SC&A S. Cohen & Associates
An Employee-Owned Company

December 19, 2007

Greg Miller
Cabrera Services, Inc.
5301 Montano Plaza Drive NW
Albuquerque, NM 87120

Dear Mr. Miller:

On September 27, 2007, 34 soil samples were received for analysis at the Sanford Cohen and Associates (SC&A) Southeastern Environmental Laboratory. The samples were assigned Laboratory Report Identification Code 7925_7928. Enclosed is the Sample Data Package.

If you have any questions please do not hesitate to call.

Sincerely,

Cynthia White
Laboratory Director

cc: Tony Mason, Cabrera Services

1000 Monticello Court • Montgomery, Alabama • 36117 • 334.272.2234 • Fax 334.213.0407

COVER PAGE

Sanford Cohen & Associates
Southeastern Environmental Laboratory
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7925_7928

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2173-ST	OH207-7925-01
SB-CZ-SS-2174-ST	OH207-7925-02
SB-CZ-SS-2175-ST	OH207-7925-03
SB-CZ-SS-2176-ST	OH207-7925-04
SB-CZ-SS-2177-ST	OH207-7925-05
SB-CZ-SS-2178-ST	OH207-7925-06
SB-CZ-SS-2179-ST	OH207-7925-07
SB-CZ-SS-2180-ST	OH207-7925-08
SB-CZ-SS-2181-ST	OH207-7925-09
SB-CZ-SS-2182-ST	OH207-7925-10
SB-CZ-SS-2183-ST	OH207-7925-11
SB-CZ-SS-2184-ST	OH207-7925-12
SB-CZ-SS-2185-ST	OH207-7925-13
SB-CZ-SS-2186-ST	OH207-7925-14
Preparation Blank (PB)	SCAQC-7925-PB1
Laboratory Control (LC)	SCAQC-7925-LC1
Laboratory Duplicate (LD)	SCAQC-7925-LD1

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Sanford Cohen & Associates
Southeastern Environmental Laboratory
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7925_7928

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2173-SD	OH207-7926-01
SB-CZ-SS-2174-SD	OH207-7926-02
SB-CZ-SS-2175-SD	OH207-7926-03
SB-CZ-SS-2176-SD	OH207-7926-04
SB-CZ-SS-2177-SD	OH207-7926-05
SB-CZ-SS-2178-SD	OH207-7926-06
SB-CZ-SS-2179-SD	OH207-7926-07
SB-CZ-SS-2180-SD	OH207-7926-08
SB-CZ-SS-2181-SD	OH207-7926-09
SB-CZ-SS-2182-SD	OH207-7926-10
SB-CZ-SS-2183-SD	OH207-7926-11
SB-CZ-SS-2184-SD	OH207-7926-12
SB-CZ-SS-2185-SD	OH207-7926-13
SB-CZ-SS-2186-SD	OH207-7926-14
Preparation Blank (PB)	SCAQC-7926-PB1
Laboratory Control (LC)	SCAQC-7926-LC1
Laboratory Duplicate (LD)	SCAQC-7926-LD1

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Sanford Cohen & Associates
Southeastern Environmental Laboratory
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7925_7928

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2187-ST	OH207-7927-01
SB-CZ-SS-2188-ST	OH207-7927-02
SB-CZ-SS-2189-ST	OH207-7927-03
Preparation Blank (PB)	SCAQC-7927-PB1
Laboratory Control (LC)	SCAQC-7927-LC1
Laboratory Duplicate (LD)	SCAQC-7927-LD1

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2187-SD	OH207-7928-01
SB-CZ-SS-2188-SD	OH207-7928-02
SB-CZ-SS-2189-SD	OH207-7928-03
Preparation Blank (PB)	SCAQC-7928-PB1
Laboratory Control (LC)	SCAQC-7928-LC1
Laboratory Duplicate (LD)	SCAQC-7928-LD1

Comments: There were no problems encountered during sample receiving.

"I certify that this sample data package is in compliance with contract requirements, both technically and for completeness. Release of the data contained in this hard-copy sample data package has been authorized by the Laboratory Director or the Laboratory Director designee, as verified by the following signature."

Signature

Cynthia White — Name
Laboratory Director — Title
12/19/2007 — Date

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SC & A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:
07-3080.04	Schofield CZ

Client Name: JMC

Project Manager: Grea Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 25

ANALYSIS REQUESTED

FOR LABORATORY USE

Laboratory Prefix

Study I.D.

Pg. 1 of 3

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					041207	1925	Laboratory I.D.	Comments
1	9/24/2007		Soil	SB-CZ-SS-2173-ST	1		X						01		
2	9/24/2007		Soil	SB-CZ-SS-2174-ST	1		X						02		
3	9/24/2007		Soil	SB-CZ-SS-2175-ST	1		X						03		
4	9/24/2007		Soil	SB-CZ-SS-2176-ST	1		X						04		
5	9/24/2007		Soil	SB-CZ-SS-2177-ST	1		X						05		
6	9/24/2007		Soil	SB-CZ-SS-2178-ST	1		X						06		
7	9/24/2007		Soil	SB-CZ-SS-2179-ST	1		X						07		
8	9/24/2007		Soil	SB-CZ-SS-2180-ST	1		X						08		
9	9/24/2007		Soil	SB-CZ-SS-2181-ST	1		X						09		
10	9/24/2007		Soil	SB-CZ-SS-2182-ST	1		X						10		
11	9/24/2007		Soil	SB-CZ-SS-2183-ST	1		X						11		
12	9/24/2007		Soil	SB-CZ-SS-2184-ST	1		X						12		
13	9/24/2007		Soil	SB-CZ-SS-2185-ST	1		X						13		
14	9/24/2007		Soil	SB-CZ-SS-2186-ST	1		X						14		

Sampled by and Title Alfred Craig FSP — Date/Time 9-24-07

Received by: — Date/Time

Received by: — Date/Time 9/27/07 8:45

Remarks:

Relinquished by: Alfred Craig FSP — Date/Time

Relinquished by: — Date/Time

Relinquished by: — Date/Time

Sample shipped via — Air Bill #

UPS FED-EX HAND OTHER

QC Level 1 2 3

COC ICE

ANA REQ TEMP

Cust Seal pH

Sample Condition

SC & A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:
07-3080.04	Schofield CZ

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 25

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					0412057	7926	Laboratory I.D.	Comments
1	9/24/2007		Soil	SB-CZ-SS-2173-SD	1		X						01		
2	9/24/2007		Soil	SB-CZ-SS-2174-SD	1		X						02		
3	9/24/2007		Soil	SB-CZ-SS-2175-SD	1		X						03		
4	9/24/2007		Soil	SB-CZ-SS-2176-SD	1		X						04		
5	9/24/2007		Soil	SB-CZ-SS-2177-SD	1		X						05		
6	9/24/2007		Soil	SB-CZ-SS-2178-SD	1		X						06		
7	9/24/2007		Soil	SB-CZ-SS-2179-SD	1		X						07		
8	9/24/2007		Soil	SB-CZ-SS-2180-SD	1		X						08		
9	9/24/2007		Soil	SB-CZ-SS-2181-SD	1		X						09		
10	9/24/2007		Soil	SB-CZ-SS-2182-SD	1		X						10		
11	9/24/2007		Soil	SB-CZ-SS-2183-SD	1		X						11		
12	9/24/2007		Soil	SB-CZ-SS-2184-SD	1		X						12		
13	9/24/2007		Soil	SB-CZ-SS-2185-SD	1		X						13		
14	9/24/2007		Soil	SB-CZ-SS-2186-SD	1		X						14		

Sampled by and Title Alfred Craig FSP — Date/Time 9/24/07

Received by: — Date/Time

Received by: C. Greene - SC&A — Date/Time 9/27/07 8:45

Remarks:

Relinquished by: Alfred Craig FSP — Date/Time

Relinquished by: — Date/Time

Relinquished by: — Date/Time

Sample shipped via — Air Bill #

UPS FED-EX HAND OTHER

FOR LABORATORY USE

Laboratory Prefix

Study I.D.

Pg 2 of 3

OC Level 1 2 3

COC ICE

ANA REQ TEMP

Cust Seal pH

Sample Condition

SC & A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0407 FAX

WORK ASIGNMENT #	PROJECT NAME:
07-3080.04	Schofield CZ

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 25

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead						
1	9/24/2007		Soil	SB-CZ-SS-2187-ST	1		X						
2	9/24/2007		Soil	SB-CZ-SS-2188-ST	1		X						
3	9/24/2007		Soil	SB-CZ-SS-2189-ST	1		X						
4	9/24/2007		Soil	SB-CZ-SS-2187-SD	1		X					OH207	7927-01
5	9/24/2007		Soil	SB-CZ-SS-2188-SD	1		X						02
6	9/24/2007		Soil	SB-CZ-SS-2189-SD	1		X						03
7													
8													
9													
10													
11													
12													
13													
14													

ANALYSIS REQUESTED

FOR LABORATORY USE

Laboratory Prefix

Study I.D.

Page 3 of 3

Laboratory I.D. | Comments

Sampled by and Title Alfred Craig FSP	Date/Time 9/25/07	Relinquished by: Alfred Craig FSP	Date/Time
Received by:	Date/Time	Relinquished by:	Date/Time
Received by:	Date/Time 9/27/07 8:45	Relinquished by:	Date/Time
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #

QC Level 1 2 3

COC	ICE
ANA REQ	TEMP
Cust Seal	pH
Sample Condition	

7921 7924 7927 7930 7933 7936
7922 7925 7928 7931 7934 7937
7923 7926 7929 7932 7935 7938 7939 - Soil

SAMPLE RECEIPT CHECKLIST

Receipt Date/Time: 9/27/07 8:45 # of Boxes in Shipment: 5

Client: 04207

Visible Inspection:
8592 3952 0016
8592 3952 0049
8592 3952 0050
8592 3952 0068

Container Intact: ☑Yes ☐No
Any Leakage: ☑Yes ☐No
Airbill Present: ☑Yes ☐No
Tamper Proof Custody Seals: ☑Yes ☐No Intact: ☑Yes ☐No
Custody Seal No.'s: 8592 3952

External Survey: Gamma ☑ Contamination: ☐Yes ☑No
Alpha ☑ Contamination: ☐Yes ☑No
Beta/Gamma ☑ Contamination: ☐ Yes ☑No

External Smear: ☐Yes ☑No Contamination: ☐Yes ☑No

Internal Survey: Gamma ☑ Contamination: ☐Yes ☑No
Alpha ☑ Contamination: ☐Yes ☑No
Beta/Gamma ☑ Contamination: ☐ Yes ☑No

Internal Smear: ☐Yes ☑No Contamination: ☐Yes ☑No

If Contamination, Date/Time RSO contacted: _____

Chain-of-Custody: ☑Yes ☐No Packing List: ☐Yes ☑No

Tamper Proof Custody Seals: ☐Yes ☐No Intact: ☐Yes ☑No

Custody Seal No.'s: _____

Water Samples Received Filtered: ☐Yes ☐No ☑N/A ☐ Not Specified

Water Samples Received Preserved: ☐Yes ☐No ☑N/A
Water Samples Preserved in Laboratory: ☐Yes ☐No ☑N/A Date: _____ Time: _____

Is the Chain-of-Custody in Agreement with the Samples Received? ☐Yes ☐No

If any discrepancies, Date/Time Client Contacted: Sample container didn't have collection date and time. Typo on COC

Assigned SC&A Sample Numbers: ☑ Prepared Bench Sheets: ☑

Recorded Lab Sample No.'s on COC: ☑ Sample Acknowledgment: ☐

Signature: C. Owens

SC&A - Southeastern Environmental Laboratory
SCA-Form 301-2 Rev. 1

CASE NARRATIVE

Laboratory Report Identification Number: 7925_7928

NELAC Certification ID: NLC070001 (AL001)

December 19, 2007

I. Introduction

On September 27, 2007, 34 soil samples were received for analysis at the Sanford Cohen and Associates (SC&A) Southeastern Environmental Laboratory located in Montgomery, Alabama. The samples were analyzed in accordance with the Sanford Cohen and Associates, Southeastern Environmental Laboratory, Laboratory Quality Assurance Plan.

II. Analytical Methodology

The radioanalytical results reported for the samples include the site and laboratory sample identification numbers, collection date, method of analysis, and the quality control samples that were analyzed concurrently. The samples were analyzed by the following method.

Radionuclide	Method Number	Method Name	Counting Method
Gamma Spec	DOE 4.5.2.3	Gamma Emitting Radionuclides	Gamma Spectrometry
Lead*	SW846 6010C	Elemental Lead	ICP-AES

*Analyzed by GPL Laboratories in Frederick, MD.

III. Analytical Results

Discussion

These samples were received at SC&A under USDA Soil Permit No. S-76792 and dried and handled in accordance with this permit. After drying and homogenizing each sample, approximately 10 grams were removed, packaged, and shipped to GPL Laboratories in Frederick, MD under their USDA Soil Permit No. S-73685.

Approximately 400 grams-dry was prepared in SC&A's *400 mL sand* gamma geometry and counted for three hours in order to meet the RDL of 0.5 pCi/g for Th-234.

III. Analytical Results (continued)

Deficiencies

There were no deficiencies to report.

Matrix Interferences

There were no indications of matrix interference.

Detection Limits

The required detection limit (RDL) of 0.5 grams-dry for Th-234 was met for most samples, and the RDL of 2 ppm for the lead analysis performed by GPL Laboratories was also met for all samples.

Re-analysis

There were no re-analyses.

Deviations from Protocols

There were no deviations from the written protocols and analytical methods.

Contact with the Technical Representative

There was no contact with the Technical Representative regarding these samples.

IV. Quality Control

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7925-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7925-LC1	Laboratory Control
SB-CS-SS-2173-ST	SCAQC-7925-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7926-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7926-LC1	Laboratory Control
SB-CZ-SS-2173-SD	SCAQC-7926-LD1	Laboratory Duplicate

IV. Quality Control (continued)

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7927-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7927-LC1	Laboratory Control
SB-CZ-SS-2187-ST	SCAQC-7927-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7928-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7928-LC1	Laboratory Control
SB-CZ-SS-2187-SD	SCAQC-7928-LD1	Laboratory Duplicate

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100882	Preparation Blank
NA	BKS100882	Laboratory Control
SB-CZ-SS-2173-ST	SP710048-001-001-1/1	MS/MSD

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100932	Preparation Blank
NA	BKS100932	Laboratory Control
SB-CZ-SS-2179-SD	SP710048-021-021-1/1	MS/MSD

The analytical results of all quality control samples met the acceptance criteria specified in the SC&A's and GPL's QA Plans and any client supplied requirements.

Sincerely,

Cynthia White
Laboratory Director

12/19/2007
Date

SAMPLE AND QC RESULTS SUMMARY

SC&A, Inc.
Southeastern Environmental Laboratory

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2173-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-01	11/06/07 14:51	3.81	0.542	0.662	0.342
DOE 4.5.2.3	CO-60	OH207-7925-01	11/06/07 14:51	0.005	0.022	0.022	0.033
DOE 4.5.2.3	RH-101	OH207-7925-01	11/06/07 14:51	0.019	0.021	0.021	0.036
DOE 4.5.2.3	SB-125	OH207-7925-01	11/06/07 14:51	-0.049	0.057	0.057	0.094
DOE 4.5.2.3	CS-137	OH207-7925-01	11/06/07 14:51	0.109	0.034	0.036	0.044
DOE 4.5.2.3	EU-155	OH207-7925-01	11/06/07 14:51	0.098	0.063	0.064	0.112
DOE 4.5.2.3	TL-208	OH207-7925-01	11/06/07 14:51	0.414	0.058	0.071	0.033
DOE 4.5.2.3	PO-209	OH207-7925-01	11/06/07 14:51	1.04	3.37	3.37	6.26
DOE 4.5.2.3	BI-211	OH207-7925-01	11/06/07 14:51	-0.320	0.652	0.653	1.08
DOE 4.5.2.3	BI-212	OH207-7925-01	11/06/07 14:51	0.890	0.310	0.322	0.298
DOE 4.5.2.3	PB-212	OH207-7925-01	11/06/07 14:51	1.01	0.122	0.159	0.069
DOE 4.5.2.3	BI-214	OH207-7925-01	11/06/07 14:51	0.785	0.111	0.136	0.070
DOE 4.5.2.3	PB-214	OH207-7925-01	11/06/07 14:51	0.786	0.115	0.139	0.074
DOE 4.5.2.3	RA-223	OH207-7925-01	11/06/07 14:51	0.535	0.195	0.203	0.184
DOE 4.5.2.3	AC-228	OH207-7925-01	11/06/07 14:51	1.32	0.216	0.253	0.134
DOE 4.5.2.3	PA-233	OH207-7925-01	11/06/07 14:51	0.049	0.038	0.038	0.067
DOE 4.5.2.3	PA-234M	OH207-7925-01	11/06/07 14:51	3.72	2.61	2.64	5.04
DOE 4.5.2.3	TH-234	OH207-7925-01	11/06/07 14:51	1.30	0.448	0.466	0.446
DOE 4.5.2.3	U-235	OH207-7925-01	11/06/07 14:51	0.136	0.130	0.131	0.228
DOE 4.5.2.3	NP-236	OH207-7925-01	11/06/07 14:51	0.030	0.039	0.039	0.057
DOE 4.5.2.3	NP-237	OH207-7925-01	11/06/07 14:51	0.350	0.168	0.171	0.194
DOE 4.5.2.3	NP-239	OH207-7925-01	11/06/07 14:51	-0.057	0.142	0.143	0.237
DOE 4.5.2.3	AM-241	OH207-7925-01	11/06/07 14:51	0.021	0.044	0.044	0.065
DOE 4.5.2.3	AM-243	OH207-7925-01	11/06/07 14:51	0.219	0.057	0.061	0.036
DOE 4.5.2.3	CM-243	OH207-7925-01	11/06/07 14:51	0.040	0.057	0.057	0.100
DOE 4.5.2.3	AM-246	OH207-7925-01	11/06/07 14:51	0.020	0.071	0.071	0.129
DOE 4.5.2.3	CF-249	OH207-7925-01	11/06/07 14:51	0.007	0.024	0.024	0.043

