

**ENVIRONMENTAL WATER REPORT**

Form EPRW-A  
 Page 1 of 3  
 Part 1 of 3

Date FEB 26 1993

Agency Identification Number S93-0068

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 January 22, 1993

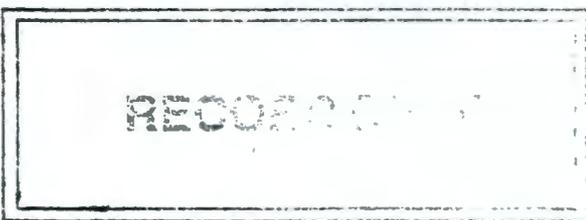
Date Samples Received at Laboratory February 04, 1993

**Analytical Results**

Parameter Name	Field Number	Lab Number	B07ZS1	B07ZL1	B07ZL6	B07ZX0	B07ZK6	B07ZH1	B07ZN6	B07ZP6
Analysis Date	Units	Prep Method	EM 0237	EM 0238	EM 0239	EM 0240	EM 0241	EM 0242	EM 0243	EM 0244
Method										
Hydrazine			ND*							
02/16/1993	µg/L									
ASTMD1385										



† 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.)



Mark A. Hixon  
 Analyst: Mark A. Hixon  
Katherine Kellersberger  
 Reviewer: Katherine Kellersberger  
Norman K. Christensen  
 Laboratory Supervisor: Norman K. Christensen

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000002



## ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 3

Part 2 of 3

FEB 26 1993

Date \_\_\_\_\_

Agency Identification Number S93-0068Account 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 January 22, 1993Date Samples Received at Laboratory February 04, 1993

## Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Job Number	B07ZT6	B07ZQ6	B07ZV1	B07ZM6	B07ZW1	B07ZQ1	B07ZX6	B07ZY1
Hydrazine	02/16/1993	µg/L	ASTMD1385				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.)



ENVIRONMENTAL WATER REPORT

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

Date FEB 26 1993  
Agency Identification Number S93-0068  
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 January 22, 1993

Date Samples Received at Laboratory February 04, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number Lab Number	B072P1 EM 0254	B07R95 EM 0255	B07R60 EM 0256	B07R65 EM 0257	Limit of Detection
Hydrazine	02/16/1993	µg/L	ASTMD1385			ND*	ND*	ND*	ND*	3.

† 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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Westinghouse  
Hanford Company

SAMPLE ANALYSIS REQUEST **000003**

PART I: FIELD SECTION

Collector K. Lee, L. Walker

Date Sampled SEP bottles Time see hours

Company Contact P. H. Butcher

Telephone (509) 376-5045 bottles

Sample Number	Number and Type of Sample Containers	Type of Sample*	Analysis Requested
+ B07251	1; 40ml; Gs;	WATER	HYDRAZINE (HCI) EM 0237
X B072L1			0238
X B072L6			0239
X B072X0			0240
X B072K6			0241
X B072H1			0242
X B072N6			0243
X B072P6			0244
X B072T6			0245
X B072Q6			0246
X B072U1			0247
X <del>B072PIA</del>			<del>0248</del>
X B072M6			2/19/93 0249
X B072W1			0250
X B072Q1			0251
X B072X6	✓	✓	✓ 0252
			OPC: # W93-0-0226-19
			BOL: # 2519007997
			TASK#: 92-379 w/ 2/19/93

Field Information\*\*

Special Handling and/or Storage

Possible Sample Hazards

PART II: LABORATORY SECTION

Received by [Signature] Title \_\_\_\_\_ Date 2-4-93

Analysis Required \_\_\_\_\_

\* Indicate whether sample is soil, sludge, water, etc.  
\*\* Use back of page for additional information relative to sample location.



Westinghouse Hanford Company	<b>CHAIN OF CUSTODY</b>	<b>000005</b>
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Custody Form Initiator <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>1/30/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>	Field Logbook No. <b>EFL 10's 6</b>
Ice Chest No. <b>90-Jem</b>	Offsite Property No. <b>W93-0-0226-19</b>
Bill of Lading/Airbill No. <b>25100U7997</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks <b>N/A</b>	

Sample Identification

**BOZSI**  
1, 40ml, G, WATER, HYDRAZINE

[ ] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/30/93 1315</b> <i>[Signature]</i> <b>C. HAMILTON</b>	Received by: <i>[Signature]</i> <b>K. Trapp / K. Trapp</b>	Date/Time: <b>2/3/93 0900</b>
Relinquished by: <b>2/3/93</b> <i>[Signature]</i> <b>K. Trapp / K. Trapp 084</b>	Received by: <i>[Signature]</i>	Date/Time: <b>2-5-93 / 2-4-93 / 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <b>on ice cooler # 5ml - <del>142</del> 142</b>		

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000006

Westinghouse  
Hanford Company

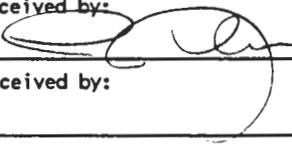
CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 30 Tom  
 Bill of Lading/Airbill No. 251-70077907  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/26/93  
 Field Logbook No. FKL-1036  
 Offsite Property No. W93-0-0220-1A

Sample Identification

BOTZLI  
 1, 40ml, G, WATER, HYDRAZINE

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/26/93 13506 K. Lee / K. Lee	Received by: K. Trapp / K. Trapp	Date/Time: 2/3/93 0800	
Relinquished by: 0809 K. Trapp / K. Trapp	Received by: 	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: Fc. 16. 1			

