

613471.1794

0045065

B088N4-DAT-238  
000001

PPS 6/15/93

Date APR 22 1993

Agency Identification Number S93-0171

Account No. 3534C

Westinghouse Hanford Company  
2355 Stevens Drive  
MSIN H4-23 345 Hill Street/300 Area  
Richland, WA 99352  
Attention: Briana Colley



Telephone (509) 373-3225

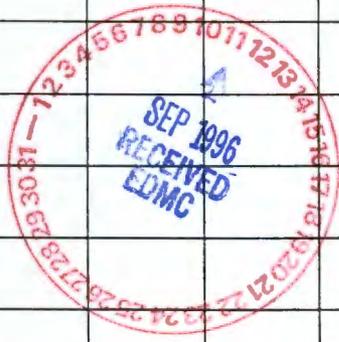
Sampling Collection and Shipment

Sampling Site \_\_\_\_\_ Date of Collection March 13, 1993

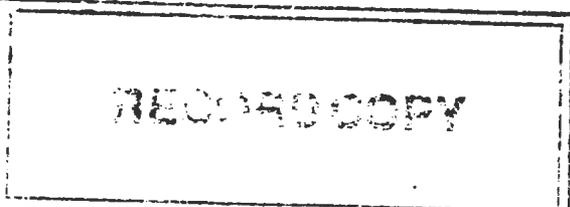
Date Samples Received at Laboratory March 26, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep. Method	Field Number Lab Number	B088N4 EM 0729	B08895 EM 0730	B088K0 EM 0731	B088D0 EM 0732	B088L5 EM 0733	B08880 EM 0734	B088G0 EM 0735	B088F5 EM 0736
Hydrazine	04/02/1993	µg/L	ASTM D1385			ND*							



† See comment on last page.  
 ND Parameter not detected.  
 NR Parameter not requested.  
 1 Analyses completed on or before this date.  
 \*\* Parameter not analyzed (See comment page).  
 ( ) Parameter between LOD and LOQ.  
 [ ] Method Reference (See comments page.)



Analyst: Jana M. Nicastro  
 Reviewer: Katherine Kellersberger  
 Laboratory Supervisor: Norman K. Christensen

9613471.1795

000002



## ENVIRONMENTAL WATER REPORT

Form EPRW-A

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Part 2 of 3

Date APR 22 1993Agency Identification Number S93-0171Account No. 3534C

Westinghouse Hanford Company  
 2355 Stevens Drive  
 MSIN H4-23 345 Hill Street/300 Area  
 Richland, WA 99352  
 Attention: Briana Colley

Telephone (509) 373-3225

## Sampling Collection and Shipment

Sampling Site \_\_\_\_\_ Date of Collection March 13, 1993Date Samples Received at Laboratory March 26, 1993

## Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Lab Number								
Hydrazine	04/02/1993		ASTM D1385				B08890 EM 0737	B088J0 EM 0738	B088L0 EM 0739	B088K5 EM 0740	B088J5 EM 0741	B088B5 EM 0742	B088H5 EM 0743	B088H0 EM 0744
		µg/L					ND*	ND*	ND*	ND*	ND*	23.	ND*	ND*

† See comment on last page.

ND Parameter not detected.

NR Parameter not requested.

1 Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).

() Parameter between LOD and LOQ.

[] Method Reference (See comments page.)

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000003



ENVIRONMENTAL WATER REPORT

Form EPRW-A

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Part 3 of 3

Date APR 22 1993

Agency Identification Number S93-0171

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Date of Collection March 13, 1993

Date Samples Received at Laboratory March 26, 1993

Analytical Results

Table with columns: Parameter Name, Analysis Date, Units, Method, Prep Method, Field Number, Lab Number, Limit of Detection. Row 1: Hydrazine, 04/02/1993, µg/L, ASTM D1385, ND\*, 3.

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
1 Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)



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000004

ENVIRONMENTAL WATER REPORT

Form EPRW-C

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Date APR 22 1993

Agency Identification Number S93-0171

**General Set Comments**

**CASE NARRATIVE:**

No problems were encountered in the analysis.

Copies of data with this set includes data for set S93-0161.

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**

Company Contact **PH BUTCHER**

Telephone **(509) 376-5045**

Project Designation/Sampling Locations **100-KR-4**

Collection Date **3/16/93**

Ice Chest No. **RFP**

Field Logbook No. **EPL-1048**

Bill of Lading/Airbill No. **253685414 5**

Offsite Property No. **W93-0-0321-29**

Method of Shipment **EMERY**

Shipped to **DATA CHEM**

Possible Sample Hazards/Remarks

Sample Identification

BO 88N4

1, 40mL, G, WATER, HYDRAZINE (HCL)

EM 0729

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

Relinquished By	Date	Time	Received By	Date	Time
<i>[Signature]</i>	3/16/93	1255	<i>PH Butcher</i> PH Butcher	3/25/93	0830
<i>PH Butcher</i> PH Butcher	3/25/93	0830			

Final Sample Disposition

Disposal Method: Disposed by: Date/Time:

Comments: **ICE CHEST**

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **253695414 5**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3/13/93**  
 Field Logbook No. **EFL-1049**  
 Offsite Property No. **W93-0-0321-29**

