

START

13530.2652

B07R85-DAT-2/6 00003

0046666

Form EPRW-A
Page 1 of 2
Part 1 of 2



ENVIRONMENTAL WATER REPORT

JAN 13 1993

Date

Agency Identification Number S92-0980

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan



Telephone (509) 373-3225

Sampling Collection and Shipment
Sampling Site Hanford Date of Collection December 14, 1992
Date Samples Received at Laboratory December 19, 1992

Analytical Results

Parameter Name	Field Number	Lab Number	B07R85	B07RB5	B07QY8	B07R75	B07RFO	B07R70	B07R80	B07RGO
Analysis Date	Units		EL 5734	EL 5735	EL 5736	EL 5737	EL 5738	EL 5739	EL 5740	EL 5741
Method	Prep Method									
Hydrazine			ND*							
01/04/1993	µg/L									
ASTMD1385										

† 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.)

RECORD COPY

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

9713530.2654



ANALYTICAL REQUEST FORM

1. REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 12/16/92 Purchase Order No. _____

3. Company Name WESTINGHOUSE

Address PO BOX 1970
Richland WA 99352

Person to Contact P.H. Butcher

Telephone (509) 582-5955

Fax Telephone (509) 376-7893

Billing Address (if different from above) _____

4. Sample Collection

Sampling Site HANFORD

Industrial Process NA

Date of Collection N/A

Time Collected NA

Date of Shipment 12/16/92

Chain of Custody No. N/A

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EL 5734	B07R85	WATER	40ml	HYDRAZINE
5735	B07R85			
5736	B07Q48			
5737	B07R75			
5738	B07RFD			
5739	B07R70			
5740	B07R80			
5741	B07R60			
5742	B07RHO			
5743	B07R65			
5744	B07RKA			
5745	B07RJO			

*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

6. QC REQUIREMENTS
MUST BE COMPLETED - See
General Services Terms and
Conditions: QC samples billed
at regular sample rate

- METHOD QC SAMPLES
(Lab QC according to published methods)
- PROJECT PLAN QC SAMPLES
(Lab QC according to provided QA/QC Plan)
- NO QC SAMPLES REQUESTED
(May not conform to Agency requirements)

OTHER (as specified below)

Comments _____

Possible Contamination and/or Chemical Hazards HYDRAZINE

7. Requested by P.H. Butcher

960 West LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801-266-7700 / FAX: 801-268-9992
 4388 Glendale-Milford Road / Cincinnati, OH 45242 800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

Westinghouse
Hanford Company

9713530.2655

CHAIN OF CUSTODY

00009

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. ~~SML-245A~~ 12/18/92 SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/17/92

Field Logbook No. RFL-1054

Offsite Property No. W93-0-0151-25

Sample Identification

BO 7R85

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

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>[Signature]</i> K.D. Lee	Received by: Refrig. #2	Date/Time: 12-17-92 / 1400
Relinquished by: AJ SIMPSON <i>[Signature]</i>	Received by: <i>[Signature]</i> T. Jackson	Date/Time: 12-19-92 / 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

9715530.2656

CHAIN OF CUSTODY

00010

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 12-17-92

Ice Chest No. SML-275

Field Logbook No. EFL-1054

Bill of Lading/Airbill No. ZS19007865

Offsite Property No. W93-0-0151-25

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BO 7RB5

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

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: L.D. Walker <i>L.D. Walker</i>	Received by: Re Frig. # 1	Date/Time: 12-17-92 / 1400
Relinquished by: AJ SIMPSON <i>AJ Simpson</i>	Received by: <i>J. Jackson</i>	Date/Time: 12-19-92 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments:		

9713530.2657

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00011

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/16/92

Field Logbook No. EFL-1055

Offsite Property No. W93-0-0151-25

Sample Identification

BO7 QY8

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

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: AJ SIMPSON <i>AJ Simpson</i>	Received by: T. Jackson <i>[Signature]</i>	Date/Time:	12-19-92 / 1200
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRIG #1			