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>
Custody Form Initiator <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>1/26/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>	Field Logbook No. <b>RFL-4036</b>
Ice Chest No. <b>4) 30M</b>	Offsite Property No. <b>W93-0--20-19</b>
Bill of Lading/Airbill No. <b>251900-207</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks <b>N/A</b>	

Sample Identification

**B07ZL6**  
1, 40ml, G, WATER, HYDRAZINE (HCL)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/26/93</b> <i>Kelly Lee K Lee 1306</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/3/93 0800</i>
Relinquished by: <i>K. Trapp / K. Trapp 2/3/93</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 /1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>FIG # 1</i>		

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<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000008</b>
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Custody Form Initiator <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>1/21/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>	Field Logbook No. <b>ELC-1036</b>
Ice Chest No. <b>80 Tom</b>	Offsite Property No. <b>W93-0-0226-19</b>
Bill of Lading/Airbill No. <b>2919007997</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks <b>N/A</b>	

Sample Identification

**B07ZXO**  
1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. Colebert</i> C. Colebert	Received by: <i>K. Trapp</i> / K. Trapp	Date/Time: <i>2/19/93</i> 0800
Relinquished by: <i>K. Trapp</i> / K. Trapp <sup>0907</sup> <i>2/3/93</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93</i> / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-BC-5

Ice Chest No. ~~SMB-1~~ 80 Tom wt 2/2/93

Bill of Lading/Airbill No. 2519007997

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 1/24/93

Field Logbook No. 880-1056

Offsite Property No. W93-0-226-19

Sample Identification

BO7ZK6

1, 40ml, G, WATER, HYDRAZINE

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. Calabrese</i> C. CALABRESE	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: 2/3/93 0900	
Relinquished by: <i>K. Trapp / K. Trapp</i> 2/3/93	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments:			

Westinghouse Hanford Company	<b>CHAIN OF CUSTODY</b>	<b>000010</b>
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Custody Form Initiator <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>1/23/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>	Field Logbook No. <b>EFL-1036</b>
Ice Chest No. <b>90 TEM</b>	Offsite Property No. <b>W93-C-0320-10</b>
Bill of Lading/Airbill No. <b>2512007907</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks <b>N/A</b>	

Sample Identification

**B07ZH1**  
1, 40ml, G, WATER, HYDRAZINE (H<sub>2</sub>L)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/23/93 1440</b> <i>Kathy P Lee KID LLC</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <b>2/7/93 0900</b>
Relinquished by: <i>K. Trapp / K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: <b>2-4-93 / 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <b>File # 5</b>		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 90 56M  
 Bill of Lading/Airbill No. 2519007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/23/93  
 Field Logbook No. EFL-1036  
 Offsite Property No. W93-0-0220-14

Sample Identification

B07ZNB  
 1, 40ml, G, WATER, HYDRAZINE (HCL)

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/23/93 Kathy P. Lee K.D. Lee 1438	Received by: H. Trapp / H. Trapp	Date/Time: 2/3/93 0900	
Relinquished by: 2/4/93 H. Trapp / H. Trapp 0911	Received by: [Signature]	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRIB # 4			

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000012</b>
Custody Form Initiator <b>PH BUTCHER</b>		
Company Contact <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>	
Project Designation/Sampling Locations <b>100-BC-5</b>	Collection Date <b>1/22/93</b>	
Ice Chest No. <b>90 JCM</b>	Field Logbook No. <b>FL-1036</b>	
Bill of Lading/Airbill No. <b>291900-907</b>	Offsite Property No. <b>W93-0-0220-19</b>	
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**BO 72PG**  
 1, 40ml, G, WATER, HYDRAZINE (H<sub>2</sub>L)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/22/93</b> <i>M. A. ...</i>	Received by: <i>K. Trapp</i>	Date/Time: <b>2/3/93 0900</b>
Relinquished by: <b>2/3/93</b> <i>K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: <b>2-4-93 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

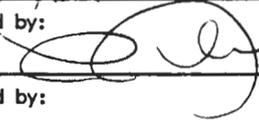
Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <b>FR. 16.44 4</b>		

Westinghouse Hanford Company	<b>CHAIN OF CUSTODY</b>	<b>000013</b>
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Custody Form Initiator <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>2-2-93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>	Field Logbook No. <b>EP-1037</b>
Ice Chest No. <b>SAL 80 Tom 2/2/93</b>	Offsite Property No. <b>W93-0-0228-19</b>
Bill of Lading/Airbill No. <b>2919007997</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks <b>N/A</b>	

Sample Identification

**BO 7270**  
**1, 40ml, G, WATER, HYDRAZINE**

[ ] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>2/2/93 1535</b> <i>C. Colbert</i> <b>C. COLBERT</b>	Received by: <i>Ken Trapp / Ken Trapp</i>	Date/Time: <b>2/3/93 0800</b>
Relinquished by: <b>0911</b> <i>K. Trapp / K. Trapp 2/3/93</i>	Received by: 	Date/Time: <b>2-4-93 / 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

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

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-BC-5

Ice Chest No. ~~2519007947~~ 30 cm WT 2/2/93

Bill of Lading/Airbill No. 2519007947

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 1/22/93

Field Logbook No. EFL-1036

Offsite Property No. W93-0-0226-19

Sample Identification

BO 7226

1, 40ml, G, WATER, HYDRAZINE (H.L)