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2174-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-02	11/06/07 11:45	4.77	0.612	0.775	0.302
DOE 4.5.2.3	CO-60	OH207-7925-02	11/06/07 11:45	0.002	0.016	0.016	0.029
DOE 4.5.2.3	RH-101	OH207-7925-02	11/06/07 11:45	-0.014	0.020	0.020	0.032
DOE 4.5.2.3	SB-125	OH207-7925-02	11/06/07 11:45	0.028	0.050	0.050	0.087
DOE 4.5.2.3	CS-137	OH207-7925-02	11/06/07 11:45	0.131	0.038	0.040	0.034
DOE 4.5.2.3	EU-155	OH207-7925-02	11/06/07 11:45	0.114	0.070	0.071	0.122
DOE 4.5.2.3	TL-208	OH207-7925-02	11/06/07 11:45	0.472	0.065	0.080	0.029
DOE 4.5.2.3	PO-209	OH207-7925-02	11/06/07 11:45	1.86	3.44	3.45	6.22
DOE 4.5.2.3	BI-211	OH207-7925-02	11/06/07 11:45	-0.411	0.561	0.563	0.924
DOE 4.5.2.3	BI-212	OH207-7925-02	11/06/07 11:45	1.02	0.336	0.351	0.239
DOE 4.5.2.3	PB-212	OH207-7925-02	11/06/07 11:45	1.39	0.124	0.186	0.050
DOE 4.5.2.3	BI-214	OH207-7925-02	11/06/07 11:45	0.985	0.140	0.171	0.058
DOE 4.5.2.3	PB-214	OH207-7925-02	11/06/07 11:45	0.962	0.109	0.145	0.063
DOE 4.5.2.3	RA-223	OH207-7925-02	11/06/07 11:45	0.488	0.165	0.172	0.168
DOE 4.5.2.3	AC-228	OH207-7925-02	11/06/07 11:45	1.64	0.235	0.286	0.084
DOE 4.5.2.3	PA-233	OH207-7925-02	11/06/07 11:45	-0.017	0.033	0.033	0.055
DOE 4.5.2.3	PA-234M	OH207-7925-02	11/06/07 11:45	1.19	1.99	2.00	3.65
DOE 4.5.2.3	TH-234	OH207-7925-02	11/06/07 11:45	2.13	0.552	0.592	0.704
DOE 4.5.2.3	U-235	OH207-7925-02	11/06/07 11:45	0.128	0.128	0.128	0.214
DOE 4.5.2.3	NP-236	OH207-7925-02	11/06/07 11:45	0.030	0.042	0.042	0.069
DOE 4.5.2.3	NP-237	OH207-7925-02	11/06/07 11:45	0.847	0.260	0.274	0.239
DOE 4.5.2.3	NP-239	OH207-7925-02	11/06/07 11:45	0.035	0.123	0.123	0.215
DOE 4.5.2.3	AM-241	OH207-7925-02	11/06/07 11:45	0.049	0.102	0.102	0.177
DOE 4.5.2.3	AM-243	OH207-7925-02	11/06/07 11:45	0.299	0.078	0.084	0.059
DOE 4.5.2.3	CM-243	OH207-7925-02	11/06/07 11:45	0.005	0.064	0.064	0.107
DOE 4.5.2.3	AM-246	OH207-7925-02	11/06/07 11:45	0.034	0.060	0.060	0.109
DOE 4.5.2.3	CF-249	OH207-7925-02	11/06/07 11:45	0.009	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2175-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-03	11/06/07 14:49	4.43	0.521	0.684	0.221
DOE 4.5.2.3	CO-60	OH207-7925-03	11/06/07 14:49	0.005	0.013	0.013	0.024
DOE 4.5.2.3	RH-101	OH207-7925-03	11/06/07 14:49	0.002	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7925-03	11/06/07 14:49	0.012	0.040	0.040	0.070
DOE 4.5.2.3	CS-137	OH207-7925-03	11/06/07 14:49	-0.006	0.017	0.017	0.029
DOE 4.5.2.3	EU-155	OH207-7925-03	11/06/07 14:49	0.130	0.061	0.062	0.107
DOE 4.5.2.3	TL-208	OH207-7925-03	11/06/07 14:49	0.397	0.057	0.070	0.027
DOE 4.5.2.3	PO-209	OH207-7925-03	11/06/07 14:49	-2.91	2.78	2.80	4.39
DOE 4.5.2.3	BI-211	OH207-7925-03	11/06/07 14:49	0.335	0.495	0.496	0.796
DOE 4.5.2.3	BI-212	OH207-7925-03	11/06/07 14:49	0.893	0.261	0.276	0.191
DOE 4.5.2.3	PB-212	OH207-7925-03	11/06/07 14:49	1.21	0.109	0.163	0.044
DOE 4.5.2.3	BI-214	OH207-7925-03	11/06/07 14:49	0.883	0.122	0.150	0.051
DOE 4.5.2.3	PB-214	OH207-7925-03	11/06/07 14:49	0.950	0.104	0.141	0.053
DOE 4.5.2.3	RA-223	OH207-7925-03	11/06/07 14:49	0.384	0.133	0.139	0.133
DOE 4.5.2.3	AC-228	OH207-7925-03	11/06/07 14:49	1.21	0.160	0.200	0.096
DOE 4.5.2.3	PA-233	OH207-7925-03	11/06/07 14:49	-0.006	0.028	0.028	0.048
DOE 4.5.2.3	PA-234M	OH207-7925-03	11/06/07 14:49	0.996	1.64	1.64	2.99
DOE 4.5.2.3	TH-234	OH207-7925-03	11/06/07 14:49	1.92	0.496	0.532	0.610
DOE 4.5.2.3	U-235	OH207-7925-03	11/06/07 14:49	0.041	0.106	0.106	0.177
DOE 4.5.2.3	NP-236	OH207-7925-03	11/06/07 14:49	0.012	0.037	0.037	0.057
DOE 4.5.2.3	NP-237	OH207-7925-03	11/06/07 14:49	0.902	0.203	0.222	0.187
DOE 4.5.2.3	NP-239	OH207-7925-03	11/06/07 14:49	0.052	0.113	0.113	0.186
DOE 4.5.2.3	AM-241	OH207-7925-03	11/06/07 14:49	-0.016	0.096	0.096	0.166
DOE 4.5.2.3	AM-243	OH207-7925-03	11/06/07 14:49	0.226	0.064	0.067	0.054
DOE 4.5.2.3	CM-243	OH207-7925-03	11/06/07 14:49	0.003	0.055	0.055	0.093
DOE 4.5.2.3	AM-246	OH207-7925-03	11/06/07 14:49	0.031	0.049	0.049	0.089
DOE 4.5.2.3	CF-249	OH207-7925-03	11/06/07 14:49	0.004	0.018	0.018	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2176-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-04	11/06/07 14:50	4.94	0.527	0.722	0.205
DOE 4.5.2.3	CO-60	OH207-7925-04	11/06/07 14:50	0.009	0.016	0.016	0.026
DOE 4.5.2.3	RH-101	OH207-7925-04	11/06/07 14:50	-0.014	0.017	0.017	0.026
DOE 4.5.2.3	SB-125	OH207-7925-04	11/06/07 14:50	0.012	0.045	0.045	0.076
DOE 4.5.2.3	CS-137	OH207-7925-04	11/06/07 14:50	0.049	0.027	0.027	0.034
DOE 4.5.2.3	EU-155	OH207-7925-04	11/06/07 14:50	0.055	0.060	0.060	0.103
DOE 4.5.2.3	TL-208	OH207-7925-04	11/06/07 14:50	0.347	0.052	0.062	0.026
DOE 4.5.2.3	PO-209	OH207-7925-04	11/06/07 14:50	0.398	3.02	3.02	5.31
DOE 4.5.2.3	BI-211	OH207-7925-04	11/06/07 14:50	-0.182	0.475	0.475	0.802
DOE 4.5.2.3	BI-212	OH207-7925-04	11/06/07 14:50	0.720	0.205	0.217	0.209
DOE 4.5.2.3	PB-212	OH207-7925-04	11/06/07 14:50	0.991	0.091	0.135	0.044
DOE 4.5.2.3	BI-214	OH207-7925-04	11/06/07 14:50	1.04	0.136	0.172	0.047
DOE 4.5.2.3	PB-214	OH207-7925-04	11/06/07 14:50	1.00	0.109	0.148	0.055
DOE 4.5.2.3	RA-223	OH207-7925-04	11/06/07 14:50	0.366	0.143	0.148	0.142
DOE 4.5.2.3	AC-228	OH207-7925-04	11/06/07 14:50	1.17	0.160	0.198	0.100
DOE 4.5.2.3	PA-233	OH207-7925-04	11/06/07 14:50	0.009	0.028	0.028	0.049
DOE 4.5.2.3	PA-234M	OH207-7925-04	11/06/07 14:50	0.227	1.98	1.98	3.45
DOE 4.5.2.3	TH-234	OH207-7925-04	11/06/07 14:50	1.61	0.461	0.488	0.576
DOE 4.5.2.3	U-235	OH207-7925-04	11/06/07 14:50	0.165	0.108	0.110	0.183
DOE 4.5.2.3	NP-236	OH207-7925-04	11/06/07 14:50	0.047	0.039	0.039	0.060
DOE 4.5.2.3	NP-237	OH207-7925-04	11/06/07 14:50	0.633	0.172	0.183	0.206
DOE 4.5.2.3	NP-239	OH207-7925-04	11/06/07 14:50	-0.022	0.103	0.103	0.177
DOE 4.5.2.3	AM-241	OH207-7925-04	11/06/07 14:50	-0.053	0.088	0.088	0.147
DOE 4.5.2.3	AM-243	OH207-7925-04	11/06/07 14:50	0.216	0.062	0.065	0.053
DOE 4.5.2.3	CM-243	OH207-7925-04	11/06/07 14:50	0.047	0.054	0.054	0.092
DOE 4.5.2.3	AM-246	OH207-7925-04	11/06/07 14:50	-0.017	0.054	0.054	0.091
DOE 4.5.2.3	CF-249	OH207-7925-04	11/06/07 14:50	0.005	0.019	0.019	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2177-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-05	11/06/07 18:10	6.29	0.736	0.968	0.235
DOE 4.5.2.3	CO-60	OH207-7925-05	11/06/07 18:10	-0.006	0.018	0.018	0.028
DOE 4.5.2.3	RH-101	OH207-7925-05	11/06/07 18:10	0.007	0.019	0.019	0.032
DOE 4.5.2.3	SB-125	OH207-7925-05	11/06/07 18:10	0.015	0.051	0.052	0.089
DOE 4.5.2.3	CS-137	OH207-7925-05	11/06/07 18:10	-0.018	0.019	0.019	0.031
DOE 4.5.2.3	EU-155	OH207-7925-05	11/06/07 18:10	0.117	0.073	0.074	0.127
DOE 4.5.2.3	TL-208	OH207-7925-05	11/06/07 18:10	0.474	0.068	0.083	0.031
DOE 4.5.2.3	PO-209	OH207-7925-05	11/06/07 18:10	-0.627	3.61	3.61	6.22
DOE 4.5.2.3	BI-211	OH207-7925-05	11/06/07 18:10	0.128	0.527	0.527	0.937
DOE 4.5.2.3	BI-212	OH207-7925-05	11/06/07 18:10	1.08	0.292	0.311	0.226
DOE 4.5.2.3	PB-212	OH207-7925-05	11/06/07 18:10	1.49	0.133	0.200	0.051
DOE 4.5.2.3	BI-214	OH207-7925-05	11/06/07 18:10	1.01	0.134	0.168	0.060
DOE 4.5.2.3	PB-214	OH207-7925-05	11/06/07 18:10	1.03	0.122	0.160	0.061
DOE 4.5.2.3	RA-223	OH207-7925-05	11/06/07 18:10	0.490	0.166	0.173	0.155
DOE 4.5.2.3	AC-228	OH207-7925-05	11/06/07 18:10	1.49	0.183	0.236	0.110
DOE 4.5.2.3	PA-233	OH207-7925-05	11/06/07 18:10	0.011	0.033	0.033	0.058
DOE 4.5.2.3	PA-234M	OH207-7925-05	11/06/07 18:10	3.29	2.13	2.16	4.10
DOE 4.5.2.3	TH-234	OH207-7925-05	11/06/07 18:10	2.24	0.576	0.618	0.755
DOE 4.5.2.3	U-235	OH207-7925-05	11/06/07 18:10	0.095	0.128	0.128	0.216
DOE 4.5.2.3	NP-236	OH207-7925-05	11/06/07 18:10	0.053	0.045	0.045	0.071
DOE 4.5.2.3	NP-237	OH207-7925-05	11/06/07 18:10	0.948	0.256	0.273	0.255
DOE 4.5.2.3	NP-239	OH207-7925-05	11/06/07 18:10	0.055	0.126	0.126	0.209
DOE 4.5.2.3	AM-241	OH207-7925-05	11/06/07 18:10	0.005	0.119	0.119	0.206
DOE 4.5.2.3	AM-243	OH207-7925-05	11/06/07 18:10	0.346	0.089	0.096	0.065
DOE 4.5.2.3	CM-243	OH207-7925-05	11/06/07 18:10	0.039	0.065	0.065	0.112
DOE 4.5.2.3	AM-246	OH207-7925-05	11/06/07 18:10	0.027	0.064	0.064	0.114
DOE 4.5.2.3	CF-249	OH207-7925-05	11/06/07 18:10	0.004	0.021	0.021	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2178-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-06	11/06/07 18:11	7.39	0.735	1.04	0.246
DOE 4.5.2.3	CO-60	OH207-7925-06	11/06/07 18:11	0.007	0.017	0.017	0.026
DOE 4.5.2.3	RH-101	OH207-7925-06	11/06/07 18:11	-0.007	0.018	0.019	0.029
DOE 4.5.2.3	SB-125	OH207-7925-06	11/06/07 18:11	-0.017	0.045	0.045	0.075
DOE 4.5.2.3	CS-137	OH207-7925-06	11/06/07 18:11	0.061	0.042	0.043	0.031
DOE 4.5.2.3	EU-155	OH207-7925-06	11/06/07 18:11	0.008	0.067	0.067	0.112
DOE 4.5.2.3	TL-208	OH207-7925-06	11/06/07 18:11	0.484	0.068	0.083	0.030
DOE 4.5.2.3	PO-209	OH207-7925-06	11/06/07 18:11	0.984	3.52	3.52	6.18
DOE 4.5.2.3	BI-211	OH207-7925-06	11/06/07 18:11	-0.027	0.505	0.505	0.871
DOE 4.5.2.3	BI-212	OH207-7925-06	11/06/07 18:11	1.01	0.288	0.305	0.225
DOE 4.5.2.3	PB-212	OH207-7925-06	11/06/07 18:11	1.39	0.122	0.185	0.048
DOE 4.5.2.3	BI-214	OH207-7925-06	11/06/07 18:11	1.03	0.135	0.170	0.058
DOE 4.5.2.3	PB-214	OH207-7925-06	11/06/07 18:11	1.06	0.112	0.154	0.060
DOE 4.5.2.3	RA-223	OH207-7925-06	11/06/07 18:11	0.371	0.147	0.152	0.148
DOE 4.5.2.3	AC-228	OH207-7925-06	11/06/07 18:11	1.50	0.200	0.250	0.110
DOE 4.5.2.3	PA-233	OH207-7925-06	11/06/07 18:11	-0.009	0.031	0.031	0.052
DOE 4.5.2.3	PA-234M	OH207-7925-06	11/06/07 18:11	5.26	2.78	2.83	3.06
DOE 4.5.2.3	TH-234	OH207-7925-06	11/06/07 18:11	1.41	0.475	0.496	0.635
DOE 4.5.2.3	U-235	OH207-7925-06	11/06/07 18:11	0.132	0.119	0.120	0.200
DOE 4.5.2.3	NP-236	OH207-7925-06	11/06/07 18:11	0.054	0.039	0.039	0.066
DOE 4.5.2.3	NP-237	OH207-7925-06	11/06/07 18:11	0.546	0.254	0.260	0.262
DOE 4.5.2.3	NP-239	OH207-7925-06	11/06/07 18:11	-0.082	0.114	0.114	0.192
DOE 4.5.2.3	AM-241	OH207-7925-06	11/06/07 18:11	-0.036	0.097	0.098	0.164
DOE 4.5.2.3	AM-243	OH207-7925-06	11/06/07 18:11	0.296	0.074	0.079	0.057
DOE 4.5.2.3	CM-243	OH207-7925-06	11/06/07 18:11	0.037	0.060	0.060	0.101
DOE 4.5.2.3	AM-246	OH207-7925-06	11/06/07 18:11	-0.002	0.059	0.059	0.100
DOE 4.5.2.3	CF-249	OH207-7925-06	11/06/07 18:11	0.008	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2179-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-07	11/06/07 18:13	5.78	0.599	0.833	0.278
DOE 4.5.2.3	CO-60	OH207-7925-07	11/06/07 18:13	-0.009	0.019	0.019	0.032
DOE 4.5.2.3	RH-101	OH207-7925-07	11/06/07 18:13	-2.1e-04	0.019	0.019	0.033
DOE 4.5.2.3	SB-125	OH207-7925-07	11/06/07 18:13	-0.024	0.049	0.049	0.082
DOE 4.5.2.3	CS-137	OH207-7925-07	11/06/07 18:13	0.153	0.042	0.044	0.032
DOE 4.5.2.3	EU-155	OH207-7925-07	11/06/07 18:13	0.035	0.053	0.053	0.093
DOE 4.5.2.3	TL-208	OH207-7925-07	11/06/07 18:13	0.389	0.055	0.067	0.029
DOE 4.5.2.3	PO-209	OH207-7925-07	11/06/07 18:13	2.87	3.25	3.26	6.06
DOE 4.5.2.3	BI-211	OH207-7925-07	11/06/07 18:13	-0.066	0.560	0.560	0.944
DOE 4.5.2.3	BI-212	OH207-7925-07	11/06/07 18:13	0.737	0.349	0.357	0.229
DOE 4.5.2.3	PB-212	OH207-7925-07	11/06/07 18:13	1.10	0.103	0.151	0.053
DOE 4.5.2.3	BI-214	OH207-7925-07	11/06/07 18:13	0.900	0.107	0.140	0.058
DOE 4.5.2.3	PB-214	OH207-7925-07	11/06/07 18:13	0.919	0.114	0.147	0.061
DOE 4.5.2.3	RA-223	OH207-7925-07	11/06/07 18:13	0.352	0.158	0.162	0.157
DOE 4.5.2.3	AC-228	OH207-7925-07	11/06/07 18:13	1.21	0.184	0.220	0.118
DOE 4.5.2.3	PA-233	OH207-7925-07	11/06/07 18:13	0.019	0.033	0.033	0.056
DOE 4.5.2.3	PA-234M	OH207-7925-07	11/06/07 18:13	2.96	2.24	2.26	4.23
DOE 4.5.2.3	TH-234	OH207-7925-07	11/06/07 18:13	1.09	0.339	0.356	0.364
DOE 4.5.2.3	U-235	OH207-7925-07	11/06/07 18:13	0.038	0.114	0.115	0.196
DOE 4.5.2.3	NP-236	OH207-7925-07	11/06/07 18:13	0.033	0.035	0.035	0.051
DOE 4.5.2.3	NP-237	OH207-7925-07	11/06/07 18:13	0.619	0.160	0.171	0.158
DOE 4.5.2.3	NP-239	OH207-7925-07	11/06/07 18:13	-0.016	0.121	0.121	0.203
DOE 4.5.2.3	AM-241	OH207-7925-07	11/06/07 18:13	0.037	0.038	0.038	0.057
DOE 4.5.2.3	AM-243	OH207-7925-07	11/06/07 18:13	0.173	0.045	0.048	0.031
DOE 4.5.2.3	CM-243	OH207-7925-07	11/06/07 18:13	0.017	0.048	0.048	0.083
DOE 4.5.2.3	AM-246	OH207-7925-07	11/06/07 18:13	0.090	0.063	0.063	0.120
DOE 4.5.2.3	CF-249	OH207-7925-07	11/06/07 18:13	-0.002	0.021	0.021	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2180-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-08	11/06/07 21:24	5.21	0.616	0.806	0.262
DOE 4.5.2.3	CO-60	OH207-7925-08	11/06/07 21:24	-0.014	0.019	0.019	0.026
DOE 4.5.2.3	RH-101	OH207-7925-08	11/06/07 21:24	-0.007	0.019	0.019	0.032
DOE 4.5.2.3	SB-125	OH207-7925-08	11/06/07 21:24	-0.003	0.048	0.048	0.083
DOE 4.5.2.3	CS-137	OH207-7925-08	11/06/07 21:24	0.188	0.046	0.049	0.037
DOE 4.5.2.3	EU-155	OH207-7925-08	11/06/07 21:24	0.008	0.072	0.072	0.122
DOE 4.5.2.3	TL-208	OH207-7925-08	11/06/07 21:24	0.413	0.061	0.073	0.029
DOE 4.5.2.3	PO-209	OH207-7925-08	11/06/07 21:24	-2.01	3.59	3.59	5.99
DOE 4.5.2.3	BI-211	OH207-7925-08	11/06/07 21:24	-0.192	0.487	0.488	0.833
DOE 4.5.2.3	BI-212	OH207-7925-08	11/06/07 21:24	0.767	0.254	0.266	0.234
DOE 4.5.2.3	PB-212	OH207-7925-08	11/06/07 21:24	1.15	0.109	0.158	0.052
DOE 4.5.2.3	BI-214	OH207-7925-08	11/06/07 21:24	0.897	0.127	0.155	0.063
DOE 4.5.2.3	PB-214	OH207-7925-08	11/06/07 21:24	0.999	0.114	0.151	0.063
DOE 4.5.2.3	RA-223	OH207-7925-08	11/06/07 21:24	0.186	0.134	0.135	0.167
DOE 4.5.2.3	AC-228	OH207-7925-08	11/06/07 21:24	1.33	0.169	0.215	0.107
DOE 4.5.2.3	PA-233	OH207-7925-08	11/06/07 21:24	0.009	0.032	0.032	0.056
DOE 4.5.2.3	PA-234M	OH207-7925-08	11/06/07 21:24	1.81	2.29	2.30	4.20
DOE 4.5.2.3	TH-234	OH207-7925-08	11/06/07 21:24	1.37	0.412	0.435	0.712
DOE 4.5.2.3	U-235	OH207-7925-08	11/06/07 21:24	0.120	0.122	0.123	0.209
DOE 4.5.2.3	NP-236	OH207-7925-08	11/06/07 21:24	0.038	0.041	0.041	0.068
DOE 4.5.2.3	NP-237	OH207-7925-08	11/06/07 21:24	0.755	0.239	0.251	0.257
DOE 4.5.2.3	NP-239	OH207-7925-08	11/06/07 21:24	0.119	0.123	0.124	0.208
DOE 4.5.2.3	AM-241	OH207-7925-08	11/06/07 21:24	0.060	0.111	0.111	0.197
DOE 4.5.2.3	AM-243	OH207-7925-08	11/06/07 21:24	0.260	0.074	0.079	0.064
DOE 4.5.2.3	CM-243	OH207-7925-08	11/06/07 21:24	0.063	0.063	0.064	0.110
DOE 4.5.2.3	AM-246	OH207-7925-08	11/06/07 21:24	0.051	0.056	0.056	0.106
DOE 4.5.2.3	CF-249	OH207-7925-08	11/06/07 21:24	0.016	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2181-ST
Other Sample ID: Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7925 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-09	11/06/07 21:25	3.30	0.460	0.566	0.235
DOE 4.5.2.3	CO-60	OH207-7925-09	11/06/07 21:25	0.003	0.014	0.014	0.026
DOE 4.5.2.3	RH-101	OH207-7925-09	11/06/07 21:25	-0.005	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7925-09	11/06/07 21:25	-0.015	0.045	0.045	0.074
DOE 4.5.2.3	CS-137	OH207-7925-09	11/06/07 21:25	0.174	0.039	0.042	0.030
DOE 4.5.2.3	EU-155	OH207-7925-09	11/06/07 21:25	0.010	0.059	0.059	0.100
DOE 4.5.2.3	TL-208	OH207-7925-09	11/06/07 21:25	0.300	0.049	0.057	0.030
DOE 4.5.2.3	PO-209	OH207-7925-09	11/06/07 21:25	2.52	2.89	2.90	5.37
DOE 4.5.2.3	BI-211	OH207-7925-09	11/06/07 21:25	-0.081	0.458	0.459	0.790
DOE 4.5.2.3	BI-212	OH207-7925-09	11/06/07 21:25	0.600	0.237	0.244	0.207
DOE 4.5.2.3	PB-212	OH207-7925-09	11/06/07 21:25	0.857	0.082	0.119	0.046
DOE 4.5.2.3	BI-214	OH207-7925-09	11/06/07 21:25	0.846	0.122	0.148	0.053
DOE 4.5.2.3	PB-214	OH207-7925-09	11/06/07 21:25	0.915	0.104	0.139	0.052
DOE 4.5.2.3	RA-223	OH207-7925-09	11/06/07 21:25	0.384	0.153	0.158	0.139
DOE 4.5.2.3	AC-228	OH207-7925-09	11/06/07 21:25	0.942	0.158	0.184	0.096
DOE 4.5.2.3	PA-233	OH207-7925-09	11/06/07 21:25	-0.020	0.029	0.029	0.048
DOE 4.5.2.3	PA-234M	OH207-7925-09	11/06/07 21:25	1.06	2.00	2.00	3.61
DOE 4.5.2.3	TH-234	OH207-7925-09	11/06/07 21:25	1.37	0.450	0.470	0.577
DOE 4.5.2.3	U-235	OH207-7925-09	11/06/07 21:25	0.057	0.113	0.113	0.188
DOE 4.5.2.3	NP-236	OH207-7925-09	11/06/07 21:25	0.021	0.037	0.037	0.060
DOE 4.5.2.3	NP-237	OH207-7925-09	11/06/07 21:25	0.567	0.189	0.197	0.208
DOE 4.5.2.3	NP-239	OH207-7925-09	11/06/07 21:25	-0.015	0.103	0.103	0.178
DOE 4.5.2.3	AM-241	OH207-7925-09	11/06/07 21:25	-0.061	0.088	0.088	0.147
DOE 4.5.2.3	AM-243	OH207-7925-09	11/06/07 21:25	0.208	0.059	0.063	0.050
DOE 4.5.2.3	CM-243	OH207-7925-09	11/06/07 21:25	-0.030	0.055	0.055	0.090
DOE 4.5.2.3	AM-246	OH207-7925-09	11/06/07 21:25	0.020	0.052	0.052	0.094
DOE 4.5.2.3	CF-249	OH207-7925-09	11/06/07 21:25	0.019	0.018	0.019	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2182-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-10	11/06/07 21:27	4.35	0.567	0.715	0.284
DOE 4.5.2.3	CO-60	OH207-7925-10	11/06/07 21:27	-5.0e-04	0.022	0.022	0.034
DOE 4.5.2.3	RH-101	OH207-7925-10	11/06/07 21:27	-0.015	0.020	0.020	0.033
DOE 4.5.2.3	SB-125	OH207-7925-10	11/06/07 21:27	0.022	0.055	0.055	0.098
DOE 4.5.2.3	CS-137	OH207-7925-10	11/06/07 21:27	0.190	0.044	0.048	0.039
DOE 4.5.2.3	EU-155	OH207-7925-10	11/06/07 21:27	0.052	0.060	0.060	0.105
DOE 4.5.2.3	TL-208	OH207-7925-10	11/06/07 21:27	0.384	0.061	0.072	0.033
DOE 4.5.2.3	PO-209	OH207-7925-10	11/06/07 21:27	2.32	3.82	3.83	7.06
DOE 4.5.2.3	BI-211	OH207-7925-10	11/06/07 21:27	0.292	0.598	0.599	1.06
DOE 4.5.2.3	BI-212	OH207-7925-10	11/06/07 21:27	0.820	0.252	0.265	0.270
DOE 4.5.2.3	PB-212	OH207-7925-10	11/06/07 21:27	1.15	0.109	0.159	0.055
DOE 4.5.2.3	BI-214	OH207-7925-10	11/06/07 21:27	0.964	0.111	0.147	0.065
DOE 4.5.2.3	PB-214	OH207-7925-10	11/06/07 21:27	0.974	0.121	0.156	0.067
DOE 4.5.2.3	RA-223	OH207-7925-10	11/06/07 21:27	0.256	0.165	0.167	0.179
DOE 4.5.2.3	AC-228	OH207-7925-10	11/06/07 21:27	1.15	0.185	0.218	0.127
DOE 4.5.2.3	PA-233	OH207-7925-10	11/06/07 21:27	-0.035	0.038	0.038	0.061
DOE 4.5.2.3	PA-234M	OH207-7925-10	11/06/07 21:27	2.41	2.48	2.49	4.63
DOE 4.5.2.3	TH-234	OH207-7925-10	11/06/07 21:27	1.27	0.400	0.419	0.411
DOE 4.5.2.3	U-235	OH207-7925-10	11/06/07 21:27	0.092	0.126	0.127	0.219
DOE 4.5.2.3	NP-236	OH207-7925-10	11/06/07 21:27	0.065	0.040	0.040	0.060
DOE 4.5.2.3	NP-237	OH207-7925-10	11/06/07 21:27	0.597	0.171	0.181	0.178
DOE 4.5.2.3	NP-239	OH207-7925-10	11/06/07 21:27	-0.020	0.130	0.130	0.218
DOE 4.5.2.3	AM-241	OH207-7925-10	11/06/07 21:27	0.050	0.041	0.041	0.062
DOE 4.5.2.3	AM-243	OH207-7925-10	11/06/07 21:27	0.202	0.053	0.057	0.035
DOE 4.5.2.3	CM-243	OH207-7925-10	11/06/07 21:27	-0.012	0.055	0.055	0.093
DOE 4.5.2.3	AM-246	OH207-7925-10	11/06/07 21:27	-0.011	0.069	0.069	0.121
DOE 4.5.2.3	CF-249	OH207-7925-10	11/06/07 21:27	0.015	0.023	0.023	0.041

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2183-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-11	11/07/07 00:44	6.30	0.643	0.900	0.242
DOE 4.5.2.3	CO-60	OH207-7925-11	11/07/07 00:44	0.003	0.016	0.016	0.025
DOE 4.5.2.3	RH-101	OH207-7925-11	11/07/07 00:44	0.004	0.018	0.018	0.030
DOE 4.5.2.3	SB-125	OH207-7925-11	11/07/07 00:44	0.015	0.045	0.045	0.079
DOE 4.5.2.3	CS-137	OH207-7925-11	11/07/07 00:44	0.062	0.025	0.025	0.031
DOE 4.5.2.3	EU-155	OH207-7925-11	11/07/07 00:44	0.056	0.065	0.066	0.113
DOE 4.5.2.3	TL-208	OH207-7925-11	11/07/07 00:44	0.471	0.064	0.080	0.028
DOE 4.5.2.3	PO-209	OH207-7925-11	11/07/07 00:44	-0.026	3.12	3.12	5.45
DOE 4.5.2.3	BI-211	OH207-7925-11	11/07/07 00:44	0.347	0.527	0.528	0.847
DOE 4.5.2.3	BI-212	OH207-7925-11	11/07/07 00:44	0.982	0.268	0.285	0.226
DOE 4.5.2.3	PB-212	OH207-7925-11	11/07/07 00:44	1.33	0.119	0.178	0.048
DOE 4.5.2.3	BI-214	OH207-7925-11	11/07/07 00:44	0.802	0.119	0.144	0.054
DOE 4.5.2.3	PB-214	OH207-7925-11	11/07/07 00:44	0.838	0.098	0.129	0.057
DOE 4.5.2.3	RA-223	OH207-7925-11	11/07/07 00:44	0.408	0.135	0.141	0.148
DOE 4.5.2.3	AC-228	OH207-7925-11	11/07/07 00:44	1.46	0.174	0.227	0.094
DOE 4.5.2.3	PA-233	OH207-7925-11	11/07/07 00:44	3.3e-04	0.030	0.030	0.053
DOE 4.5.2.3	PA-234M	OH207-7925-11	11/07/07 00:44	2.63	1.95	1.97	3.68
DOE 4.5.2.3	TH-234	OH207-7925-11	11/07/07 00:44	1.73	0.502	0.531	0.659
DOE 4.5.2.3	U-235	OH207-7925-11	11/07/07 00:44	-0.017	0.112	0.112	0.184
DOE 4.5.2.3	NP-236	OH207-7925-11	11/07/07 00:44	-0.006	0.039	0.039	0.063
DOE 4.5.2.3	NP-237	OH207-7925-11	11/07/07 00:44	0.785	0.193	0.208	0.274
DOE 4.5.2.3	NP-239	OH207-7925-11	11/07/07 00:44	0.051	0.114	0.114	0.188
DOE 4.5.2.3	AM-241	OH207-7925-11	11/07/07 00:44	0.047	0.103	0.103	0.180
DOE 4.5.2.3	AM-243	OH207-7925-11	11/07/07 00:44	0.257	0.073	0.078	0.058
DOE 4.5.2.3	CM-243	OH207-7925-11	11/07/07 00:44	-0.004	0.059	0.059	0.100
DOE 4.5.2.3	AM-246	OH207-7925-11	11/07/07 00:44	0.040	0.052	0.052	0.096
DOE 4.5.2.3	CF-249	OH207-7925-11	11/07/07 00:44	0.003	0.019	0.019	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2184-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-12	11/07/07 00:45	5.19	0.598	0.792	0.219
DOE 4.5.2.3	CO-60	OH207-7925-12	11/07/07 00:45	-8.3e-04	0.016	0.016	0.028
DOE 4.5.2.3	RH-101	OH207-7925-12	11/07/07 00:45	0.005	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7925-12	11/07/07 00:45	-0.012	0.046	0.046	0.077
DOE 4.5.2.3	CS-137	OH207-7925-12	11/07/07 00:45	0.240	0.040	0.047	0.025
DOE 4.5.2.3	EU-155	OH207-7925-12	11/07/07 00:45	0.060	0.062	0.062	0.105
DOE 4.5.2.3	TL-208	OH207-7925-12	11/07/07 00:45	0.360	0.056	0.067	0.028
DOE 4.5.2.3	PO-209	OH207-7925-12	11/07/07 00:45	-0.363	3.26	3.26	5.61
DOE 4.5.2.3	BI-211	OH207-7925-12	11/07/07 00:45	-0.071	0.511	0.511	0.761
DOE 4.5.2.3	BI-212	OH207-7925-12	11/07/07 00:45	0.770	0.220	0.233	0.200
DOE 4.5.2.3	PB-212	OH207-7925-12	11/07/07 00:45	1.01	0.095	0.138	0.046
DOE 4.5.2.3	BI-214	OH207-7925-12	11/07/07 00:45	0.943	0.129	0.160	0.051
DOE 4.5.2.3	PB-214	OH207-7925-12	11/07/07 00:45	0.989	0.108	0.146	0.055
DOE 4.5.2.3	RA-223	OH207-7925-12	11/07/07 00:45	0.311	0.116	0.120	0.136
DOE 4.5.2.3	AC-228	OH207-7925-12	11/07/07 00:45	1.19	0.171	0.208	0.100
DOE 4.5.2.3	PA-233	OH207-7925-12	11/07/07 00:45	0.002	0.029	0.029	0.051
DOE 4.5.2.3	PA-234M	OH207-7925-12	11/07/07 00:45	0.241	1.92	1.92	3.37
DOE 4.5.2.3	TH-234	OH207-7925-12	11/07/07 00:45	0.516	0.214	0.220	0.605
DOE 4.5.2.3	U-235	OH207-7925-12	11/07/07 00:45	0.111	0.112	0.113	0.188
DOE 4.5.2.3	NP-236	OH207-7925-12	11/07/07 00:45	0.050	0.039	0.039	0.061
DOE 4.5.2.3	NP-237	OH207-7925-12	11/07/07 00:45	0.577	0.197	0.205	0.251
DOE 4.5.2.3	NP-239	OH207-7925-12	11/07/07 00:45	0.066	0.110	0.111	0.194
DOE 4.5.2.3	AM-241	OH207-7925-12	11/07/07 00:45	7.0e-04	0.089	0.089	0.152
DOE 4.5.2.3	AM-243	OH207-7925-12	11/07/07 00:45	0.216	0.059	0.063	0.053
DOE 4.5.2.3	CM-243	OH207-7925-12	11/07/07 00:45	-0.007	0.056	0.056	0.093
DOE 4.5.2.3	AM-246	OH207-7925-12	11/07/07 00:45	-0.005	0.060	0.060	0.102
DOE 4.5.2.3	CF-249	OH207-7925-12	11/07/07 00:45	-0.008	0.020	0.020	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2185-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-13	11/07/07 00:47	4.15	0.525	0.669	0.242
DOE 4.5.2.3	CO-60	OH207-7925-13	11/07/07 00:47	0.014	0.019	0.019	0.033
DOE 4.5.2.3	RH-101	OH207-7925-13	11/07/07 00:47	0.022	0.019	0.019	0.033
DOE 4.5.2.3	SB-125	OH207-7925-13	11/07/07 00:47	-0.014	0.048	0.048	0.082
DOE 4.5.2.3	CS-137	OH207-7925-13	11/07/07 00:47	0.096	0.039	0.040	0.034
DOE 4.5.2.3	EU-155	OH207-7925-13	11/07/07 00:47	0.073	0.053	0.054	0.094
DOE 4.5.2.3	TL-208	OH207-7925-13	11/07/07 00:47	0.303	0.046	0.055	0.031
DOE 4.5.2.3	PO-209	OH207-7925-13	11/07/07 00:47	0.771	3.52	3.52	6.33
DOE 4.5.2.3	BI-211	OH207-7925-13	11/07/07 00:47	0.108	0.531	0.531	0.918
DOE 4.5.2.3	BI-212	OH207-7925-13	11/07/07 00:47	0.560	0.263	0.269	0.216
DOE 4.5.2.3	PB-212	OH207-7925-13	11/07/07 00:47	0.848	0.086	0.121	0.051
DOE 4.5.2.3	BI-214	OH207-7925-13	11/07/07 00:47	1.01	0.112	0.151	0.056
DOE 4.5.2.3	PB-214	OH207-7925-13	11/07/07 00:47	1.10	0.120	0.163	0.059
DOE 4.5.2.3	RA-223	OH207-7925-13	11/07/07 00:47	0.347	0.150	0.154	0.156
DOE 4.5.2.3	AC-228	OH207-7925-13	11/07/07 00:47	0.958	0.149	0.177	0.124
DOE 4.5.2.3	PA-233	OH207-7925-13	11/07/07 00:47	-0.014	0.033	0.033	0.054
DOE 4.5.2.3	PA-234M	OH207-7925-13	11/07/07 00:47	0.262	2.12	2.12	3.76
DOE 4.5.2.3	TH-234	OH207-7925-13	11/07/07 00:47	1.46	0.395	0.421	0.338
DOE 4.5.2.3	U-235	OH207-7925-13	11/07/07 00:47	0.024	0.110	0.110	0.189
DOE 4.5.2.3	NP-236	OH207-7925-13	11/07/07 00:47	0.035	0.034	0.034	0.050
DOE 4.5.2.3	NP-237	OH207-7925-13	11/07/07 00:47	0.616	0.160	0.171	0.147
DOE 4.5.2.3	NP-239	OH207-7925-13	11/07/07 00:47	0.031	0.118	0.118	0.200
DOE 4.5.2.3	AM-241	OH207-7925-13	11/07/07 00:47	0.034	0.036	0.036	0.053
DOE 4.5.2.3	AM-243	OH207-7925-13	11/07/07 00:47	0.156	0.041	0.044	0.029
DOE 4.5.2.3	CM-243	OH207-7925-13	11/07/07 00:47	0.029	0.048	0.048	0.084
DOE 4.5.2.3	AM-246	OH207-7925-13	11/07/07 00:47	-0.005	0.061	0.061	0.107
DOE 4.5.2.3	CF-249	OH207-7925-13	11/07/07 00:47	0.013	0.021	0.021	0.037