Westinghouse
Hanford Company

9713530.2658

CHAIN OF CUSTODY

00012

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 12-16-92

Ice Chest No. 8ALL-275

Field Logbook No. EFL-1054

Bill of Lading/Airbill No. 2519007865

Offsite Property No. W93-D-0151-25

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BO 7R75

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

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>C.D. Walker</i> <i>C.D. Walker</i>	Received by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Date/Time: <i>12/18/92</i> <i>1008</i>	
Relinquished by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Received by: <i>T. Jackson</i> <i>[Signature]</i>	Date/Time: <i>12-19-92</i> <i>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>FR16 #2</i>			

Westinghouse
Hanford Company

9713530-2659

CHAIN OF CUSTODY

00013

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. ZS19007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/16/92

Field Logbook No. EFL-1055

Offsite Property No. W93-0-0151-25

Sample Identification

BO7RFO

1, 40ml, Gs, WATER, HYDRAZINE(HC1)

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

Relinquished by:	Received by:	Date/Time:
AJ SIMPSON <i>AJ Simpson</i>	<i>T. Jackson</i>	12-19-92 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: FRIG #2		

Westinghouse
Hanford Company

9715550.2660

CHAIN OF CUSTODY

00014

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SMA-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12-16-92

Field Logbook No. EFL-1054

Offsite Property No. W93-0-0151-25

Sample Identification

BO7R70

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

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: L.D. Walker <i>L.D. Walker</i>	Received by: Refrig. #3	Date/Time: 12-16-92 / 1410
Relinquished by: A.J. SIMPSON <i>A.J. Simpson</i>	Received by: T. Jackson <i>T. Jackson</i>	Date/Time: 12-19-92 / 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

9713530-2661

CHAIN OF CUSTODY

00015

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. ZS19007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12-16-92

Field Logbook No. EFL-1054

Offsite Property No. W93-D-C151-25

Sample Identification

BO 7P80

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

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: L.D. Walker <i>L.D. Walker</i>	Received by: AJSIMPSON <i>AJ Simpson</i>	Date/Time: 12/18/92 1012
Relinquished by: AJSIMPSON <i>AJ Simpson</i>	Received by: T. Jackson <i>T. Jackson</i>	Date/Time: 12-19-92/1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: FR, E, A1		

Westinghouse
Hanford Company

9713530.2662

CHAIN OF CUSTODY

• 0016

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/14/92

Field Logbook No. EFL-1054

Offsite Property No. W93-D-0151-25

Sample Identification

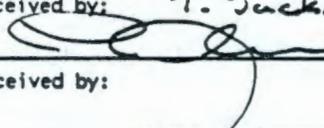
BO7RGO

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

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
<i>K.D. Lee</i> K.D. Lee	<i>AJ Simpson</i> AJ Simpson	12/18/92 1013
<i>AJ Simpson</i> AJ Simpson	<i>T. Jackson</i> 	12-19-92 / 1200
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>	

9713530 2663

00017

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. ZS19007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date ^{12 3:00 am} 10-15-92

Field Logbook No. EFL-1054

Offsite Property No. W93-0-0151-25

Sample Identification

BO7RHO

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

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: L.D. Walker <i>L.D. Walker</i>	Received by: AJSIMPSON <i>AJ Simpson</i>	Date/Time: 12/15/92 1014	
Relinquished by: AJSIMPSON <i>AJ Simpson</i>	Received by: T. Jackson <i>T. Jackson</i>	Date/Time: 12-19-92 / 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

9713530.2664

CHAIN OF CUSTODY

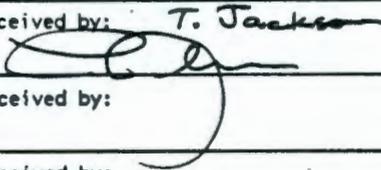
00018

Custody Form Initiator PH BUTCHER
Company Contact PH BUTCHER
Project Designation/Sampling Locations 100-FR-3
Ice Chest No. SML-275
Bill of Lading/Airbill No. 2519027865
Method of Shipment EMERY
Shipped to DATA CHEM
Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
Collection Date 12/15/92
Field Logbook No. EFL - 1055
Offsite Property No. W93-0-0151-25