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: <i>[Signature]</i> 1/22/93 1200 <i>Kell Whitten B-UNIT</i>	Received by: <i>[Signature]</i> K. Trapp / K. Trapp	Date/Time: 2/9/93 0900
Relinquished by: <i>[Signature]</i> 2/3/93 <i>K. Trapp / K. Trapp 0411</i>	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

FRIGATE 5

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. *40 JCM*  
 Bill of Lading/Airbill No. *2519207997*  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date *EF-1037*  
 Field Logbook No. *1/21/93*  
 Offsite Property No. *W93-0-0726-19*

Sample Identification

BO7ZVI  
 1, 40ml, G, WATER, HYDRAZINE

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. Cellbert</i>	<i>1/2/93 1533</i> C. CELLBERT	Received by: <i>K. Trapp</i>	Date/Time: <i>2/9/93 0800</i>
Relinquished by: <i>K. Trapp</i>	<i>09/1</i> K. TRAPP	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 1200</i>
Relinquished by:		Received by:	Date/Time:
Relinquished by:		Received by:	Date/Time:

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

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000016</b>
Custody Form Initiator <b>PH BUTCHER</b>		
Company Contact <b>PH BUTCHER</b>		Telephone <b>(509)376-5045</b>
Project Designation/Sampling Locations <b>100-BC-5</b>		Collection Date <b>1/23/93</b>
Ice Chest No. <b>SO TOM</b>		Field Logbook No. <b>EFL-1036</b>
Bill of Lading/Airbill No. <b>2519007941</b>		Offsite Property No. <b>W93-5-0220-19</b>
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**BO7ZP1**  
1, 40ml, G, WATER, HYDRAZINE (HCL)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/23/93</b> <i>K. D. Lee</i> K. D. Lee 1432	Received by: <i>K. Trapp</i> / K. Trapp	Date/Time: <b>2/3/93 0800</b>
Relinquished by: <b>2/7/93</b> <i>K. Trapp</i> K. Trapp 0800	Received by: <i>[Signature]</i>	Date/Time: <b>2-7-93 / 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <b>ERIC #2</b>		

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000017</b>
Custody Form Initiator <b>PH BUTCHER</b>		Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>		Collection Date <b>EFL-10369</b>
Project Designation/Sampling Locations <b>100-BC-5</b>		Field Logbook No. <b>1/24/93</b>
Ice Chest No. <b>90 2m</b>		Offsite Property No. <b>W93-U-0220-19</b>
Bill of Lading/Airbill No. <b>2519007997</b>		
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**B07ZM6**  
1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. C. BEER</i> <i>C. C. Beer</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/17/93 0800</i>
Relinquished by: <i>K. Trapp / K. Trapp</i> <i>5/4/93</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 / 1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

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

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 51 40 TEM 2/3 19 93  
 Bill of Lading/Airbill No. 2512005997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1-24-93  
 Field Logbook No. 41 36  
 Offsite Property No. W93-0-0220-19

Sample Identification

BO 72W1  
 1, 40ml, G, WATER, HYDRAZINE

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: C. Celiberti C. CELIBERTI.	Received by: K. Trapp / K. Trapp	2/3/93 0800	Date/Time: 2/13/93 0800
Relinquished by: K. Trapp / K. Trapp	Received by:	0800	Date/Time: 2-4-93 / 1200
Relinquished by:	Received by:		Date/Time:
Relinquished by:	Received by:		Date/Time:
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments:			

9613455.2858

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000019</b>
Custody Form Initiator <b>PH BUTCHER</b>		Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>		Collection Date <b>1/23/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>		Field Logbook No. <b>FPL-1036</b>
Ice Chest No. <b>8A 30 Temp Ki 2/19/93</b>		Offsite Property No. <b>W93-0-276-10</b>
Bill of Lading/Airbill No. <b>2319007997</b>		
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**B07201**  
1, 40ml, G, WATER, HYDRAZINE (HCL)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/23/93 1435 Kathy Lee K.O. Lee</b>	Received by: <b>K. Trapp / K. Trapp</b>	Date/Time: <b>2/19/93 0800</b>
Relinquished by: <b>OTC K. Trapp / K. Trapp 2/19/93</b>	Received by: <b>[Signature]</b>	Date/Time: <b>2-4-93 / 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <b>FRIG # ON ICE COOLER # 506 - 83</b>		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000020

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 40 Jem  
 Bill of Lading/Airbill No. 2519007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1-28-93  
 Field Logbook No. EFL-1037  
 Offsite Property No. W93-C-0220-19

Sample Identification

BO 7EX6  
 1, 40ml, G, WATER, HYDRAZINE

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: L. D. Walker 1100 1-28-93 <i>LD Walker</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: 2/19/93 0800
Relinquished by: 0800 <i>K. Trapp / K. Trapp 2/19/93</i>	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000021

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 80 Tom  
 Bill of Lading/Airbill No. 2-12007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1-28-93  
 Field Logbook No. EFL-1037  
 Offsite Property No. W93-01-0226-19

Sample Identification

BO7Z-Y1  
 1, 40ml, G, WATER, HYDRAZINE

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>L.D. Walker</i> 1-28-93	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/3/93 0900</i>	
Relinquished by: <i>K. Trapp / K. Trapp</i> 2/3/93	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 1200</i>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>Refrig. #4</i>			