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2186-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7925	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7925-14	11/07/07 08:51	5.06	0.555	0.752	0.221
DOE 4.5.2.3	CO-60	OH207-7925-14	11/07/07 08:51	-0.004	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7925-14	11/07/07 08:51	0.010	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7925-14	11/07/07 08:51	8.2e-04	0.039	0.039	0.068
DOE 4.5.2.3	CS-137	OH207-7925-14	11/07/07 08:51	0.164	0.031	0.035	0.026
DOE 4.5.2.3	EU-155	OH207-7925-14	11/07/07 08:51	0.025	0.057	0.057	0.097
DOE 4.5.2.3	TL-208	OH207-7925-14	11/07/07 08:51	0.291	0.043	0.052	0.025
DOE 4.5.2.3	PO-209	OH207-7925-14	11/07/07 08:51	-0.601	2.69	2.69	4.63
DOE 4.5.2.3	BI-211	OH207-7925-14	11/07/07 08:51	-0.251	0.399	0.400	0.668
DOE 4.5.2.3	BI-212	OH207-7925-14	11/07/07 08:51	0.516	0.209	0.215	0.192
DOE 4.5.2.3	PB-212	OH207-7925-14	11/07/07 08:51	0.871	0.082	0.119	0.042
DOE 4.5.2.3	BI-214	OH207-7925-14	11/07/07 08:51	0.896	0.116	0.146	0.047
DOE 4.5.2.3	PB-214	OH207-7925-14	11/07/07 08:51	0.980	0.104	0.143	0.050
DOE 4.5.2.3	RA-223	OH207-7925-14	11/07/07 08:51	0.290	0.135	0.138	0.134
DOE 4.5.2.3	AC-228	OH207-7925-14	11/07/07 08:51	1.03	0.142	0.176	0.092
DOE 4.5.2.3	PA-233	OH207-7925-14	11/07/07 08:51	-0.006	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7925-14	11/07/07 08:51	0.905	1.59	1.59	2.90
DOE 4.5.2.3	TH-234	OH207-7925-14	11/07/07 08:51	1.24	0.413	0.431	0.545
DOE 4.5.2.3	U-235	OH207-7925-14	11/07/07 08:51	0.033	0.099	0.099	0.165
DOE 4.5.2.3	NP-236	OH207-7925-14	11/07/07 08:51	-0.022	0.036	0.036	0.053
DOE 4.5.2.3	NP-237	OH207-7925-14	11/07/07 08:51	0.518	0.184	0.191	0.226
DOE 4.5.2.3	NP-239	OH207-7925-14	11/07/07 08:51	0.077	0.105	0.105	0.174
DOE 4.5.2.3	AM-241	OH207-7925-14	11/07/07 08:51	0.036	0.087	0.087	0.153
DOE 4.5.2.3	AM-243	OH207-7925-14	11/07/07 08:51	0.197	0.056	0.059	0.049
DOE 4.5.2.3	CM-243	OH207-7925-14	11/07/07 08:51	0.007	0.052	0.052	0.088
DOE 4.5.2.3	AM-246	OH207-7925-14	11/07/07 08:51	0.023	0.048	0.048	0.086
DOE 4.5.2.3	CF-249	OH207-7925-14	11/07/07 08:51	0.005	0.018	0.018	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2173-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-01	11/08/07 17:49	4.21	0.523	0.672	0.204
DOE 4.5.2.3	CO-60	OH207-7926-01	11/08/07 17:49	-0.010	0.017	0.017	0.025
DOE 4.5.2.3	RH-101	OH207-7926-01	11/08/07 17:49	0.021	0.019	0.020	0.033
DOE 4.5.2.3	SB-125	OH207-7926-01	11/08/07 17:49	-0.015	0.048	0.048	0.081
DOE 4.5.2.3	CS-137	OH207-7926-01	11/08/07 17:49	0.035	0.031	0.031	0.034
DOE 4.5.2.3	EU-155	OH207-7926-01	11/08/07 17:49	0.140	0.099	0.100	0.115
DOE 4.5.2.3	TL-208	OH207-7926-01	11/08/07 17:49	0.564	0.074	0.093	0.033
DOE 4.5.2.3	PO-209	OH207-7926-01	11/08/07 17:49	-1.75	3.36	3.36	5.63
DOE 4.5.2.3	BI-211	OH207-7926-01	11/08/07 17:49	-0.294	0.523	0.524	0.880
DOE 4.5.2.3	BI-212	OH207-7926-01	11/08/07 17:49	1.02	0.268	0.287	0.246
DOE 4.5.2.3	PB-212	OH207-7926-01	11/08/07 17:49	1.69	0.148	0.225	0.054
DOE 4.5.2.3	BI-214	OH207-7926-01	11/08/07 17:49	0.820	0.117	0.143	0.063
DOE 4.5.2.3	PB-214	OH207-7926-01	11/08/07 17:49	0.838	0.101	0.132	0.061
DOE 4.5.2.3	RA-223	OH207-7926-01	11/08/07 17:49	0.527	0.178	0.186	0.158
DOE 4.5.2.3	AC-228	OH207-7926-01	11/08/07 17:49	1.86	0.183	0.261	0.090
DOE 4.5.2.3	PA-233	OH207-7926-01	11/08/07 17:49	-0.007	0.033	0.033	0.057
DOE 4.5.2.3	PA-234M	OH207-7926-01	11/08/07 17:49	2.35	1.91	1.93	3.66
DOE 4.5.2.3	TH-234	OH207-7926-01	11/08/07 17:49	2.66	0.628	0.682	0.768
DOE 4.5.2.3	U-235	OH207-7926-01	11/08/07 17:49	0.080	0.128	0.128	0.215
DOE 4.5.2.3	NP-236	OH207-7926-01	11/08/07 17:49	-0.023	0.043	0.043	0.071
DOE 4.5.2.3	NP-237	OH207-7926-01	11/08/07 17:49	1.19	0.307	0.329	0.257
DOE 4.5.2.3	NP-239	OH207-7926-01	11/08/07 17:49	0.034	0.126	0.126	0.207
DOE 4.5.2.3	AM-241	OH207-7926-01	11/08/07 17:49	-0.083	0.118	0.119	0.200
DOE 4.5.2.3	AM-243	OH207-7926-01	11/08/07 17:49	0.343	0.092	0.098	0.063
DOE 4.5.2.3	CM-243	OH207-7926-01	11/08/07 17:49	0.051	0.070	0.071	0.109
DOE 4.5.2.3	AM-246	OH207-7926-01	11/08/07 17:49	0.020	0.060	0.060	0.107
DOE 4.5.2.3	CF-249	OH207-7926-01	11/08/07 17:49	-0.006	0.021	0.021	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2174-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-02	11/07/07 15:12	5.31	0.579	0.786	0.186
DOE 4.5.2.3	CO-60	OH207-7926-02	11/07/07 15:12	0.005	0.015	0.015	0.023
DOE 4.5.2.3	RH-101	OH207-7926-02	11/07/07 15:12	-0.007	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7926-02	11/07/07 15:12	0.024	0.045	0.046	0.079
DOE 4.5.2.3	CS-137	OH207-7926-02	11/07/07 15:12	0.008	0.019	0.019	0.035
DOE 4.5.2.3	EU-155	OH207-7926-02	11/07/07 15:12	0.118	0.068	0.069	0.119
DOE 4.5.2.3	TL-208	OH207-7926-02	11/07/07 15:12	0.505	0.066	0.083	0.029
DOE 4.5.2.3	PO-209	OH207-7926-02	11/07/07 15:12	-0.534	3.17	3.17	5.46
DOE 4.5.2.3	BI-211	OH207-7926-02	11/07/07 15:12	0.287	0.516	0.517	0.821
DOE 4.5.2.3	BI-212	OH207-7926-02	11/07/07 15:12	1.03	0.282	0.300	0.228
DOE 4.5.2.3	PB-212	OH207-7926-02	11/07/07 15:12	1.50	0.131	0.199	0.048
DOE 4.5.2.3	BI-214	OH207-7926-02	11/07/07 15:12	0.929	0.122	0.154	0.054
DOE 4.5.2.3	PB-214	OH207-7926-02	11/07/07 15:12	0.939	0.103	0.139	0.055
DOE 4.5.2.3	RA-223	OH207-7926-02	11/07/07 15:12	0.601	0.170	0.180	0.141
DOE 4.5.2.3	AC-228	OH207-7926-02	11/07/07 15:12	1.79	0.178	0.252	0.095
DOE 4.5.2.3	PA-233	OH207-7926-02	11/07/07 15:12	-0.004	0.029	0.029	0.049
DOE 4.5.2.3	PA-234M	OH207-7926-02	11/07/07 15:12	2.00	1.65	1.66	3.14
DOE 4.5.2.3	TH-234	OH207-7926-02	11/07/07 15:12	1.96	0.511	0.548	0.651
DOE 4.5.2.3	U-235	OH207-7926-02	11/07/07 15:12	0.137	0.117	0.118	0.199
DOE 4.5.2.3	NP-236	OH207-7926-02	11/07/07 15:12	0.037	0.043	0.043	0.066
DOE 4.5.2.3	NP-237	OH207-7926-02	11/07/07 15:12	0.948	0.256	0.273	0.232
DOE 4.5.2.3	NP-239	OH207-7926-02	11/07/07 15:12	-0.076	0.118	0.118	0.187
DOE 4.5.2.3	AM-241	OH207-7926-02	11/07/07 15:12	-0.019	0.104	0.104	0.179
DOE 4.5.2.3	AM-243	OH207-7926-02	11/07/07 15:12	0.286	0.078	0.083	0.058
DOE 4.5.2.3	CM-243	OH207-7926-02	11/07/07 15:12	0.023	0.061	0.061	0.104
DOE 4.5.2.3	AM-246	OH207-7926-02	11/07/07 15:12	0.045	0.055	0.056	0.101
DOE 4.5.2.3	CF-249	OH207-7926-02	11/07/07 15:12	0.020	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2175-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-03	11/07/07 15:20	5.00	0.662	0.829	0.306
DOE 4.5.2.3	CO-60	OH207-7926-03	11/07/07 15:20	0.029	0.021	0.022	0.035
DOE 4.5.2.3	RH-101	OH207-7926-03	11/07/07 15:20	0.001	0.021	0.021	0.035
DOE 4.5.2.3	SB-125	OH207-7926-03	11/07/07 15:20	-0.019	0.055	0.055	0.093
DOE 4.5.2.3	CS-137	OH207-7926-03	11/07/07 15:20	0.013	0.022	0.022	0.039
DOE 4.5.2.3	EU-155	OH207-7926-03	11/07/07 15:20	0.010	0.061	0.061	0.105
DOE 4.5.2.3	TL-208	OH207-7926-03	11/07/07 15:20	0.458	0.060	0.076	0.032
DOE 4.5.2.3	PO-209	OH207-7926-03	11/07/07 15:20	-2.59	3.88	3.89	6.51
DOE 4.5.2.3	BI-211	OH207-7926-03	11/07/07 15:20	-0.295	0.592	0.593	0.973
DOE 4.5.2.3	BI-212	OH207-7926-03	11/07/07 15:20	1.00	0.320	0.335	0.259
DOE 4.5.2.3	PB-212	OH207-7926-03	11/07/07 15:20	1.42	0.128	0.192	0.056
DOE 4.5.2.3	BI-214	OH207-7926-03	11/07/07 15:20	0.962	0.120	0.154	0.065
DOE 4.5.2.3	PB-214	OH207-7926-03	11/07/07 15:20	1.09	0.127	0.167	0.070
DOE 4.5.2.3	RA-223	OH207-7926-03	11/07/07 15:20	0.525	0.169	0.177	0.174
DOE 4.5.2.3	AC-228	OH207-7926-03	11/07/07 15:20	1.41	0.208	0.251	0.119
DOE 4.5.2.3	PA-233	OH207-7926-03	11/07/07 15:20	0.008	0.037	0.037	0.062
DOE 4.5.2.3	PA-234M	OH207-7926-03	11/07/07 15:20	1.52	2.43	2.44	4.44
DOE 4.5.2.3	TH-234	OH207-7926-03	11/07/07 15:20	1.54	0.418	0.445	0.583
DOE 4.5.2.3	U-235	OH207-7926-03	11/07/07 15:20	0.019	0.127	0.127	0.217
DOE 4.5.2.3	NP-236	OH207-7926-03	11/07/07 15:20	0.023	0.040	0.040	0.057
DOE 4.5.2.3	NP-237	OH207-7926-03	11/07/07 15:20	0.703	0.160	0.175	0.171
DOE 4.5.2.3	NP-239	OH207-7926-03	11/07/07 15:20	0.060	0.138	0.138	0.235
DOE 4.5.2.3	AM-241	OH207-7926-03	11/07/07 15:20	-0.110	0.043	0.044	0.065
DOE 4.5.2.3	AM-243	OH207-7926-03	11/07/07 15:20	0.240	0.058	0.062	0.036
DOE 4.5.2.3	CM-243	OH207-7926-03	11/07/07 15:20	-0.022	0.055	0.055	0.094
DOE 4.5.2.3	AM-246	OH207-7926-03	11/07/07 15:20	-0.021	0.065	0.065	0.112
DOE 4.5.2.3	CF-249	OH207-7926-03	11/07/07 15:20	0.010	0.023	0.023	0.040

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2176-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-04	11/07/07 18:33	5.46	0.602	0.813	0.224
DOE 4.5.2.3	CO-60	OH207-7926-04	11/07/07 18:33	0.007	0.015	0.015	0.022
DOE 4.5.2.3	RH-101	OH207-7926-04	11/07/07 18:33	0.001	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7926-04	11/07/07 18:33	0.043	0.039	0.040	0.071
DOE 4.5.2.3	CS-137	OH207-7926-04	11/07/07 18:33	4.3e-05	0.016	0.016	0.029
DOE 4.5.2.3	EU-155	OH207-7926-04	11/07/07 18:33	0.052	0.058	0.058	0.100
DOE 4.5.2.3	TL-208	OH207-7926-04	11/07/07 18:33	0.345	0.053	0.063	0.028
DOE 4.5.2.3	PO-209	OH207-7926-04	11/07/07 18:33	0.754	2.76	2.76	4.92
DOE 4.5.2.3	BI-211	OH207-7926-04	11/07/07 18:33	0.112	0.432	0.432	0.765
DOE 4.5.2.3	BI-212	OH207-7926-04	11/07/07 18:33	0.697	0.206	0.217	0.197
DOE 4.5.2.3	PB-212	OH207-7926-04	11/07/07 18:33	1.01	0.093	0.137	0.042
DOE 4.5.2.3	BI-214	OH207-7926-04	11/07/07 18:33	1.01	0.130	0.165	0.048
DOE 4.5.2.3	PB-214	OH207-7926-04	11/07/07 18:33	1.13	0.118	0.163	0.049
DOE 4.5.2.3	RA-223	OH207-7926-04	11/07/07 18:33	0.354	0.131	0.136	0.136
DOE 4.5.2.3	AC-228	OH207-7926-04	11/07/07 18:33	1.17	0.145	0.187	0.088
DOE 4.5.2.3	PA-233	OH207-7926-04	11/07/07 18:33	-0.026	0.027	0.027	0.045
DOE 4.5.2.3	PA-234M	OH207-7926-04	11/07/07 18:33	0.744	1.57	1.57	2.84
DOE 4.5.2.3	TH-234	OH207-7926-04	11/07/07 18:33	1.12	0.411	0.426	0.582
DOE 4.5.2.3	U-235	OH207-7926-04	11/07/07 18:33	0.073	0.101	0.101	0.170
DOE 4.5.2.3	NP-236	OH207-7926-04	11/07/07 18:33	0.049	0.034	0.034	0.059
DOE 4.5.2.3	NP-237	OH207-7926-04	11/07/07 18:33	0.679	0.203	0.214	0.228
DOE 4.5.2.3	NP-239	OH207-7926-04	11/07/07 18:33	0.045	0.104	0.105	0.173
DOE 4.5.2.3	AM-241	OH207-7926-04	11/07/07 18:33	-0.036	0.091	0.091	0.155
DOE 4.5.2.3	AM-243	OH207-7926-04	11/07/07 18:33	0.213	0.059	0.063	0.050
DOE 4.5.2.3	CM-243	OH207-7926-04	11/07/07 18:33	-0.021	0.052	0.052	0.087
DOE 4.5.2.3	AM-246	OH207-7926-04	11/07/07 18:33	0.007	0.051	0.051	0.089
DOE 4.5.2.3	CF-249	OH207-7926-04	11/07/07 18:33	0.001	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2177-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-05	11/07/07 18:37	5.89	0.693	0.910	0.291
DOE 4.5.2.3	CO-60	OH207-7926-05	11/07/07 18:37	-0.002	0.018	0.018	0.028
DOE 4.5.2.3	RH-101	OH207-7926-05	11/07/07 18:37	0.004	0.020	0.020	0.032
DOE 4.5.2.3	SB-125	OH207-7926-05	11/07/07 18:37	-0.002	0.049	0.049	0.082
DOE 4.5.2.3	CS-137	OH207-7926-05	11/07/07 18:37	0.031	0.028	0.028	0.036
DOE 4.5.2.3	EU-155	OH207-7926-05	11/07/07 18:37	0.067	0.069	0.069	0.118
DOE 4.5.2.3	TL-208	OH207-7926-05	11/07/07 18:37	0.474	0.066	0.082	0.031
DOE 4.5.2.3	PO-209	OH207-7926-05	11/07/07 18:37	0.212	3.92	3.93	6.82
DOE 4.5.2.3	BI-211	OH207-7926-05	11/07/07 18:37	0.666	0.554	0.558	0.936
DOE 4.5.2.3	BI-212	OH207-7926-05	11/07/07 18:37	1.01	0.232	0.254	0.239
DOE 4.5.2.3	PB-212	OH207-7926-05	11/07/07 18:37	1.32	0.118	0.177	0.051
DOE 4.5.2.3	BI-214	OH207-7926-05	11/07/07 18:37	1.02	0.140	0.173	0.058
DOE 4.5.2.3	PB-214	OH207-7926-05	11/07/07 18:37	1.08	0.118	0.160	0.060
DOE 4.5.2.3	RA-223	OH207-7926-05	11/07/07 18:37	0.396	0.164	0.169	0.157
DOE 4.5.2.3	AC-228	OH207-7926-05	11/07/07 18:37	1.50	0.201	0.251	0.105
DOE 4.5.2.3	PA-233	OH207-7926-05	11/07/07 18:37	0.033	0.033	0.033	0.058
DOE 4.5.2.3	PA-234M	OH207-7926-05	11/07/07 18:37	2.96	2.13	2.15	4.07
DOE 4.5.2.3	TH-234	OH207-7926-05	11/07/07 18:37	2.20	0.531	0.574	0.713
DOE 4.5.2.3	U-235	OH207-7926-05	11/07/07 18:37	0.040	0.125	0.125	0.206
DOE 4.5.2.3	NP-236	OH207-7926-05	11/07/07 18:37	0.049	0.042	0.042	0.068
DOE 4.5.2.3	NP-237	OH207-7926-05	11/07/07 18:37	0.910	0.252	0.268	0.290
DOE 4.5.2.3	NP-239	OH207-7926-05	11/07/07 18:37	-0.045	0.119	0.119	0.204
DOE 4.5.2.3	AM-241	OH207-7926-05	11/07/07 18:37	-0.074	0.107	0.108	0.179
DOE 4.5.2.3	AM-243	OH207-7926-05	11/07/07 18:37	0.314	0.079	0.085	0.062
DOE 4.5.2.3	CM-243	OH207-7926-05	11/07/07 18:37	-0.003	0.062	0.062	0.103
DOE 4.5.2.3	AM-246	OH207-7926-05	11/07/07 18:37	-0.007	0.064	0.064	0.109
DOE 4.5.2.3	CF-249	OH207-7926-05	11/07/07 18:37	0.026	0.021	0.021	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2178-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-06	11/07/07 18:39	7.43	0.768	1.07	0.294
DOE 4.5.2.3	CO-60	OH207-7926-06	11/07/07 18:39	-0.007	0.022	0.022	0.035
DOE 4.5.2.3	RH-101	OH207-7926-06	11/07/07 18:39	-0.003	0.021	0.021	0.035
DOE 4.5.2.3	SB-125	OH207-7926-06	11/07/07 18:39	0.017	0.055	0.055	0.097
DOE 4.5.2.3	CS-137	OH207-7926-06	11/07/07 18:39	0.031	0.024	0.024	0.043
DOE 4.5.2.3	EU-155	OH207-7926-06	11/07/07 18:39	0.009	0.061	0.061	0.105
DOE 4.5.2.3	TL-208	OH207-7926-06	11/07/07 18:39	0.458	0.062	0.077	0.035
DOE 4.5.2.3	PO-209	OH207-7926-06	11/07/07 18:39	1.39	3.96	3.97	7.15
DOE 4.5.2.3	BI-211	OH207-7926-06	11/07/07 18:39	-0.474	0.614	0.615	0.987
DOE 4.5.2.3	BI-212	OH207-7926-06	11/07/07 18:39	0.890	0.308	0.320	0.262
DOE 4.5.2.3	PB-212	OH207-7926-06	11/07/07 18:39	1.46	0.129	0.195	0.057
DOE 4.5.2.3	BI-214	OH207-7926-06	11/07/07 18:39	1.11	0.132	0.172	0.062
DOE 4.5.2.3	PB-214	OH207-7926-06	11/07/07 18:39	1.14	0.126	0.170	0.064
DOE 4.5.2.3	RA-223	OH207-7926-06	11/07/07 18:39	0.453	0.160	0.167	0.172
DOE 4.5.2.3	AC-228	OH207-7926-06	11/07/07 18:39	1.49	0.198	0.248	0.114
DOE 4.5.2.3	PA-233	OH207-7926-06	11/07/07 18:39	-0.012	0.039	0.039	0.064
DOE 4.5.2.3	PA-234M	OH207-7926-06	11/07/07 18:39	0.204	2.38	2.38	4.19
DOE 4.5.2.3	TH-234	OH207-7926-06	11/07/07 18:39	1.95	0.456	0.496	0.407
DOE 4.5.2.3	U-235	OH207-7926-06	11/07/07 18:39	-0.045	0.131	0.131	0.221
DOE 4.5.2.3	NP-236	OH207-7926-06	11/07/07 18:39	0.047	0.040	0.040	0.058
DOE 4.5.2.3	NP-237	OH207-7926-06	11/07/07 18:39	0.843	0.189	0.207	0.177
DOE 4.5.2.3	NP-239	OH207-7926-06	11/07/07 18:39	0.010	0.138	0.138	0.233
DOE 4.5.2.3	AM-241	OH207-7926-06	11/07/07 18:39	0.058	0.042	0.043	0.064
DOE 4.5.2.3	AM-243	OH207-7926-06	11/07/07 18:39	0.266	0.068	0.073	0.036
DOE 4.5.2.3	CM-243	OH207-7926-06	11/07/07 18:39	-0.068	0.057	0.057	0.094
DOE 4.5.2.3	AM-246	OH207-7926-06	11/07/07 18:39	0.084	0.075	0.075	0.139
DOE 4.5.2.3	CF-249	OH207-7926-06	11/07/07 18:39	0.002	0.024	0.024	0.042