Sample Identification

BO 895  
 1, 40mL, G, WATER, HYDRAZINE (HCL)  
 EM 0730

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

Relinquished By	Date	Time	Received By	Date	Time
<i>K. Trapp / K. Trapp</i>	<i>3/13/93</i>		<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: *Boiler fuel cell*

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. RFP

Bill of Lading/Airbill No. 253695414 5

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Telephone (509) 376-5045

Collection Date 3/13/93

Field Logbook No. EFL-1049

Offsite Property No. W93-0-0321-29

Sample Identification

BOB8K0

1, 40mL, G, WATER, HYDRAZINE

EM0731

[ ] Field Transfer of Custody		Chain of Possession			(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time	
L. Trapp / K. Trapp	3/13/93		PH Butcher PH Butcher	3/25/93	0830	
PH Butcher PH Butcher	3/25/93	0830				

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: Cooler SML-166		

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**

Company Contact **PH BUTCHER**

Project Designation/Sampling Locations **100-KR-4**

Ice Chest No. **RFP**

Bill of Lading/Airbill No. **2536954145**

Method of Shipment **EMERY**

Shipped to **DATA CHEM**

Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**

Collection Date **3/13/93**

Field Logbook No. **EFL-1048**

Offsite Property No. **W93-0-0321-29**

#### Sample Identification

**BO88DO**

**1, 40mL, G, WATER, HYDRAZINE (HCL)**

**EM0732**

**Field Transfer of Custody**

**Chain of Possession**

**(Sign and Print Names)**

Relinquished By	Date	Time	Received By	Date	Time
<i>C. C. C. C. C. C. C.</i>	<i>3-13-93</i>		<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

#### Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: *RFP #4*

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **253685414 5**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3/16/93**  
 Field Logbook No. **EFL-1048**  
 Offsite Property No. **W93-0-0321-29**

Sample Identification

**BO88L5**  
**1, 40mL, G, WATER, HYDRAZINE (H<sub>2</sub>L)**  
**EM0733**

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

Relinquished By	Date	Time	Received By	Date	Time
<i>PH Butcher</i>	<i>3/16/93</i>	<i>1255</i>	<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments: *KWL 3/16/93*  
*PH BUTCHER ICE CHEST*

Westinghouse Hanford Company	CHAIN OF CUSTODY
Custody Form Initiator <b>KD LEE/GG HAMILTON</b>	
Company Contact <b>PH BUTCHER</b>	Telephone <b>(509) 376-5045</b>
Project Designation/Sampling Locations <b>100-KR-4</b>	Collection Date <b>3-16-93</b>
Ice Chest No. <b>RFP</b>	Field Logbook No. <b>EPL-1044</b>
Bill of Lading/Airbill No. <b>253695414 5</b>	Offsite Property No. <b>W93-0-0321-29</b>
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks	

Sample Identification

**BO8880**  
 1, 40mL, G, WATER, HYDRAZINE (HCL)  
**EM0734**

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>C. Celibert</i> C. Celibert	3-16-93	1255	<i>PH Butcher</i> PH Butcher	3/25/93	0830
<i>PH Butcher</i> PH Butcher	3/25/93	0830			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <b>ICE CHEST</b>		

Westinghouse Hanford Company	<b>CHAIN OF CUSTODY</b>
---------------------------------	-------------------------

Custody Form Initiator <b>KD LEE/GG HAMILTON</b>	Telephone <b>(509) 376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>3/17/93</b>
Project Designation/Sampling Locations <b>100-KR-4</b>	Field Logbook No. <b>ELC-1048</b>
Ice Chest No. <b>RFP</b>	Offsite Property No. <b>W93-0-321-29</b>
Bill of Lading/Airbill No. <b>253695414 5</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks	

Sample Identification

**BO8860**  
 1, 40mL, G, WATER, HYDRAZINE (4LL)  
**EM0735**

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>KD Lee</i>	<i>3/17/93</i>	<i>1433</i>	<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <i>FRIGID /</i>		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-KR-4  
 Ice Chest No. RFP  
 Bill of Lading/Airbill No. 253685414 5  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks

Telephone (509) 376-5045  
 Collection Date 3/17/93  
 Field Logbook No. EFL-1048  
 Offsite Property No. W93-0-0321-29

Sample Identification

BO 88F5  
 1, 40mL, G, WATER, HYDRAZINE (HL)  
 EM0736

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
Kathy D. Lee K.D. Lee	3/17/93	1433	PH Butcher PH Butcher	3/25/93	0830
PH Butcher PH Butcher	3/25/93	0830			
Final Sample Disposition					
Disposal Method:		Disposed by:		Date/Time:	
Comments: Frig. # 4					

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **253695414 5**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3-19-95**  
 Field Logbook No. **5FL-1648**  
 Offsite Property No. **W93-0-0321-29**

Sample Identification

**BO6890**  
 1, 40mL, G, WATER, HYDRAZINE  
**EM0737**

[ ] Field Transfer of Custody		Chain of Possession			(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time	
<i>C. Cel. Kari</i>	<i>3-19-95</i>	<i>1215</i>	<i>PH Butcher</i>	<i>3/25/95</i>	<i>0820</i>	
<i>PH Butcher</i>	<i>3/25/95</i>	<i>0820</i>				

Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: *Refridg # 1*

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**

Company Contact **PH BUTCHER**

Project Designation/Sampling Locations **100-KR-4**

Ice Chest No. **RFP**

Bill of Lading/Airbill No. **253695414 5**

Method of Shipment **EMERY**

Shipped to **DATA CHEM**

Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**

Collection Date **3/19/93**

Field Logbook No. **EPL-1048**

Offsite Property No. **W93- 0-0321-29**

#### Sample Identification

~~BO 8849~~ KT 3/4/93

BO 8849 TO 1, 40mL, G, WATER, HYDRAZINE

**EM0738**

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>C. Celebrez C. Celebrez</i>	<i>3/19/93</i>	<i>1715</i>	<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

#### Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:  
*Recovery #4*

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 3/19/93

Ice Chest No. RFP

Field Logbook No. EFL 1049

Bill of Lading/Airbill No. 253695414 5

Offsite Property No. W93-0-0321-29

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Sample Identification

BO 89LO

1, 40mL, G, WATER, HYDRAZINE

EM0739

Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
RC Cole RC Cole	3/19/93	1505	PH Butcher PH Butcher	3/25/93	0830
PH Butcher PH Butcher	3/25/93	0830			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments:		
FC16 4		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. RFP

Bill of Lading/Airbill No. 2536954145

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Telephone (509) 376-5045

Collection Date 3/19/93

Field Logbook No. EFL-1049

Offsite Property No. W93-0-0321-29

Sample Identification

BO88K5

1, 40mL, G, WATER, HYDRAZINE

EM0740

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished By	Date	Time	Received By	Date	Time
PC Cole PC Cole	3/19/93	1505	PH Butcher PH Butcher	3/25/93	0830
PH Butcher PH Butcher	3/25/93	0830			

Final Sample Disposition

Disposal Method: Disposed by: Date/Time:

Comments:  
R16 I

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **2536954145**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3-23-93**  
 Field Logbook No. **EFL-1048**  
 Offsite Property No. **W93-0-0321-29**

Sample Identification

**BO 98J5**  
**1, 40mL, G, WATER, HYDRAZINE**

**EM0741**

Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>PH Butcher</i>	<i>3/23/93</i>	<i>1320</i>	<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <i>FRIG# 4</i>		

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **253685414 5**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3/24/93**  
 Field Logbook No. **EFL-1098**  
 Offsite Property No. **W93-0-0321-29**

#### Sample Identification

**B088B5**  
**1, 40mL, G, WATER, HYDRAZINE**  
**EM0742**

Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>PH Butcher</i> PH Butcher	3/24/93	1410	<i>PH Butcher</i> PH Butcher	3/25/93	0830
<i>PH Butcher</i> PH Butcher	3/25/93	0830			

#### Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: **FR1E# | VERY DIRTY WATER, HARD TO DETERMINE IF BUBBLES PRESENT**

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 3/24/93

Ice Chest No. RFP

Field Logbook No. EFL-1048

Bill of Lading/Airbill No. 253695414 5

Offsite Property No. W93-0-0321-29

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Sample Identification

BO 88H5

1, 40mL, G, WATER, HYDRAZINE

EM0743

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
GL Lee	3/24/93	1410	PH Butcher	3/25/93	0830
PH Butcher	3/25/93	0830			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:  
FLIG #4

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. RFP

Bill of Lading/Airbill No. 253695414 5

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Telephone (509) 376-5045

Collection Date 3/24/93

Field Logbook No. EFL-1048

Offsite Property No. W93-0-0321-29

Sample Identification

B088HO

1, 40mL, G, WATER, HYDRAZINE

EM 0744

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

Relinquished By	Date	Time	Received By	Date	Time
RCole RCole	3/24/93	1410	PHButcher PHButcher	3/24/93	0830
PHButcher PHButcher	3/25/93	0830			

Final Sample Disposition

Disposal Method: Disposed by: Date/Time:

Comments:

R016.4

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. RFP

Bill of Lading/Airbill No. 296854145

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Telephone (509) 376-5045

Collection Date 3/24/93

Field Logbook No. EFL-1048

Offsite Property No. W93-0-0321-29

Sample Identification

BO 880

1, 40mL, G, WATER, HYDRAZINE

EM0745

Field Transfer of Custody		Chain of Possession			(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time	
RC Cole	3/24/93		PH Butcher	3/25/93	0830	
PH Butcher	3/25/93	0830				

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:

Comments: FRIG#



DATA QUALIFICATION SUMMARY

UNIT: 100-KR-4

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-184

ANALYSES: Wet Chemistry

RFW NO.: B088N4-DAT-238

SDG NO.: B08880

QUALIFICATION SUMMARY:WET CHEMISTRY

SAMPLE NUMBERS: B08880, B08890, B08895, B088B5, B088C0, B088D0,  
B088F5, B088G0, B088H0, B088H5, B088J0, B088J5,  
B088K0, B088K5, B088L0, B088L5, B088N4

CONTINUING CALIBRATION VERIFICATION

The CCV and CCB were not analyzed at the proper frequency and all associated results were qualified as estimates and flagged "J" for the following analysis:

- Hydrazine analysis of sample numbers B08880, B08890, B08895, B088B5, B088C0, B088D0, B088F5, B088G0, B088H0, B088H5, B088J0, B088J5, B088K0, B088K5, B088L0, B088L5 and B088N4 in SDG No. B08880.

