START 9613475.0200

BOOY82-K25-127 1

MARTIN MARIETTA

0045240

MARTIN MARIETTA ENERGY SYSTEMS, INC.

POST OFFICE BOX 2003
OAK RIDGE, TENNESSEE 37831-7440

July 11, 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 anion results on one (1) 618-9 Burial Ground Trench soil sample, Project EN52C, received into the Analytical Chemistry Department (ACD) laboratories on May 25, 1991. Also attached are copies of the Chain of Custody records for the sample. The Westinghouse Chain of Custody was signed as relinquished by J. Demarest but not signed as received at the time of shipping. The Cooler Receipt Form verifies receipt at the ACD laboratories on May 25, 1991. The sample was entered into the AnaLis system as being received on May 28, 1991.

The AnaLis ID number is 910530-001 for sample number BOOY82. EPA Method 300.0 was utilized to perform the analysis for chloride, nitrate, and sulfate anions 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.

SEP 1996
RECEIVED
EDMC

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 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

F. M. Faulcon
Fred M. Faulcon
Program Manager
Waste Management Analysis

Clarence R. Kirkpatrick
Clarence R. Kirkpatrick
Department Manager
Analytical Chemistry Department (K-25)

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

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

3

MARTIN MARIETTA

MARTIN MARIETTA ENERGY SYSTEMS, INC.

CHAIN OF CUSTODY RECORD

SAMPLING AND ENVIRONMENTAL SUPPORT DEPARTMENT

SES/COC NO. 000211

PROJECT NUMBER	PROJECT NAME
EN52C	6018-9 Burial Ground Trench

SAMPLERS *(SIGNATURE)*

CUSTOMER NUMBER	LAB NUMBER	SAMPLING DATE	SAMPLING TIME	SAMPLE TYPE	NO. OF CONTAINERS	Anions						REMARKS
B00Y82	910530-001	5/23/91		Soil	1-250ml glass jar	X						

RELINQUISHED BY *(Signature)*	Date	Time	RECEIVED BY *(Signature)*	Date	Time	RELINQUISHED BY *(Signature)*	Date	Time	RECEIVED BY *(Signature)*
RELINQUISHED BY *(Signature)*	Date	Time	RECEIVED BY *(Signature)*	Date	Time	RELINQUISHED BY *(Signature)*	Date	Time	RECEIVED BY *(Signature)*

UCN-16691A (1 6-90)

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT, COPY TO COORDINATOR OF FIELD FILES

9613475.0202

9613475.0203

COOLER RECEIPT FORM
for SOP 2332

File with receiving and C-O-C records.

Date: 5-25-91 Shipper ID and Document No: 247 4249382

Cooler ID if noted on outside of cooler: RM #33

Project No:_____ Subproject No:_____ Site Location: Hanford

Custody seal on cooler?	Yes No	Custody seals dated and signed?	Yes No
Condition of cooler acceptable?	Yes No	Prog. Mgr. notified of receipt of cooler?	Yes No
Radioactive labels?	Yes No	Radioactivity recheck OK?	~~Yes No~~ ?
Hazardous labels?	Yes No	Samples properly labeled?	? Yes No
Custody form(s) inside of cooler?	Yes No	Custody form(s) properly completed and signed?	? Yes No
Was cooler required to be maintained at 4 deg C?	Yes No	Thermometer inside of cooler?	Yes No
Sample containers intact?	Yes No	Temperature of cooler: 4 deg C (X.X)	
Are containers those specified for requested parameters?	? Yes No	VOA containers free of bubbles?	NA ~~Yes No~~
Date of login:_____		Additional information needed from Prog. Mgr.?	Yes No
Lab assigned ID No: _____			
Thru_____			

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: [signature]

No analysis specified on container
Custody forms list sample as B00Y82.
Bottle labeled B00YE2.
Sample not relinquished on chain of custody form

9613475.0284

Westinghouse Hanford Company	CHAIN OF CUSTODY	5

Custody Form Initiator C.E. Heiden

Company Contact Ron Mitchell Telephone 376-5122

Project Designation/Sampling Locations 618-9 Burial Ground Trench Collection Date 5/22/91

Ice Chest No. #33 Field Logbook No. —

Bill of Lading/Airbill No. 247424948 1 Offsite Property No. W91-037C

Method of Shipment Emery

Shipped to Martin Marietta Energy Systems Oak Ridge, TN

Possible Sample Hazards/Remarks

Sample Identification

BOOY88 - Soil 1-250 ml glass jar

☐ Field Transfer of Custody	CHAIN OF POSSESSION	(Sign and Print Names)
Relinquished by: C.E. Heiden C.E. Heiden	Received by: J. DEMAREST J. Demarest	Date/Time: 5/23/91 1315
Relinquished by: J. DEMAREST J. Demarest	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:

20 lbs. 9613475.0205 Next Day Service "Signature Security"

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
Westinghouse Hanford Co.		1091-0370

PART I – TO BE COMPLETED BY ORIGINATOR

Department	Section	Unit
Env. Engineering	Technical Baseline	

The following items are to be shipped from ☒ Contractor ☐ Vendor

Routing Emery ☒ Contractor ☐ Vendor

Shipped to	Off-site Custodian
U.S. Dept. of Energy c/o Mattin Marietta EnergySystems Oak Ridge Gaseous Diffusion Plant Blair Rd., Highway 58 Oak Ridge, TN 37831-7440	Attn: C. R. Kirkpatrick Full Title K-1004A drop point A20 Project Coordinator

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	Poly Ice Chest - Glass jars of soil packed in vermiculite and blue ice. - Sample##s. BOOY82 (Ice Chest # 33)	

☐ 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 # 247434448 1

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
[illegible]	[illegible]	5-23-91