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2179-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-07	11/07/07 21:34	6.18	0.698	0.932	0.219
DOE 4.5.2.3	CO-60	OH207-7926-07	11/07/07 21:34	0.004	0.018	0.018	0.027
DOE 4.5.2.3	RH-101	OH207-7926-07	11/07/07 21:34	-0.001	0.019	0.019	0.031
DOE 4.5.2.3	SB-125	OH207-7926-07	11/07/07 21:34	-0.010	0.047	0.047	0.080
DOE 4.5.2.3	CS-137	OH207-7926-07	11/07/07 21:34	0.184	0.047	0.050	0.034
DOE 4.5.2.3	EU-155	OH207-7926-07	11/07/07 21:34	0.025	0.066	0.066	0.113
DOE 4.5.2.3	TL-208	OH207-7926-07	11/07/07 21:34	0.386	0.056	0.068	0.030
DOE 4.5.2.3	PO-209	OH207-7926-07	11/07/07 21:34	-1.15	3.39	3.39	5.77
DOE 4.5.2.3	BI-211	OH207-7926-07	11/07/07 21:34	-0.584	0.517	0.520	0.833
DOE 4.5.2.3	BI-212	OH207-7926-07	11/07/07 21:34	0.832	0.245	0.259	0.209
DOE 4.5.2.3	PB-212	OH207-7926-07	11/07/07 21:34	1.11	0.105	0.153	0.049
DOE 4.5.2.3	BI-214	OH207-7926-07	11/07/07 21:34	1.15	0.145	0.186	0.057
DOE 4.5.2.3	PB-214	OH207-7926-07	11/07/07 21:34	1.25	0.130	0.180	0.061
DOE 4.5.2.3	RA-223	OH207-7926-07	11/07/07 21:34	0.076	0.090	0.090	0.156
DOE 4.5.2.3	AC-228	OH207-7926-07	11/07/07 21:34	1.29	0.172	0.215	0.101
DOE 4.5.2.3	PA-233	OH207-7926-07	11/07/07 21:34	-0.002	0.031	0.031	0.053
DOE 4.5.2.3	PA-234M	OH207-7926-07	11/07/07 21:34	2.44	1.95	1.96	3.70
DOE 4.5.2.3	TH-234	OH207-7926-07	11/07/07 21:34	1.55	0.507	0.530	0.503
DOE 4.5.2.3	U-235	OH207-7926-07	11/07/07 21:34	0.075	0.120	0.120	0.202
DOE 4.5.2.3	NP-236	OH207-7926-07	11/07/07 21:34	-0.041	0.040	0.040	0.066
DOE 4.5.2.3	NP-237	OH207-7926-07	11/07/07 21:34	0.848	0.255	0.268	0.241
DOE 4.5.2.3	NP-239	OH207-7926-07	11/07/07 21:34	-0.064	0.123	0.123	0.196
DOE 4.5.2.3	AM-241	OH207-7926-07	11/07/07 21:34	0.047	0.120	0.120	0.189
DOE 4.5.2.3	AM-243	OH207-7926-07	11/07/07 21:34	0.270	0.076	0.081	0.061
DOE 4.5.2.3	CM-243	OH207-7926-07	11/07/07 21:34	-0.018	0.060	0.060	0.101
DOE 4.5.2.3	AM-246	OH207-7926-07	11/07/07 21:34	0.011	0.054	0.054	0.097
DOE 4.5.2.3	CF-249	OH207-7926-07	11/07/07 21:34	0.018	0.021	0.021	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2180-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-08	11/07/07 21:39	5.96	0.694	0.915	0.270
DOE 4.5.2.3	CO-60	OH207-7926-08	11/07/07 21:39	0.003	0.018	0.018	0.028
DOE 4.5.2.3	RH-101	OH207-7926-08	11/07/07 21:39	-0.020	0.020	0.020	0.030
DOE 4.5.2.3	SB-125	OH207-7926-08	11/07/07 21:39	0.024	0.051	0.051	0.088
DOE 4.5.2.3	CS-137	OH207-7926-08	11/07/07 21:39	0.038	0.029	0.029	0.035
DOE 4.5.2.3	EU-155	OH207-7926-08	11/07/07 21:39	0.099	0.070	0.071	0.121
DOE 4.5.2.3	TL-208	OH207-7926-08	11/07/07 21:39	0.466	0.065	0.080	0.032
DOE 4.5.2.3	PO-209	OH207-7926-08	11/07/07 21:39	-0.493	3.45	3.45	5.94
DOE 4.5.2.3	BI-211	OH207-7926-08	11/07/07 21:39	0.420	0.571	0.572	0.923
DOE 4.5.2.3	BI-212	OH207-7926-08	11/07/07 21:39	1.16	0.336	0.355	0.233
DOE 4.5.2.3	PB-212	OH207-7926-08	11/07/07 21:39	1.29	0.116	0.174	0.051
DOE 4.5.2.3	BI-214	OH207-7926-08	11/07/07 21:39	0.876	0.125	0.152	0.062
DOE 4.5.2.3	PB-214	OH207-7926-08	11/07/07 21:39	0.981	0.111	0.148	0.061
DOE 4.5.2.3	RA-223	OH207-7926-08	11/07/07 21:39	0.539	0.175	0.183	0.146
DOE 4.5.2.3	AC-228	OH207-7926-08	11/07/07 21:39	1.43	0.200	0.246	0.109
DOE 4.5.2.3	PA-233	OH207-7926-08	11/07/07 21:39	0.006	0.034	0.034	0.058
DOE 4.5.2.3	PA-234M	OH207-7926-08	11/07/07 21:39	1.02	2.11	2.11	3.80
DOE 4.5.2.3	TH-234	OH207-7926-08	11/07/07 21:39	2.11	0.549	0.589	0.688
DOE 4.5.2.3	U-235	OH207-7926-08	11/07/07 21:39	0.040	0.125	0.125	0.206
DOE 4.5.2.3	NP-236	OH207-7926-08	11/07/07 21:39	0.027	0.042	0.042	0.065
DOE 4.5.2.3	NP-237	OH207-7926-08	11/07/07 21:39	1.14	0.264	0.288	0.229
DOE 4.5.2.3	NP-239	OH207-7926-08	11/07/07 21:39	-0.044	0.118	0.118	0.202
DOE 4.5.2.3	AM-241	OH207-7926-08	11/07/07 21:39	-0.033	0.102	0.102	0.172
DOE 4.5.2.3	AM-243	OH207-7926-08	11/07/07 21:39	0.240	0.070	0.074	0.060
DOE 4.5.2.3	CM-243	OH207-7926-08	11/07/07 21:39	0.028	0.062	0.062	0.105
DOE 4.5.2.3	AM-246	OH207-7926-08	11/07/07 21:39	0.068	0.062	0.062	0.116
DOE 4.5.2.3	CF-249	OH207-7926-08	11/07/07 21:39	0.027	0.021	0.021	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2181-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-09	11/07/07 21:40	3.14	0.478	0.572	0.254
DOE 4.5.2.3	CO-60	OH207-7926-09	11/07/07 21:40	0.010	0.017	0.017	0.026
DOE 4.5.2.3	RH-101	OH207-7926-09	11/07/07 21:40	-0.001	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7926-09	11/07/07 21:40	-0.008	0.044	0.044	0.075
DOE 4.5.2.3	CS-137	OH207-7926-09	11/07/07 21:40	0.004	0.017	0.017	0.030
DOE 4.5.2.3	EU-155	OH207-7926-09	11/07/07 21:40	0.047	0.050	0.050	0.087
DOE 4.5.2.3	TL-208	OH207-7926-09	11/07/07 21:40	0.307	0.044	0.054	0.028
DOE 4.5.2.3	PO-209	OH207-7926-09	11/07/07 21:40	3.10	3.22	3.23	5.97
DOE 4.5.2.3	BI-211	OH207-7926-09	11/07/07 21:40	-0.175	0.512	0.512	0.849
DOE 4.5.2.3	BI-212	OH207-7926-09	11/07/07 21:40	0.587	0.187	0.196	0.236
DOE 4.5.2.3	PB-212	OH207-7926-09	11/07/07 21:40	0.949	0.090	0.131	0.046
DOE 4.5.2.3	BI-214	OH207-7926-09	11/07/07 21:40	0.881	0.103	0.136	0.055
DOE 4.5.2.3	PB-214	OH207-7926-09	11/07/07 21:40	0.960	0.111	0.147	0.058
DOE 4.5.2.3	RA-223	OH207-7926-09	11/07/07 21:40	0.424	0.169	0.174	0.143
DOE 4.5.2.3	AC-228	OH207-7926-09	11/07/07 21:40	1.04	0.141	0.175	0.100
DOE 4.5.2.3	PA-233	OH207-7926-09	11/07/07 21:40	-0.010	0.030	0.030	0.050
DOE 4.5.2.3	PA-234M	OH207-7926-09	11/07/07 21:40	2.21	2.01	2.02	3.76
DOE 4.5.2.3	TH-234	OH207-7926-09	11/07/07 21:40	1.41	0.357	0.384	0.435
DOE 4.5.2.3	U-235	OH207-7926-09	11/07/07 21:40	0.053	0.105	0.105	0.180
DOE 4.5.2.3	NP-236	OH207-7926-09	11/07/07 21:40	0.013	0.032	0.032	0.046
DOE 4.5.2.3	NP-237	OH207-7926-09	11/07/07 21:40	0.456	0.129	0.137	0.141
DOE 4.5.2.3	NP-239	OH207-7926-09	11/07/07 21:40	0.006	0.111	0.111	0.187
DOE 4.5.2.3	AM-241	OH207-7926-09	11/07/07 21:40	-0.075	0.032	0.033	0.048
DOE 4.5.2.3	AM-243	OH207-7926-09	11/07/07 21:40	0.124	0.035	0.037	0.027
DOE 4.5.2.3	CM-243	OH207-7926-09	11/07/07 21:40	0.021	0.044	0.045	0.077
DOE 4.5.2.3	AM-246	OH207-7926-09	11/07/07 21:40	0.041	0.054	0.054	0.101
DOE 4.5.2.3	CF-249	OH207-7926-09	11/07/07 21:40	0.015	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2182-SD
Other Sample ID: Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7926 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-10	11/08/07 08:20	5.01	0.583	0.769	0.322
DOE 4.5.2.3	CO-60	OH207-7926-10	11/08/07 08:20	0.004	0.021	0.021	0.032
DOE 4.5.2.3	RH-101	OH207-7926-10	11/08/07 08:20	1.7e-04	0.021	0.021	0.035
DOE 4.5.2.3	SB-125	OH207-7926-10	11/08/07 08:20	0.024	0.057	0.057	0.101
DOE 4.5.2.3	CS-137	OH207-7926-10	11/08/07 08:20	0.009	0.023	0.023	0.041
DOE 4.5.2.3	EU-155	OH207-7926-10	11/08/07 08:20	0.085	0.059	0.060	0.104
DOE 4.5.2.3	TL-208	OH207-7926-10	11/08/07 08:20	0.400	0.054	0.067	0.034
DOE 4.5.2.3	PO-209	OH207-7926-10	11/08/07 08:20	2.00	4.30	4.31	7.78
DOE 4.5.2.3	BI-211	OH207-7926-10	11/08/07 08:20	-0.470	0.617	0.619	0.993
DOE 4.5.2.3	BI-212	OH207-7926-10	11/08/07 08:20	0.542	0.245	0.251	0.270
DOE 4.5.2.3	PB-212	OH207-7926-10	11/08/07 08:20	1.22	0.114	0.167	0.057
DOE 4.5.2.3	BI-214	OH207-7926-10	11/08/07 08:20	1.11	0.128	0.170	0.061
DOE 4.5.2.3	PB-214	OH207-7926-10	11/08/07 08:20	1.11	0.128	0.169	0.066
DOE 4.5.2.3	RA-223	OH207-7926-10	11/08/07 08:20	0.303	0.165	0.167	0.172
DOE 4.5.2.3	AC-228	OH207-7926-10	11/08/07 08:20	1.35	0.204	0.245	0.129
DOE 4.5.2.3	PA-233	OH207-7926-10	11/08/07 08:20	0.016	0.037	0.037	0.063
DOE 4.5.2.3	PA-234M	OH207-7926-10	11/08/07 08:20	0.552	2.31	2.31	4.12
DOE 4.5.2.3	TH-234	OH207-7926-10	11/08/07 08:20	1.73	0.432	0.466	0.399
DOE 4.5.2.3	U-235	OH207-7926-10	11/08/07 08:20	0.111	0.126	0.126	0.218
DOE 4.5.2.3	NP-236	OH207-7926-10	11/08/07 08:20	0.070	0.039	0.040	0.059
DOE 4.5.2.3	NP-237	OH207-7926-10	11/08/07 08:20	0.694	0.154	0.169	0.178
DOE 4.5.2.3	NP-239	OH207-7926-10	11/08/07 08:20	0.088	0.135	0.135	0.231
DOE 4.5.2.3	AM-241	OH207-7926-10	11/08/07 08:20	0.051	0.040	0.040	0.061
DOE 4.5.2.3	AM-243	OH207-7926-10	11/08/07 08:20	0.182	0.045	0.049	0.034
DOE 4.5.2.3	CM-243	OH207-7926-10	11/08/07 08:20	0.045	0.053	0.054	0.093
DOE 4.5.2.3	AM-246	OH207-7926-10	11/08/07 08:20	-0.046	0.073	0.074	0.123
DOE 4.5.2.3	CF-249	OH207-7926-10	11/08/07 08:20	-0.005	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2183-SD
Other Sample ID: Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7926 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-11	11/08/07 11:40	6.49	0.721	0.970	0.278
DOE 4.5.2.3	CO-60	OH207-7926-11	11/08/07 11:40	-0.006	0.020	0.020	0.030
DOE 4.5.2.3	RH-101	OH207-7926-11	11/08/07 11:40	-0.006	0.021	0.021	0.034
DOE 4.5.2.3	SB-125	OH207-7926-11	11/08/07 11:40	0.013	0.051	0.051	0.088
DOE 4.5.2.3	CS-137	OH207-7926-11	11/08/07 11:40	-0.002	0.021	0.021	0.036
DOE 4.5.2.3	EU-155	OH207-7926-11	11/08/07 11:40	0.131	0.074	0.075	0.130
DOE 4.5.2.3	TL-208	OH207-7926-11	11/08/07 11:40	0.596	0.076	0.097	0.035
DOE 4.5.2.3	PO-209	OH207-7926-11	11/08/07 11:40	-1.56	3.52	3.52	5.93
DOE 4.5.2.3	BI-211	OH207-7926-11	11/08/07 11:40	0.137	0.573	0.573	0.892
DOE 4.5.2.3	BI-212	OH207-7926-11	11/08/07 11:40	1.10	0.333	0.351	0.254
DOE 4.5.2.3	PB-212	OH207-7926-11	11/08/07 11:40	1.79	0.156	0.237	0.052
DOE 4.5.2.3	BI-214	OH207-7926-11	11/08/07 11:40	1.06	0.139	0.175	0.061
DOE 4.5.2.3	PB-214	OH207-7926-11	11/08/07 11:40	1.00	0.117	0.154	0.062
DOE 4.5.2.3	RA-223	OH207-7926-11	11/08/07 11:40	0.614	0.179	0.189	0.161
DOE 4.5.2.3	AC-228	OH207-7926-11	11/08/07 11:40	1.87	0.215	0.285	0.112
DOE 4.5.2.3	PA-233	OH207-7926-11	11/08/07 11:40	-0.005	0.033	0.033	0.058
DOE 4.5.2.3	PA-234M	OH207-7926-11	11/08/07 11:40	0.906	2.17	2.17	3.87
DOE 4.5.2.3	TH-234	OH207-7926-11	11/08/07 11:40	2.17	0.579	0.618	0.557
DOE 4.5.2.3	U-235	OH207-7926-11	11/08/07 11:40	0.024	0.128	0.128	0.214
DOE 4.5.2.3	NP-236	OH207-7926-11	11/08/07 11:40	0.036	0.045	0.045	0.074
DOE 4.5.2.3	NP-237	OH207-7926-11	11/08/07 11:40	1.14	0.294	0.315	0.266
DOE 4.5.2.3	NP-239	OH207-7926-11	11/08/07 11:40	0.066	0.133	0.133	0.220
DOE 4.5.2.3	AM-241	OH207-7926-11	11/08/07 11:40	0.034	0.129	0.129	0.203
DOE 4.5.2.3	AM-243	OH207-7926-11	11/08/07 11:40	0.328	0.087	0.093	0.065
DOE 4.5.2.3	CM-243	OH207-7926-11	11/08/07 11:40	-0.076	0.068	0.068	0.110
DOE 4.5.2.3	AM-246	OH207-7926-11	11/08/07 11:40	0.066	0.063	0.063	0.117
DOE 4.5.2.3	CF-249	OH207-7926-11	11/08/07 11:40	0.024	0.022	0.022	0.040

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2184-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-12	11/08/07 11:41	7.60	0.788	1.09	0.225
DOE 4.5.2.3	CO-60	OH207-7926-12	11/08/07 11:41	0.005	0.020	0.020	0.030
DOE 4.5.2.3	RH-101	OH207-7926-12	11/08/07 11:41	7.6e-05	0.020	0.020	0.032
DOE 4.5.2.3	SB-125	OH207-7926-12	11/08/07 11:41	0.004	0.052	0.052	0.088
DOE 4.5.2.3	CS-137	OH207-7926-12	11/08/07 11:41	0.039	0.026	0.026	0.037
DOE 4.5.2.3	EU-155	OH207-7926-12	11/08/07 11:41	0.088	0.072	0.072	0.123
DOE 4.5.2.3	TL-208	OH207-7926-12	11/08/07 11:41	0.475	0.070	0.084	0.032
DOE 4.5.2.3	PO-209	OH207-7926-12	11/08/07 11:41	2.02	3.70	3.71	6.65
DOE 4.5.2.3	BI-211	OH207-7926-12	11/08/07 11:41	0.376	0.565	0.566	0.912
DOE 4.5.2.3	BI-212	OH207-7926-12	11/08/07 11:41	0.966	0.326	0.341	0.227
DOE 4.5.2.3	PB-212	OH207-7926-12	11/08/07 11:41	1.34	0.122	0.181	0.054
DOE 4.5.2.3	BI-214	OH207-7926-12	11/08/07 11:41	0.971	0.141	0.171	0.066
DOE 4.5.2.3	PB-214	OH207-7926-12	11/08/07 11:41	1.11	0.124	0.166	0.063
DOE 4.5.2.3	RA-223	OH207-7926-12	11/08/07 11:41	0.237	0.136	0.138	0.162
DOE 4.5.2.3	AC-228	OH207-7926-12	11/08/07 11:41	1.49	0.208	0.256	0.123
DOE 4.5.2.3	PA-233	OH207-7926-12	11/08/07 11:41	-0.014	0.034	0.034	0.057
DOE 4.5.2.3	PA-234M	OH207-7926-12	11/08/07 11:41	1.94	2.14	2.15	3.98
DOE 4.5.2.3	TH-234	OH207-7926-12	11/08/07 11:41	1.42	0.506	0.526	0.692
DOE 4.5.2.3	U-235	OH207-7926-12	11/08/07 11:41	0.031	0.127	0.127	0.209
DOE 4.5.2.3	NP-236	OH207-7926-12	11/08/07 11:41	0.046	0.041	0.041	0.071
DOE 4.5.2.3	NP-237	OH207-7926-12	11/08/07 11:41	0.827	0.236	0.250	0.268
DOE 4.5.2.3	NP-239	OH207-7926-12	11/08/07 11:41	0.006	0.126	0.126	0.218
DOE 4.5.2.3	AM-241	OH207-7926-12	11/08/07 11:41	0.028	0.106	0.106	0.181
DOE 4.5.2.3	AM-243	OH207-7926-12	11/08/07 11:41	0.254	0.074	0.078	0.062
DOE 4.5.2.3	CM-243	OH207-7926-12	11/08/07 11:41	0.042	0.065	0.065	0.110
DOE 4.5.2.3	AM-246	OH207-7926-12	11/08/07 11:41	0.078	0.069	0.069	0.127
DOE 4.5.2.3	CF-249	OH207-7926-12	11/08/07 11:41	0.018	0.022	0.022	0.039

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2185-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-13	11/08/07 11:32	6.23	0.645	0.897	0.259
DOE 4.5.2.3	CO-60	OH207-7926-13	11/08/07 11:32	0.008	0.021	0.021	0.028
DOE 4.5.2.3	RH-101	OH207-7926-13	11/08/07 11:32	-0.006	0.019	0.019	0.031
DOE 4.5.2.3	SB-125	OH207-7926-13	11/08/07 11:32	0.048	0.049	0.049	0.088
DOE 4.5.2.3	CS-137	OH207-7926-13	11/08/07 11:32	-0.011	0.023	0.023	0.032
DOE 4.5.2.3	EU-155	OH207-7926-13	11/08/07 11:32	0.099	0.054	0.055	0.095
DOE 4.5.2.3	TL-208	OH207-7926-13	11/08/07 11:32	0.345	0.055	0.065	0.033
DOE 4.5.2.3	PO-209	OH207-7926-13	11/08/07 11:32	1.55	3.62	3.63	6.54
DOE 4.5.2.3	BI-211	OH207-7926-13	11/08/07 11:32	-0.204	0.552	0.553	0.915
DOE 4.5.2.3	BI-212	OH207-7926-13	11/08/07 11:32	0.862	0.260	0.273	0.240
DOE 4.5.2.3	PB-212	OH207-7926-13	11/08/07 11:32	1.08	0.101	0.148	0.051
DOE 4.5.2.3	BI-214	OH207-7926-13	11/08/07 11:32	1.01	0.116	0.154	0.057
DOE 4.5.2.3	PB-214	OH207-7926-13	11/08/07 11:32	1.12	0.128	0.170	0.059
DOE 4.5.2.3	RA-223	OH207-7926-13	11/08/07 11:32	0.461	0.174	0.180	0.149
DOE 4.5.2.3	AC-228	OH207-7926-13	11/08/07 11:32	1.05	0.171	0.200	0.110
DOE 4.5.2.3	PA-233	OH207-7926-13	11/08/07 11:32	0.008	0.033	0.033	0.056
DOE 4.5.2.3	PA-234M	OH207-7926-13	11/08/07 11:32	0.343	1.90	1.90	3.38
DOE 4.5.2.3	TH-234	OH207-7926-13	11/08/07 11:32	1.01	0.361	0.375	0.408
DOE 4.5.2.3	U-235	OH207-7926-13	11/08/07 11:32	0.086	0.116	0.117	0.201
DOE 4.5.2.3	NP-236	OH207-7926-13	11/08/07 11:32	0.079	0.036	0.036	0.053
DOE 4.5.2.3	NP-237	OH207-7926-13	11/08/07 11:32	0.524	0.149	0.158	0.180
DOE 4.5.2.3	NP-239	OH207-7926-13	11/08/07 11:32	-0.027	0.121	0.121	0.203
DOE 4.5.2.3	AM-241	OH207-7926-13	11/08/07 11:32	0.025	0.036	0.036	0.054
DOE 4.5.2.3	AM-243	OH207-7926-13	11/08/07 11:32	0.181	0.045	0.049	0.030
DOE 4.5.2.3	CM-243	OH207-7926-13	11/08/07 11:32	0.018	0.048	0.048	0.084
DOE 4.5.2.3	AM-246	OH207-7926-13	11/08/07 11:32	0.024	0.067	0.067	0.120
DOE 4.5.2.3	CF-249	OH207-7926-13	11/08/07 11:32	0.006	0.021	0.021	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2186-SD				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7926	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7926-14	11/08/07 14:44	7.82	0.786	1.11	0.239
DOE 4.5.2.3	CO-60	OH207-7926-14	11/08/07 14:44	-0.008	0.018	0.018	0.027
DOE 4.5.2.3	RH-101	OH207-7926-14	11/08/07 14:44	0.019	0.019	0.019	0.031
DOE 4.5.2.3	SB-125	OH207-7926-14	11/08/07 14:44	0.008	0.048	0.048	0.083
DOE 4.5.2.3	CS-137	OH207-7926-14	11/08/07 14:44	0.011	0.019	0.019	0.034
DOE 4.5.2.3	EU-155	OH207-7926-14	11/08/07 14:44	0.050	0.067	0.067	0.115
DOE 4.5.2.3	TL-208	OH207-7926-14	11/08/07 14:44	0.427	0.064	0.077	0.031
DOE 4.5.2.3	PO-209	OH207-7926-14	11/08/07 14:44	-2.23	3.40	3.40	5.61
DOE 4.5.2.3	BI-211	OH207-7926-14	11/08/07 14:44	-0.477	0.507	0.509	0.828
DOE 4.5.2.3	BI-212	OH207-7926-14	11/08/07 14:44	0.689	0.186	0.199	0.357
DOE 4.5.2.3	PB-212	OH207-7926-14	11/08/07 14:44	1.26	0.115	0.170	0.048
DOE 4.5.2.3	BI-214	OH207-7926-14	11/08/07 14:44	0.910	0.124	0.154	0.058
DOE 4.5.2.3	PB-214	OH207-7926-14	11/08/07 14:44	1.07	0.124	0.163	0.056
DOE 4.5.2.3	RA-223	OH207-7926-14	11/08/07 14:44	0.554	0.168	0.177	0.144
DOE 4.5.2.3	AC-228	OH207-7926-14	11/08/07 14:44	1.22	0.160	0.201	0.097
DOE 4.5.2.3	PA-233	OH207-7926-14	11/08/07 14:44	0.020	0.032	0.033	0.058
DOE 4.5.2.3	PA-234M	OH207-7926-14	11/08/07 14:44	1.20	2.03	2.04	3.70
DOE 4.5.2.3	TH-234	OH207-7926-14	11/08/07 14:44	0.732	0.417	0.424	0.675
DOE 4.5.2.3	U-235	OH207-7926-14	11/08/07 14:44	-0.007	0.117	0.117	0.194
DOE 4.5.2.3	NP-236	OH207-7926-14	11/08/07 14:44	0.020	0.039	0.039	0.066
DOE 4.5.2.3	NP-237	OH207-7926-14	11/08/07 14:44	0.603	0.252	0.259	0.282
DOE 4.5.2.3	NP-239	OH207-7926-14	11/08/07 14:44	0.024	0.123	0.123	0.202
DOE 4.5.2.3	AM-241	OH207-7926-14	11/08/07 14:44	0.004	0.107	0.107	0.186
DOE 4.5.2.3	AM-243	OH207-7926-14	11/08/07 14:44	0.270	0.077	0.082	0.059
DOE 4.5.2.3	CM-243	OH207-7926-14	11/08/07 14:44	0.028	0.060	0.060	0.103
DOE 4.5.2.3	AM-246	OH207-7926-14	11/08/07 14:44	-0.006	0.056	0.056	0.097
DOE 4.5.2.3	CF-249	OH207-7926-14	11/08/07 14:44	0.019	0.021	0.021	0.037

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2187-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7927	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7927-01	11/08/07 20:56	3.44	0.510	0.615	0.213
DOE 4.5.2.3	CO-60	OH207-7927-01	11/08/07 20:56	-0.002	0.016	0.016	0.025
DOE 4.5.2.3	RH-101	OH207-7927-01	11/08/07 20:56	0.012	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7927-01	11/08/07 20:56	0.004	0.043	0.043	0.074
DOE 4.5.2.3	CS-137	OH207-7927-01	11/08/07 20:56	0.337	0.058	0.067	0.032
DOE 4.5.2.3	EU-155	OH207-7927-01	11/08/07 20:56	0.006	0.060	0.060	0.102
DOE 4.5.2.3	TL-208	OH207-7927-01	11/08/07 20:56	0.235	0.045	0.051	0.027
DOE 4.5.2.3	PO-209	OH207-7927-01	11/08/07 20:56	-0.350	2.89	2.89	5.10
DOE 4.5.2.3	BI-211	OH207-7927-01	11/08/07 20:56	-0.318	0.428	0.429	0.711
DOE 4.5.2.3	BI-212	OH207-7927-01	11/08/07 20:56	0.328	0.279	0.281	0.226
DOE 4.5.2.3	PB-212	OH207-7927-01	11/08/07 20:56	0.698	0.073	0.101	0.045
DOE 4.5.2.3	BI-214	OH207-7927-01	11/08/07 20:56	0.664	0.098	0.118	0.054
DOE 4.5.2.3	PB-214	OH207-7927-01	11/08/07 20:56	0.683	0.087	0.111	0.055
DOE 4.5.2.3	RA-223	OH207-7927-01	11/08/07 20:56	0.194	0.125	0.126	0.139
DOE 4.5.2.3	AC-228	OH207-7927-01	11/08/07 20:56	0.720	0.123	0.143	0.098
DOE 4.5.2.3	PA-233	OH207-7927-01	11/08/07 20:56	0.004	0.029	0.029	0.051
DOE 4.5.2.3	PA-234M	OH207-7927-01	11/08/07 20:56	2.01	1.79	1.80	3.48
DOE 4.5.2.3	TH-234	OH207-7927-01	11/08/07 20:56	1.40	0.463	0.484	0.645
DOE 4.5.2.3	U-235	OH207-7927-01	11/08/07 20:56	0.009	0.103	0.103	0.173
DOE 4.5.2.3	NP-236	OH207-7927-01	11/08/07 20:56	0.021	0.036	0.036	0.060
DOE 4.5.2.3	NP-237	OH207-7927-01	11/08/07 20:56	0.643	0.202	0.212	0.252
DOE 4.5.2.3	NP-239	OH207-7927-01	11/08/07 20:56	0.033	0.112	0.112	0.186
DOE 4.5.2.3	AM-241	OH207-7927-01	11/08/07 20:56	0.075	0.099	0.099	0.177
DOE 4.5.2.3	AM-243	OH207-7927-01	11/08/07 20:56	0.170	0.060	0.062	0.054
DOE 4.5.2.3	CM-243	OH207-7927-01	11/08/07 20:56	0.004	0.053	0.053	0.092
DOE 4.5.2.3	AM-246	OH207-7927-01	11/08/07 20:56	0.015	0.052	0.052	0.094
DOE 4.5.2.3	CF-249	OH207-7927-01	11/08/07 20:56	0.020	0.020	0.020	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7927-LC1	SCAQC-7927-LD1		SCAQC-7927-PB1

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Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2188-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7927	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7927-02	11/08/07 17:52	5.18	0.724	0.890	0.303
DOE 4.5.2.3	CO-60	OH207-7927-02	11/08/07 17:52	-0.009	0.022	0.022	0.037
DOE 4.5.2.3	RH-101	OH207-7927-02	11/08/07 17:52	-0.005	0.022	0.022	0.037
DOE 4.5.2.3	SB-125	OH207-7927-02	11/08/07 17:52	-0.016	0.060	0.060	0.103
DOE 4.5.2.3	CS-137	OH207-7927-02	11/08/07 17:52	0.374	0.062	0.073	0.043
DOE 4.5.2.3	EU-155	OH207-7927-02	11/08/07 17:52	0.030	0.062	0.062	0.108
DOE 4.5.2.3	TL-208	OH207-7927-02	11/08/07 17:52	0.306	0.055	0.063	0.038
DOE 4.5.2.3	PO-209	OH207-7927-02	11/08/07 17:52	3.03	4.06	4.07	7.67
DOE 4.5.2.3	BI-211	OH207-7927-02	11/08/07 17:52	-0.011	0.709	0.709	1.21
DOE 4.5.2.3	BI-212	OH207-7927-02	11/08/07 17:52	0.685	0.284	0.292	0.266
DOE 4.5.2.3	PB-212	OH207-7927-02	11/08/07 17:52	0.883	0.093	0.128	0.059
DOE 4.5.2.3	BI-214	OH207-7927-02	11/08/07 17:52	0.790	0.114	0.139	0.076
DOE 4.5.2.3	PB-214	OH207-7927-02	11/08/07 17:52	0.842	0.124	0.150	0.069
DOE 4.5.2.3	RA-223	OH207-7927-02	11/08/07 17:52	0.335	0.134	0.138	0.192
DOE 4.5.2.3	AC-228	OH207-7927-02	11/08/07 17:52	0.970	0.184	0.208	0.129
DOE 4.5.2.3	PA-233	OH207-7927-02	11/08/07 17:52	0.023	0.041	0.041	0.071
DOE 4.5.2.3	PA-234M	OH207-7927-02	11/08/07 17:52	0.959	2.68	2.68	4.86
DOE 4.5.2.3	TH-234	OH207-7927-02	11/08/07 17:52	0.900	0.436	0.446	0.621
DOE 4.5.2.3	U-235	OH207-7927-02	11/08/07 17:52	-0.130	0.133	0.133	0.220
DOE 4.5.2.3	NP-236	OH207-7927-02	11/08/07 17:52	0.006	0.038	0.038	0.060
DOE 4.5.2.3	NP-237	OH207-7927-02	11/08/07 17:52	0.384	0.172	0.176	0.212
DOE 4.5.2.3	NP-239	OH207-7927-02	11/08/07 17:52	-0.056	0.145	0.145	0.241
DOE 4.5.2.3	AM-241	OH207-7927-02	11/08/07 17:52	-0.141	0.046	0.049	0.068
DOE 4.5.2.3	AM-243	OH207-7927-02	11/08/07 17:52	0.170	0.047	0.050	0.036
DOE 4.5.2.3	CM-243	OH207-7927-02	11/08/07 17:52	-0.002	0.056	0.056	0.097
DOE 4.5.2.3	AM-246	OH207-7927-02	11/08/07 17:52	0.048	0.075	0.075	0.141
DOE 4.5.2.3	CF-249	OH207-7927-02	11/08/07 17:52	0.002	0.025	0.025	0.043