Sample Identification

BO 7RGS
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession		(Sign and Print Names)
Relinquished by: <i>AJ Simpson</i> AJ SIMPSON	Received by: <i>T. Jackson</i> 	Date/Time: 12-19-92 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments:			

9713530.2665

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00019

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/14/92

Field Logbook No. EFL-1054

Offsite Property No. W93-0-0151-25

Sample Identification

BO7RK9

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

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K. D. Lee</i>	Received by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Date/Time: <i>12/15/92</i> <i>1015</i>	
Relinquished by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Received by: <i>T. Jackson</i> <i>[Signature]</i>	Date/Time: <i>12-19-92</i> <i>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>FCI #1</i>			

Westinghouse
Hanford Company

9713530-2666

CHAIN OF CUSTODY

• 00020 •

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/14/92

Field Logbook No. FFL-1054

Offsite Property No. W93-0-0151-25

Sample Identification

B07RJO

1, 40ml, Gs, WATER, HYDRAZINE(HC1)

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Kendy Lee K.O. Lee</i>	Received by: <i>AJSIMPSON</i> <i>AJSimpson</i>	Date/Time: 12/15/92 1015	
Relinquished by: <i>AJSIMPSON</i> <i>AJSimpson</i>	Received by: <i>T. Jackson</i> <i>[Signature]</i>	Date/Time: 12-19-92 / 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 16 H. 2</i>		

9713530.2667

DATA QUALIFICATION SUMMARY

UNIT: 100-KR-4

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-182

ANALYSES: Wet Chemistry

RFW NO.: S92-0980

SDG NO.: B07QY8

QUALIFICATION SUMMARY:

WET CHEMISTRY

SAMPLE NUMBERS: B07QY8

DATA PACKAGE COMPLETENESS

Hydrazine raw data were not provided for SDG No. B07QY8.
All associated hydrazine results were rejected and flagged
"R".

9713530.2668

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00011

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/16/92

Field Logbook No. EFL-1055

Offsite Property No. W93-0-0151-25

Sample Identification

BO7QY8

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

[] Field Transfer of Custody	Chain of Possession		(Sign and Print Names)
Relinquished by: AJ SIMPSON <i>AJ Simpson</i>	Received by: T. Jackson <i>[Signature]</i>	Date/Time:	12-19-92 / 1200
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRIG #1			

9713530.2669

ANALYTICAL REQUEST FORM

00008



1. REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 12/15/92 Purchase Order No. _____

3. Company Name WESTINGHOUSE

Address PO BOX 1970
Richland WA 99352

Person to Contact P.H. Butcher

Telephone (509) 582-5955

Fax Telephone (509) 376-7893

Billing Address (if different from above)

4. Sample Collection

Sampling Site HANFORD

Industrial Process NA

Date of Collection N/A

Time Collected NA

Date of Shipment 12/15/92

Chain of Custody No. N/A

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EL 5734	B07R95	WATER	40ml	HYDRAZINE
5735	B07R85			
5736	B07Q48			
5737	B07R75			
5738	B07RFO			
5739	B07R70			
5740	B07R80			
5741	B07R60			
5742	B07RHO			
5743	B07R65			
5744	B07RKA			
5745	B07R30			

*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

6. QC REQUIREMENTS
MUST BE COMPLETED - See
General Services Terms and
Conditions: QC samples billed
at regular sample rate

- METHOD QC SAMPLES
(Lab QC according to published methods)
- PROJECT PLAN QC SAMPLES
(Lab QC according to provided QA/QC Plan)
- NO QC SAMPLES REQUESTED
(May not conform to Agency requirements)
- OTHER (as specified below)
- _____
- _____

Comments _____

Possible Contamination and/or Chemical Hazards HYDRAZINE

7. Requested by P.H. Butcher

960 West LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801-266-7700 / FAX: 801-268-9992
4388 Glendale-Milford Road / Cincinnati, OH 45242 800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