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X02180

000001



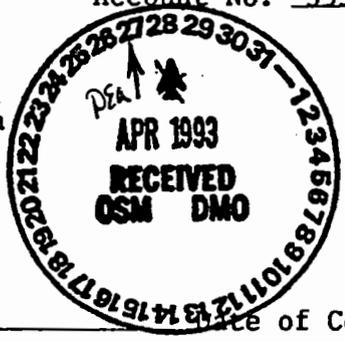
# ENVIRONMENTAL WATER REPORT

Form EPRW-A  
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Part 1 of 3

PPS 4/15/93

Date APR 22 1993  
Agency Identification Number S93-0171  
Account No. 3534C

Westinghouse Hanford Company  
2355 Stevens Drive  
MSIN H4-23 345 Hill Street/300 Area  
Richland, WA 99352  
Attention: Briana Colley



Telephone (509) 373-3225

Sampling Collection and Shipment  
Sampling Site \_\_\_\_\_ Date of Collection March 13, 1993  
Date Samples Received at Laboratory March 26, 1993

## Analytical Results

Parameter Name	Field Number	Lab Number								
Hydrazine	B088N4	EM 0729	B08895	EM 0730	B088K0	EM 0731	B088D0	EM 0732	B088L5	EM 0733
04/02/1993										
ASTM D1385										
µg/L	ND*	ND*								
	3.0 UJ	3.0 UJ								
<i>Insufficient CV/CCB data</i>										
<i>7/15/93 JAD</i>										

† See comment on last page. \*\* Parameter not analyzed (See comment page).  
ND Parameter not detected. ( ) Parameter between LOD and LOQ.  
NR Parameter not requested. [ ] Method Reference (See comments page.)  
1 Analyses completed on or before this date.

**RECORD COPY**

Analyst: Jana M. Nicastro  
Reviewer: Katherine Kellersberger  
Laboratory Supervisor: Norman K. Christensen



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 4

Part 2 of 3

Date APR 22 1993

Agency Identification Number S93-0171

Account No. 3534C

Westinghouse Hanford Company  
 2355 Stevens Drive  
 MSIN H4-23 345 Hill Street/300 Area  
 Richland, WA 99352  
 Attention: Briana Colley

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site \_\_\_\_\_ Date of Collection March 13, 1993

Date Samples Received at Laboratory March 26, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	LAB NUMBER															
Hydrazine	04/02/1993	µg/L	ASTM D1385		B08890	EM 0737	B088J0	EM 0738	B088I0	EM 0739	B088K5	EM 0740	B088J5	EM 0741	B088B5	EM 0742	B088H5	EM 0743	B088H0	EM 0744
					ND*	3.0 UJ	ND*	3.0 UJ	23.4	ND*	3.0 UJ	ND*	3.0 UJ							
7/15/93																				
<i>Insufficient CCK/CCB data</i>																				

† See comment on last page.  
 ND Parameter not detected.  
 NR Parameter not requested.  
 † Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).  
 ( ) Parameter between LOD and LOQ.  
 [ ] Method Reference (See comments page.)



ENVIRONMENTAL WATER REPORT

Form EPRW-A  
Page 3 of 4  
Part 3 of 3

Date APR 22 1993  
Agency Identification Number S93-0171  
Account No. 3534C

Westinghouse Hanford Company  
2355 Stevens Drive  
MSIN H4-23 345 Hill Street/300 Area  
Richland, WA 99352  
Attention: Briana Colley

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site \_\_\_\_\_ Date of Collection March 13, 1993

Date Samples Received at Laboratory March 26, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Lab Number	Concentration	Units of Detection
Hydrazine	04/02/1993	µg/L	ASTM D1385		B088C0	EM 0745	ND*	3.
	7/15/93						Insufficient CCV/CCB data	

† See comment on last page.  
ND Parameter not detected.  
NR Parameter not requested.  
‡ Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).  
( ) Parameter between LOD and LOQ.  
[ ] Method Reference (See comments page.)

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ENVIRONMENTAL WATER REPORT

Form EPRW-C  
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Date APR 22 1993  
Agency Identification Number S93-0171

General Set Comments

CASE NARRATIVE:

No problems were encountered in the analysis.

Copies of data with this set includes data for set S93-0161.