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7927-LC1	SCAQC-7927-LD1		SCAQC-7927-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2189-ST				
Other Sample ID:		Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
		Batch Number:	7927	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7927-03	11/08/07 20:57	5.01	0.608	0.788	0.233
DOE 4.5.2.3	CO-60	OH207-7927-03	11/08/07 20:57	0.007	0.017	0.017	0.031
DOE 4.5.2.3	RH-101	OH207-7927-03	11/08/07 20:57	-0.001	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7927-03	11/08/07 20:57	0.020	0.044	0.044	0.077
DOE 4.5.2.3	CS-137	OH207-7927-03	11/08/07 20:57	0.146	0.043	0.046	0.027
DOE 4.5.2.3	EU-155	OH207-7927-03	11/08/07 20:57	0.038	0.059	0.059	0.100
DOE 4.5.2.3	TL-208	OH207-7927-03	11/08/07 20:57	0.213	0.043	0.048	0.028
DOE 4.5.2.3	PO-209	OH207-7927-03	11/08/07 20:57	0.998	3.19	3.19	5.76
DOE 4.5.2.3	BI-211	OH207-7927-03	11/08/07 20:57	-0.482	0.489	0.492	0.786
DOE 4.5.2.3	BI-212	OH207-7927-03	11/08/07 20:57	0.614	0.273	0.280	0.213
DOE 4.5.2.3	PB-212	OH207-7927-03	11/08/07 20:57	0.663	0.071	0.097	0.045
DOE 4.5.2.3	BI-214	OH207-7927-03	11/08/07 20:57	0.539	0.091	0.106	0.054
DOE 4.5.2.3	PB-214	OH207-7927-03	11/08/07 20:57	0.571	0.086	0.103	0.055
DOE 4.5.2.3	RA-223	OH207-7927-03	11/08/07 20:57	0.381	0.192	0.196	0.141
DOE 4.5.2.3	AC-228	OH207-7927-03	11/08/07 20:57	0.794	0.142	0.162	0.103
DOE 4.5.2.3	PA-233	OH207-7927-03	11/08/07 20:57	0.030	0.028	0.028	0.051
DOE 4.5.2.3	PA-234M	OH207-7927-03	11/08/07 20:57	-0.543	1.65	1.65	2.86
DOE 4.5.2.3	TH-234	OH207-7927-03	11/08/07 20:57	1.00	0.394	0.407	0.570
DOE 4.5.2.3	U-235	OH207-7927-03	11/08/07 20:57	-0.009	0.106	0.106	0.173
DOE 4.5.2.3	NP-236	OH207-7927-03	11/08/07 20:57	0.015	0.034	0.034	0.056
DOE 4.5.2.3	NP-237	OH207-7927-03	11/08/07 20:57	0.316	0.194	0.196	0.236
DOE 4.5.2.3	NP-239	OH207-7927-03	11/08/07 20:57	-0.004	0.104	0.104	0.181
DOE 4.5.2.3	AM-241	OH207-7927-03	11/08/07 20:57	0.005	0.089	0.089	0.154
DOE 4.5.2.3	AM-243	OH207-7927-03	11/08/07 20:57	0.171	0.051	0.054	0.050
DOE 4.5.2.3	CM-243	OH207-7927-03	11/08/07 20:57	-0.017	0.053	0.053	0.088
DOE 4.5.2.3	AM-246	OH207-7927-03	11/08/07 20:57	0.023	0.055	0.055	0.100
DOE 4.5.2.3	CF-249	OH207-7927-03	11/08/07 20:57	0.013	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7927-LC1	SCAQC-7927-LD1		SCAQC-7927-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2187-SD
Other Sample ID: Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7928 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7928-01	11/09/07 00:12	2.12	0.442	0.490	0.256
DOE 4.5.2.3	CO-60	OH207-7928-01	11/09/07 00:12	-5.6e-04	0.018	0.018	0.024
DOE 4.5.2.3	RH-101	OH207-7928-01	11/09/07 00:12	-0.002	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7928-01	11/09/07 00:12	0.018	0.044	0.044	0.078
DOE 4.5.2.3	CS-137	OH207-7928-01	11/09/07 00:12	0.027	0.020	0.020	0.037
DOE 4.5.2.3	EU-155	OH207-7928-01	11/09/07 00:12	0.029	0.059	0.059	0.103
DOE 4.5.2.3	TL-208	OH207-7928-01	11/09/07 00:12	0.213	0.042	0.048	0.029
DOE 4.5.2.3	PO-209	OH207-7928-01	11/09/07 00:12	-0.241	2.88	2.88	5.12
DOE 4.5.2.3	BI-211	OH207-7928-01	11/09/07 00:12	0.121	0.467	0.467	0.848
DOE 4.5.2.3	BI-212	OH207-7928-01	11/09/07 00:12	0.434	0.192	0.196	0.221
DOE 4.5.2.3	PB-212	OH207-7928-01	11/09/07 00:12	0.610	0.068	0.092	0.047
DOE 4.5.2.3	BI-214	OH207-7928-01	11/09/07 00:12	0.488	0.094	0.106	0.060
DOE 4.5.2.3	PB-214	OH207-7928-01	11/09/07 00:12	0.647	0.087	0.108	0.053
DOE 4.5.2.3	RA-223	OH207-7928-01	11/09/07 00:12	0.208	0.136	0.138	0.133
DOE 4.5.2.3	AC-228	OH207-7928-01	11/09/07 00:12	0.747	0.170	0.185	0.104
DOE 4.5.2.3	PA-233	OH207-7928-01	11/09/07 00:12	-0.005	0.028	0.028	0.049
DOE 4.5.2.3	PA-234M	OH207-7928-01	11/09/07 00:12	-0.007	1.68	1.68	3.00
DOE 4.5.2.3	TH-234	OH207-7928-01	11/09/07 00:12	0.944	0.371	0.383	0.629
DOE 4.5.2.3	U-235	OH207-7928-01	11/09/07 00:12	-0.052	0.104	0.104	0.170
DOE 4.5.2.3	NP-236	OH207-7928-01	11/09/07 00:12	0.025	0.034	0.034	0.059
DOE 4.5.2.3	NP-237	OH207-7928-01	11/09/07 00:12	0.254	0.188	0.190	0.253
DOE 4.5.2.3	NP-239	OH207-7928-01	11/09/07 00:12	0.082	0.108	0.108	0.183
DOE 4.5.2.3	AM-241	OH207-7928-01	11/09/07 00:12	0.023	0.094	0.094	0.166
DOE 4.5.2.3	AM-243	OH207-7928-01	11/09/07 00:12	0.162	0.051	0.054	0.057
DOE 4.5.2.3	CM-243	OH207-7928-01	11/09/07 00:12	-0.034	0.053	0.053	0.089
DOE 4.5.2.3	AM-246	OH207-7928-01	11/09/07 00:12	0.034	0.054	0.055	0.103
DOE 4.5.2.3	CF-249	OH207-7928-01	11/09/07 00:12	-0.013	0.019	0.019	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7928-LC1	SCAQC-7928-LD1		SCAQC-7928-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Qah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2188-SD

Other Sample ID: Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00

Batch Number: 7928 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7928-02	11/09/07 00:14	5.34	0.596	0.800	0.252
DOE 4.5.2.3	CO-60	OH207-7928-02	11/09/07 00:14	-0.006	0.016	0.016	0.027
DOE 4.5.2.3	RH-101	OH207-7928-02	11/09/07 00:14	-0.003	0.017	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7928-02	11/09/07 00:14	0.011	0.044	0.044	0.076
DOE 4.5.2.3	CS-137	OH207-7928-02	11/09/07 00:14	0.062	0.025	0.026	0.032
DOE 4.5.2.3	EU-155	OH207-7928-02	11/09/07 00:14	0.029	0.060	0.061	0.103
DOE 4.5.2.3	TL-208	OH207-7928-02	11/09/07 00:14	0.238	0.045	0.051	0.027
DOE 4.5.2.3	PO-209	OH207-7928-02	11/09/07 00:14	-1.63	3.16	3.17	5.28
DOE 4.5.2.3	BI-211	OH207-7928-02	11/09/07 00:14	-0.322	0.445	0.446	0.734
DOE 4.5.2.3	BI-212	OH207-7928-02	11/09/07 00:14	0.362	0.195	0.198	0.239
DOE 4.5.2.3	PB-212	OH207-7928-02	11/09/07 00:14	0.778	0.079	0.111	0.045
DOE 4.5.2.3	BI-214	OH207-7928-02	11/09/07 00:14	0.708	0.104	0.126	0.050
DOE 4.5.2.3	PB-214	OH207-7928-02	11/09/07 00:14	0.803	0.100	0.128	0.056
DOE 4.5.2.3	RA-223	OH207-7928-02	11/09/07 00:14	0.220	0.104	0.106	0.171
DOE 4.5.2.3	AC-228	OH207-7928-02	11/09/07 00:14	0.943	0.162	0.187	0.087
DOE 4.5.2.3	PA-233	OH207-7928-02	11/09/07 00:14	0.022	0.029	0.029	0.052
DOE 4.5.2.3	PA-234M	OH207-7928-02	11/09/07 00:14	2.31	1.97	1.98	3.76
DOE 4.5.2.3	TH-234	OH207-7928-02	11/09/07 00:14	1.27	0.495	0.511	0.595
DOE 4.5.2.3	U-235	OH207-7928-02	11/09/07 00:14	0.093	0.107	0.107	0.180
DOE 4.5.2.3	NP-236	OH207-7928-02	11/09/07 00:14	0.010	0.037	0.037	0.057
DOE 4.5.2.3	NP-237	OH207-7928-02	11/09/07 00:14	0.611	0.173	0.183	0.246
DOE 4.5.2.3	NP-239	OH207-7928-02	11/09/07 00:14	-0.038	0.103	0.103	0.177
DOE 4.5.2.3	AM-241	OH207-7928-02	11/09/07 00:14	-0.047	0.089	0.089	0.150
DOE 4.5.2.3	AM-243	OH207-7928-02	11/09/07 00:14	0.187	0.055	0.058	0.053
DOE 4.5.2.3	CM-243	OH207-7928-02	11/09/07 00:14	-0.022	0.054	0.054	0.089
DOE 4.5.2.3	AM-246	OH207-7928-02	11/09/07 00:14	0.024	0.062	0.062	0.111
DOE 4.5.2.3	CF-249	OH207-7928-02	11/09/07 00:14	0.005	0.019	0.019	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7928-LC1	SCAQC-7928-LD1		SCAQC-7928-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2189-SD
Other Sample ID: Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00
Batch Number: 7928 Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	OH207-7928-03	11/09/07 00:15	5.65	0.626	0.843	0.279
DOE 4.5.2.3	CO-60	OH207-7928-03	11/09/07 00:15	0.002	0.021	0.021	0.037
DOE 4.5.2.3	RH-101	OH207-7928-03	11/09/07 00:15	-0.018	0.020	0.020	0.032
DOE 4.5.2.3	SB-125	OH207-7928-03	11/09/07 00:15	-0.028	0.052	0.052	0.089
DOE 4.5.2.3	CS-137	OH207-7928-03	11/09/07 00:15	0.042	0.025	0.025	0.046
DOE 4.5.2.3	EU-155	OH207-7928-03	11/09/07 00:15	0.029	0.055	0.055	0.097
DOE 4.5.2.3	TL-208	OH207-7928-03	11/09/07 00:15	0.306	0.053	0.061	0.031
DOE 4.5.2.3	PO-209	OH207-7928-03	11/09/07 00:15	0.522	3.77	3.77	6.82
DOE 4.5.2.3	BI-211	OH207-7928-03	11/09/07 00:15	-0.441	0.570	0.572	0.916
DOE 4.5.2.3	BI-212	OH207-7928-03	11/09/07 00:15	0.782	0.231	0.244	0.227
DOE 4.5.2.3	PB-212	OH207-7928-03	11/09/07 00:15	0.707	0.079	0.106	0.050
DOE 4.5.2.3	BI-214	OH207-7928-03	11/09/07 00:15	0.586	0.096	0.112	0.061
DOE 4.5.2.3	PB-214	OH207-7928-03	11/09/07 00:15	0.713	0.099	0.122	0.065
DOE 4.5.2.3	RA-223	OH207-7928-03	11/09/07 00:15	0.412	0.181	0.186	0.170
DOE 4.5.2.3	AC-228	OH207-7928-03	11/09/07 00:15	0.809	0.168	0.187	0.116
DOE 4.5.2.3	PA-233	OH207-7928-03	11/09/07 00:15	0.020	0.037	0.037	0.064
DOE 4.5.2.3	PA-234M	OH207-7928-03	11/09/07 00:15	0.288	2.34	2.34	4.18
DOE 4.5.2.3	TH-234	OH207-7928-03	11/09/07 00:15	0.772	0.335	0.344	0.534
DOE 4.5.2.3	U-235	OH207-7928-03	11/09/07 00:15	0.065	0.117	0.117	0.204
DOE 4.5.2.3	NP-236	OH207-7928-03	11/09/07 00:15	0.007	0.036	0.036	0.051
DOE 4.5.2.3	NP-237	OH207-7928-03	11/09/07 00:15	0.537	0.154	0.163	0.163
DOE 4.5.2.3	NP-239	OH207-7928-03	11/09/07 00:15	0.005	0.126	0.126	0.214
DOE 4.5.2.3	AM-241	OH207-7928-03	11/09/07 00:15	-0.142	0.042	0.044	0.060
DOE 4.5.2.3	AM-243	OH207-7928-03	11/09/07 00:15	0.159	0.044	0.047	0.034
DOE 4.5.2.3	CM-243	OH207-7928-03	11/09/07 00:15	0.004	0.050	0.050	0.087
DOE 4.5.2.3	AM-246	OH207-7928-03	11/09/07 00:15	-0.013	0.073	0.073	0.127
DOE 4.5.2.3	CF-249	OH207-7928-03	11/09/07 00:15	-0.007	0.022	0.022	0.038

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7928-LC1	SCAQC-7928-LD1		SCAQC-7928-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7925-LC1	11/06/07 12:47	31.8	2.01	3.76	0.099
DOE 4.5.2.3	CS-137	SCAQC-7925-LC1	11/06/07 12:47	30.6	2.24	3.79	0.193
DOE 4.5.2.3	AM-241	SCAQC-7925-LC1	11/06/07 12:47	77.7	4.95	9.21	0.335

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil

Site Sample ID: N/A

Other Sample ID: LC1 Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7926-LC1	11/08/07 14:41	31.7	2.00	3.75	0.106
DOE 4.5.2.3	CS-137	SCAQC-7926-LC1	11/08/07 14:41	30.4	2.24	3.77	0.190
DOE 4.5.2.3	AM-241	SCAQC-7926-LC1	11/08/07 14:41	76.8	4.90	9.11	0.332

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil

Site Sample ID: N/A

Other Sample ID: LC1 Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7927-LC1	11/08/07 15:42	32.0	2.03	3.79	0.106
DOE 4.5.2.3	CS-137	SCAQC-7927-LC1	11/08/07 15:42	30.7	2.26	3.81	0.189
DOE 4.5.2.3	AM-241	SCAQC-7927-LC1	11/08/07 15:42	77.5	4.94	9.19	0.328

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7927-LC1	SCAQC-7927-LD1		SCAQC-7927-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	CO-60	SCAQC-7928-LC1	11/08/07 16:43	32.2	2.03	3.81	0.109
DOE 4.5.2.3	CS-137	SCAQC-7928-LC1	11/08/07 16:43	30.6	2.25	3.80	0.196
DOE 4.5.2.3	AM-241	SCAQC-7928-LC1	11/08/07 16:43	77.1	4.92	9.15	0.335

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7928-LC1	SCAQC-7928-LD1		SCAQC-7928-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2173-ST
Other Sample ID: LD1 Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7925-LD1	11/06/07 11:44	3.94	0.512	0.646	0.240
DOE 4.5.2.3	CO-60	SCAQC-7925-LD1	11/06/07 11:44	0.010	0.015	0.015	0.027
DOE 4.5.2.3	RH-101	SCAQC-7925-LD1	11/06/07 11:44	0.015	0.019	0.019	0.032
DOE 4.5.2.3	SB-125	SCAQC-7925-LD1	11/06/07 11:44	-0.034	0.046	0.047	0.076
DOE 4.5.2.3	CS-137	SCAQC-7925-LD1	11/06/07 11:44	0.118	0.036	0.038	0.036
DOE 4.5.2.3	EU-155	SCAQC-7925-LD1	11/06/07 11:44	0.042	0.067	0.067	0.116
DOE 4.5.2.3	TL-208	SCAQC-7925-LD1	11/06/07 11:44	0.369	0.057	0.068	0.031
DOE 4.5.2.3	PO-209	SCAQC-7925-LD1	11/06/07 11:44	-1.94	3.05	3.06	5.06
DOE 4.5.2.3	BI-211	SCAQC-7925-LD1	11/06/07 11:44	0.180	0.501	0.501	0.904
DOE 4.5.2.3	BI-212	SCAQC-7925-LD1	11/06/07 11:44	0.708	0.254	0.264	0.244
DOE 4.5.2.3	PB-212	SCAQC-7925-LD1	11/06/07 11:44	1.13	0.106	0.155	0.052
DOE 4.5.2.3	BI-214	SCAQC-7925-LD1	11/06/07 11:44	0.787	0.121	0.144	0.055
DOE 4.5.2.3	PB-214	SCAQC-7925-LD1	11/06/07 11:44	0.838	0.109	0.138	0.057
DOE 4.5.2.3	RA-223	SCAQC-7925-LD1	11/06/07 11:44	0.209	0.151	0.152	0.155
DOE 4.5.2.3	AC-228	SCAQC-7925-LD1	11/06/07 11:44	1.37	0.174	0.221	0.113
DOE 4.5.2.3	PA-233	SCAQC-7925-LD1	11/06/07 11:44	0.011	0.031	0.031	0.054
DOE 4.5.2.3	PA-234M	SCAQC-7925-LD1	11/06/07 11:44	-0.329	1.99	1.99	3.44
DOE 4.5.2.3	TH-234	SCAQC-7925-LD1	11/06/07 11:44	1.51	0.528	0.549	0.702
DOE 4.5.2.3	U-235	SCAQC-7925-LD1	11/06/07 11:44	0.021	0.118	0.118	0.197
DOE 4.5.2.3	NP-236	SCAQC-7925-LD1	11/06/07 11:44	0.008	0.040	0.040	0.068
DOE 4.5.2.3	NP-237	SCAQC-7925-LD1	11/06/07 11:44	0.570	0.226	0.233	0.275
DOE 4.5.2.3	NP-239	SCAQC-7925-LD1	11/06/07 11:44	-0.068	0.116	0.116	0.184
DOE 4.5.2.3	AM-241	SCAQC-7925-LD1	11/06/07 11:44	0.058	0.107	0.107	0.189
DOE 4.5.2.3	AM-243	SCAQC-7925-LD1	11/06/07 11:44	0.199	0.063	0.066	0.061
DOE 4.5.2.3	CM-243	SCAQC-7925-LD1	11/06/07 11:44	-0.019	0.061	0.061	0.103
DOE 4.5.2.3	AM-246	SCAQC-7925-LD1	11/06/07 11:44	0.036	0.054	0.054	0.101
DOE 4.5.2.3	CF-249	SCAQC-7925-LD1	11/06/07 11:44	0.023	0.022	0.022	0.039

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7925-LD1	OH207-7925-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2173-ST				
Other Sample ID:	LD1	Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2173-SD

Other Sample ID: LD1 Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7926-LD1	11/07/07 15:14	4.17	0.530	0.674	0.251
DOE 4.5.2.3	CO-60	SCAQC-7926-LD1	11/07/07 15:14	0.004	0.018	0.018	0.028
DOE 4.5.2.3	RH-101	SCAQC-7926-LD1	11/07/07 15:14	-0.007	0.020	0.020	0.031
DOE 4.5.2.3	SB-125	SCAQC-7926-LD1	11/07/07 15:14	-0.027	0.049	0.049	0.080
DOE 4.5.2.3	CS-137	SCAQC-7926-LD1	11/07/07 15:14	0.050	0.028	0.029	0.036
DOE 4.5.2.3	EU-155	SCAQC-7926-LD1	11/07/07 15:14	0.108	0.086	0.086	0.117
DOE 4.5.2.3	TL-208	SCAQC-7926-LD1	11/07/07 15:14	0.521	0.074	0.090	0.032
DOE 4.5.2.3	PO-209	SCAQC-7926-LD1	11/07/07 15:14	0.500	3.35	3.35	5.92
DOE 4.5.2.3	BI-211	SCAQC-7926-LD1	11/07/07 15:14	-0.684	0.554	0.558	0.873
DOE 4.5.2.3	BI-212	SCAQC-7926-LD1	11/07/07 15:14	0.975	0.289	0.305	0.261
DOE 4.5.2.3	PB-212	SCAQC-7926-LD1	11/07/07 15:14	1.62	0.142	0.216	0.051
DOE 4.5.2.3	BI-214	SCAQC-7926-LD1	11/07/07 15:14	0.777	0.113	0.137	0.060
DOE 4.5.2.3	PB-214	SCAQC-7926-LD1	11/07/07 15:14	0.842	0.104	0.134	0.063
DOE 4.5.2.3	RA-223	SCAQC-7926-LD1	11/07/07 15:14	0.459	0.170	0.176	0.152
DOE 4.5.2.3	AC-228	SCAQC-7926-LD1	11/07/07 15:14	1.73	0.222	0.282	0.102
DOE 4.5.2.3	PA-233	SCAQC-7926-LD1	11/07/07 15:14	-0.003	0.033	0.033	0.056
DOE 4.5.2.3	PA-234M	SCAQC-7926-LD1	11/07/07 15:14	0.124	2.17	2.17	3.79
DOE 4.5.2.3	TH-234	SCAQC-7926-LD1	11/07/07 15:14	1.89	0.522	0.555	0.558
DOE 4.5.2.3	U-235	SCAQC-7926-LD1	11/07/07 15:14	0.014	0.125	0.125	0.204
DOE 4.5.2.3	NP-236	SCAQC-7926-LD1	11/07/07 15:14	0.015	0.045	0.045	0.068
DOE 4.5.2.3	NP-237	SCAQC-7926-LD1	11/07/07 15:14	0.793	0.249	0.262	0.290
DOE 4.5.2.3	NP-239	SCAQC-7926-LD1	11/07/07 15:14	-0.092	0.119	0.119	0.200
DOE 4.5.2.3	AM-241	SCAQC-7926-LD1	11/07/07 15:14	-0.058	0.116	0.116	0.174
DOE 4.5.2.3	AM-243	SCAQC-7926-LD1	11/07/07 15:14	0.338	0.083	0.089	0.062
DOE 4.5.2.3	CM-243	SCAQC-7926-LD1	11/07/07 15:14	0.026	0.071	0.071	0.108
DOE 4.5.2.3	AM-246	SCAQC-7926-LD1	11/07/07 15:14	0.065	0.058	0.058	0.110
DOE 4.5.2.3	CF-249	SCAQC-7926-LD1	11/07/07 15:14	0.022	0.021	0.021	0.037

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7926-LD1	OH207-7926-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2173-SD				
Other Sample ID:	LD1	Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2187-SD
Other Sample ID: LD1 Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7928-LD1	11/09/07 08:22	2.08	0.392	0.444	0.253
DOE 4.5.2.3	CO-60	SCAQC-7928-LD1	11/09/07 08:22	-0.013	0.016	0.016	0.023
DOE 4.5.2.3	RH-101	SCAQC-7928-LD1	11/09/07 08:22	0.021	0.018	0.018	0.030
DOE 4.5.2.3	SB-125	SCAQC-7928-LD1	11/09/07 08:22	-0.012	0.045	0.045	0.077
DOE 4.5.2.3	CS-137	SCAQC-7928-LD1	11/09/07 08:22	0.017	0.019	0.020	0.036
DOE 4.5.2.3	EU-155	SCAQC-7928-LD1	11/09/07 08:22	0.003	0.060	0.060	0.101
DOE 4.5.2.3	TL-208	SCAQC-7928-LD1	11/09/07 08:22	0.238	0.044	0.050	0.027
DOE 4.5.2.3	PO-209	SCAQC-7928-LD1	11/09/07 08:22	0.453	3.18	3.18	5.72
DOE 4.5.2.3	BI-211	SCAQC-7928-LD1	11/09/07 08:22	-0.490	0.457	0.460	0.723
DOE 4.5.2.3	BI-212	SCAQC-7928-LD1	11/09/07 08:22	0.574	0.241	0.248	0.193
DOE 4.5.2.3	PB-212	SCAQC-7928-LD1	11/09/07 08:22	0.586	0.068	0.090	0.046
DOE 4.5.2.3	BI-214	SCAQC-7928-LD1	11/09/07 08:22	0.571	0.103	0.118	0.056
DOE 4.5.2.3	PB-214	SCAQC-7928-LD1	11/09/07 08:22	0.551	0.086	0.102	0.057
DOE 4.5.2.3	RA-223	SCAQC-7928-LD1	11/09/07 08:22	0.232	0.173	0.174	0.141
DOE 4.5.2.3	AC-228	SCAQC-7928-LD1	11/09/07 08:22	0.739	0.138	0.156	0.100
DOE 4.5.2.3	PA-233	SCAQC-7928-LD1	11/09/07 08:22	0.010	0.032	0.032	0.056
DOE 4.5.2.3	PA-234M	SCAQC-7928-LD1	11/09/07 08:22	0.786	1.87	1.87	3.48
DOE 4.5.2.3	TH-234	SCAQC-7928-LD1	11/09/07 08:22	0.940	0.413	0.424	0.590
DOE 4.5.2.3	U-235	SCAQC-7928-LD1	11/09/07 08:22	0.066	0.109	0.109	0.182
DOE 4.5.2.3	NP-236	SCAQC-7928-LD1	11/09/07 08:22	0.053	0.034	0.034	0.060
DOE 4.5.2.3	NP-237	SCAQC-7928-LD1	11/09/07 08:22	0.306	0.177	0.179	0.238
DOE 4.5.2.3	NP-239	SCAQC-7928-LD1	11/09/07 08:22	0.014	0.104	0.105	0.184
DOE 4.5.2.3	AM-241	SCAQC-7928-LD1	11/09/07 08:22	0.037	0.092	0.092	0.160
DOE 4.5.2.3	AM-243	SCAQC-7928-LD1	11/09/07 08:22	0.152	0.050	0.052	0.053
DOE 4.5.2.3	CM-243	SCAQC-7928-LD1	11/09/07 08:22	0.005	0.055	0.055	0.092
DOE 4.5.2.3	AM-246	SCAQC-7928-LD1	11/09/07 08:22	0.034	0.059	0.059	0.099
DOE 4.5.2.3	CF-249	SCAQC-7928-LD1	11/09/07 08:22	-0.001	0.020	0.020	0.034