9613455.2861

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000022</b>
Custody Form Initiator <b>PH BUTCHER</b>		
Company Contact <b>PH BUTCHER</b>		Telephone <b>(509)376-5045</b>
Project Designation/Sampling Locations <b>100-BC-5</b>		Collection Date <b>1/29/93</b>
Ice Chest No. <b>90 Jem</b>		Field Logbook No. <b>86-1036 D40</b>
Bill of Lading/Airbill No. <b>2519007997</b>		Offsite Property No. <b>W93-U-0220-19</b>
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**BO 7ZPi**  
1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>1-29-93</i> <i>Richard C. Casseri</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/7/93 0800</i>
Relinquished by: <i>0911 2/2/93</i> <i>K. Trapp / K. Trapp / K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 / 1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>ret #4</i>		

9613455-2862

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000023

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 1/28/93

Ice Chest No. 90 Ice

Field Logbook No. EFL1054

Bill of Lading/Airbill No. 2819007997

Offsite Property No. W93-0-0220-19

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BO7R95

1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1-21-93 <i>G. G. Hamilton</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/17/93 0900</i>	
Relinquished by: 0900 <i>K. Trapp / K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-17-93 / 1200</i>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>FRIG # 1</i>			

9613455.2063

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

~~000024~~

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 1/22/93

Ice Chest No. 90 Jem

Field Logbook No. EFL 1054

Bill of Lading/Airbill No. 2514007797

Offsite Property No. W93-0-0220-19

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

#### Sample Identification

BO7R60

1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/22/93 1415 <i>GG Hamilton</i> GG HAMILTON	Received by: <i>K Trapp</i> K. Trapp	Date/Time: 2/7/93 0900	
Relinquished by: 0900 <i>K. Trapp</i> K. Trapp 2/7/93	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: FRIG # 1		



DATA QUALIFICATION SUMMARY

UNIT: 100-BC-5

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-168

ANALYSES: Wet Chemistry

RFW NO.: B07ZS1-DAT-229

SDG NO.: B07ZH1

QUALIFICATION SUMMARY:WET CHEMISTRY

SAMPLE NUMBERS:        B07ZH1,    B07ZK6,    B07ZL1,    B07ZL6,    B07ZM6,  
                          B07ZN6,    B07ZP1B,    B07ZP6,    B07ZQ1,    B07ZQ6,  
                          B07ZS1,    B07ZT6,    B07ZV1,    B07ZW1,    B07ZX0,  
                          B07ZX6,    B07ZY1

CONTINUING CALIBRATION VERIFICATION

CCVs and CCBs were not analyzed at the proper frequency for hydrazine analysis of samples in SDG No. B07ZH1. All associated sample results have been qualified as estimates and flagged "J".

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000005</b>
Custody Form Initiator <b>PH BUTCHER</b>		
Company Contact <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>	
Project Designation/Sampling Locations <b>100-BC-5</b>	Collection Date <b>1/30/93</b>	
Ice Chest No. <b>80-JCM</b>	Field Logbook No. <b>EFL 1036</b>	
Bill of Lading/Airbill No. <b>2519007997</b>	Offsite Property No. <b>W93-0-0226-19</b>	
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**BO7Z51**  
1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/30/93 1315</b> <i>[Signature]</i> <b>C. HAMILTON</b>	Received by: <i>[Signature]</i> <b>K. Trapp / K. Trapp</b>	Date/Time: <b>2/3/93 0800</b>
Relinquished by: <b>2/9/93</b> <i>[Signature]</i> <b>K. Trapp / K. Trapp</b> <b>084</b>	Received by: <i>[Signature]</i>	Date/Time: <b>2-5-93 / 2-4-93 / 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <b>OW ice cooler # 5mL - <del>142</del> 142</b> <span style="float: right;"><small>KAL 1/30/93</small></span>		

Westinghouse  
Hanford Company

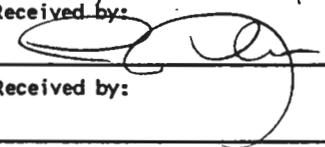
CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 80 Jem  
 Bill of Lading/Airbill No. 2519007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/26/93  
 Field Logbook No. FEL-1036  
 Offsite Property No. W93-0-0226-19

Sample Identification

B07ZL1  
 1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/26/93 1:30 K. Lee K. Lee	Received by: K. Trapp / K. Trapp	Date/Time: 2/3/93 0800	
Relinquished by: 0809 K. Trapp / K. Trapp 2/3/93	Received by: 	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FEL 16. 1			

Westinghouse  
Hanford Company

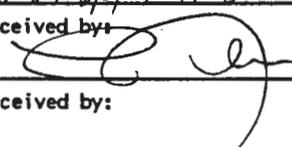
CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 80 Jem  
 Bill of Lading/Airbill No. 2519007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/26/93  
 Field Logbook No. EFL-4036  
 Offsite Property No. W93-0-0226-19

Sample Identification

BOTTL6  
 1, 40ml, G, WATER, HYDRAZINE (HCL)

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/26/93 K. D. Lee K.D. Lee 1306	Received by: K. Trapp / K. Trapp	Date/Time: 2/3/93 0800	
Relinquished by: 0911 K. Trapp / K. Trapp 2/3/93	Received by: 	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: F21 G. # 1		