DISTRIBUTION: WHITE - LABORATORY COPY CANARY - CUSTOMER COPY

9713530.2670



ENVIRONMENTAL WATER REPORT

Form EPRV-A
Page 1 of 2
Part 1 of 2

Date _____
Agency Identification Number S92-0980
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan



Telephone (509) 373-3225

Sampling Collection and Shipment
Sampling Site Hanford Date of Collection December 14, 1992
Date Samples Received at Laboratory December 19, 1992

Analytical Results

NV SC 1/14/93

Parameter Name	Units	Method	Prep Method	B07R85 ZL 5734	B07R85 ZL 5735	B07QY8 ZL 5736	B07R75 ZL 5737	B07RPO ZL 5738	B07R70 ZL 5739	B07R80 ZL 5740	B07R00 ZL 5741
Hydrazine	µg/L	ASTMD1385		ND*							

† 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 Hix
Analyst: Mark A. Hixon

Katherine Kellersberger
Reviewer: Katherine Kellersberger

Laboratory Supervisor: Norman K. Christensen

DATA QUALIFICATION SUMMARY

UNIT: 100-FR-3

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-175

ANALYSES: Wet Chemistry

RFW NO.: B07R85-DAT-216

SDG NO.: B07R70

QUALIFICATION SUMMARY:WET CHEMISTRY

SAMPLE NUMBERS: B07R70, B07R75, B07R80, B07R85, B07RB5,
B07RF0, B07RG0, B07RG5, B07RH0, B07RJ0, B07RK9

DATA PACKAGE COMPLETENESS

Hydrazine raw data were not provided for SDG No. B07R70. All associated hydrazine results have been rejected and flagged "R".



9713530.26

ANALYTICAL REQUEST FORM

00008

1. **REGULAR Status**

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 12/18/92 Purchase Order No. _____

3. Company Name WESTINGHOUSE

Address PO BOX 1970

Richland WA 99352

Person to Contact P.H. Butcher

Telephone (509) 582-5955

Fax Telephone (509) 376-7893

Billing Address (if different from above) _____

4. **Sample Collection**

Sampling Site HANFORD

Industrial Process NA

Date of Collection N/A

Time Collected NA

Date of Shipment 12/18/92

Chain of Custody No. N/A

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EL 5734	B07R85	WATER	40ml	HYDRAZINE
5735	B07R85			
5736	B07Q48			
5737	B07R75			
5738	B07RFO			
5739	B07R70			
5740	B07R80			
5741	B07R60			
5742	B07RH0			
5743	B07R65			
5744	B07RKA			
5745	B07RJO			

*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

6. **Q C REQUIREMENTS**

MUST BE COMPLETED - See
General Services Terms and
Conditions: QC samples billed
at regular sample rate

METHOD QC SAMPLES

(Lab QC according to published methods)

PROJECT PLAN QC SAMPLES

(Lab QC according to provided QA/QC Plan)

NO QC SAMPLES REQUESTED

(May not conform to Agency requirements)

OTHER (as specified below)

Comments _____

Possible Contamination and/or Chemical Hazards HYDRAZINE

7. Requested by P.H. Butcher

960 West LeVoy Drive / Salt Lake City, UT 84123
4388 Glendale-Milford Road / Cincinnati, OH 45242

800-356-9135 or 801-266-7700 / FAX: 801-268-9992
800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

DISTRIBUTION:

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CANARY - CUSTOMER COPY

9713530.2675

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00009

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 12/17/92

Ice Chest No. ~~SML-245AR~~ 12/18/92 SML-275

Field Logbook No. RFL-1054

Bill of Lading/Airbill No. 2519007865

Offsite Property No. W93-0-0151-25

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BO 7R85

1, 40ml, Gs, WATER, HYDRAZINE(HC1)

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
<i>K.D. Lee</i> K.D. Lee	Refrig. #2	12-17-92 / 1400
Relinquished by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Received by: <i>T. Jackson</i>	Date/Time: 12-19-92 / 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:

9713530-2676

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00010

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12-17-92

Field Logbook No. EFL-1054

Offsite Property No. W93-0-0151-25

Sample Identification

BO TRBS

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

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: L.D. Walker <i>L.D. Walker</i>	Received by: Re Frig. # 1	Date/Time: 12-17-92 / 1400
Relinquished by: AJ SIMPSON <i>AJ Simpson</i>	Received by: <i>J. Jackson</i>	Date/Time: 12-19-92 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

9713530.2677

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00011

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007565

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/16/92

Field Logbook No. EFL-1055

Offsite Property No. W93-0-0151-25

Sample Identification

BO7QY8

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

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: AJ SIMPSON <i>AJ Simpson</i>	Received by: T. Jackson <i>T. Jackson</i>	Date/Time: 12-19-92 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

9713530.2678

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00012

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 12-16-92

Ice Chest No. 8AL-275

Field Logbook No. EFL-1054

Bill of Lading/Airbill No. 2519007865

Offsite Property No. W93-D-0151-25

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BO 7R75

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

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: L.D. Walker <i>L.D. Walker</i>	Received by: AJ SIMPSON <i>AJ Simpson</i>	Date/Time: 12/19/92 1008	
Relinquished by: AJ SIMPSON <i>AJ Simpson</i>	Received by: T. Jackson <i>T. Jackson</i>	Date/Time: 12-19-92 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRLG #2			

9713530-2679

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00013

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. ZS19007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/16/92

Field Logbook No. EFL-1065

Offsite Property No. W93-6-0151-25

Sample Identification

BO TRFO

1, 40ml, Gs, WATER, HYDRAZINE(HC1)

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

Relinquished by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Received by: <i>T. Jackson</i> <i>[Signature]</i>	Date/Time: <i>12-19-92 / 1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments: *FRIG #2*

9713530-2680

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00014

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 12-16-92

Ice Chest No. SML-279

Field Logbook No. EFL-1054

Bill of Lading/Airbill No. 2519001865

Offsite Property No. W93-0-0151-25

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

B07R70

1, 40ml, Gs, WATER, HYDRAZINE(HC1)

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: L. D. Walker <i>L. D. Walker</i>	Received by: Refrig. #3	Date/Time: 12-16-92 / 1410	
Relinquished by: A. J. SIMPSON <i>A. J. Simpson</i>	Received by: T. Jackson <i>T. Jackson</i>	Date/Time: 12-19-92 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments:			

9713530-2681

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00015

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 12-16-92

Ice Chest No. SML-275

Field Logbook No. EFL-1054

Bill of Lading/Airbill No. 2519007865

Offsite Property No. W93-D-0151-25

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BO 7A 80

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

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: L.D. Walker
L.D. Walker

Received by: A.J. SIMPSON
A.J. Simpson

Date/Time: 12/18/92
1012

Relinquished by: A.J. SIMPSON
A.J. Simpson

Received by: T. Jackson
T. Jackson

Date/Time:
12-19-92/1200

Relinquished by:

Received by:

Date/Time:

Relinquished by:

Received by:

Date/Time:

Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments: FRI, E. H. 1

9713530.2682

Westinghouse
Hanford Company

CHAIN OF CUSTODY

0016

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12/14/92

Field Logbook No. EFL-1054

Offsite Property No. W93-D-0151-25

Sample Identification

BO7RGD

1, 40ml, Gs, WATER, HYDRAZINE(HC1)

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Kathy P. Lee</i> <i>K.D. Lee</i>	Received by: <i>AJ Simpson</i> <i>AJ Simpson</i>	Date/Time: 12/18/92 1013	
Relinquished by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Received by: <i>T. Jackson</i> <i>T. Jackson</i>	Date/Time: 12-19-92 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>FLIG #1</i>			

9713530.2603

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00017

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-275

Bill of Lading/Airbill No. ZS19007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 12-15-92