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7928-LD1	OH207-7928-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2187-SD				
Other Sample ID:	LD1	Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7928-LC1	SCAQC-7928-LD1		SCAQC-7928-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #25/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2187-ST

Other Sample ID: LD1 Collection Date: 9/24/2007 Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7927-LD1	11/08/07 17:51	3.09	0.432	0.531	0.201
DOE 4.5.2.3	CO-60	SCAQC-7927-LD1	11/08/07 17:51	0.006	0.015	0.015	0.028
DOE 4.5.2.3	RH-101	SCAQC-7927-LD1	11/08/07 17:51	-0.008	0.018	0.018	0.028
DOE 4.5.2.3	SB-125	SCAQC-7927-LD1	11/08/07 17:51	-3.7e-04	0.047	0.047	0.081
DOE 4.5.2.3	CS-137	SCAQC-7927-LD1	11/08/07 17:51	0.365	0.059	0.069	0.026
DOE 4.5.2.3	EU-155	SCAQC-7927-LD1	11/08/07 17:51	-0.009	0.059	0.059	0.099
DOE 4.5.2.3	TL-208	SCAQC-7927-LD1	11/08/07 17:51	0.234	0.044	0.050	0.027
DOE 4.5.2.3	PO-209	SCAQC-7927-LD1	11/08/07 17:51	-1.01	3.18	3.18	5.43
DOE 4.5.2.3	BI-211	SCAQC-7927-LD1	11/08/07 17:51	-0.008	0.458	0.458	0.807
DOE 4.5.2.3	BI-212	SCAQC-7927-LD1	11/08/07 17:51	0.466	0.197	0.203	0.212
DOE 4.5.2.3	PB-212	SCAQC-7927-LD1	11/08/07 17:51	0.726	0.075	0.105	0.047
DOE 4.5.2.3	BI-214	SCAQC-7927-LD1	11/08/07 17:51	0.596	0.097	0.114	0.051
DOE 4.5.2.3	PB-214	SCAQC-7927-LD1	11/08/07 17:51	0.654	0.086	0.108	0.056
DOE 4.5.2.3	RA-223	SCAQC-7927-LD1	11/08/07 17:51	0.224	0.127	0.129	0.143
DOE 4.5.2.3	AC-228	SCAQC-7927-LD1	11/08/07 17:51	0.801	0.160	0.179	0.099
DOE 4.5.2.3	PA-233	SCAQC-7927-LD1	11/08/07 17:51	0.006	0.030	0.030	0.053
DOE 4.5.2.3	PA-234M	SCAQC-7927-LD1	11/08/07 17:51	-1.12	1.91	1.91	3.18
DOE 4.5.2.3	TH-234	SCAQC-7927-LD1	11/08/07 17:51	1.03	0.458	0.470	0.602
DOE 4.5.2.3	U-235	SCAQC-7927-LD1	11/08/07 17:51	-0.029	0.111	0.111	0.180
DOE 4.5.2.3	NP-236	SCAQC-7927-LD1	11/08/07 17:51	0.011	0.037	0.037	0.060
DOE 4.5.2.3	NP-237	SCAQC-7927-LD1	11/08/07 17:51	0.509	0.169	0.176	0.236
DOE 4.5.2.3	NP-239	SCAQC-7927-LD1	11/08/07 17:51	-0.060	0.105	0.105	0.179
DOE 4.5.2.3	AM-241	SCAQC-7927-LD1	11/08/07 17:51	-0.089	0.093	0.093	0.154
DOE 4.5.2.3	AM-243	SCAQC-7927-LD1	11/08/07 17:51	0.205	0.063	0.066	0.052
DOE 4.5.2.3	CM-243	SCAQC-7927-LD1	11/08/07 17:51	-0.027	0.053	0.053	0.087
DOE 4.5.2.3	AM-246	SCAQC-7927-LD1	11/08/07 17:51	-0.009	0.051	0.051	0.088
DOE 4.5.2.3	CF-249	SCAQC-7927-LD1	11/08/07 17:51	-0.013	0.019	0.019	0.031

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7927-LD1	OH207-7927-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #25/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2187-ST				
Other Sample ID:	LD1	Collection Date:	9/24/2007	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7927-LC1	SCAQC-7927-LD1		SCAQC-7927-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7925-PB1	11/06/07 08:38	0.190	0.185	0.186	0.384
DOE 4.5.2.3	CO-60	SCAQC-7925-PB1	11/06/07 08:38	0.004	0.012	0.012	0.021
DOE 4.5.2.3	RH-101	SCAQC-7925-PB1	11/06/07 08:38	0.002	0.012	0.012	0.021
DOE 4.5.2.3	SB-125	SCAQC-7925-PB1	11/06/07 08:38	0.025	0.034	0.034	0.064
DOE 4.5.2.3	CS-137	SCAQC-7925-PB1	11/06/07 08:38	-0.010	0.014	0.014	0.022
DOE 4.5.2.3	EU-155	SCAQC-7925-PB1	11/06/07 08:38	-0.015	0.031	0.031	0.054
DOE 4.5.2.3	TL-208	SCAQC-7925-PB1	11/06/07 08:38	0.009	0.014	0.014	0.027
DOE 4.5.2.3	PO-209	SCAQC-7925-PB1	11/06/07 08:38	0.190	2.68	2.68	4.95
DOE 4.5.2.3	BI-211	SCAQC-7925-PB1	11/06/07 08:38	0.324	0.386	0.388	0.742
DOE 4.5.2.3	BI-212	SCAQC-7925-PB1	11/06/07 08:38	0.101	0.092	0.092	0.183
DOE 4.5.2.3	PB-212	SCAQC-7925-PB1	11/06/07 08:38	0.001	0.023	0.023	0.041
DOE 4.5.2.3	BI-214	SCAQC-7925-PB1	11/06/07 08:38	0.066	0.038	0.038	0.058
DOE 4.5.2.3	PB-214	SCAQC-7925-PB1	11/06/07 08:38	0.010	0.027	0.027	0.047
DOE 4.5.2.3	RA-223	SCAQC-7925-PB1	11/06/07 08:38	-0.003	0.063	0.063	0.107
DOE 4.5.2.3	AC-228	SCAQC-7925-PB1	11/06/07 08:38	0.026	0.050	0.050	0.098
DOE 4.5.2.3	PA-233	SCAQC-7925-PB1	11/06/07 08:38	0.012	0.024	0.024	0.042
DOE 4.5.2.3	PA-234M	SCAQC-7925-PB1	11/06/07 08:38	1.36	1.87	1.87	3.56
DOE 4.5.2.3	TH-234	SCAQC-7925-PB1	11/06/07 08:38	-0.004	0.186	0.186	0.348
DOE 4.5.2.3	U-235	SCAQC-7925-PB1	11/06/07 08:38	-0.035	0.074	0.074	0.125
DOE 4.5.2.3	NP-236	SCAQC-7925-PB1	11/06/07 08:38	-6.8e-04	0.019	0.019	0.032
DOE 4.5.2.3	NP-237	SCAQC-7925-PB1	11/06/07 08:38	-0.015	0.062	0.062	0.102
DOE 4.5.2.3	NP-239	SCAQC-7925-PB1	11/06/07 08:38	-0.037	0.079	0.079	0.132
DOE 4.5.2.3	AM-241	SCAQC-7925-PB1	11/06/07 08:38	-0.080	0.025	0.026	0.035
DOE 4.5.2.3	AM-243	SCAQC-7925-PB1	11/06/07 08:38	8.1e-04	0.011	0.011	0.019
DOE 4.5.2.3	CM-243	SCAQC-7925-PB1	11/06/07 08:38	-0.015	0.029	0.029	0.050
DOE 4.5.2.3	AM-246	SCAQC-7925-PB1	11/06/07 08:38	-0.013	0.045	0.045	0.080
DOE 4.5.2.3	CF-249	SCAQC-7925-PB1	11/06/07 08:38	-0.009	0.013	0.013	0.022

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7925-LC1	SCAQC-7925-LD1		SCAQC-7925-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil

Site Sample ID: N/A

Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00

Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7926-PB1	11/07/07 08:54	-0.054	0.170	0.170	0.318
DOE 4.5.2.3	CO-60	SCAQC-7926-PB1	11/07/07 08:54	-0.002	0.010	0.010	0.019
DOE 4.5.2.3	RH-101	SCAQC-7926-PB1	11/07/07 08:54	-0.014	0.012	0.012	0.020
DOE 4.5.2.3	SB-125	SCAQC-7926-PB1	11/07/07 08:54	-0.026	0.030	0.030	0.050
DOE 4.5.2.3	CS-137	SCAQC-7926-PB1	11/07/07 08:54	-0.004	0.013	0.013	0.022
DOE 4.5.2.3	EU-155	SCAQC-7926-PB1	11/07/07 08:54	-0.017	0.032	0.032	0.054
DOE 4.5.2.3	TL-208	SCAQC-7926-PB1	11/07/07 08:54	0.014	0.016	0.016	0.030
DOE 4.5.2.3	PO-209	SCAQC-7926-PB1	11/07/07 08:54	-0.216	2.27	2.27	4.18
DOE 4.5.2.3	BI-211	SCAQC-7926-PB1	11/07/07 08:54	0.138	0.320	0.320	0.607
DOE 4.5.2.3	BI-212	SCAQC-7926-PB1	11/07/07 08:54	-0.020	0.108	0.108	0.186
DOE 4.5.2.3	PB-212	SCAQC-7926-PB1	11/07/07 08:54	0.031	0.029	0.029	0.039
DOE 4.5.2.3	BI-214	SCAQC-7926-PB1	11/07/07 08:54	0.033	0.035	0.035	0.056
DOE 4.5.2.3	PB-214	SCAQC-7926-PB1	11/07/07 08:54	-0.017	0.027	0.028	0.044
DOE 4.5.2.3	RA-223	SCAQC-7926-PB1	11/07/07 08:54	0.025	0.059	0.059	0.105
DOE 4.5.2.3	AC-228	SCAQC-7926-PB1	11/07/07 08:54	-0.019	0.053	0.053	0.094
DOE 4.5.2.3	PA-233	SCAQC-7926-PB1	11/07/07 08:54	0.002	0.024	0.024	0.042
DOE 4.5.2.3	PA-234M	SCAQC-7926-PB1	11/07/07 08:54	0.219	1.67	1.67	3.05
DOE 4.5.2.3	TH-234	SCAQC-7926-PB1	11/07/07 08:54	-0.070	0.185	0.185	0.343
DOE 4.5.2.3	U-235	SCAQC-7926-PB1	11/07/07 08:54	-0.050	0.075	0.075	0.126
DOE 4.5.2.3	NP-236	SCAQC-7926-PB1	11/07/07 08:54	0.014	0.019	0.019	0.033
DOE 4.5.2.3	NP-237	SCAQC-7926-PB1	11/07/07 08:54	0.002	0.058	0.058	0.097
DOE 4.5.2.3	NP-239	SCAQC-7926-PB1	11/07/07 08:54	0.011	0.078	0.078	0.135
DOE 4.5.2.3	AM-241	SCAQC-7926-PB1	11/07/07 08:54	-0.058	0.025	0.025	0.036
DOE 4.5.2.3	AM-243	SCAQC-7926-PB1	11/07/07 08:54	-0.003	0.012	0.012	0.019
DOE 4.5.2.3	CM-243	SCAQC-7926-PB1	11/07/07 08:54	-0.003	0.029	0.029	0.050
DOE 4.5.2.3	AM-246	SCAQC-7926-PB1	11/07/07 08:54	-0.066	0.042	0.043	0.058
DOE 4.5.2.3	CF-249	SCAQC-7926-PB1	11/07/07 08:54	0.004	0.014	0.014	0.026

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number: None		Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7926-LC1	SCAQC-7926-LD1		SCAQC-7926-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7927-PB1	11/08/07 14:45	-0.094	0.133	0.133	0.252
DOE 4.5.2.3	CO-60	SCAQC-7927-PB1	11/08/07 14:45	-0.002	0.009	0.009	0.017
DOE 4.5.2.3	RH-101	SCAQC-7927-PB1	11/08/07 14:45	8.2e-04	0.011	0.011	0.018
DOE 4.5.2.3	SB-125	SCAQC-7927-PB1	11/08/07 14:45	0.004	0.026	0.026	0.046
DOE 4.5.2.3	CS-137	SCAQC-7927-PB1	11/08/07 14:45	-0.009	0.010	0.010	0.016
DOE 4.5.2.3	EU-155	SCAQC-7927-PB1	11/08/07 14:45	-0.010	0.033	0.033	0.056
DOE 4.5.2.3	TL-208	SCAQC-7927-PB1	11/08/07 14:45	0.008	0.011	0.011	0.020
DOE 4.5.2.3	PO-209	SCAQC-7927-PB1	11/08/07 14:45	1.42	2.09	2.09	4.06
DOE 4.5.2.3	BI-211	SCAQC-7927-PB1	11/08/07 14:45	0.231	0.266	0.267	0.536
DOE 4.5.2.3	BI-212	SCAQC-7927-PB1	11/08/07 14:45	0.019	0.071	0.071	0.134
DOE 4.5.2.3	PB-212	SCAQC-7927-PB1	11/08/07 14:45	0.006	0.018	0.018	0.032
DOE 4.5.2.3	BI-214	SCAQC-7927-PB1	11/08/07 14:45	0.002	0.024	0.024	0.044
DOE 4.5.2.3	PB-214	SCAQC-7927-PB1	11/08/07 14:45	0.013	0.024	0.024	0.042
DOE 4.5.2.3	RA-223	SCAQC-7927-PB1	11/08/07 14:45	0.046	0.055	0.055	0.099
DOE 4.5.2.3	AC-228	SCAQC-7927-PB1	11/08/07 14:45	-0.006	0.039	0.039	0.071
DOE 4.5.2.3	PA-233	SCAQC-7927-PB1	11/08/07 14:45	-0.004	0.020	0.020	0.034
DOE 4.5.2.3	PA-234M	SCAQC-7927-PB1	11/08/07 14:45	0.263	1.09	1.09	2.11
DOE 4.5.2.3	TH-234	SCAQC-7927-PB1	11/08/07 14:45	-0.099	0.184	0.184	0.334
DOE 4.5.2.3	U-235	SCAQC-7927-PB1	11/08/07 14:45	0.002	0.063	0.063	0.104
DOE 4.5.2.3	NP-236	SCAQC-7927-PB1	11/08/07 14:45	0.001	0.019	0.019	0.033
DOE 4.5.2.3	NP-237	SCAQC-7927-PB1	11/08/07 14:45	-0.029	0.070	0.071	0.115
DOE 4.5.2.3	NP-239	SCAQC-7927-PB1	11/08/07 14:45	-0.077	0.063	0.063	0.102
DOE 4.5.2.3	AM-241	SCAQC-7927-PB1	11/08/07 14:45	0.016	0.047	0.047	0.085
DOE 4.5.2.3	AM-243	SCAQC-7927-PB1	11/08/07 14:45	-0.009	0.016	0.016	0.027
DOE 4.5.2.3	CM-243	SCAQC-7927-PB1	11/08/07 14:45	0.007	0.031	0.031	0.053
DOE 4.5.2.3	AM-246	SCAQC-7927-PB1	11/08/07 14:45	0.006	0.028	0.028	0.054
DOE 4.5.2.3	CF-249	SCAQC-7927-PB1	11/08/07 14:45	0.001	0.011	0.011	0.019

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7927-LC1	SCAQC-7927-LD1		SCAQC-7927-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/27/2007 8:45:00 AM Date Received: 9/27/2007 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/g)	2 σ Counting Error (pCi/g)	Total Error (pCi/g)	MDA (pCi/g)
DOE 4.5.2.3	K-40	SCAQC-7928-PB1	11/08/07 20:58	0.056	0.163	0.163	0.330
DOE 4.5.2.3	CO-60	SCAQC-7928-PB1	11/08/07 20:58	0.008	0.015	0.015	0.019
DOE 4.5.2.3	RH-101	SCAQC-7928-PB1	11/08/07 20:58	-0.017	0.013	0.013	0.020
DOE 4.5.2.3	SB-125	SCAQC-7928-PB1	11/08/07 20:58	-0.012	0.032	0.032	0.055
DOE 4.5.2.3	CS-137	SCAQC-7928-PB1	11/08/07 20:58	0.016	0.013	0.013	0.025
DOE 4.5.2.3	EU-155	SCAQC-7928-PB1	11/08/07 20:58	-0.005	0.033	0.033	0.058
DOE 4.5.2.3	TL-208	SCAQC-7928-PB1	11/08/07 20:58	0.009	0.016	0.016	0.029
DOE 4.5.2.3	PO-209	SCAQC-7928-PB1	11/08/07 20:58	2.16	2.62	2.63	5.17
DOE 4.5.2.3	BI-211	SCAQC-7928-PB1	11/08/07 20:58	0.031	0.363	0.363	0.651
DOE 4.5.2.3	BI-212	SCAQC-7928-PB1	11/08/07 20:58	-0.001	0.092	0.092	0.164
DOE 4.5.2.3	PB-212	SCAQC-7928-PB1	11/08/07 20:58	-0.014	0.024	0.024	0.041
DOE 4.5.2.3	BI-214	SCAQC-7928-PB1	11/08/07 20:58	0.036	0.030	0.030	0.057
DOE 4.5.2.3	PB-214	SCAQC-7928-PB1	11/08/07 20:58	0.039	0.033	0.033	0.050
DOE 4.5.2.3	RA-223	SCAQC-7928-PB1	11/08/07 20:58	-7.7e-04	0.064	0.064	0.109
DOE 4.5.2.3	AC-228	SCAQC-7928-PB1	11/08/07 20:58	-0.050	0.054	0.054	0.090
DOE 4.5.2.3	PA-233	SCAQC-7928-PB1	11/08/07 20:58	-0.016	0.024	0.024	0.039
DOE 4.5.2.3	PA-234M	SCAQC-7928-PB1	11/08/07 20:58	-0.695	1.81	1.81	3.10
DOE 4.5.2.3	TH-234	SCAQC-7928-PB1	11/08/07 20:58	0.013	0.188	0.189	0.352
DOE 4.5.2.3	U-235	SCAQC-7928-PB1	11/08/07 20:58	-0.045	0.075	0.075	0.126
DOE 4.5.2.3	NP-236	SCAQC-7928-PB1	11/08/07 20:58	0.003	0.019	0.019	0.032
DOE 4.5.2.3	NP-237	SCAQC-7928-PB1	11/08/07 20:58	-0.030	0.061	0.061	0.099
DOE 4.5.2.3	NP-239	SCAQC-7928-PB1	11/08/07 20:58	0.054	0.078	0.078	0.139
DOE 4.5.2.3	AM-241	SCAQC-7928-PB1	11/08/07 20:58	-0.095	0.026	0.027	0.034
DOE 4.5.2.3	AM-243	SCAQC-7928-PB1	11/08/07 20:58	-9.1e-04	0.012	0.012	0.019
DOE 4.5.2.3	CM-243	SCAQC-7928-PB1	11/08/07 20:58	0.024	0.030	0.030	0.054
DOE 4.5.2.3	AM-246	SCAQC-7928-PB1	11/08/07 20:58	-0.004	0.041	0.041	0.076
DOE 4.5.2.3	CF-249	SCAQC-7928-PB1	11/08/07 20:58	0.013	0.015	0.015	0.028

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7925_7928

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/27/2007 8:45:00 AM	Date Received:	9/27/2007 8:45:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7928-LC1	SCAQC-7928-LD1		SCAQC-7928-PB1

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Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah
Matrix: Soil
Laboratory Code: SCA

Laboratory Contol Sample (LC1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/g)	(OV) Laboratory Control Sample Activity (pCi/g)	Laboratory Control Sample % Recovery (Accuracy)	Number of σ Between CV and OV
DOE 4.5.2.3	CO-60	SCAQC-7928-LC1	31.1 ± 0.839	32.2 ± 3.81	104	0.414
DOE 4.5.2.3	CO-60	SCAQC-7927-LC1	31.1 ± 0.839	32.0 ± 3.79	103	0.348
DOE 4.5.2.3	CO-60	SCAQC-7926-LC1	31.1 ± 0.839	31.7 ± 3.75	102	0.250
DOE 4.5.2.3	CO-60	SCAQC-7925-LC1	31.1 ± 0.839	31.8 ± 3.76	102	0.265
DOE 4.5.2.3	CS-137	SCAQC-7928-LC1	28.8 ± 0.864	30.6 ± 3.80	106	0.712
DOE 4.5.2.3	CS-137	SCAQC-7927-LC1	28.8 ± 0.864	30.7 ± 3.81	107	0.727
DOE 4.5.2.3	CS-137	SCAQC-7926-LC1	28.8 ± 0.864	30.4 ± 3.77	105	0.609
DOE 4.5.2.3	CS-137	SCAQC-7925-LC1	28.8 ± 0.864	30.6 ± 3.79	106	0.687
DOE 4.5.2.3	AM-241	SCAQC-7928-LC1	77.0 ± 2.31	77.1 ± 9.15	100	0.022
DOE 4.5.2.3	AM-241	SCAQC-7927-LC1	77.0 ± 2.31	77.5 ± 9.19	101	0.078
DOE 4.5.2.3	AM-241	SCAQC-7926-LC1	77.0 ± 2.31	76.8 ± 9.11	99.7	0.031
DOE 4.5.2.3	AM-241	SCAQC-7925-LC1	77.0 ± 2.31	77.7 ± 9.21	101	0.104

Laboratory Duplicate Sample (LD1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	Original Sample Activity (pCi/g)	Duplicate Sample Activity (pCi/g)	Difference Between Original Activity and Duplicate Sample Activity (F)	Ratio of the Difference Between the Sample Activity and the Propagated Measurement at 1 σ (F/E)
DOE 4.5.2.3	K-40	SCAQC-7925-LD1	3.81 ± 0.662	3.94 ± 0.646	0.132	0.285
DOE 4.5.2.3	K-40	SCAQC-7926-LD1	4.21 ± 0.672	4.17 ± 0.674	0.043	0.090
DOE 4.5.2.3	K-40	SCAQC-7928-LD1	2.12 ± 0.490	2.08 ± 0.444	0.041	0.124
DOE 4.5.2.3	K-40	SCAQC-7927-LD1	3.44 ± 0.615	3.09 ± 0.531	0.341	0.839
DOE 4.5.2.3	CO-60	SCAQC-7928-LD1	-5.6e-04 ± 0.018	-0.013 ± 0.016	0.013	1.08
DOE 4.5.2.3	CO-60	SCAQC-7925-LD1	0.005 ± 0.022	0.010 ± 0.015	0.005	0.400
DOE 4.5.2.3	CO-60	SCAQC-7927-LD1	-0.002 ± 0.016	0.006 ± 0.015	0.007	0.643
DOE 4.5.2.3	CO-60	SCAQC-7926-LD1	-0.010 ± 0.017	0.004 ± 0.018	0.014	1.13
DOE 4.5.2.3	RH-101	SCAQC-7927-LD1	0.012 ± 0.017	-0.008 ± 0.018	0.021	1.69
DOE 4.5.2.3	RH-101	SCAQC-7926-LD1	0.021 ± 0.020	-0.007 ± 0.020	0.028	2.04
DOE 4.5.2.3	RH-101	SCAQC-7925-LD1	0.019 ± 0.021	0.015 ± 0.019	0.004	0.272
DOE 4.5.2.3	RH-101	SCAQC-7928-LD1	-0.002 ± 0.016	0.021 ± 0.018	0.023	1.89
DOE 4.5.2.3	SB-125	SCAQC-7928-LD1	0.018 ± 0.044	-0.012 ± 0.045	0.030	0.954

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Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah
Matrix: Soil
Laboratory Code: SCA

DOE 4.5.2.3	SB-125	SCAQC-7926-LD1	-0.015	± 0.048	-0.027	± 0.049	0.012	0.343
DOE 4.5.2.3	SB-125	SCAQC-7927-LD1	0.004	± 0.043	-3.7e-04	± 0.047	0.005	0.147
DOE 4.5.2.3	SB-125	SCAQC-7925-LD1	-0.049	± 0.057	-0.034	± 0.047	0.015	0.422
DOE 4.5.2.3	CS-137	SCAQC-7927-LD1	0.337	± 0.067	0.365	± 0.069	0.028	0.586
DOE 4.5.2.3	CS-137	SCAQC-7925-LD1	0.109	± 0.036	0.118	± 0.038	0.009	0.350
DOE 4.5.2.3	CS-137	SCAQC-7928-LD1	0.027	± 0.020	0.017	± 0.020	0.010	0.739
DOE 4.5.2.3	CS-137	SCAQC-7926-LD1	0.035	± 0.031	0.050	± 0.029	0.015	0.703
DOE 4.5.2.3	EU-155	SCAQC-7927-LD1	0.006	± 0.060	-0.009	± 0.059	0.015	0.349
DOE 4.5.2.3	EU-155	SCAQC-7928-LD1	0.029	± 0.059	0.003	± 0.060	0.026	0.615
DOE 4.5.2.3	EU-155	SCAQC-7926-LD1	0.140	± 0.100	0.108	± 0.086	0.032	0.481
DOE 4.5.2.3	EU-155	SCAQC-7925-LD1	0.098	± 0.064	0.042	± 0.067	0.056	1.20
DOE 4.5.2.3	TL-208	SCAQC-7928-LD1	0.213	± 0.048	0.238	± 0.050	0.024	0.703
DOE 4.5.2.3	TL-208	SCAQC-7926-LD1	0.564	± 0.093	0.521	± 0.090	0.042	0.655
DOE 4.5.2.3	TL-208	SCAQC-7927-LD1	0.235	± 0.051	0.234	± 0.050	0.001	0.034
DOE 4.5.2.3	TL-208	SCAQC-7925-LD1	0.414	± 0.071	0.369	± 0.068	0.045	0.913
DOE 4.5.2.3	PO-209	SCAQC-7928-LD1	-0.241	± 2.88	0.453	± 3.18	0.694	0.324
DOE 4.5.2.3	PO-209	SCAQC-7925-LD1	1.04	± 3.37	-1.94	± 3.06	2.98	1.31
DOE 4.5.2.3	PO-209	SCAQC-7927-LD1	-0.350	± 2.89	-1.01	± 3.18	0.656	0.305
DOE 4.5.2.3	PO-209	SCAQC-7926-LD1	-1.75	± 3.36	0.500	± 3.35	2.25	0.949
DOE 4.5.2.3	BI-211	SCAQC-7926-LD1	-0.294	± 0.524	-0.684	± 0.558	0.390	1.02
DOE 4.5.2.3	BI-211	SCAQC-7925-LD1	-0.320	± 0.653	0.180	± 0.501	0.500	1.21
DOE 4.5.2.3	BI-211	SCAQC-7927-LD1	-0.318	± 0.429	-0.008	± 0.458	0.310	0.988
DOE 4.5.2.3	BI-211	SCAQC-7928-LD1	0.121	± 0.467	-0.490	± 0.460	0.611	1.87
DOE 4.5.2.3	BI-212	SCAQC-7925-LD1	0.890	± 0.322	0.708	± 0.264	0.183	0.877
DOE 4.5.2.3	BI-212	SCAQC-7928-LD1	0.434	± 0.196	0.574	± 0.248	0.139	0.882
DOE 4.5.2.3	BI-212	SCAQC-7927-LD1	0.328	± 0.281	0.466	± 0.203	0.139	0.801
DOE 4.5.2.3	BI-212	SCAQC-7926-LD1	1.02	± 0.287	0.975	± 0.305	0.047	0.226
DOE 4.5.2.3	PB-212	SCAQC-7926-LD1	1.69	± 0.225	1.62	± 0.216	0.062	0.398
DOE 4.5.2.3	PB-212	SCAQC-7927-LD1	0.698	± 0.101	0.726	± 0.105	0.029	0.396
DOE 4.5.2.3	PB-212	SCAQC-7925-LD1	1.01	± 0.159	1.13	± 0.155	0.113	1.02
DOE 4.5.2.3	PB-212	SCAQC-7928-LD1	0.610	± 0.092	0.586	± 0.090	0.024	0.373
DOE 4.5.2.3	BI-214	SCAQC-7926-LD1	0.820	± 0.143	0.777	± 0.137	0.043	0.438
DOE 4.5.2.3	BI-214	SCAQC-7928-LD1	0.488	± 0.106	0.571	± 0.118	0.084	1.06
DOE 4.5.2.3	BI-214	SCAQC-7927-LD1	0.664	± 0.118	0.596	± 0.114	0.068	0.831
DOE 4.5.2.3	BI-214	SCAQC-7925-LD1	0.785	± 0.136	0.787	± 0.144	0.002	0.024
DOE 4.5.2.3	PB-214	SCAQC-7927-LD1	0.683	± 0.111	0.654	± 0.108	0.028	0.367
DOE 4.5.2.3	PB-214	SCAQC-7928-LD1	0.647	± 0.108	0.551	± 0.102	0.096	1.29
DOE 4.5.2.3	PB-214	SCAQC-7926-LD1	0.838	± 0.132	0.842	± 0.134	0.004	0.045
DOE 4.5.2.3	PB-214	SCAQC-7925-LD1	0.786	± 0.139	0.838	± 0.138	0.052	0.532
DOE 4.5.2.3	RA-223	SCAQC-7925-LD1	0.535	± 0.203	0.209	± 0.152	0.326	2.57
DOE 4.5.2.3	RA-223	SCAQC-7927-LD1	0.194	± 0.126	0.224	± 0.129	0.030	0.330
DOE 4.5.2.3	RA-223	SCAQC-7928-LD1	0.208	± 0.138	0.232	± 0.174	0.024	0.215
DOE 4.5.2.3	RA-223	SCAQC-7926-LD1	0.527	± 0.186	0.459	± 0.176	0.068	0.534
DOE 4.5.2.3	AC-228	SCAQC-7926-LD1	1.86	± 0.261	1.73	± 0.282	0.125	0.651
DOE 4.5.2.3	AC-228	SCAQC-7925-LD1	1.32	± 0.253	1.37	± 0.221	0.049	0.292