**ENVIRONMENTAL WATER REPORT**

Form EPRW-A

Page 1 of 4

Part 1 of 3

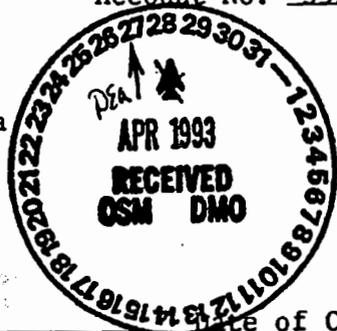
PPS 6/15/93

Date APR 22 1993

Agency Identification Number S93-0171

Account No. 3534C

Westinghouse Hanford Company  
2355 Stevens Drive  
MSIN H4-23 345 Hill Street/300 Area  
Richland, WA 99352  
Attention: Briana Colley



Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site \_\_\_\_\_

Date of Collection March 13, 1993

Date Samples Received at Laboratory March 26, 1993

**Analytical Results**

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Lab Number	Result
Hydrazine	04/02/1993	µg/L	ASTM D1385		B088N4	EM 0729	ND*
					B08895	EM 0730	3.0 UJ
					B088K0	EM 0731	3.0 UJ
					B088D0	EM 0732	3.0 UJ
					B088L5	EM 0733	3.0 UJ
					B08880	EM 0734	3.0 UJ
					B088G0	EM 0735	3.0 UJ
					B088F5	EM 0736	3.0 UJ

7/15/93  
*[Signature]*

† See comment on last page.      \*\* Parameter not analyzed (See comment page).  
 ND Parameter not detected.      ( ) Parameter between LOD and LOQ.  
 NR Parameter not requested.      [ ] Method Reference (See comments page).  
 † Analyses completed on or before this date.

**RECORD COPY**

*Jana M. Nicastro*  
Analyst: Jana M. Nicastro  
*Katherine Kellersberger*  
Reviewer: Katherine Kellersberger  
*Norman K. Christensen*  
Laboratory Supervisor: Norman K. Christensen

PSN

9613471.1022

000002



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 4

Part 2 of 3

Date APR 22 1993

Agency Identification Number S93-0171

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site \_\_\_\_\_ Date of Collection March 13, 1993

Date Samples Received at Laboratory March 26, 1993

Analytical Results

Table with columns for Parameter Name, Analysis Date, Units, Method, Prep Method, Field Number, Lab Number, and results for Hydrazine across multiple samples (B08890 to B088H0).

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
1 Analyses completed on or before this date.
\*\* Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

9613471.1823

000003



ENVIRONMENTAL WATER REPORT

Form EPRW-A

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Part 3 of 3

Date APR 22 1993

Agency Identification Number S93-0171

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Date of Collection March 13, 1993

Date Samples Received at Laboratory March 26, 1993

Analytical Results

Table with columns for Parameter Name, Analysis Date, Units, Method, Prep Method, Field Number, Lab Number, and Limit of Detection. Row 1: Hydrazine, 04/02/1993, pg/L, ASTM D1385, B088C0, EM 0745, 3.0 uJ. Includes handwritten date 7/15/93 and initials JW.

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
! Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

WET CHEMISTRY DATA VALIDATION CHECKLIST - FORM A-7

PROJECT: <i>Westinghouse-Hanford</i>	REVIEWER: <i>LM</i>	DATE: <i>7/15/93</i>
LABORATORY: <i>Data Chem</i>	CASE:	SDG: <i>B08880</i>
SAMPLES/MATRIX: <i>B08880, B08890, B08895, B088B5, B088C0,</i>		
<i>B088D0, B088F5, B088G0, B088H0, B088H5, B088J0,</i>		
<i>B088J5, B088K0, B088K5, B088L0, B088L5, B088N4</i>		
<i>17 water samples</i>		

1. DATA PACKAGE COMPLETENESS

Review the data package for completeness and check off the items below. If any data review elements are missing contact the laboratory for submittal of the omitted data.

Data Package Item	Present?:	Yes	No	N/A
Case Narrative		<input checked="" type="checkbox"/>		
Cover Page			<input checked="" type="checkbox"/>	
Traffic Reports/Chain-of-Custody		<input checked="" type="checkbox"/>		
Sample Analysis Data Report Forms		<input checked="" type="checkbox"/>		
Standards Data		<input checked="" type="checkbox"/>		
QC Summary				
Blanks Summary Report Forms		<input checked="" type="checkbox"/>		
Spike Sample Recovery Report Forms		<input checked="" type="checkbox"/>		
Duplicate Sample Analysis Report Forms		<input checked="" type="checkbox"/>		
Laboratory Control Sample Report Forms		<input checked="" type="checkbox"/>		
Raw Data				
Ion Chromatograph Chromatograms				<input checked="" type="checkbox"/>
TOC and TOX Instrument Printouts				<input checked="" type="checkbox"/>
Laboratory Bench Sheets		<input checked="" type="checkbox"/>		
Additional Data				
Laboratory Sample Preparation Logs		<input checked="" type="checkbox"/>		
Instrument Run Logs		<input checked="" type="checkbox"/>		
Internal Laboratory Chain-of-Custody		<input checked="" type="checkbox"/>		
Percent Solids Analysis Records				<input checked="" type="checkbox"/>
Reduction Formulae				<input checked="" type="checkbox"/>
Chemist Notebook Pages		<input checked="" type="checkbox"/>		

2. HOLDING TIMES

Were all samples analyzed within holding times?  Yes  No  N/A

Action: If any holding times were exceeded qualify all affected results as estimated (J for detects and UJ for nondetects).

**3. INITIAL CALIBRATIONS**

Were all instruments calibrated daily, each set-up time and were the proper number of standards used?

Yes No N/A

Are the correlation coefficients  $\geq 0.9957$ ?

Yes No N/A

Was a balance check conducted prior to the TDS analysis?

Yes No N/A

Was the titrant normality checked?

