

0045404

MARTIN MARIETTA ENERGY SYSTEMS, INC.

POST OFFICE BOX 2003
OAK RIDGE, TENNESSEE 37831-7440

September 4, 1991



Ms. Joan Kessner
Westinghouse Hanford Company
2355 Stevens Drive
Richland, Washington 99352

Dear Ms. Kessner:

Analytical Results on Project EN52C: 618-9 Burial Ground Trench Samples

Attached are the results on the 618-9 Burial Ground Trench sample, Project EN52C, received into the Analytical Chemistry Department (ACD) laboratories on May 31, 1991. Also attached are copies of the Chain of Custody records for the samples, a sample identification table, and a summary of the protocol utilized to perform these analyses in accordance with agreements between the OSM and K-25 ACD. As previously requested in the letter dated December 20, 1990, the results are reported in ACD's AnaLis report format. All data quality objectives were satisfied on this project.

The Martin Marietta Chain of Custody received with the sample was incomplete and did not contain the required signatures. However, the Westinghouse Hanford Chain of Custody received with the sample did contain all the required signatures. It was unclear to the Sample Management receiving custodian as to whether the dates and times were all complete.

Wet Chemistry: Anions

The anion analysis for chloride, nitrate and sulfate was conducted in accordance with EPA-300.0 methodology.

I certify that this data package is in compliance with the terms and conditions of the OSM's revised Statement of Work and letter dated December 20, 1990, both technically and for completeness, for

Ms. Joan Kessner

2

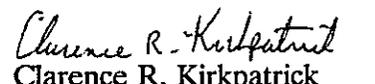
September 4, 1991

other than the conditions stated above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signatures.

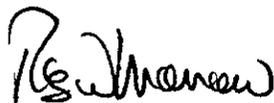
Sincerely,



Deborah L. Amburgey
Program Manager
Hanford Support Program



Clarence R. Kirkpatrick
Program Manager
Waste Management Analysis



Roy W. Morrow
Department Manager
Analytical Chemistry Department (K-25)

dla

Attachments

cc/attach: D.L.Amburgey
S.R.Smith - RC

cc: N.P.Buddin
H.H.Sullivan

**PROTOCOL UTILIZED FOR ANALYSES OF
618-9 BURIAL GROUND TRENCH SAMPLES
AND SAMPLE IDENTIFICATION FOR
PROJECT EN52C**

Analysis Protocol
A. Anions (Cl, NO₃, SO₄) EPA-300.0

Table 1.1 - Sample Identification Table for Project EN52C: 618-9 Burial Ground Trench Samples

Date Sample Group Received	OSM Sample ID Number	Lab Sample ID Number	Matrix	Comments
5/31/91	BOOYB7	910531-340	soil	

Custody Form Initiator C.E. Heiden
 Company Contact Bon Mitchell Telephone 376-5122
 Project Designation/Sampling Locations 618-9 Burial Ground Trench Collection Date 5/28/91
 Ice Chest No. RM #3 Field Logbook No. WHC-N-461
 Bill of Lading/Airbill No. 247424958 D Offsite Property No. W91 D 0370 F
 Method of Shipment Emerg
 Shipped to Martin Marietta Energy Systems Oak Ridge, TN
 Possible Sample Hazards/Remarks N/A

Sample Identification

BOOYB7 - Soil (1) 120 ml glass jar

Field Transfer of Custody CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by: <u>C.E. Heiden</u> <u>C.E. Heiden</u>	Received by: <u>J. Demarest</u> <u>J. Demarest</u>	Date/Time: <u>5/31/91</u> <u>1300</u>
Relinquished by: <u>J. Demarest</u> <u>J. Demarest</u>	Received by: <u>C. Moore</u> <u>C. Moore</u>	Date/Time: <u>5/31/91</u> <u>1510</u>
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:

Date: 5-31-91 Shipper ID and Document No: EMERY 247424958

Cooler ID if noted on outside of cooler: none

Project No: G132 Subproject No: EN52 Site Location: HANFORD

Custody seal on cooler? <input checked="" type="radio"/> Yes <input type="radio"/> No	Custody seals dated and signed? <input checked="" type="radio"/> Yes <input type="radio"/> No
Condition of cooler acceptable? <input checked="" type="radio"/> Yes <input type="radio"/> No	Prog. Mgr. notified of receipt of cooler? <input checked="" type="radio"/> Yes <input type="radio"/> No
Radioactive labels? Yes <input checked="" type="radio"/> No	Radioactivity recheck OK? <input checked="" type="radio"/> Yes <input type="radio"/> No
Hazardous labels? Yes <input checked="" type="radio"/> No	Samples properly labeled? <input checked="" type="radio"/> Yes <input type="radio"/> No
Custody form(s) inside of cooler? <input checked="" type="radio"/> Yes <input type="radio"/> No	Custody form(s) properly completed and signed? Yes <input checked="" type="radio"/> No
Was cooler required to be maintained at 4 deg C? Yes <input checked="" type="radio"/> No	Thermometer inside of cooler? Yes <input checked="" type="radio"/> No
Sample containers intact? <input checked="" type="radio"/> Yes <input type="radio"/> No	Temperature of cooler: _____ deg C (X.X)
Are containers those specified for requested parameters? <input checked="" type="radio"/> Yes <input type="radio"/> No	VOA containers free of bubbles? <u>N/A</u> Yes No
Date of login: <u>5-31-91</u>	Additional information needed from Prog. Mgr.? <input checked="" type="radio"/> Yes <input type="radio"/> No
Lab assigned ID No: <u>910531-340</u>	
Thru <u>N/A</u>	

NOTE: Nitrite-N, Nitrate-N, o-Phosphate-o-Phosphate-P have 48-hour holding time. LOG IN THESE FIRST - ASAP

The lab numbers plus the project number are used for tracking purposes.