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah
Matrix: Soil
Laboratory Code: SCA

DOE 4.5.2.3	AC-228	SCAQC-7928-LD1	0.747	± 0.185	0.739	± 0.156	0.008	0.070
DOE 4.5.2.3	AC-228	SCAQC-7927-LD1	0.720	± 0.143	0.801	± 0.179	0.081	0.704
DOE 4.5.2.3	PA-233	SCAQC-7927-LD1	0.004	± 0.029	0.006	± 0.030	0.002	0.080
DOE 4.5.2.3	PA-233	SCAQC-7926-LD1	-0.007	± 0.033	-0.003	± 0.033	0.004	0.163
DOE 4.5.2.3	PA-233	SCAQC-7925-LD1	0.049	± 0.038	0.011	± 0.031	0.038	1.55
DOE 4.5.2.3	PA-233	SCAQC-7928-LD1	-0.005	± 0.028	0.010	± 0.032	0.015	0.691
DOE 4.5.2.3	PA-234M	SCAQC-7927-LD1	2.01	± 1.80	-1.12	± 1.91	3.13	2.39
DOE 4.5.2.3	PA-234M	SCAQC-7926-LD1	2.35	± 1.93	0.124	± 2.17	2.22	1.53
DOE 4.5.2.3	PA-234M	SCAQC-7925-LD1	3.72	± 2.64	-0.329	± 1.99	4.05	2.45
DOE 4.5.2.3	PA-234M	SCAQC-7928-LD1	-0.007	± 1.68	0.786	± 1.87	0.793	0.631
DOE 4.5.2.3	TH-234	SCAQC-7928-LD1	0.944	± 0.383	0.940	± 0.424	0.004	0.014
DOE 4.5.2.3	TH-234	SCAQC-7927-LD1	1.40	± 0.484	1.03	± 0.470	0.365	1.08
DOE 4.5.2.3	TH-234	SCAQC-7925-LD1	1.30	± 0.466	1.51	± 0.549	0.212	0.589
DOE 4.5.2.3	TH-234	SCAQC-7926-LD1	2.66	± 0.682	1.89	± 0.555	0.769	1.75
DOE 4.5.2.3	U-235	SCAQC-7927-LD1	0.009	± 0.103	-0.029	± 0.111	0.038	0.497
DOE 4.5.2.3	U-235	SCAQC-7925-LD1	0.136	± 0.131	0.021	± 0.118	0.115	1.30
DOE 4.5.2.3	U-235	SCAQC-7926-LD1	0.080	± 0.128	0.014	± 0.125	0.066	0.738
DOE 4.5.2.3	U-235	SCAQC-7928-LD1	-0.052	± 0.104	0.066	± 0.109	0.118	1.57
DOE 4.5.2.3	NP-236	SCAQC-7928-LD1	0.025	± 0.034	0.053	± 0.034	0.029	1.20
DOE 4.5.2.3	NP-236	SCAQC-7927-LD1	0.021	± 0.036	0.011	± 0.037	0.010	0.374
DOE 4.5.2.3	NP-236	SCAQC-7925-LD1	0.030	± 0.039	0.008	± 0.040	0.022	0.771
DOE 4.5.2.3	NP-236	SCAQC-7926-LD1	0.023	± 0.043	0.015	± 0.045	0.008	0.258
DOE 4.5.2.3	NP-237	SCAQC-7926-LD1	1.19	± 0.329	0.793	± 0.262	0.397	1.89
DOE 4.5.2.3	NP-237	SCAQC-7928-LD1	0.254	± 0.190	0.306	± 0.179	0.052	0.400
DOE 4.5.2.3	NP-237	SCAQC-7927-LD1	0.643	± 0.212	0.509	± 0.176	0.134	0.969
DOE 4.5.2.3	NP-237	SCAQC-7925-LD1	0.350	± 0.171	0.570	± 0.233	0.220	1.52
DOE 4.5.2.3	NP-239	SCAQC-7927-LD1	0.033	± 0.112	-0.060	± 0.105	0.093	1.21
DOE 4.5.2.3	NP-239	SCAQC-7925-LD1	-0.057	± 0.143	-0.068	± 0.116	0.011	0.122
DOE 4.5.2.3	NP-239	SCAQC-7926-LD1	0.034	± 0.126	-0.092	± 0.119	0.126	1.46
DOE 4.5.2.3	NP-239	SCAQC-7928-LD1	0.082	± 0.108	0.014	± 0.105	0.068	0.899
DOE 4.5.2.3	AM-241	SCAQC-7925-LD1	0.021	± 0.044	0.058	± 0.107	0.037	0.641
DOE 4.5.2.3	AM-241	SCAQC-7927-LD1	0.075	± 0.099	-0.089	± 0.093	0.164	2.42
DOE 4.5.2.3	AM-241	SCAQC-7928-LD1	0.023	± 0.094	0.037	± 0.092	0.014	0.214
DOE 4.5.2.3	AM-241	SCAQC-7926-LD1	-0.083	± 0.119	-0.058	± 0.116	0.024	0.295
DOE 4.5.2.3	AM-243	SCAQC-7925-LD1	0.219	± 0.061	0.199	± 0.066	0.020	0.448
DOE 4.5.2.3	AM-243	SCAQC-7928-LD1	0.162	± 0.054	0.152	± 0.052	0.011	0.287
DOE 4.5.2.3	AM-243	SCAQC-7926-LD1	0.343	± 0.098	0.338	± 0.089	0.005	0.075
DOE 4.5.2.3	AM-243	SCAQC-7927-LD1	0.170	± 0.062	0.205	± 0.066	0.036	0.783
DOE 4.5.2.3	CM-243	SCAQC-7927-LD1	0.004	± 0.053	-0.027	± 0.053	0.031	0.835
DOE 4.5.2.3	CM-243	SCAQC-7928-LD1	-0.034	± 0.053	0.005	± 0.055	0.038	1.00
DOE 4.5.2.3	CM-243	SCAQC-7925-LD1	0.040	± 0.057	-0.019	± 0.061	0.058	1.39
DOE 4.5.2.3	CM-243	SCAQC-7926-LD1	0.051	± 0.071	0.026	± 0.071	0.025	0.498
DOE 4.5.2.3	AM-246	SCAQC-7928-LD1	0.034	± 0.055	0.034	± 0.059	6.0e-05	0.001
DOE 4.5.2.3	AM-246	SCAQC-7925-LD1	0.020	± 0.071	0.036	± 0.054	0.015	0.348
DOE 4.5.2.3	AM-246	SCAQC-7927-LD1	0.015	± 0.052	-0.009	± 0.051	0.024	0.655

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7925_7928

Project Name: Cabrera Services-Oah
Matrix: Soil
Laboratory Code: SCA

DOE 4.5.2.3	AM-246	SCAQC-7926-LD1	0.020	± 0.060	0.065	± 0.058	0.045	1.07
DOE 4.5.2.3	CF-249	SCAQC-7927-LD1	0.020	± 0.020	-0.013	± 0.019	0.033	2.37
DOE 4.5.2.3	CF-249	SCAQC-7925-LD1	0.007	± 0.024	0.023	± 0.022	0.017	1.02
DOE 4.5.2.3	CF-249	SCAQC-7928-LD1	-0.013	± 0.019	-0.001	± 0.020	0.011	0.815
DOE 4.5.2.3	CF-249	SCAQC-7926-LD1	-0.006	± 0.021	0.022	± 0.021	0.029	1.89

PREPARATION LOGS

SC&A, Inc.
Southeastern Environmental Laboratory

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: 04207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7925

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1482.5	CD 2/7/01
02	1734.8	
03	1670.5	
04	1562.3	
05	1262.8	
06	1671.4	
07	1912.8	
08	1118.8	
09	1245.1	
10	1160.2	
11	1201.3	
12	1224.9	
13	1352.2	
14	1290.3	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: 014207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7926

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1419.1	CW 9/27/07
02	1640.1	
03	1455.9	
04	1775.3	
05	1567.3	
06	1515.8	
07	1582.5	
08	1097.8	
09	1320.3	
10	1180.2	
11	1203.3	
12	1203.5	
13	1351.9	
14	1117.1	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: 04207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7927

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet or L) g-wet	Initials Date
01	993.7	CW 6/7/07
02	1046.5	↓
03	975.6	↓

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: 011207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7928

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1039.6	CD 2/9/07
02	1083.4	↓
03	1068.5	↓

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-1 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: OH207 Sample Matrix: Soil SOP No.: 302
Sample Batch Number: 7925 Sample Geometry: 400 ml Date: 10-3-07
Balance I.D.: 139

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	342.5	CD 10/3/07
02	394.0	↓
03	487.1	
04	471.3	
05	393.4	
06	458.0	
07	500.0	
08	374.0	
09	428.7	
10	416.5	
11	458.1	
12	446.3	
13	480.3	
14	503.7	↓

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: OH207
Sample Batch Number: 7926
Balance I.D.: 1139

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 10-3-07, 10-4-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	395.4	CD 10/3/07 10/4/07
02	475.1	
03	443.7	
04	501.8	
05	395.7	
06	456.1	
07	416.3	
08	398.9	
09	547.3	CD 10/4/07
10	440.9	
11	398.6	
12	392.5	
13	510.5	
14	398.0	

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: OH107
Sample Batch Number: 7927
Balance I.D.: 1139

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 10-4-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	362.5	CD 10/4/07
02	342.6	"
03	365.8	"

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 04207
Sample Batch Number: 7928
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 10-4-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	337.9	CD 10/4/07
02	393.8	"
03	386.1	"

SC&A - Southeastern Environmental Laboratory
SCA-Form 302-12 Rev. 0

SOIL PERMITS

Soil Permit

Permit Number: S-76792

UNITED STATES DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

Plant Protection and Quarantine

Issued To:

SC&A, Inc., Southeastern Environmental Laboratory
(Cynthia White)
1000 Monticello Court
Montgomery, Alabama 36117

TELEPHONE: (334) 272-2234

Under the authority of the Federal Plant Pest Act of May 23, 1957, permission is hereby granted to the facility/individual named above subject to the following conditions:

1. Valid for shipments of soil not heat treated at the port of entry, only if a Compliance Agreement (PPQ Form 519) has been completed and signed. Compliance Agreements and Soil Permits are non-transferable. If you hold a Soil Permit and you leave your present employer or Company, you must notify your local USDA office promptly. A copy of this permit must accompany all shipments.
2. To be shipped in sturdy, leakproof, containers.
3. To be released without treatment at the port of entry to permittee or authorized user.
4. To be used only for analysis and only in the facility of the permittee at SC&A, Inc., Southeastern Environmental Laboratory, located in Montgomery, Alabama..
5. No use of soil for growing purposes is authorized, including the isolation or culture of organisms imported in soil.
6. All unconsumed soil, containers, and effluent is to be autoclaved, incinerated, or heat treated by the permittee at the conclusion of the project as approved and prescribed by PPQ.
7. This permit authorizes shipments from all foreign sources, including Guam, Hawaii, Puerto Rico, and the U.S. Virgin Islands through any U.S. port of entry.

SEPTEMBER 30, 2010
Expiration Date

Lia Stewart
Approving Official LIA STEWART

WARNING: Any alteration, forgery, or unauthorized use of this Federal form is subject to civil penalties of up to $250,000 (7 U.S.C. s 7734(b)) or punishable by a fine of not more than $10,000, or imprisonment of not more than 5 years, or both (18 U.S.C. s 1001).

PPQ FORM 525B (8/94)

PART 1 - PERMITTEE

Soil Permit

Permit Number: S-73685

UNITED STATES DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

Plant Protection and Quarantine

Issued To: GPL Laboratories
(Yemane Yohannes)
7210-A Corporate Court
Frederick, Maryland 21703-8386

TELEPHONE: (301) 694-5310

Under the authority of the Federal Plant Pest Act of May 23, 1957, permission is hereby granted to the facility/individual named above subject to the following conditions:

1. Valid for shipments of soil not heat treated at the port of entry, only if a Compliance Agreement (PPQ Form 519) has been completed and signed. Compliance Agreements and Soil Permits are non-transferable. If you hold a Soil Permit and you leave your present employer or Company, you must notify your local USDA office promptly. A copy of this permit must accompany all shipments.
2. To be shipped in sturdy, leakproof, containers.
3. To be released without treatment at the port of entry to permittee or authorized user.
4. To be used only for analysis and only in the facility of the permittee at GPL Laboratories, located in Frederick, Maryland.
5. No use of soil for growing purposes is authorized, including the isolation or culture of organisms imported in soil.
6. All unconsumed soil, containers, and effluent is to be autoclaved, incinerated, or heat treated by the permittee at the conclusion of the project as approved and prescribed by PPQ.
7. This permit authorizes shipments from all foreign sources, including Guam, Hawaii, Puerto Rico, and the U.S. Virgin Islands through any U.S. port of entry.

SEPTEMBER 30, 2010
Expiration Date

Lia Stewart
Approving Official LIA STEWART

WARNING: Any alteration, forgery, or unauthorized use of this Federal form is subject to civil penalties of up to $250,000 (7 U.S.C. s 7734(b)) or punishable by a fine of not more than $10,000, or imprisonment of not more than 5 years, or both (18 U.S.C. s 1001).

PPQ FORM 525B (8/94)

PART 1 - PERMITTEE

Nuclide	Nuclide	Half	Key	Energy	
K-40	NATURAL	4.03E+16S	*	1460.80	10.66
CO-60	GAMMA	1.66E+08S	*	1173.23	100.00
				1332.51	100.00
RH-101	ACTIVATION	1.04E+08S	*	198.00	73.00
SB-125	ACTIVATION	8.62E+07S	*	427.87	29.80
CS-137	GAMMA	9.47E+08S	*	661.66	85.10
EU-155	ACTIVATION	1.57E+08S	*	105.31	21.20
TL-208	GAMMA	4.43E+17S		277.36	6.31
				510.77	22.60
			*	583.19	84.50
				763.13	1.81
				860.56	12.42
PO-209	GAMMA	3.22E+09S	*	896.60	0.47
BI-211	GAMMA	2.22E+16S	*	831.80	3.30
BI-212	GAMMA	4.43E+17S	*	727.33	11.80
				785.37	1.10
				1620.50	1.49
PB-212	GAMMA	4.43E+17S		74.81	10.40
				77.11	17.50
				87.30	7.81
			*	238.63	43.30
				300.09	3.28
BI-214	GAMMA	5.05E+10S	*	609.31	46.10
				768.36	4.94
				806.17	1.22
				934.06	3.03
				1120.29	15.10
				1155.19	1.63
				1238.11	5.79
				1280.96	1.43
				1377.67	4.00
				1401.50	1.27
				1407.98	2.15
				1509.23	2.11
				1729.60	2.92
				1764.49	15.40
PB-214	GAMMA	5.05E+10S		74.81	6.44
				77.11	10.80
				87.30	4.84
				242.00	7.43
				295.22	19.30
			*	351.93	37.60
RA-223	GAMMA	1.04E+12S	*	269.46	13.70
AC-228	NATURAL	4.43E+17S		129.07	2.42
				209.25	3.89
				270.25	3.46
				338.32	11.27
				409.46	1.92
				463.00	4.40
				794.95	4.25
			*	911.20	25.80

Nuclide	Nuclide	Half	Key	Energy	
				964.77	4.99
				968.97	15.80
				1588.20	3.22
PA-233	ACTIVATION	6.75E+13S	*	312.17	38.60
PA-234M	NATURAL	1.41E+17S	*	1001.03	0.84
TH-234	NATURAL	1.41E+17S	*	63.29	4.80
				92.58	5.41
U-235	GAMMA	2.22E+16S	*	143.76	10.96
NP-236	ACTIVATION	4.89E+12S	*	98.44	38.00
NP-237	ALPHA	6.75E+13S	*	86.48	12.40
NP-239	ACTIVATION	2.33E+11S	*	228.18	10.76
AM-241	ALPHA	1.36E+10S	*	59.54	35.90
AM-243	ALPHA	2.33E+11S	*	74.66	68.20
CM-243	ALPHA	8.99E+08S	*	103.76	23.00
AM-246	BETA	2.18E+11S	*	1078.86	27.80
CF-249	ALPHA	1.11E+10S	*	387.59	66.00

STANDARDS SUMMARY

S-142

ANALYTICS

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318 · U.S.A.

Phone (404) 352-8677
Fax (404) 352-2837

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

67834-301

400 mL Sand in 500 mL Plastic Container

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solution sources. The Am-241 was calibrated by 4 pi alpha liquid scintillation counting. All other radionuclides were calibrated using a germanium gamma spectrometer system. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Analytics maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Rev. 1, February, 1979.

Calibration date: January 1, 2004 12:00 EST

ISOTOPE	GAMMA-RAY ENERGY	HALF-LIFE		GAMMA-RAYS PER SECOND	TOTAL UNCERTAINTY %
Am-241	59.5	432	y	658.4	3.0
Cd-109	88	462.6	d	934.5	3.3
Co-57	122	271.79	d	543.4	3.0
Ce-139	166	137.6	d	734.4	2.8
Hg-203	279	46.61	d	1645	2.7
Sn-113	392	115.1	d	959.6	2.6
Cs-137	662	30.07	y	632.3	3.0
Y-88	898	106.6	d	2461	2.6
Co-60	1173	5.2714	y	1199	2.7
Co-60	1332	5.2714	y	1208	2.6
Y-88	1836	106.6	d	2571	2.6

640 grams of sand.
P O NUMBER A01488, Item 1

SOURCE PREPARED BY: M. Dimitrova
M. Dimitrova, Radiochemist

Q A APPROVED: 4-5-04

This standard will expire one year after the calibration date.

S142-15D

ANALYTICS

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318-U.S.A.

Phone (404) 352-8677
Fax (404) 352-2837
email: analytics@mindspring.com
www.analyticsinc.com

February 4, 2005

Richard Blanchard, Ph.D.
Quality Assurance Manager
Sanford Cohen & Associates
1000 Monticello Court
Montgomery, AL 36117

Subject: Expiration Date of Radioactivity Standards

Dear Dr. Blanchard;

The following is provided in response to your request for information regarding the use of Analytics standards beyond the expiration date.

The expiration date is based on the half-life of the nuclide and the expected stability of the matrix. The longest expiration date is generally 3 years from the date of calibration for long-lived radionuclides such as Cs-137 in a polyester resin matrix. We do not have adequate information about radiation damage of the resin over longer periods of time and cannot provide longer expiration dates.

The expiration date for a Mixed Gamma Standard is one year from the calibration date. This is considered the maximum useful life for such a standard to perform efficiency calibrations over the entire energy range since Hg-203 and Y-88 would have decayed by more than a factor of eight after one year. These sources can be used beyond the expiration date for efficiency and energy calibrations if they have been properly handled and measurements show that there have been no changes in the source geometry. Such a source would be considered NIST traceable for those radionuclides that can be corrected for decay without adding a significant uncertainty to the original calibration.

You specifically asked about standards labeled SRM 67834-301 through SRM 67842-302. These standards are all sealed and if they have been handled properly should still be fine for calibrating your detector systems. You do need to be sure and count for sufficient time to get good statistics for the short-lived gamma-ray emitters, and propagate the uncertainties for decay corrections. The expiration date for the referenced standards can be extended to April 1, 2005 subject to the above considerations.

Sincerely yours,

Daniel M. Montgomery

Daniel M. Montgomery, Ph.D.
Quality Assurance Manager

S142

MIXED GAMMA IN 400mL SAND IN 500mL PLASTIC CONTAINER

RECEIVED: 04-07-2004

SUPPLIER: ANALYTICS

SOURCE ID: 67834-301

ACTIVITY: 1.01 μCi WEIGHT: 640 g

CALIB. DATE: 01-01-2004 12:00 EST

EXP. DATE: ~~01-01-2005~~ 4-1-05
1-5-05
CW

see explanation attached to Certificate

4/19/04

VERIFICATION OF STANDARD CONCENTRATION

Standard I.D. No. 5142 Isotope Mixed Gamma (60Co) Date 6-08-07

Certificate Concentration of Standard as Diluted 32,527 ~~dpm~~ pCi/~~ml~~ Sample

Measurement Results

Measurement (n)	Concentration (x) (pCi/Sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	32,540	520	270,400
2	31,800	220	48,400
3	31,720	290	84,100
4			
5			
Mean	32,020 pCi/Sample		Σ 402,900

[a] $\Delta x_n = (\bar{x} - x_n)$.

$$\sigma = \sqrt{\frac{\sum (\Delta x_n)^2}{n-1}}$$

Mean Concentration = 32,020 ~~dpm~~ pCi/~~ml~~ Sample) 2.8%

Two Standard Deviations (2σ) = 900 ~~dpm~~ pCi/~~ml~~ Sample

Upper Limit ($\bar{x} + 2\sigma$) 32,920 pCi Lower Limit ($\bar{x} - 2\sigma$) 31,120 pCi

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

VERIFICATION OF STANDARD CONCENTRATION

Standard I.D. No. 5147 Isotope Mixed Gamma (109Cd) Date 6-08-07

Certificate Concentration of Standard as Diluted 678,945 ~~dpm~~ pC/~~ml~~ sample

Measurement Results

Measurement (n)	Concentration (x) (pC/sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	679,900	21,000	441,000,000
2	725,500	24,600	605,160,000
3	697,300	3,600	12,960,000
4			
5			
Mean	700,900 pC/sample		Σ 1,059,120,000

a $\Delta x_n = (\bar{x} - x_n)$.

$$\sigma = \sqrt{\frac{\sum (\Delta x_n)^2}{n-1}}$$

Mean Concentration = 700,900 ~~dpm~~ pC/~~ml~~ Sample) 6.6%

Two Standard Deviations (2σ) = 46,000 ~~dpm~~ pC/~~ml~~ Sample

Upper Limit ($\bar{x} + 2\sigma$) 746,900 pC Lower Limit ($\bar{x} - 2\sigma$) 654,900 pC

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

VERIFICATION OF STANDARD CONCENTRATION

Standard I.D. No. 5142 Isotope Mixed Gamma (^{137}Cs) Date 6-08-07

Certificate Concentration of Standard as Diluted 20,081 ~~dpm~~ pCi/~~ml~~ Sample

Measurement Results

Measurement (n)	Concentration (x) (pCi/Sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	21,880	850	722,500
2	21,200	170	28,900
3	20,000	1030	1,060,900
4			
5			
Mean	21,030 pCi/Sample		Σ 1,812,200

[a] $\Delta x_n = (\bar{x} - x_n)$.

$$\sigma = \sqrt{\frac{\sum (\Delta x_n)^2}{n-1}}$$

Mean Concentration = 21,030 ~~dpm~~ pCi/~~ml~~ Sample) 9.0%

Two Standard Deviations (2σ) = 1,900 ~~dpm~~ pCi/~~ml~~ Sample

Upper Limit ($\bar{x} + 2\sigma$) 22,930 pCi Lower Limit ($\bar{x} - 2\sigma$) 19,130 pCi

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

COUNTING RAW DATA

SC&A, Inc.
Southeastern Environmental Laboratory

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7925 7928			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7925-PB ✓		9/27/2007 8:45:00 AM	
SCAQC	7925-LD1 ✓ OH207-7925-01	SB-CZ-SS-2173-ST	9/24/2007	
SCAQC	7925-LC1 ✓		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7925-01 ✓	SB-CZ-SS-2173-ST	9/24/2007	
OH207	7925-02 ✓	SB-CZ-SS-2174-ST	9/24/2007	
OH207	7925-03 ✓	SB-CZ-SS-2175-ST	9/24/2007	
OH207	7925-04 ✓	SB-CZ-SS-2176-ST	9/24/2007	
OH207	7925-05 ✓	SB-CZ-SS-2177-ST	9/24/2007	
OH207	7925-06 ✓	SB-CZ-SS-2178-ST	9/24/2007	
OH207	7925-07 ✓	SB-CZ-SS-2179-ST	9/24/2007	
OH207	7925-08 ✓	SB-CZ-SS-2180-ST	9/24/2007	
OH207	7925-09 ✓	SB-CZ-SS-2181-ST	9/24/2007	
OH207	7925-10 ✓	SB-CZ-SS-2182-ST	9/24/2007	
OH207	7925-11 ✓	SB-CZ-SS-2183-ST	9/24/2007	
OH207	7925-12 ✓	SB-CZ-SS-2184-ST	9/24/2007	
OH207	7925-13 ✓	SB-CZ-SS-2185-ST	9/24/2007	
OH207	7925-14 ✓	SB-CZ-SS-2186-ST	9/24/2007	

Radiochemistry Reviewer 11/08/07 Date

QA Reviewer 11/08/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-6-07 1801 WL G3	60	SCAQC	7924	LC1	—	9-27-07 0845	CTRL SAMP S-142	SOIL	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 0232 G1 CW	180	SCAQC	7924	LD1	—	9-24-07	DUP 7924-01	SOIL	454.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 ~~0232~~ WL 0836 G2		OH207	7924	01	—	9-24-07	SB-CZ-SS-2169-SD		454.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 ~~0836~~ WL 0332 G3 CW				02	—		2170-SD		463.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 0232 G2 CW				03	—		2171-SD		317.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 0837 G1 WL				04	—		2172-SD		493.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 0838 G3 WL	180	SCAQC	7925	PB1	—	9-27-07 0845	PREP BLK	LIQUID	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 ~~1147~~ WL G3	60			LC1	—		CTRL SAMP S-142	SOIL	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 1144 G1 WL	180			LD1	—	9-24-07	DUP 7925-01		372.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-06-07 1148 G3 K	180	OH207		01	—	9-24-07	SB-CZ-SS-2173-ST		372.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

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SCA-Form 012 Rev. 1

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-06-07 1145 / G2	180	OH207	7925	02	—	9-24-07	SB-CZ-SS-2174-ST	Soil	394.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-06-07 1447 / G1 KW				03	—		2175-ST		487.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-06-07 1448 / G2 KW				04	—		2176-ST		471.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-06-07 1806 / G1 KW				05	—		2177-ST		393.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-06-07 1806 / G2 KW				06	—		2178-ST		458.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-06-07 1806 / G3 KW				07	—		2179-ST		500.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 21:24 / G1 JW				08	—		2180-ST		374.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 21:25 / G2 JW				09	—		2181-ST		428.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-6-07 21:27 / G3 JW				10	—		2182-ST		416.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 00:44 / G1 JW				11	—		2183-ST		450.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-7-07 00:45 G2 MW	180	OH207	7925	12	–	9-24-07	SB-CZ-SS-2184-ST	soil	440.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 00:47 G3 MW				13	–		2185-ST		480.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-07-07 0851 G1 MW				14	–		2186-ST		503.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 0854 G3 MW	180	SCAQC	7926	PB1	–	9-27-07 0845	PREP BLK	LIQUID	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1441 G3 K	60			LC1	–		CTRL SAMP S-142	soil	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 ~~0853~~ G2 MW	1514 180			LD1	–	9-24-07	DUP 7926-01		395.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-8-07 ~~1154~~ G1 MW	1748 K	OH207		01	–		SB-CZ-SS-2173-SD		395.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 ~~1156~~ ~~G2~~ MW	1512 G1 K			02	–		2174-SD		475.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 MW ~~1158~~ G3	1520			03	–		2175-SD		443.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-07-07 1833 G1 K				04	–		2176-SD		501.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