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000008</b>
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Custody Form Initiator <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>1/24/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>	Field Logbook No. <b>EPC-1036</b>
Ice Chest No. <b>80 Tem</b>	Offsite Property No. <b>W93-0-0226-19</b>
Bill of Lading/Airbill No. <b>2519007997</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks <b>N/A</b>	

Sample Identification

**B07ZX0**  
1, 40ml, G, WATER, HYDRAZINE

[ ] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. Calbert C. Calbert</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/3/93 0800</i>
Relinquished by: <i>K. Trapp / K. Trapp 2/3/93</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 / 1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

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

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-BC-5

Ice Chest No. ~~SMB~~ 80 Tem w/ 2/9/93

Bill of Lading/Airbill No. 2919007997

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 1/24/93

Field Logbook No. 86-1036

Offsite Property No. W93-0-0226-19

Sample Identification

BO7ZK6

1, 40ml, G, WATER, HYDRAZINE

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. Celebreth</i> C. CELEBRETH	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: 2/3/93 0800	
Relinquished by: <i>K. Trapp / K. Trapp</i> 2/3/93	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition

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

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000010

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 80 Jem  
 Bill of Lading/Airbill No. 2519007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/23/93  
 Field Logbook No. EFL-1036  
 Offsite Property No. W93-O-0226-19

Sample Identification

B07ZH1  
 1, 40ml, G, WATER, HYDRAZINE (HCL)

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

Relinquished by: 1/23/93 1440 <i>Kathy D. Lee K.D. Lee</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: 2/7/93 0900
Relinquished by: 2/3/93 <i>K. Trapp / K. Trapp 0811</i>	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <i>FR. 6. # 5</i>		

Westinghouse  
Hanford Company

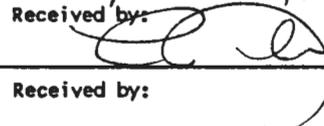
CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 90 Jem  
 Bill of Lading/Airbill No. 2519007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/23/93  
 Field Logbook No. EFL-1036  
 Offsite Property No. W93-0-0226-19

Sample Identification

B07ZNB  
 1, 40ml, G, WATER, HYDRAZINE (HCL)

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/23/93 Kathy P. Lee K.D. Lee 1438	Received by: K. Trapp / K. Trapp	Date/Time: 2/9/93 0900	
Relinquished by: 2/9/93 K. Trapp / K. Trapp 0911	Received by: 	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: FR16.# 9		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

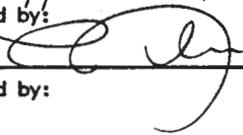
000012

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 80 Tem  
 Bill of Lading/Airbill No. 2519007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/22/93  
 Field Logbook No. ER-1036  
 Offsite Property No. W93-0-0226-19

Sample Identification

BO 7ZPC  
 1, 40ml, G, WATER, HYDRAZINE (HCL)

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/22/93 Kathy A. Lee K. Lee 1200	Received by: K. Trapp / K. Trapp	Date/Time: 2/3/93 0900	
Relinquished by: 2/3/93 K. Trapp / K. Trapp 0811	Received by: 	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method: 1	Disposed by:	Date/Time:
Comments: FRIG. # 4		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000013

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-BC-5

Ice Chest No. ~~SAL~~ 80 Tom KT 2/2/93

Bill of Lading/Airbill No. 2519007997

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 1-22-93

Field Logbook No. EL-1037

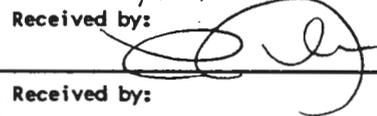
Offsite Property No. W93-0-0226-19

Sample Identification

BO 72T6

1, 40ml, G, WATER, HYDRAZINE

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

Relinquished by: 12/93 1535 C. Celbert C. CELBERT	Received by: Ken Trapp / Ken Trapp	Date/Time: 2/3/93 0800
Relinquished by: OFU K. Trapp / K. Trapp 2/2/93	Received by: 	Date/Time: 2-4-93 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

**Westinghouse Hanford Company** **CHAIN OF CUSTODY**

Custody Form Initiator **PH BUTCHER**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-BC-5**  
 Ice Chest No. *2519007997 80 JCM WT 2/9/93*  
 Bill of Lading/Airbill No. *2519007997*  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks **N/A**

Telephone **(509)376-5045**  
 Collection Date *1/22/93*  
 Field Logbook No. *EFL-1036*  
 Offsite Property No. *W93-0-0226-19*

Sample Identification

BO *7266*  
 1, 40ml, G, WATER, HYDRAZINE (HCL)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>[Signature] 1/22/93 1200</i> <i>Kell Whitten B-WHITE</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/9/93 0800</i>
Relinquished by: <i>2/13/93</i> <i>K. Trapp / K. Trapp 0811</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93/1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method: <i>i</i>	Disposed by:	Date/Time:
Comments: <i>FRIGATE 5</i>		

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator **PH BUTCHER**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **100-BC-5**  
 Ice Chest No. **SP 80 Jan 22 7/9/93**  
 Bill of Lading/Airbill No. **2519007997**  
 Method of Shipment **EMERY**  
 Shipped to **DATA CHEM**  
 Possible Sample Hazards/Remarks **N/A**

Telephone **(509)376-5045**  
 Collection Date **EF-1037** ↑  
 Field Logbook No. **1/22/93** ↓  
 Offsite Property No. **W93-0-0226-19**

