START 9613491.1076

BOOYB7-K25-1206
MARTIN MARIETTA
0045404

MARTIN MARIETTA ENERGY SYSTEMS, INC.

POST OFFICE BOX 2003
OAK RIDGE, TENNESSEE 37831-7440

OCT 1996
RECEIVED
EDMC

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

9613491.1077

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

Deborah L. Amburgey
Program Manager
Hanford Support Program

Clarence R. Kirkpatrick

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

9613491.1078

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

Analysis	Protocol
A. Anions (Cl, NO_3, SO_4)	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	

4

MARTIN MARIETTA

MARTIN MARIETTA ENERGY SYSTEMS, INC.

CHAIN OF CUSTODY RECORD

ANALYTICAL CHEMISTRY DEPARTMENT

ACD COC NO. 1902

PROJECT NUMBER:

PROJECT NAME: 618-9 Burial Ground Trench

SAMPLERS: *(SIGNATURE)*

CUSTOMER NUMBER	ACD NUMBER	SAMPLING DATE	SAMPLING TIME	SAMPLE TYPE	NO. OF CONTAINERS	Anions						REMARKS
B00YB7		5/28/91	0910	Soil	(1) 120ml 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-16691 (1 4-89)

DISTRIBUTION ORIGINAL ACCOMPANIES SHIPMENT, COPY TO COORDINATOR OF FIELD FILES

9613491.1079

Westinghouse Hanford Company 9613491.1080

CHAIN OF CUSTODY

5

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 Emery

Shipped to Martin Marietta Energy Systems Oak Ridge, TN

Possible Sample Hazards/Remarks N/A

Sample Identification

B00YB7 - Soil (1) 120 ml glass jar

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
Relinquished by: C.E. Heiden C.E. Heiden	Received by: J DOMAREST J Demarest	Date/Time: 5/30/91 1300
Relinquished by: J. DOMAREST J Demarest	Received by: C Monroe	Date/Time: 5/31/91 1510
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

A-6000-407 (12/9

9613491.1081

COOLER RECEIPT FORM
for SOP 2332

File with receiving and C-O-C records.

6

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?	(Yes) No	Custody seals dated and signed?	(Yes) Nc
Condition of cooler acceptable?	(Yes) No	Prog. Mgr. notified of receipt of cooler?	(Yes) Nc
Radioactive labels?	Yes (No)	Radioactivity recheck OK?	(Yes) Nc
Hazardous labels?	Yes (No)	Samples properly labeled?	(Yes) Nc
Custody form(s) inside of cooler?	(Yes) No	Custody form(s) properly completed and signed?	Yes (Nc
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: _____ deg C (X.X)	
Are containers those specified for requested parameters?	(Yes) No	VOA containers free of bubbles? N/A	Yes No
Date of login: 5-31-91		Additional information needed from Prog. Mgr.?	(Yes) No
Lab assigned ID No: 910531-340 Thru N/A			

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 or Martin Marietta Chain of Custody.
2. No date and time for sample relinquish on Westinghouse Hanford COC

FORM OF PAYMENT

CASH ☐ COL CBL ☐ FCCOD ☐

PPD XXX COL ☐ OTH ☐ COMAT ☐

(101)

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 ☐

Shipper's Account Number: E 850281585

Date: 05-30-91 | Origin: PSC | Shipment Number: 247424958 0

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 K-1004A DROPPOINT A20
U. S. DEPARTMENT OF ENERGY
C/O 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's check made payable only to the shipper for the value of the goods in the amount shown above.

Customer's Reference Numbers: W8122[illegible] EN52F W91 0 037041

Zip: 99352

E Consignee's Account Number

Zip: 37831-7440

Declared Value $

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

Dimensions: 1 | 25 | 14 | 16

1 ICE [illegible]
SOIL SAMPLES [illegible]
W91 0

Haz Mat ☐ Edit ☐ A B C D E

OVERNIGHT DELIVERY
SIGNATURE SECURITY ICE

Shipper's Signature X

Pick: 9X12 | 7X16

International Signature

Free Domicile ☐ | Commodity Code

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

International Customs Value | International Insurance

Base Charge

Total Transportation Charges

Other Charges/Advance at Origin ☐ OC/AO $

TYS A

Terms and Conditions on Back

PLEASE TYPE OR USE BALL POINT PEN. BEAR DOWN FIRMLY! KEEP MARKS WITHIN BOXES TO ASSURE ACCURACY

FORM NO. 60001-46

9613491.1082

CONSIGN

EMERY WORLDWIDE

GF Company

SIGNATURE AND TALLY RECORD

60029 46 (8 89) Litho USA

DATE: 05-30-91 SHIPMENT NO.: 247424958 0
SHIPPER: WESTINGHOUSE SHIPPING DEPT (509) 376-6665
REFERENCE NO.: W91 0 0370#1

SHIPPER NAME AND ADDRESS	CONSIGNEE NAME AND ADDRESS
WESTINGHOUSE SHIPPING DEPT (509) 376-6666 G2-06 US DEPARTMENT OF ENERGY C/O WESTINGHOUSE HANFORD COMPANY 2355 STEVENS DRIVE 1163 BUILDING PO BOX 1970 RICHLAND WA 99352	CR KIRKPATRICK K-1004A DROPPOINT A20 U.S. DEPAR. OF ENERGYA C/O 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	21 LBS	W91 0 0370#1 ICE CHEST #3 SOIL SAMPLES B00YB7	

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 JOYCE DEMAREST1167/1100	RICHLAND WA	[illegible]	[illegible] /05-30-91
2. [illegible]	[illegible]	[illegible]	[illegible]
3. [illegible]	[illegible]	[illegible]	[illegible]
4. [illegible]	[illegible]	[illegible]	[illegible]
5. [illegible]	[illegible]	[illegible]	[illegible]
6. [illegible]	TYC	[illegible]	10:46 5/31/91
7. T.L. DUNCAN MMES	OAK Ridge	T.L. Duncan	1353 5 31 91
8. [illegible]	K25	J. Gadson	5-31-91 14:20

SPECIAL HANDLING INSTRUCTIONS

CONSIGNEE COPY

9613491.1083

8

9613491.1084

9

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
Westinghouse Hanford Co.		[illegible] #1

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 Martin Marietta Energy Systems Oak Ridge Gaseous Diffusion Plant Blair Rd., Highway 58	Attn: C. R. Kirkpatrick Full Title [illegible] 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. [illegible] (Ice Chest #3) 21 lbs.	

☐ 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 # 247[illegible] 0

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.)	Contact	Phone
[illegible] Burial Ground	Ron Mitchell [illegible]	(509) 376-5122

Date Ready for Shipment	Cost Code to be Charged	Approximate Date This Property will be Returned
[illegible]	[illegible]	

Originated By	Date	Authorized By	Date
[illegible]	[illegible]	[illegible]	

Signature and Name of Property Control	Custodian Date	Property Management Approval	Date
		[illegible]	[illegible]

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No	Date Issued	Purchase Order No.	Date Issued
Date [illegible]				

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)

9613491.1085

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