Field Logbook No. EFL-1054

Offsite Property No. W93-0-0151-25

Sample Identification

BO7RHO

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

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

Relinquished by: L.D. Walker <i>LD Walker</i>	Received by: AJSIMPSON <i>AJ Simpson</i>	Date/Time: 12/15/92 1014
Relinquished by: AJSIMPSON <i>AJ Simpson</i>	Received by: T. Jackson <i>T. Jackson</i>	Date/Time: 12-19-92 / 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

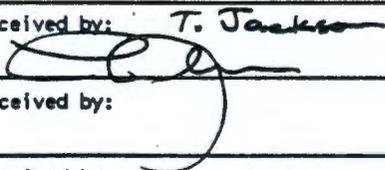
00018

Custody Form Initiator PH BUTCHER
Company Contact PH BUTCHER
Project Designation/Sampling Locations 100-FR-3
Ice Chest No. *SML-275*
Bill of Lading/Airbill No. *2517007865*
Method of Shipment EMERY
Shipped to DATA CHEM
Possible Sample Hazards/Remarks *N/A*

Telephone (509)376-5045
Collection Date *12/15/92*
Field Logbook No. *EFL - 1055*
Offsite Property No. *W93-0-0151-25*

Sample Identification

BO 7RG5
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>AJ Simpson</i> <i>AJ SIMPSON</i>	Received by: <i>T. Jackson</i> 	Date/Time: <i>12-19-92 / 1200</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

9713530.2685

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00019

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. *SML-275*

Bill of Lading/Airbill No. 2519007865

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date *12/14/92*

Field Logbook No. *EFL-1057*

Offsite Property No. W93-0-0151-25

Sample Identification

B07PK9

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

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: <i>K. Lee</i>	Received by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Date/Time: <i>12/15/92</i> <i>1015</i>
Relinquished by: <i>AJ SIMPSON</i> <i>AJ Simpson</i>	Received by: <i>T. Jackson</i> <i>[Signature]</i>	Date/Time: <i>12-19-92 / 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>File #1</i>		

9713530 2686

Westinghouse
Hanford Company

CHAIN OF CUSTODY

00020

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 100-FR-3

Collection Date 12/14/92

Ice Chest No. SML-275

Field Logbook No. EFL-1054

Bill of Lading/Airbill No. 2519007965

Offsite Property No. W93-0-0151-25

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BO7RJO

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

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Kathy Lee K.O. Lee</i>	Received by: <i>AJSIMPSON</i> <i>AJSimpson</i>	Date/Time: 12/18/92 1015	
Relinquished by: <i>AJSIMPSON</i> <i>AJSimpson</i>	Received by: <i>T. Jackson</i> <i>[Signature]</i>	Date/Time: 12-19-92 / 1200	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>PRIG H. L</i>			

Date JAN 13 1993 100-FR-3

Agency Identification Number S92-0980

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan



Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Hanford Date of Collection December 14, 1992

Date Samples Received at Laboratory December 19, 1992

Analytical Results

Parameter	Unit	07R85 EL 5734	07R85 EL 5735	07R88 EL 5736	07R75 EL 5737	07R80 EL 5738	07R70 EL 5739	07R80 EL 5740	07R80 EL 5741
Hydrazine 01/04/1993 ASTMD1385	µg/L	ND*	ND*	N/A	ND*	ND*	ND*	ND*	ND*
6/7/93 Insufficient Raw Data									
(PW)									

† 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 Kelleysberger
Reviewer: Katherine Kelleysberger
Norman K. Christensen
Laboratory Supervisor: Norman K. Christensen

RECORD COPY

Date JAN 13 1993
Agency Identification Number S92-0980
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Hanford Date of Collection December 14, 1992
Date Samples Received at Laboratory December 19, 1992

Analytical Results

ANALYTE	UNIT	LAB. NO.	EL. NO.	LAB. NO.	EL. NO.	LAB. NO.	EL. NO.	DESCRIPTION	
Hydrazine	µg/L	B07AK0	EL 5742	B07AK5	EL 5743	B07AK9	EL 5744	B07AK0	EL 5745
01/04/1993 ASTMD1385		ND*	S.O.R.	ND*	ND*	ND*	ND*		
6/7/93 AW		Insufficient Raw 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