#### Sample Identification

**BO 72VI**  
**1, 40ml, G, WATER, HYDRAZINE**

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/22/93 1533</b> <i>C. Cellbert</i> C. CELLBERT	Received by: <i>K. Trapp</i> / K. Trapp	Date/Time: <b>2/9/93 0900</b>	
Relinquished by: <b>0911</b> <i>K. Trapp</i> / K. Trapp <b>2/9/93</b>	Received by: <i>[Signature]</i>	Date/Time: <b>2-4-93 11200</b>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

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

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

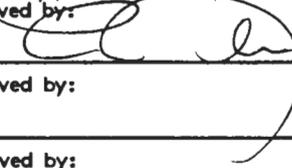
000016

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-BC-5  
 Ice Chest No. 80 JCM  
 Bill of Lading/Airbill No. 2519007947  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/23/93  
 Field Logbook No. EPL-1036  
 Offsite Property No. W93-0-0226-19

Sample Identification

BO7ZP1  
 1, 40ml, G, WATER, HYDRAZINE (HCL)

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/23/93 K. Lee / K. Lee 1432	Received by: K. Trapp / K. Trapp	Date/Time: 2/7/93 0800	
Relinquished by: 2/7/93 K. Trapp / K. Trapp 0800	Received by: 	Date/Time: 2-7-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: ERIG. #2		

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000017</b>
Custody Form Initiator <b>PH BUTCHER</b>		Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>		Collection Date <b>EFL-10349</b>
Project Designation/Sampling Locations <b>100-BC-5</b>		Field Logbook No. <b>1/24/93</b>
Ice Chest No. <b>90 Jem</b>		Offsite Property No. <b>W93-0-0226-19</b>
Bill of Lading/Airbill No. <b>2519007997</b>		
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**B07ZM6**  
1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. CILIBERT</i> <b>C. Cilibert</b>	Received by: <i>K. Trapp</i> <b>K. Trapp</b>	Date/Time: <b>2/7/97 0800</b>
Relinquished by: <i>K. Trapp</i> <b>K. Trapp</b> <sup>2/7/97</sup>	Received by: <i>[Signature]</i>	Date/Time: <b>2-7-97 / 1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

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

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000018

Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-BC-5

Ice Chest No. *SK 90 Tem 2/9/97 KE*

Bill of Lading/Airbill No. *2519007997*

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 1-24-93

Field Logbook No. *1136*

Offsite Property No. W93-0-0226-19

#### Sample Identification

BO 72W1

1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C. Celebert</i> C. CELEBERT	Received by: <i>K. Trapp</i> / <i>K. Trapp</i> 0800	Date/Time: <i>2/9/97</i>	<i>2/9/97 0800</i>
Relinquished by: <i>K. Trapp</i> / <i>K. Trapp</i> 2/9/97	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 / 1200</i>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments:			

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000019</b>
Custody Form Initiator <b>PH BUTCHER</b>		Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>		Collection Date <b>1/23/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>		Field Logbook No. <b>EPL-1036</b>
Ice Chest No. <b>SA 30 Jan Ki 2/9/93</b>		Offsite Property No. <b>W93-0-0226-19</b>
Bill of Lading/Airbill No. <b>2519007997</b>		
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**B072Q1**  
**1, 40ml, G, WATER, HYDRAZINE (HCL)**

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <b>1/23/93 1435</b> <i>Kathy D. Lee K.D. Lee</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <b>2/9/93 0800</b>
Relinquished by: <b>0901</b> <i>K. Trapp / K. Trapp 2/9/93</i>	Received by: <i>[Signature]</i>	Date/Time: <b>2-4-93 /1200</b>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <b>FRIG. # ON ICE COOLER # 5ML - 83</b>		

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

~~000020~~

Custody Form Initiator PH BUTCHER  
Company Contact PH BUTCHER  
Project Designation/Sampling Locations 100-BC-5  
Ice Chest No. 80 Tom  
Bill of Lading/Airbill No. 2519007997  
Method of Shipment EMERY  
Shipped to DATA CHEM  
Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
Collection Date 1-28-93  
Field Logbook No. EFL-1037  
Offsite Property No. W93-0-0226-19

Sample Identification

BO 72X6  
1, 40ml, G, WATER, HYDRAZINE

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

Relinquished by: L. D. Walker 1100 1-28-93 <i>L.D. Walker</i>	Received by: K. Trapp / K. Trapp	Date/Time: 2/7/93 0800
Relinquished by: 0800 K. Trapp / K. Trapp 2/7/93	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

<b>Westinghouse Hanford Company</b>	<b>CHAIN OF CUSTODY</b>	<b>000021</b>
Custody Form Initiator <b>PH BUTCHER</b>		
Company Contact <b>PH BUTCHER</b>		Telephone <b>(509)376-5045</b>
Project Designation/Sampling Locations <b>100-BC-5</b>		Collection Date <b>1-28-93</b>
Ice Chest No. <b>80 Jen</b>		Field Logbook No. <b>EFL-1037</b>
Bill of Lading/Airbill No. <b>2519007997</b>		Offsite Property No. <b>W93-0-0226-19</b>
Method of Shipment <b>EMERY</b>		
Shipped to <b>DATA CHEM</b>		
Possible Sample Hazards/Remarks <b>N/A</b>		