Yes No N/A

**ACTION:** Qualify all data as unusable (R) if reported from an analysis in which the above criteria were not met.

**4. INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Have ICV and CCV been analyzed at the proper frequency?

Yes No N/A

Are ICV and CCV percent recoveries within control?

Yes No N/A

Are there calculation errors?

Yes No N/A

**ACTION:** Qualify all affected data in accordance with the validation requirements.

**5. LABORATORY BLANKS**

Are target analytes present in the laboratory blanks?

Yes No N/A

**ACTION:** Qualify all associated sample results for any analyte  $< 5$  times the amount in any laboratory blank as nondetected (U) and list the affected samples and analytes below.

**6. FIELD BLANKS**

Are target analytes present in the field blanks?

Yes No N/A

**ACTION:** Qualify all sample results for any analyte  $< 5$  times the amount in any valid field blank as nondetected (U).

**7. MATRIX SPIKE SAMPLE ANALYSIS**

Are spike recoveries within the acceptance limits?

Yes No N/A

**ACTION:** If the sample concentration exceeds the spike concentration by a factor of 4 or more, and spike recoveries are outside the acceptance limits, no qualification is necessary. If spike recovery is outside the control limits and the sample results are  $> CRQL$ , qualify the data as estimated (J). If the spike recovery is  $< 30\%$  and the sample results are less than the IDL qualify the data as unusable (R).

## WHC-SD-EN-SPP-002, Rev. 1

## 8. LABORATORY CONTROL SAMPLE

Are percent recoveries within the acceptance limits?  Yes  No  N/A

Are there calculation errors?  Yes  No  N/A

**ACTION:** Qualify the affected results according to the following requirements:

**AQUEOUS LCS** - Qualify as estimated (J), all sample results > IDL, for which the LCS %R falls within the range 50-79% or > 120%. Qualify as estimated (UJ), all sample results < IDL, for which the LCS falls within the range of 50-79%. Qualify as unusable (R) all sample results, for which the LCS %R < 50%.

**SOLID LCS** - Qualify as estimated (J), all sample results > IDL for which the LCS %R is outside the established control limits. Qualify as estimated (UJ), all sample results < IDL for which the LCS %R are lower than the established control limits.

## 9. PERFORMANCE AUDIT ANALYSES

Are the performance audit sample results within the acceptance limits?  Yes  No  N/A

**ACTION:** Note the results of the performance audit samples in the validation narrative.

## 10. DUPLICATE SAMPLE ANALYSIS

Are RPD values within the acceptance limits?  Yes  No  N/A

**Action:** Qualify the results for all associated samples of the same matrix as estimated (J) if the RPD falls outside the acceptance limits.

## 11. FIELD DUPLICATE SAMPLES

Do RPD values exceed the acceptance limits?  Yes  No  N/A

**ACTION:** Note the results of the field duplicate samples in the validation narrative.

## 12. FIELD SPLIT SAMPLES

Do RPD values exceed the acceptance limits?  Yes  No  N/A

**ACTION:** Note the results of the field split samples in the validation narrative.

**13. ANALYTE QUANTITATION AND DETECTION LIMITS**

Have results been reported and calculated correctly?

 Yes    No    N/A

Are instrument detection limits below the CRDL?

 Yes    No    N/A

Action: If analyte quantitation is in error, contact the laboratory for explanation. If errors or deficiencies can not be resolved with the laboratory, qualify associated data as unusable (R).

**14. OVERALL ASSESSMENT AND SUMMARY**

Has the laboratory conducted the analysis in accordance with the analytical SOW?

Yes     No    N/A

Were project specific data quality objectives met for this analysis?

 Yes    No    N/A

ACTION: Summarize all the data qualifications and complete the data validation narrative as specified in Section 10.0 of the data validation requirements.

COMMENTS (attach additional sheets as necessary): X02180

1. Hydrazine : CCV/CCB were not analyzed at proper frequency. No final CCV/CCB analyzed or perhaps just not reported.

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **253685414 5**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3/16/93**  
 Field Logbook No. **EPL-1048**  
 Offsite Property No. **W93-0-0321-29**

Sample Identification

BO 88N4  
 1, 40mL, G, WATER, HYDRAZINE (HCL)  
 EM 0729

[ ] Field Transfer of Custody		Chain of Possession			(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time	
<i>[Signature]</i>	3/16/93	1255	<i>PH Butcher</i>	3/25/93	0830	
<i>PH Butcher</i>	3/25/93	0830				

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>ICE CHEST</i>		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-KR-4  
 Ice Chest No. RFP  
 Bill of Lading/Airbill No. 253695414 5  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks

Telephone (509) 376-5045  
 Collection Date 3/13/93  
 Field Logbook No. EFL-1049  
 Offsite Property No. W93-0-0321-29

Sample Identification

BO8895  
 1, 40mL, G, WATER, HYDRAZINE (H<sub>2</sub>L)  
 EM 0730

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
K. Trapp / K. Trapp	3/13/93		PH Butcher PH Butcher	3/25/93	0830
PH Butcher PH Butcher	3/25/93	0830			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: Cooler insul seal		

