/A</b>
Originated by <b>LA Guerra</b>	Date <b>10/20/93</b>	Authorized By <b>RA Meznarich</b>
Signature and Name of Property Control	Custodian Date	Property Management Approval <b>10/20/93</b>

**PART II - TO BE COMPLETED BY SHIPPING**

Signature of Recipient <i>[Signature]</i>	<input checked="" type="checkbox"/> Return Order No	Date Issued	Purchase Order No	Date issued
Date				

**DISTRIBUTION**

<b>By Originator</b> White, Green, Yellow, Pink - Property Management Goldenrod - Retain	<b>Shipping Operation - Sign all Copies and Forward to:</b> White - Property Management Yellow - Retain Green - Property Control (Custodian Issuing Office) Pink - Originator
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001 001

CORPORATE SUPPORT GROUP  
18200 MON KARMAN AVE  
IRVINE, CA 92715

997 332 626

C.O.D.

ORIGIN	DEST. ST.
7-20-92	
SHIPPER'S REFERENCE NO.	
12911 PB52F 494-00098	
COMPANY	
HANFORD CO	
ESTINGHOUSE SHIPPING I	
STREET ADDRESS	

CONSIGNEE'S REFERENCE NO.	CONSIGNEE'S ACCOUNT NO.
2	
AIRBILL NUMBER	
997 332 626	
COMPANY	DEPT./FLOOR
DE WESTON INC	
TO (CONSIGNEE NAME)	PHONE NO.
DE WESTON INC	
ACCURATE STREET ADDRESS (BURLINGTON CANNOT DELIVER TO A P.O. BOX)	
355 WEST 5400 ROAD	
CITY	STATE   ZIP (REQUIRED)
TOWNE	PA   10341

CONSIGNEE'S CHECK
DECLARED VAL
\$
LIMIT OF LIABILITY
LIABILITY IS AGREED AND UND
TO BE \$500 OR \$50 PER
WHICHEVER IS GREATER UN
HIGHER VALUE IS DECLARED AN
CABLE CHARGES PAID SET
SIDE OF AIRBILL PARAGRAPH
DECLARED VALUE LIMITATIONS
1-800-CALL-B
FOR INFORMATION OF
BAX OFFICE NEAREST

<b>BILLING INFORMATION</b>	
<input type="checkbox"/> PREPAID	SHIPPER'S RECEIVED PAID
<input checked="" type="checkbox"/> SHIPPER'S	
<input type="checkbox"/> COLLECT	
<input type="checkbox"/> (CONSIGNEE)	
<input type="checkbox"/> 3RD PARTY (ACCT. NO. OR BILLING ADDRESS REQUIRED)	
QUANT NO.	
COMPANY/NAME	
STREET ADDRESS	
STATE   ZIP	

<b>5 SERVICE REQUESTED</b>
<input checked="" type="checkbox"/> OVERNIGHT (1-2 BUSINESS DAYS)
<input type="checkbox"/> SECOND DAY
<input type="checkbox"/> NEXT FLIGHT OUT
<input type="checkbox"/>
CHECK BELOW IF PACKAGE IS:
<input type="checkbox"/> LETTER
<input type="checkbox"/> G.O.H. (GARMENT ON HANGER)

<b>6 HANDLING INFORMATION (* SPECIAL RATE MAY APPLY)</b>					
<input type="checkbox"/> HOLD AT BAX	<input type="checkbox"/> *DANGEROUS GOODS	<input type="checkbox"/> *SATURDAY DELIVERY	<input type="checkbox"/> *SPECIAL DELIVERY	<input type="checkbox"/> *CONVENTION	<input type="checkbox"/> *GOVERNMENT SHIPMENT
SPECIAL INSTRUCTIONS / ADDITIONAL REFERENCE INFORMATION					

NO. OF PCS	WEIGHT	LENGTH	WIDTH	HEIGHT	DESCRIPTION
1	34				COOLER ID: WMC 056 SAMPLES
TOTAL PCS	TOTAL WT.	SKID(S) SAID TO CONTAIN			
1	34				

RATE QUOTE NUMBER	RECEIVED BY BAX AT	<input type="checkbox"/> SHIPPER'S DOOR	<input type="checkbox"/> BAX TERMINAL	OUTSIDE CARRIER CHARGES ADVANCED
	TIME/DATE OF PICK-UP	DRIVER NO.		\$
	SIGNED FOR BAX	X		PRO NUMBER
				CARRIER NAME

SIGNATURE OF SHIPPER
X
RELEASE SIGNATURE
X

997 332 626

AIRBILL NUMBER

014792

TERMS AND CONDITIONS OF CONTRACT WILL BE FURNISHED UPON REQUEST

CONSIGNEE COP

0006

	Cust ID:	B08NS8	B08NS8	B08NS8	BLK	BLK BS	
Sample	RFW#:	001	001 MS	001 MSD	93LE1891-MB1	93LE1891-MB1	∞
Information	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	0
	D.F.:	1.00	1.00	1.00	1.00	1.00	0
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	0
	p-Terphenyl	146 %	140 %	145 %	132 %	139 %	
	Diesel	4.23 U	74 %	86 %	4.00 U	79 %	

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