Sample Identification

**BO7ZY1**  
1, 40ml, G, WATER, HYDRAZINE

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>L.D. Walker</i> 1-28-93 <i>L.D. Walker</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/7/93 0800</i>
Relinquished by: <i>K. Trapp / K. Trapp</i> <i>0800</i> <i>2/7/93</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 / 1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method: <i>!</i>	Disposed by:	Date/Time:
Comments: <i>Refrig. #4</i>		

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Westinghouse Hanford Company	<b>CHAIN OF CUSTODY</b>	<b>000022</b>
---------------------------------	-------------------------	---------------

Custody Form Initiator <b>PH BUTCHER</b>	Telephone <b>(509)376-5045</b>
Company Contact <b>PH BUTCHER</b>	Collection Date <b>1/25/93</b>
Project Designation/Sampling Locations <b>100-BC-5</b>	Field Logbook No. <b>EFL-1036 Dup</b>
Ice Chest No. <b>80 Jem</b>	Offsite Property No. <b>W93-0-0226-19</b>
Bill of Lading/Airbill No. <b>2919007997</b>	
Method of Shipment <b>EMERY</b>	
Shipped to <b>DATA CHEM</b>	
Possible Sample Hazards/Remarks <b>N/A</b>	

Sample Identification

**BO 7ZPI**  
**1, 40ml, G, WATER, HYDRAZINE**

[ ] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>1-29-93</i> <i>C. Calbed e. ceasar. no</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/9/93 0800</i>
Relinquished by: <i>0911 2/9/93</i> <i>K. Trapp / K. Trapp / K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 / 1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>ref #4</i>		

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Westinghouse  
Hanford Company

# CHAIN OF CUSTODY

000023

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-FR-3  
 Ice Chest No. 90 Tem  
 Bill of Lading/Airbill No. 2919007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/28/93  
 Field Logbook No. EFL1054  
 Offsite Property No. W93-0-0226-19

### Sample Identification

BO7R95  
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1-29-93 <i>GG Hamilton</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>2/3/93 0900</i>	
Relinquished by: 0909 <i>K. Trapp / K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: <i>2-4-93 / 1200</i>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>FRIG # 1</i>		

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Westinghouse  
Hanford Company

### CHAIN OF CUSTODY

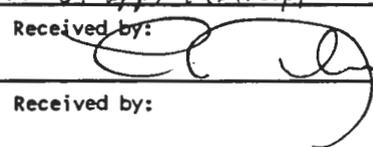
~~000024~~

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER  
 Project Designation/Sampling Locations 100-FR-3  
 Ice Chest No. 90 Jen  
 Bill of Lading/Airbill No. 2T19007997  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
 Collection Date 1/28/93  
 Field Logbook No. EFL 1054  
 Offsite Property No. W93-0-0226-19

#### Sample Identification

BO7R60  
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 1/28/93 1415 G.C. Hamilton	Received by: K. Trapp/K. Trapp	Date/Time: 2/7/93	0800
Relinquished by: 0800 K. Trapp/K. Trapp 2/7/93	Received by: 	Date/Time: 2-4-93	1-200
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRIG #1			

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Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000025

Custody Form Initiator PH BUTCHER  
Company Contact PH BUTCHER  
Project Designation/Sampling Locations 100-FR-3  
Ice Chest No. 80 Jem  
Bill of Lading/Airbill No. 2519007997  
Method of Shipment EMERY  
Shipped to DATA CHEM  
Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
Collection Date ~~1/19/93~~ 1/28/93  
Field Logbook No. EPL-1054  
Offsite Property No. W93-0-0226-19

Sample Identification

B07R65  
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>[Signature]</i> 1/28/93 <i>[Signature]</i> K. O. Lee	Received by: K. Trapp / K. Trapp	Date/Time: 0900 2/7/93	
Relinquished by: K. Trapp / K. Trapp 2/7/93	Received by: <i>[Signature]</i>	Date/Time: 2-4-93 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRLG. #			



Westinghouse  
Hanford Company

SAMPLE ANALYSIS REQUEST **000003**

**PART I: FIELD SECTION**

Collector K. Lee, L. Walker

Date Sampled see bottles Time see hours

Company Contact P. H. Butcher

Telephone (509) 376-5045 bottles

Sample Number	Number and Type of Sample Containers	Type of Sample *	Analysis Requested
+ B07251	1; 40ml; Gs;	WATER	HYDRAZINE (HCl) EM 0237
X B072L1			0238
X B072L6			0239
X B072X0			0240
X B072K6			0241
X B072H1			0242
X B072N6			0243
X B072P6			0244
X B072T6			0245
X B072Q6			0246
X B072U1			0247
<del>X B072PIA</del>			<del>0248</del>
X B072M6			0249
X B072W1			0250
X B072Q1			0251
X B072X6	✓	✓	0252
			OPC: # W93-0-0226-19
			BOL: # 251900 7997
			TASK#: 92-379 wt 2/9/93

*Cancelled  
per 2/9/93*

Field Information \*\*

Special Handling and/or Storage

Possible Sample Hazards

**PART II: LABORATORY SECTION**

Received by [Signature] Title \_\_\_\_\_ Date 2-4-93

Analysis Required \_\_\_\_\_

\* Indicate whether sample is soil, sludge, water, etc.  
\*\* Use back of page for additional information relative to sample location.