<b>Westinghouse Hanford Company</b>	<h2 style="margin: 0;">CHAIN OF CUSTODY</h2>
Custody Form Initiator <b>KD LEE/GG HAMILTON</b> Company Contact <b>PH BUTCHER</b> Project Designation/Sampling Locations <b>100-KR-4</b> Ice Chest No. <b>RFP</b> Bill of Lading/Airbill No. <b>253695414 5</b> Method of Shipment <b>EMERY</b> Shipped to <b>DATA CHEM</b> Possible Sample Hazards/Remarks	
Telephone <b>(509) 376-5045</b> Collection Date <b>3/13/93</b> Field Logbook No. <b>EFL-1049</b> Offsite Property No. <b>W93-0-0321-29</b>	

Sample Identification

**BO88K6**  
 1, 40mL, G, WATER, HYDRAZINE  
**EM0731**

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession			(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>K. Trapp / K. Trapp</i>	<i>3/13/93</i>		<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <i>Cooler SMC-166</i>		



Westinghouse Hanford Company	<b>CHAIN OF CUSTODY</b>
---------------------------------	-------------------------

Custody Form Initiator <b>KD LEE/GG HAMILTON</b>	Telephone <b>(509) 376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>3/16/93</b>
Project Designation/Sampling Locations <b>100-KR-4</b>	Field Logbook No. <b>EFL-1048</b>
Ice Chest No. <b>RFP</b>	Offsite Property No. <b>W93-0-0321-29</b>
Bill of Lading/Airbill No. <b>253685414 5</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks	

Sample Identification

**BO88L5**  
 1, 40mL, G, WATER, HYDRAZINE ( $H_2O$ )  
**EM0733**

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>PH Butcher</i> <b>K.D. Lee</b>	<b>3/16/93</b>	<b>1255</b>	<i>PH Butcher</i> <b>PH Butcher</b>	<b>3/25/93</b>	<b>0830</b>
<i>PH Butcher</i> <b>PH Butcher</b>	<b>3/25/93</b>	<b>0830</b>			
Final Sample Disposition					
Disposal Method:		Disposed by:		Date/Time:	
Comments: <b>KD LEE 3/16/93</b> <b>PH BUTCHER ICE CHEST</b>					

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 3-16-93

Ice Chest No. RFP

Field Logbook No. EFL-1044

Bill of Lading/Airbill No. 253695414 S

Offsite Property No. W93-0-0321-29

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Sample Identification

BO8880

1, 40mL, G, WATER, HYDRAZINE (H<sub>2</sub>L)

EM0734

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
C. Celiberti	3-16-93	1255	PH Butcher	3/25/93	0830
PH Butcher	3/25/93	0830	PH Butcher		
Final Sample Disposition					
Disposal Method:		Disposed by:		Date/Time:	
Comments: ICF CHEST					

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 3/17/93

Ice Chest No. RFP

Field Logbook No. EFL-1048

Bill of Lading/Airbill No. 253695414 S

Offsite Property No. W93-0-321-29

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Sample Identification

BO8890

1, 40mL, G, WATER, HYDRAZINE (HCL)

EM0735

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>KD Lee</i>	3/17/93	1433	<i>PH Butcher</i>	3/25/93	0830
<i>PH Butcher</i>	3/25/93	0830			

Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: *FRIG # 1*

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 3/17/93

Ice Chest No. RFP

Field Logbook No. EFL-1048

Bill of Lading/Airbill No. 253685414 5

Offsite Property No. W93-0-0321-29

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Sample Identification

BO 88F5

1, 40mL, G, WATER, HYDRAZINE (HL)

EM0736

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished By	Date	Time	Received By	Date	Time
Kathy D. Lee K.D. Lee	3/17/93	1433	PH Butcher PH Butcher	3/25/93	0830
PH Butcher PH Butcher	3/25/93	0830			

Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments:

Fig. 4 4

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **253695419 5**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3-19-93**  
 Field Logbook No. **FL-1648**  
 Offsite Property No. **W93-0-0321-29**

Sample Identification

**BO8890**  
**1, 40mL, G, WATER, HYDRAZINE**  
**EM0737**

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>C. Cleland</i>	<i>3-17-93</i>	<i>1215</i>	<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>	<i>PH Butcher</i>		

Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: *Refridg # 1*

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **253695414 5**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3/19/93**  
 Field Logbook No. **EPL-1048**  
 Offsite Property No. **W93-0-0321-29**

Sample Identification

~~BO8849~~ <sup>KT 7/14/93</sup>  
 BO88JO 1, 40mL, G, WATER, HYDRAZINE  
**EM0738**

[ ] Field Transfer of Custody		Chain of Possession				(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time		
<i>C. Colbert</i>	<i>3/19/93</i>	<i>1715</i>	<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>		
<i>PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>					

Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments:  
*Retriled #4*

Westinghouse Hanford Company	<h2 style="margin: 0;">CHAIN OF CUSTODY</h2>
Custody Form Initiator <b>KD LEE/GG HAMILTON</b>	
Company Contact <b>PH BUTCHER</b>	Telephone <b>(509) 376-5045</b>
Project Designation/Sampling Locations <b>100-KR-4</b>	Collection Date <b>3/19/93</b>
Ice Chest No. <b>RFP</b>	Field Logbook No. <b>EFL 1049</b>
Bill of Lading/Airbill No. <b>253685414 5</b>	Offsite Property No. <b>W93-0-0321-29</b>
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks	