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Page 1 of 2
Part 1 of 2

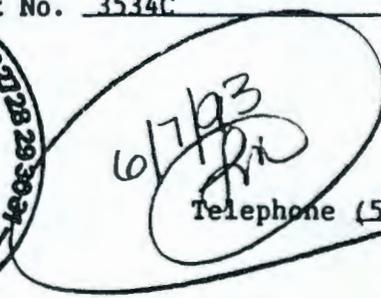
X02110

Date JAN 13 1993

Agency Identification Number S92-0980

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan



Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Hanford Date of Collection December 14, 1992

Date Samples Received at Laboratory December 19, 1992

Analytical Results

Method	Prep-Method	Sample Number	EL	EL	EL	EL	EL	EL	EL
Hydrazine		B07R85	EL 5734	B07R85	EL 5735	B07R85	EL 5736	B07R75	EL 5737
01/04/1993	µg/L	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
ASTMD1385		3.0R	3.0R	N/A	3.0R	3.0R	3.0R	3.0R	3.0R

† 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.)

RECORD COPY

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



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 1 of 2

Part 1 of 2

JAN 13 1993

Date

Agency Identification Number S92-0980

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan



Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Hanford Date of Collection December 14, 1992

Date Samples Received at Laboratory December 19, 1992

Analytical Results

Table with columns for Parameter Name, Method, and EL. Row 1: Hydrazine, 01/04/1993, ASTMD1385, 3.0R. Other rows are marked N/A or ND*.

Handwritten note: 6/15/93 insufficient raw data provided

† 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).

RECORD COPY

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



ENVIRONMENTAL WATER REPORT

Form EPRV-A

Page 2 of 2
Part 2 of 2

Date JAN 13 1993

Agency Identification Number S92-0980

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Hanford Date of Collection December 14, 1992

Date Samples Received at Laboratory December 19, 1992

Analytical Results

ANALYSIS DATE	ANALYSIS METHOD	LAB NUMBER	LAB NUMBER	LAB NUMBER	LAB NUMBER			
Hydrazine	µg/L	B07RH0 EL 5773 N/A	B07RG5 EL 5773 N/A	B07RK9 EL 5774 N/A	B07RJ0 EL 5775 N/A			
01/04/1993		ND*	ND*	ND*	ND*			
ASTMD1385								
6/15/93 (Lm)								

† 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.



ENVIRONMENTAL WATER REPORT

Form EPRV-A

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Part 1 of 2

Date JAN 13 1993

100-KR-4

Agency Identification Number S92-0980

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan



Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Hanford Date of Collection December 14, 1992

Date Samples Received at Laboratory December 19, 1992

Analytical Results

Table with columns for Lab Number, Parameter, and Results. Includes handwritten '6/15/93' and 'AN' in the first row.

† 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.)

RECORD COPY

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



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 2
Part 2 of 2

Date JAN 13 1993

Agency Identification Number S92-0980

Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site Hanford Date of Collection December 14, 1992

Date Samples Received at Laboratory December 19, 1992

Analytical Results

Method	Lab. Method	Lab. Number	Lab. Number	Lab. Number	Lab. Number			
Hydrazine		R07RHQ EL 5742	R07RG5 EL 5743	R07RK9 EL 5744	R07RJO EL 5745			
01/04/1993	175/L	ND*	ND*	ND*	ND*			
ASTMD1385								
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> 6/15/93 Jm </div>								

† 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.)

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 ≥ 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): X02110 100-FR-3 HYDRAZINE

All results rejected due to a lack of raw data.
No duplicate, matrix spike, LCSW or PBW results provided.

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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 ≥ 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).

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): X02110 100-KR-4 Hydroazine

- All results rejected due to a lack of raw data
- No duplicates, matrix spike, LCSW or PBW results provided