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000001

DF 6/15/93



ENVIRONMENTAL WATER REPORT

Form EPRW-A Page 1 of 3 Part 1 of 3

Date FEB 26 1993

Agency Identification Number S93-0068

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 January 22, 1993

Date Samples Received at Laboratory February 04, 1993

Analytical Results

Table with columns for Parameter Name, Analysis Date, Units, Method, Prep Method, Field Number, Lab Number, and results for Hydrazine at various sites (B07ZS1, B07ZL1, B07ZL6, B07ZX0, B07ZK6, B07ZH1, B07ZN6, B07ZP6).

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

RECORD COPY

Analyst: Mark A. Hixon
Reviewer: Kathrine Kellersberger
Laboratory supervisor: Norman K. Christensen



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 3  
Part 2 of 3

FEB 26 1993

Date \_\_\_\_\_  
Agency Identification Number S93-0068  
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 January 22, 1993  
Date Samples Received at Laboratory February 04, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Lab Number										
Hydrazine	02/16/1993	µg/L	ASTMD1385		B07ZT6	EM 0245	ND*									
					B07ZQ6	EM 0246	3.0 UJ									
<p><i>T = Insufficient for CRV/2K analysis</i></p> <p><i>7/21/93</i></p>																
					B07ZV1	EM 0247										
					B07ZM6	EM 0249										
					B07ZW1	EM 0250										
					B07ZQ1	EM 0251										
					B07ZX6	EM 0252										
					B07ZY1	EM 0253										

† 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.)



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 3 of 3

Part 3 of 3

Date FEB 26 1993

Agency Identification Number S93-0068

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 January 22, 1993

Date Samples Received at Laboratory February 04, 1993

Analytical Results

Parameter Name	Field Number	Lab Number	Field Number	Lab Number	Field Number	Lab Number	Field Number	Lab Number	Limit of Detection
Hydrazine 02/16/1993 ASTMD1385		B07ZP1B EM 0254	B07R95 EM 0255	B07R60 EM 0256	B07R65 EM 0257				3.
	µg/L	ND*	ND*	ND*	ND*				
		3.0 uJ							

† 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 1 of 3
Part 1 of 3

Date
Agency Identification Number S93-0068
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 January 22, 1993
Date Samples Received at Laboratory February 04, 1993

Analytical Results

Table with columns for Parameter Name, Analysis Date, Method, Field Number, Lab Number, and results for Hydrazine (ND\*) across multiple samples.

† 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: Mark A. Hixon
Reviewer: Katherine Kellersberger

Laboratory Supervisor: Norman K. Christensen

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000003



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 3

Part 2 of 3

Date \_\_\_\_\_

Agency Identification Number S93-0068

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 January 22, 1993

Date Samples Received at Laboratory February 04, 1993

Analytical Results

Parameter Name	Units	Method	Prep Method	Field Number	Lab Number	✓	✓	✓	✓	✓	✓	✓
Hydrazine	µg/L	ASTMD1385		B072T6	EM 0245	ND*						
				B072Q6	EM 0246	3.0 UJ						
				B072V1	EM 0247							
				B072M6	EM 0249							
				B072W1	EM 0250							
				B072Q1	EM 0251							
				B072X6	EM 0252							
				B072Y1	EM 0253							

† 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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000004



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 3 of 3

Part 3 of 3

Date \_\_\_\_\_  
 Agency Identification Number S93-0068  
 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 January 22, 1993

Date Samples Received at Laboratory February 04, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number Lab Number	B07ZP1 EM 0254	B07R95 EM 0255	B07R60 EM 0256	B07R65 EM 0257	Limit of Detection
Hydrazine	02/16/1993	µg/L	ASTMD1385			ND*	ND*	ND*	ND*	3.
<del>7/1/10</del>										

† 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: WESTINGHOUSE-HANFORD	REVIEWER: LM	DATE: 7/31/93
LABORATORY: Data Chem	CASE:	SDG: B07ZH1
SAMPLES/MATRIX: B07ZH1, B07ZK6, B07ZL1, B07ZL6,		
B07ZM6, B07ZNG, B07ZP1, B07ZP6,		
B07ZQ1, B07ZQ6, B07ZS1, B07ZT6,		
B07ZV1, B07ZW1, B07ZX0, B07ZX6, B07ZY1		
17 Water samples		

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			✓	
Cover Page		✓		
Traffic Reports/Chain-of-Custody		✓		
Sample Analysis Data Report Forms		✓		
Standards Data		✓		
QC Summary				
Blanks Summary Report Forms		✓		
Spike Sample Recovery Report Forms		✓		
Duplicate Sample Analysis Report Forms		✓		
Laboratory Control Sample Report Forms		✓		
Raw Data				
Ion Chromatograph Chromatograms				✓
TOC and TOX Instrument Printouts				✓
Laboratory Bench Sheets		✓		
Additional Data				
Laboratory Sample Preparation Logs		✓		
Instrument Run Logs		✓		
Internal Laboratory Chain-of-Custody		✓		
Percent Solids Analysis Records				✓
Reduction Formulae			✓	
Chemist Notebook Pages		✓		

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  $\geq 0.995$ ?

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).

**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):

1. CCV/CCB at beginning and end of run  
1 every 27 samples.

Should be 1 every ten.

Samples were qualified as estimates  
and flagged "J"

2. Require reduction formulae from NABS to  
ng/L

3. B07ZP1 ~~is~~ was changed to B07ZP1B  
as per non-conformance summary.

Originally two samples marked B07ZP1  
One sampled on 1/23/93 was changed to B07ZP1A  
and one sampled on 1/29/93 was changed to  
B07ZP1B. Later B07ZP1A was canceled.