Comments:

Signed: *Cynthia Monroe*

1. Sample (COC) was not relinquished on Martin Marietta Chain of Custody.
2. No date and time for sample relinquish on Westinghouse Hanford COC

WORLDWIDEDATE: 05-30-91 SHIPMENT NO: 247424958 0
SHIPPER: WESTINGHOUSE SHIPPING DEPT (509) 376-6665
REFERENCE NO.: W91 0 037071**SIGNATURE AND TALLY RECORD**

60029 46 (R 89) LITHO USA

SHIPPER NAME AND ADDRESS
WESTINGHOUSE SHIPPING DEPT (509) 376-6665
G2-06 US DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD COMPANY
2355 STEVENS DRIVE 1163 BUILDING
PO BOX 1970
RICHLAND WA 99352CONSIGNEE NAME AND ADDRESS
CR KIRKPATRICK K-1004A DROPPPOINT A20
U.S. DEPAR. OF ENERGY
C/O MARTIN HARIETTA ENERGY SYSTEMS
OAK RIDGE GASEOUS DIFFUSION PLANT
BLAIR ROAD HIGHWAY 58
OAK RIDGE TN 37831-7440

Pieces 1	Weight 21 LBS	Description/Marks W91 0 037071 ICE CHEST #3 SOIL SAMPLES BODY7	Emergency Authorization No.
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EACH PERSON HANDLING OR TAKING CUSTODY OF THIS SHIPMENT MUST SIGN AND COMPLETE THE INFORMATION BELOW

Name of Person/Company	Transship Point/Destination	Signature of Person Accepting Custody	Time/Date
WESTINGHOUSE SHIPPING NOYCE DEARBEST 1167/1100	RICHLAND WA	<i>[Signature]</i>	111 /05-30-91
2. <i>[Signature]</i>		<i>[Signature]</i>	
3. <i>[Signature]</i>		<i>[Signature]</i>	
4. <i>[Signature]</i>		<i>[Signature]</i>	
5. <i>[Signature]</i>		<i>[Signature]</i>	
6. S. HARRIS - K. W. W.	TVE	<i>[Signature]</i>	10:46 5/31/91
7. T.L. DUNCAN MMS	OAK Ridge	<i>[Signature]</i>	1353 5.31.91
8. <i>[Signature]</i>	KAS	J. Gadson	5-31-91 14:20

SPECIAL HANDLING INSTRUCTIONS

CONSIGNEE COPY

Contractor Westinghouse Hanford Co.	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT) <i>20910102 = 1</i>
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PART I - TO BE COMPLETED BY ORIGINATOR

Department <i>Env. Engineering</i>	Section <i>Technical Baseline</i>	Unit
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The following items are to be shipped from Contractor Vendor

Routing *Env.* Contractor Vendor

Shipped to <i>U.S. Dept. of Energy 270 Martin Marietta Energy Systems Oak Ridge Y-12 Plant P.O. Box 117, Highway 58</i>	Off-site Custodian <i>Asst: G. K. Karpatrik</i>
	Full Title <i>Project Coordinator</i>

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
<i>1</i>	<i>Poly Ice Chest</i> <i>- glass jars of soil packed in vermiculite and blue ice.</i> <i>- sample #15. RFYF1 (Ice Chest #3)</i> <i>51 lbs.</i>	

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

Necessity for the Off-Site Use of this Property
Program is not available on site.
Bill of Lading # 247424710 C

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

RM Clearance for Public Release	RM Survey No	Date
Location of Property (Area & Bldg) <i>1200 Central Ground</i>	Contact <i>Don Mitchell</i>	Phone <i>(509) 375-6122</i>
Date Ready for Shipment	Cost Code to be Charged <i>US&L</i>	Approximate Date This Property will be Returned
Originated By <i>Don Mitchell</i>	Date <i>1/11/11</i>	Authorized By <i>[Signature]</i>
Signature and Name of Property Control	Custodian Date <i>[Signature]</i>	Property Management Approval <i>[Signature]</i>
		Date <i>[Signature]</i>

PART II - TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No	Date Issued	Purchase Order No.	Date Issued
Date				

DISTRIBUTION

<u>By Originator</u> White, Green, Yellow, Pink - Property Management Goldenrod - Retain	<u>Shipping Operation - Sign all Copies and Forward to:</u> White - Property Management Yellow - Retain	<u>Green - Property Control Custodian (Issuing Office)</u> Pink - Originator
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Oak Ridge K-25 Site
Analytical Chemistry Department
Results of Analyses

Date Printed:
4-SEP-1991 07:43

AnalIS ID: 910531-340 Project: G132 EN52 Customer Sample ID: BOOYB7
Customer: KESSNER/MITCHELL Requisition Number:
Date Sampled: 28-MAY-1991 Date Sample Received: 31-MAY-1991
Sampled By: Date Sample Completed: 17-JUL-1991
Material Description: SOIL Date Sample Approved: 18-JUL-1991
Current Program Manager: D. L. Amburgey [] : Result has been Corrected for Spike

Activ. Number	Procedure No.	Analysis	Result	Limit of Error	Units	Analyst	QA File Number	Date Completed
162003	TP-1664	Total Activity	2.31E1	+/- 7.58E1	dpm/g	J RAMIREZ	ENV-563	12-JUN-1991
185403	EPA-300.0	Chloride IC	125		ug/g	KE EDWARDS	91-61T	17-JUL-1991
	EPA-300.0	Nitrate	83		ug/g	KE EDWARDS	91-61T	17-JUL-1991
	EPA-300.0	Sulfate	25		ug/g	KE EDWARDS	91-61T	17-JUL-1991