Sample Identification

**BO 88LO**  
 1, 40mL, G, WATER, HYDRAZINE  
**EM0739**

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>KL Cole KL Cole</i>	<i>3/19/93</i>	<i>1505</i>	<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>
<i>PH Butcher PH Butcher</i>	<i>3/25/93</i>	<i>0830</i>			

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:  
*FR16 4*

Westinghouse Hanford Company CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER** Telephone **(509) 376-5045**  
 Project Designation/Sampling Locations **100-KR-4** Collection Date **3/19/93**  
 Ice Chest No. **RFP** Field Logbook No. **EFL-1049**  
 Bill of Lading/Airbill No. **253695414 5** Offsite Property No. **W93-0-0321-29**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Sample Identification

**BO88K5**  
 1, 40mL, G, WATER, HYDRAZINE  
**EM0740**

[ ] Field Transfer of Custody		Chain of Possession			(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time	
<i>PC Cole</i> PC Cole	3/19/93	1505	<i>PH Butcher</i> PH Butcher	3/25/93	0830	
<i>PH Butcher</i> PH Butcher	3/25/93	0830				

**Final Sample Disposition**

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: **FRIG 2**

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-KR-4**  
 Ice Chest No. **RFP**  
 Bill of Lading/Airbill No. **2536954145**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks

Telephone **(509) 376-5045**  
 Collection Date **3-23-93**  
 Field Logbook No. **EFL-1048**  
 Offsite Property No. **W93- 0-0321-29**

#### Sample Identification

**BO 88J5**  
**1, 40mL, G, WATER, HYDRAZINE**  
**EM0741**

**Field Transfer of Custody**                      **Chain of Possession**                      **(Sign and Print Names)**

Relinquished By	Date	Time	Received By	Date	Time
<i>PH Butcher</i>	<b>3/23/93</b>	<b>1320</b>	<i>PH Butcher PH Butcher</i>	<b>3/25/93</b>	<b>0830</b>
<i>PH Butcher PH Butcher</i>	<b>3/25/93</b>	<b>0830</b>			

#### Final Sample Disposition

Disposal Method:                      Disposed by:                      Date/Time:

Comments: **FRIG# 4**

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator **KD LEE/GG HAMILTON**

Company Contact **PH BUTCHER**

Telephone **(509) 376-5045**

Project Designation/Sampling Locations **100-KR-4**

Collection Date **3/24/93**

Ice Chest No. **RFP**

Field Logbook No. **EFL-1098**

Bill of Lading/Airbill No. **253695414 5**

Offsite Property No. **W93-0-0321-29**

Method of Shipment **EMERY**

Shipped to **DATA CHEM**

Possible Sample Hazards/Remarks

#### Sample Identification

**B088B5**

**1, 40mL, G, WATER, HYDRAZINE**

**EM0742**

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

Relinquished By	Date	Time	Received By	Date	Time
<i>GG Hamilton</i> GG Hamilton	3/24/93	1410	<i>PH Butcher</i> PH Butcher	3/25/93	0830
<i>PH Butcher</i> PH Butcher	3/25/93	0830			

#### Final Sample Disposition

Disposal Method: \_\_\_\_\_ Disposed by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments **FRIEPT | VERY DIRTY WATER, HARD to determine if bubbles present**

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Westinghouse  
Hanford Company

## CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 3/24/93

Ice Chest No. RFP

Field Logbook No. EFL-1048

Bill of Lading/Airbill No. 253695414 5

Offsite Property No. W93-0-0321-29

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

## Sample Identification

BO 8845

1, 40mL, G, WATER, HYDRAZINE

EM0743

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
Glode P. Glode	3/24/93	1910	PH Butcher PH Butcher	3/25/93	0830
PH Butcher PH Butcher	3/25/93	0830			

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: EFL #4		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. RFP

Bill of Lading/Airbill No. 253695414 5

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Telephone (509) 376-5045

Collection Date 3/24/93

Field Logbook No. EFL-1048

Offsite Property No. W93-0-0321-29

Sample Identification

B088H0

1, 40mL, G, WATER, HYDRAZINE

EM 0744

[ ] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>R Cole R Cole</i>	<i>3/24/93</i>	<i>1410</i>	<i>PH Butcher PH Butcher</i>	<i>3/24/93</i>	<i>0830</i>
<i>PH Butcher PH Butcher</i>	<i>3/24/93</i>	<i>0830</i>			

Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments:

*FRIG. 4*

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator KD LEE/GG HAMILTON

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. RFP

Bill of Lading/Airbill No. 256954145

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks

Telephone (509) 376-5045

Collection Date 3/24/93

Field Logbook No. EPL-1048

Offsite Property No. W93-0-0321-29

#### Sample Identification

BO 880

1, 40mL, G, WATER, HYDRAZINE

EM0745

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

Relinquished By	Date	Time	Received By	Date	Time
PC Cole PC Cole	3/24/93		PH Butcher PH Butcher	3/25/93	0830
PH Butcher PH Butcher	3/25/93	0830			

#### Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments: FR16#