Location of Property (Area & Bldg.)	Contact	Phone
618-9 Burial Ground	Ron Mitchell	(509) 376-5122

Date Ready for Shipment	Cost Code to be Charged	Approximate Date This Property will be Returned
5/23/91	F120.0 EN52E	

Originated By	Date	Authorized By	Date
Ron Mitchell	5/23/91	[illegible]	

Signature and Name of Property Control	Custodian Date	Property Management Approval	Date
		[illegible]	5/23/91

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No	Date Issued	Purchase Order No.	Date Issued
[illegible]				
Date 5/3/91				

DISTRIBUTION

By Originator	Shipping Operation – Sign all Copies and Forward to:
White, Green, Yellow, Pink – Property Management Goldenrod – Retain	White – Property Management Yellow – Retain Green – Property Control Custodian (Issuing Office) Pink – Originator

54-3000-479 (09-89)

EMERY WORLDWIDE

A GF Company

(10)

SIGNATURE AND TALLY RECORD

60029-46 (8-89) Litho USA

DATE: 05-23-91 SHIPMENT NO.: 247424938 2

SHIPPER: WESTINGHOUSE SHIPPING DEPT (509) 376-6665

REFERENCE NO.:

SHIPPER NAME AND ADDRESS	CONSIGNEE 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 99352	CR KIRKPATRICK MARTIN MARIETTA ENERGY SYSTEMS OAK RIDGE GASEOUS DIFFUSION PLANT BLAIR ROAD HIGHWAY 58 OAK RIDGE TN 37831-7440

Pieces	Weight	Description/Marks	Emery Authorization No.
1	44 LBS	W91-0373 #1 0521A, G521-1, G521-2 POLYCOOLER # SML 77 STORAGE TANK SAMPLES	

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
1.	JOYCE DEMAREST WESTINGHOUSE SHIPPING 1167/1100	RICHLAND WA		/05-23-91
2.				
3.				
4.	SWF	HPY	[signature]	0310 5/24
5.				
6.	TL Duncan MMES	Oak Ridge	T L Duncan	1845 5-24-91
7.	J. Gadson	K-25	J. Gadson	1510 5-24-91
8.				

SPECIAL HANDLING INSTRUCTIONS

CONSIGNEE COPY

9613475.0206

8

9613475.0207

FORM OF PAYMENT

CASH ☐ GBL CBL ☐ FCCOD ☐

PPD ☒ COL ☐ OTH ☐ COMAT ☐

EMERY WORLDWIDE

A CF Company

SERVICES

UNITED STATES / CANADA: Same Day ☐ AM ☐ PM ☐ Second Day ☐ Saturday Delivery ☒

INTERNATIONAL: Express ☐ Preferred ☐ Standard ☐ Business Documents ☐ Customs Clearance ☐ Delivery ☐

E Shipper's Account Number: 850281585

Date: 05-23-91 Origin: PSC Shipment Number: 247424938 2

From:
WESTINGHOUSE SHIPPING DEPT (509) 376-6665
US DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD
BLDG 1163
2355 STEVENS DRIVE
RICHLAND WA

To:
CR KIRKPATRICK
MARTIN MARIETTA ENERGY SYSTEMS
OAK RIDGE GASEOUS DIFFUSION PLANT
BLAIR ROAD HIGHWAY 58
OAK RIDGE TN

Tariff Dest. | Gateway

Check to Shipper $

Hold for Pick Up ☐ Canada ☐

EMERY WORLDWIDE will collect consignee check made payable only to the shipper for the value of the goods in the amount shown above.

Customer's Reference Numbers: W28450 Y22568 W91-0373#1 99352

E Consignee's Account Number: 37831-7440

Description	Pcs.	L	W	H	Total Pieces	Total Weight (In Lbs)
1 POLYCOOLER storage TANK SAMPLES D521A, G521-1, G521-2 ICE CHEST # SAL 77 W91-0373 #1	1	21	14	15	1	44

TODSR ☐ Hex Mat ☐ Edit ☐ A B C D E F G H I J K

OVERNIGHT DELIVERY
SIGNATURE SECURITY SERVICE

Shipper's Signature X

Envelope 9X12 ☒ Pack 12X15 ☒

FOR INFORMATION OR RATES CALL 1-800 HI EMERY (1-800-443-6379)

Declared Value $

2474249382

International Shipments: Free Domicile ☐ Commodity Code

Third party Account Number mandatory for Third party billing. E Third Party Account Number

International Customs Value | International Insurance

Base Charge

Total Transportation Charges

Other Charges/Advance at Origin ☐ OC/AO- $

TYS A

Terms and Conditions on Back

9613475.0208

Oak Ridge K-25 Site
Analytical Chemistry Department
Results of Analyses

Date Printed:
10-JUL-1991 07:39

AnaLIS ID: 910530-001 Project: G132 EN52 Customer Sample ID: BOOY82
Customer: KESSNER/MITCHELL Requisition Number:
Date Sampled: 22-MAY-1991 Date Sample Received: 28-MAY-1991
Sampled By: Date Sample Completed: 20-JUN-1991
Material Description: SOIL [] : 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	-3.28E1	+/- 3.51E1	pCi/g	J RAMIREZ	WP-959	4-JUN-1991
185403	EPA-300.0	Chloride IC	<20		ug/g	KE EDWARDS	91-52T	20-JUN-1991
	EPA-300.0	Nitrate	<20		ug/g	KE EDWARDS	91-52T	20-JUN-1991
	EPA-300.0	Sulfate	<20		ug/g	KE EDWARDS	91-52T	20-JUN-1991

Program Manager: D. L. Amburgey
Date Approved: 3-JUL-1991