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Gamma Spectroscopy Report Generated 6-NOV-2007 11:39:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7925PB1_GAMMA3_400MLSA_17020.CNF

---- Sample Information ----

Sample ID	: SCAQC-7925-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17020		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 6-NOV-2007 08:38:59.
Decay time	: 39 23:53:59.81	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.59

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mear Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	608.84*	55	35	0.98	1349.80	1343	14	56.9		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	608.84	55	35	0.98	1349.80	1343	14	5.06E-03	56.9	1.13E+00	T

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	1.904E-01		1.854E-01	3.841E-01	2.260E-02	0.496
CO-60	3.647E-03		1.159E-02	2.072E-02	1.098E-03	0.176
RH-101	2.400E-03		1.232E-02	2.119E-02	3.271E-03	0.113
SB-125	2.547E-02		3.395E-02	6.368E-02	5.264E-03	0.400
CS-137	-1.024E-02		1.356E-02	2.217E-02	1.596E-03	-0.462
EU-155	-1.487E-02		3.144E-02	5.395E-02	5.073E-03	-0.276
TL-208	9.197E-03		1.412E-02	2.697E-02	2.146E-03	0.341
PO-209	1.905E-01		2.676E+00	4.946E+00	9.113E-01	0.039
BI-211	3.242E-01		3.862E-01	7.420E-01	5.344E-02	0.437
BI-212	1.010E-01		9.166E-02	1.826E-01	1.326E-02	0.553
PB-212	1.446E-03		2.348E-02	4.073E-02	3.044E-03	0.035
BI-214	6.576E-02	+	3.772E-02	5.847E-02	4.455E-03	1.125
PB-214	1.024E-02		2.717E-02	4.719E-02	3.755E-03	0.217
RA-223	-2.821E-03		6.261E-02	1.073E-01	9.503E-03	-0.026
AC-228	2.554E-02		5.020E-02	9.830E-02	6.911E-03	0.260
PA-233	1.238E-02		2.359E-02	4.185E-02	3.416E-03	0.296
PA-234M	1.361E+00		1.866E+00	3.559E+00	2.430E-01	0.382
TH-234	-3.712E-03		1.863E-01	3.482E-01	3.118E-02	-0.011
U-235	-3.545E-02		7.386E-02	1.253E-01	9.298E-03	-0.283
NP-236	-6.759E-04		1.907E-02	3.162E-02	3.018E-03	-0.021
NP-237	-1.537E-02		6.183E-02	1.015E-01	1.132E-02	-0.151
NP-239	-3.716E-02		7.891E-02	1.319E-01	1.764E-02	-0.282
AM-241	-7.983E-02		2.507E-02	3.459E-02	2.189E-03	-2.308
AM-243	8.081E-04		1.144E-02	1.867E-02	3.590E-03	0.043
CM-243	-1.464E-02		2.904E-02	4.974E-02	5.360E-03	-0.294
AM-246	-1.273E-02		4.482E-02	7.960E-02	1.005E-02	-0.160
CF-249	-9.116E-03		1.303E-02	2.209E-02	2.200E-03	-0.413

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Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 13:47:50

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7925LC1_GAMMA3_400MLSA_17024.CNF

---- Sample Information ----

Sample ID	: SCAQC-7925-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17024		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 6-NOV-2007 12:47:28.
Decay time	: 40 04:02:28.28	% dead time	: 0.2%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:05.63

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mead Date: 11/08/2007

Post-NID Peak Search Report
Sample ID : SCAQC-7925-LC1

Acquisition date : 6-NOV-2007 12:47:28

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	51.50	8052	16492	3.27	114.46	102	38	8.2	3.23E+02	
10	59.52	77078	5375	1.57	132.24	102	38	0.8		AM-241
0	88.06	14556	5818	1.33	195.51	189	15	2.8		
0	122.13	1957	2841	1.36	271.02	266	10	11.2		
0	238.23*	625	2720	1.36	528.36	522	12	34.4		
0	583.21*	112	725	1.84	1293.00	1290	9	88.6		
0	609.22*	157	756	1.59	1350.63	1346	10	67.5		
0	661.61	23238	1092	1.74	1466.76	1459	15	1.5		CS-137
0	1173.25	17535	778	2.03	2600.66	2590	21	1.7		CO-60
0	1332.53	16024	171	2.14	2953.64	2943	24	1.6		CO-60

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
10	51.50	8052	16492	3.27	114.46	102	38	2.24E+00	8.2	2.99E+00	
0	88.06	14556	5818	1.33	195.51	189	15	4.04E+00	2.8	3.55E+00	T
0	122.13	1957	2841	1.36	271.02	266	10	5.44E-01	11.2	3.39E+00	
0	238.23	625	2720	1.36	528.36	522	12	1.74E-01	34.4	2.41E+00	T
0	583.21	112	725	1.84	1293.00	1290	9	3.12E-02	88.6	1.17E+00	T
0	609.22	157	756	1.59	1350.63	1346	10	4.36E-02	67.5	1.13E+00	T

Flags: "T" = Tentatively associated

Combined Activity-MDA Report
Sample ID : SCAQC-7925-LC1

Acquisition date : 6-NOV-2007 12:47:28

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.178E+01	2.009E+00	9.941E-02	5.271E-03	319.694
CS-137	3.057E+01	2.245E+00	1.932E-01	1.391E-02	158.238
AM-241	7.766E+01	4.954E+00	3.354E-01	2.122E-02	231.551

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	4.121E-01		5.011E-01	9.329E-01	5.489E-02	0.442
RH-101	-1.271E-02		8.838E-02	1.472E-01	2.272E-02	-0.086
SB-125	-4.844E-02		3.173E-01	5.360E-01	4.431E-02	-0.090
EU-155	-7.869E-03		2.285E-01	3.889E-01	3.657E-02	-0.020
TL-208	1.332E-01	+	1.184E-01	1.862E-01	1.482E-02	0.715
PO-209	4.246E+00		2.985E+01	5.077E+01	9.355E+00	0.084
BI-211	-4.653E+00		3.804E+00	6.045E+00	4.354E-01	-0.770
BI-212	6.417E-01		8.705E-01	1.467E+00	1.064E-01	0.438
PB-212	7.044E-01	+	2.477E-01	2.864E-01	2.141E-02	2.459
BI-214	3.545E-01	+	2.407E-01	3.498E-01	2.665E-02	1.013
PB-214	2.159E-01		2.135E-01	3.538E-01	2.814E-02	0.610
RA-223	6.419E-02		5.058E-01	8.365E-01	7.406E-02	0.077
AC-228	1.078E+00		5.861E-01	1.017E+00	7.154E-02	1.060
PA-233	8.465E-03		1.883E-01	3.094E-01	2.525E-02	0.027
PA-234M	1.434E+01		1.701E+01	2.919E+01	1.993E+00	0.491
TH-234	3.181E-01		1.046E+00	1.499E+00	1.342E-01	0.212
U-235	-1.919E-01		4.721E-01	7.926E-01	5.883E-02	-0.242
NP-236	-2.968E-02		1.310E-01	2.105E-01	2.009E-02	-0.141
NP-237	2.913E+01		3.345E+00	1.536E+00	1.712E-01	18.963
NP-239	-3.550E-01		6.497E-01	1.067E+00	1.428E-01	-0.333
AM-243	-4.569E-02		9.263E-02	1.487E-01	2.860E-02	-0.307
CM-243	2.731E-01		2.088E-01	3.580E-01	3.858E-02	0.763
AM-246	-1.278E-01		5.248E-01	8.776E-01	1.108E-01	-0.146
CF-249	-1.996E-02		1.225E-01	2.080E-01	2.072E-02	-0.096

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Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 14:44:35

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7925LD1_GAMMA1_400MLSA_17022.CNF

---- Sample Information ----

Sample ID	: SCAQC-7925-LD1		
Sample Title	: DUP 7925-01		
Sample Quantity	: 3.72500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17022		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 6-NOV-2007 11:44:09.
Decay time	: 43 11:44:09.83	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.51

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/08/2007

Sample ID : SCAQC-7925-LD1 Acquisition date : 6-NOV-2007 11:44:09

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.90	337	528	0.92	149.21	145	13	23.8	7.67E-01	AM-243
										PB-214
										PB-212
2	77.23*	628	482	1.03	153.89	145	13	13.9		PB-214
										PB-212
0	87.17	231	577	1.20	173.77	171	7	36.8		NP-237
										PB-214
										PB-212
5	90.02	168	318	1.06	179.49	177	13	33.1	6.74E-01	
5	92.96*	294	625	1.38	185.38	177	13	32.9		
0	129.62	103	558	1.25	258.78	255	8	82.1		AC-228
0	185.92*	295	574	1.25	371.52	367	10	33.4		
0	209.19	196	450	1.08	418.11	414	9	41.5		AC-228
2	238.64*	1930	286	1.03	477.08	473	17	5.3	2.43E+00	PB-212
2	241.09	215	263	1.18	481.98	473	17	39.1		
2	242.13	219	247	1.19	484.07	473	17	31.7		PB-214
3	269.94	104	337	1.59	539.75	535	12	71.6	2.46E+00	RA-223
3	270.16	138	337	1.59	540.21	535	12	54.1		AC-228
0	295.10	612	333	1.27	590.13	584	12	14.4		PB-214
0	299.97	122	234	0.99	599.88	596	8	47.0		PB-212
0	327.91	97	230	1.08	655.82	652	9	59.5		
0	338.33*	458	312	1.17	676.69	670	13	18.6		AC-228
0	351.80*	934	302	1.35	703.67	698	14	10.4		PB-214
0	409.37	85	260	3.43	818.94	813	15	85.5		AC-228
0	462.70	156	135	1.33	925.71	920	11	32.9		AC-228
0	510.89*	290	245	1.87	1022.19	1013	19	30.5		TL-208
0	583.05*	618	164	1.46	1166.68	1160	12	11.6		TL-208
0	609.06*	696	184	1.48	1218.75	1211	15	11.5		BI-214
0	661.15	182	117	1.49	1323.04	1316	12	28.3		CS-137
0	727.08	141	113	1.44	1455.02	1450	12	34.6		BI-212
0	768.24	58	56	0.80	1537.43	1534	8	54.0		BI-214
0	786.31	31	68	0.88	1573.61	1567	9	104.0		BI-212
0	795.11	86	99	1.91	1591.22	1585	15	54.3		AC-228
0	860.57	127	75	2.11	1722.26	1716	17	36.1		TL-208
0	910.82*	512	58	1.82	1822.86	1814	18	11.4		AC-228
0	934.17	43	52	1.27	1869.61	1866	11	71.2		BI-214
1	964.18	76	39	1.87	1929.69	1922	23	39.8	1.62E+00	AC-228
1	968.45*	290	39	1.83	1938.24	1922	23	14.3		AC-228
0	1119.98	171	53	1.79	2241.57	2235	16	24.3		BI-214
0	1237.94	57	77	1.90	2477.69	2467	16	72.9		BI-214
0	1376.72	73	31	1.87	2755.48	2746	18	42.9		BI-214
0	1460.07*	442	26	2.11	2922.32	2914	19	11.1		K-40
0	1763.45*	136	3	1.89	3529.51	3521	14	18.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	90.02	168	318	1.06	179.49	177	13	1.56E-02	33.1	2.33E+00	
5	92.96	294	625	1.38	185.38	177	13	2.73E-02	32.9	2.43E+00	T
0	185.92	295	574	1.25	371.52	367	10	2.73E-02	33.4	3.03E+00	
2	241.09	215	263	1.18	481.98	473	17	1.99E-02	39.1	2.64E+00	
0	327.91	97	230	1.08	655.82	652	9	9.02E-03	59.5	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.940E+00	5.125E-01	2.405E-01	1.641E-02	16.385
CS-137	1.185E-01	3.584E-02	3.584E-02	3.851E-03	3.305
TL-208	3.692E-01	5.671E-02	3.100E-02	3.111E-03	11.909
BI-212	7.078E-01	2.545E-01	2.441E-01	2.348E-02	2.900
PB-212	1.127E+00	1.057E-01	5.180E-02	3.998E-03	21.749
BI-214	7.871E-01	1.209E-01	5.479E-02	5.580E-03	14.367
PB-214	8.382E-01	1.091E-01	5.743E-02	4.532E-03	14.596
RA-223	2.092E-01	1.510E-01	1.554E-01	1.430E-02	1.346
AC-228	1.372E+00	1.738E-01	1.131E-01	6.249E-03	12.131
NP-237	5.696E-01	2.255E-01	2.749E-01	3.975E-02	2.072
AM-243	1.987E-01	6.306E-02	6.056E-02	1.270E-02	3.281

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.013E-02		1.528E-02	2.689E-02	1.755E-03	0.377
RH-101	1.466E-02		1.909E-02	3.231E-02	5.012E-03	0.454
SB-125	-3.390E-02		4.645E-02	7.638E-02	6.264E-03	-0.444
EU-155	4.249E-02		6.697E-02	1.158E-01	1.150E-02	0.367
PO-209	-1.936E+00		3.051E+00	5.063E+00	9.061E-01	-0.382
BI-211	1.799E-01		5.007E-01	9.036E-01	6.583E-02	0.199
PA-233	1.127E-02		3.060E-02	5.423E-02	4.554E-03	0.208
PA-234M	-3.291E-01		1.989E+00	3.435E+00	1.975E-01	-0.096
TH-234	1.512E+00	+	5.277E-01	7.023E-01	8.193E-02	2.153
U-235	2.098E-02		1.181E-01	1.974E-01	1.378E-02	0.106
NP-236	7.999E-03		3.978E-02	6.809E-02	7.480E-03	0.117
NP-239	-6.813E-02		1.155E-01	1.836E-01	2.477E-02	-0.371
AM-241	5.808E-02		1.067E-01	1.889E-01	1.502E-02	0.307
CM-243	-1.856E-02		6.129E-02	1.030E-01	1.173E-02	-0.180
AM-246	3.571E-02		5.388E-02	1.006E-01	1.239E-02	0.355
CF-249	2.319E-02		2.182E-02	3.920E-02	3.782E-03	0.592

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 17:51:41

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792501_GAMMA3_400MLSAN_17027.CNF

---- Sample Information ----

Sample ID	: OH207-7925-01		
Sample Title	: SB-CZ-SS-2173-ST		
Sample Quantity	: 3.72500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17027		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 6-NOV-2007 14:51:24.
Decay time	: 43 14:51:24.73	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.99

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Wood Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.42*	119	610	1.32	140.88	137	9	82.9		TH-234
2	74.74*	776	872	1.59	165.98	159	18	17.8	3.08E+00	AM-243
										PB-214
										PB-212
2	77.20*	1077	647	1.22	171.42	159	18	10.8		PB-214
										PB-212
1	87.29	229	952	1.31	193.80	187	27	46.7	4.45E+00	NP-237
										PB-214
										PB-212
1	90.09	230	787	1.34	200.00	187	27	46.3		
1	92.80*	371	699	1.48	206.00	187	27	33.3		TH-234
0	185.95*	334	487	1.38	412.48	407	11	29.0		
0	208.91	188	369	1.42	463.38	459	9	39.6		AC-228
0	238.60*	1571	865	1.36	529.18	522	13	9.4		PB-212
0	241.78	213	421	1.67	536.24	534	8	37.4		PB-214
0	270.45	240	349	2.08	599.79	593	14	35.4		RA-223
										AC-228
0	277.33	90	287	1.35	615.02	610	11	75.7		TL-208
0	295.23	520	434	1.35	654.70	646	18	20.8		PB-214
0	300.52	129	158	1.70	666.43	663	8	37.9		PB-212
0	327.66	137	211	1.11	726.58	721	11	44.6		
0	338.43*	404	311	1.31	750.45	743	14	21.1		AC-228
0	352.11*	788	317	1.55	780.77	775	15	12.3		PB-214
0	462.98	127	129	1.65	1026.52	1020	11	39.0		AC-228
0	510.96*	152	227	1.91	1132.87	1126	16	52.4		TL-208
0	583.12*	610	133	1.79	1292.80	1284	14	11.6		TL-208
0	609.36*	607	132	1.77	1350.95	1343	16	11.9		BI-214
0	661.54	145	91	1.44	1466.60	1461	11	30.4		CS-137
0	727.33	152	104	1.73	1612.41	1606	15	34.0		BI-212
0	794.85	92	54	1.67	1762.05	1757	13	40.6		AC-228
0	911.30*	408	87	1.99	2020.14	2010	18	14.7		AC-228
1	964.69	62	57	2.21	2138.45	2128	29	57.1	1.78E+00	AC-228
1	969.20	259	33	2.22	2148.45	2128	29	16.7		AC-228
0	1120.60*	147	56	1.80	2483.98	2474	19	30.0		BI-214
0	1238.38	45	46	1.38	2744.99	2739	15	71.6		BI-214
0	1378.50	45	37	0.73	3055.50	3042	25	78.3		BI-214
0	1460.90*	337	16	2.36	3238.10	3230	19	12.9		K-40
0	1592.15*	34	36	4.00	3528.95	3518	17	92.3		
0	1764.68*	74	7	2.24	3911.24	3904	13	28.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	90.09	230	787	1.34	200.00	187	27	2.13E-02	46.3	3.55E+00	
0	185.95	334	487	1.38	412.48	407	11	3.10E-02	29.0	2.81E+00	
0	327.66	137	211	1.11	726.58	721	11	1.27E-02	44.6	1.90E+00	
0	1592.15	34	36	4.00	3528.95	3518	17	3.11E-03	92.3	5.25E-01	

Flags: "T" = Tentatively associated

Combined Activity-MDA Report
Sample ID : OH207-7925-01

Acquisition date : 6-NOV-2007 14:51:24

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.808E+00	5.415E-01	3.416E-01	2.010E-02	11.148
CS-137	1.094E-01	3.413E-02	4.428E-02	3.188E-03	2.470
TL-208	4.141E-01	5.810E-02	3.273E-02	2.605E-03	12.655
BI-212	8.904E-01	3.095E-01	2.979E-01	2.162E-02	2.989
PB-212	1.014E+00	1.221E-01	6.915E-02	5.169E-03	14.670
BI-214	7.847E-01	1.106E-01	7.008E-02	5.340E-03	11.197
PB-214	7.861E-01	1.150E-01	7.399E-02	5.886E-03	10.624
RA-223	5.352E-01	1.954E-01	1.838E-01	1.627E-02	2.912
AC-228	1.323E+00	2.155E-01	1.339E-01	9.414E-03	9.878
TH-234	1.300E+00	4.476E-01	4.457E-01	3.991E-02	2.916
NP-237	3.496E-01	1.677E-01	1.937E-01	2.159E-02	1.805
AM-243	2.189E-01	5.738E-02	3.642E-02	7.004E-03	6.011

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.814E-03		2.173E-02	3.329E-02	1.765E-03	0.145
RH-101	1.854E-02		2.114E-02	3.634E-02	5.609E-03	0.510
SB-125	-4.939E-02		5.661E-02	9.420E-02	7.787E-03	-0.524
EU-155	9.829E-02		6.347E-02	1.125E-01	1.058E-02	0.874
PO-209	1.043E+00		3.371E+00	6.262E+00	1.154E+00	0.167
BI-211	-3.197E-01		6.525E-01	1.075E+00	7.739E-02	-0.297
PA-233	4.907E-02		3.774E-02	6.701E-02	5.469E-03	0.732
PA-234M	3.721E+00		2.609E+00	5.045E+00	3.445E-01	0.738
U-235	1.355E-01		1.300E-01	2.276E-01	1.689E-02	0.596
NP-236	2.951E-02		3.904E-02	5.732E-02	5.470E-03	0.515
NP-239	-5.695E-02		1.425E-01	2.369E-01	3.169E-02	-0.240
AM-241	2.102E-02		4.419E-02	6.529E-02	4.131E-03	0.322
CM-243	3.959E-02		5.686E-02	9.952E-02	1.072E-02	0.398
AM-246	2.022E-02		7.079E-02	1.293E-01	1.632E-02	0.156
CF-249	6.585E-03		2.425E-02	4.285E-02	4.268E-03	0.154

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 14:45:40

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792502_GAMMA2_400MLSAN_17023.CNF

---- Sample Information ----

Sample ID	: OH207-7925-02		
Sample Title	: SB-CZ-SS-2174-ST		
Sample Quantity	: 3.94000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17023		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 6-NOV-2007 11:45:23.
Decay time	: 43 11:45:23.86	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.68

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.73	625	792	1.19	149.04	144	15	17.1	1.01E+00	AM-243
										PB-214
										PB-212
2	77.09	934	669	1.05	153.75	144	15	11.1		PB-214
										PB-212
4	87.19*	410	878	1.48	173.85	164	27	28.0	1.35E+00	NP-237
										PB-214
										PB-212
4	89.85*	253	657	1.11	179.15	164	27	36.5		
4	92.86*	490	809	1.49	185.14	164	27	23.9		
0	129.28	162	728	0.78	257.65	254	8	60.0		AC-228
0	186.06*	433	671	1.18	370.74	366	9	24.1		
0	209.19	253	587	1.16	416.80	413	9	36.8		AC-228
4	238.76*	2651	391	1.15	475.71	468	25	4.6	1.78E+00	PB-212
4	241.80	640	517	1.79	481.75	468	25	20.6		PB-214
0	270.65*	270	440	1.51	539.23	534	11	32.7		RA-223
										AC-228
0	277.69	140	370	1.41	553.26	549	9	52.4		TL-208
2	295.44*	662	272	1.20	588.61	584	30	11.3	1.36E+00	PB-214
2	300.38	183	327	1.55	598.46	584	30	39.0		PB-212
0	328.10	173	351	0.82	653.69	649	10	43.4		
0	338.58*	549	411	1.31	674.58	669	13	17.5		AC-228
0	352.11*	1181	314	1.24	701.54	696	11	8.3		PB-214
0	463.15	175	173	1.14	922.84	918	10	31.9		AC-228
0	511.07*	294	260	1.60	1018.36	1010	16	29.0		TL-208
0	583.40*	846	146	1.35	1162.58	1157	12	9.0		TL-208
0	609.47*	930	181	1.51	1214.56	1206	17	9.4		BI-214
0	661.84	212	145	1.37	1319.02	1311	13	27.0		CS-137
0	727.43	214	167	1.83	1449.86	1443	17	31.1		BI-212
0	771.67	65	190	5.04	1538.11	1524	19	105.0		
0	786.11	76	114	1.20	1566.92	1560	12	60.9		BI-212
0	861.03*	110	75	1.22	1716.43	1709	14	39.2		TL-208
0	911.09*	632	126	1.87	1816.34	1809	17	11.4		AC-228
0	933.90	44	75	1.15	1861.87	1854	12	84.0		BI-214
1	964.68	133	58	1.93	1923.33	1916	28	28.9	9.68E-01	AC-228
1	968.91*	368	48	1.84	1931.77	1916	28	12.9		AC-228
0	1120.11*	233	62	1.72	2233.70	2226	18	20.8		BI-214
0	1237.77	98	68	1.59	2468.75	2460	16	42.7		BI-214
0	1377.23	56	53	1.57	2747.49	2740	14	60.7		BI-214
0	1459.67*	540	57	1.99	2912.29	2902	19	11.1		K-40
0	1586.86*	72	24	2.07	3166.67	3161	11	35.9		AC-228
0	1591.58*	23	22	1.39	3176.10	3171	10	89.6		
0	1729.28	57	20	2.46	3451.61	3444	20	46.7		BI-214
0	1762.69*	135	22	1.81	3518.48	3510	18	24.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.85	253	657	1.11	179.15	164	27	2.34E-02	36.5	2.60E+00	
4	92.86	490	809	1.49	185.14	164	27	4.54E-02	23.9	2.71E+00	T
0	186.06	433	671	1.18	370.74	366	9	4.01E-02	24.1	3.21E+00	
0	328.10	173	351	0.82	653.69	649	10	1.60E-02	43.4	2.20E+00	
0	771.67	65	190	5.04	1538.11	1524	19	6.00E-03	****	1.08E+00	
0	1591.58	23	22	1.39	3176.10	3171	10	2.14E-03	89.6	6.33E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.768E+00	6.115E-01	3.025E-01	1.947E-02	15.761
CS-137	1.307E-01	3.828E-02	3.422E-02	3.892E-03	3.821
TL-208	4.718E-01	6.506E-02	2.886E-02	3.006E-03	16.345
BI-212	1.019E+00	3.359E-01	2.392E-01	2.615E-02	4.259
PB-212	1.388E+00	1.240E-01	5.035E-02	3.847E-03	27.569
BI-214	9.848E-01	1.401E-01	5.847E-02	6.226E-03	16.843
PB-214	9.617E-01	1.087E-01	6.331E-02	4.854E-03	15.191
RA-223	4.875E-01	1.654E-01	1.676E-01	1.491E-02	2.909
AC-228	1.636E+00	2.347E-01	8.413E-02	5.352E-03	19.449
NP-237	8.471E-01	2.603E-01	2.391E-01	3.004E-02	3.544
AM-243	2.988E-01	7.840E-02	5.937E-02	1.183E-02	5.033

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.867E-03		1.592E-02	2.916E-02	1.611E-03	0.064
RH-101	-1.377E-02		2.018E-02	3.170E-02	4.950E-03	-0.434
SB-125	2.843E-02		4.987E-02	8.679E-02	7.115E-03	0.328
EU-155	1.142E-01		7.042E-02	1.216E-01	1.138E-02	0.940
PO-209	1.858E+00		3.440E+00	6.221E+00	1.193E+00	0.299
BI-211	-4.106E-01		5.613E-01	9.242E-01	9.047E-02	-0.444
PA-233	-1.667E-02		3.302E-02	5.547E-02	4.467E-03	-0.301
PA-234M	1.192E+00		1.992E+00	3.654E+00	2.853E-01	0.326
TH-234	2.133E+00	+	5.520E-01	7.044E-01	7.045E-02	3.028
U-235	1.280E-01		1.277E-01	2.140E-01	1.562E-02	0.598
NP-236	3.030E-02		4.231E-02	6.888E-02	6.847E-03	0.440
NP-239	3.518E-02		1.231E-01	2.147E-01	2.898E-02	0.164
AM-241	4.885E-02		1.023E-01	1.769E-01	1.160E-02	0.276
CM-243	5.361E-03		6.375E-02	1.067E-01	1.154E-02	0.050
AM-246	3.362E-02		5.993E-02	1.088E-01	1.392E-02	0.309
CF-249	9.097E-03		2.210E-02	3.818E-02	3.658E-03	0.238

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 17:49:29

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792503_GAMMA1_400MLSAN_17025.CNF

---- Sample Information ----

Sample ID : OH207-7925-03
Sample Title : SB-CZ-SS-2175-ST
Sample Quantity : 4.87700E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17025

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 6-NOV-2007 14:49:09.
Decay time : 43 14:49:09.71 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:03.09

---- Detector Parameters ----

Energy cal. time : 23-MAR-2006 15:15:18 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA1 Counting geometry: 400 ml sand
Effic. cal. time : 23-MAR-2006 15:18:11 Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: [signature] Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.89	502	664	1.02	149.19	143	16	18.6	1.43E+00	AM-243
										PB-214
										PB-212
1	77.20*	803	549	0.87	153.82	143	16	11.4		PB-214
										PB-212
0	83.89*	105	704	1.00	167.20	165	7	86.5		
5	87.34	478	518	1.41	174.12	171	24	17.3	3.53E+00	NP-237
										PB-214
										PB-212
5	90.03	317	674	1.28	179.51	171	24	31.0		
5	92.93*	488	739	1.55	185.31	171	24	23.2		
0	128.95	115	680	0.66	257.45	254	7	77.7		AC-228
0	185.76*	505	932	1.21	371.19	364	13	26.8		
0	209.30	235	705	1.02	418.34	414	10	44.2		AC-228
1	238.65*	2723	407	1.09	477.11	470	18	4.6	2.54E+00	PB-212
1	240.98	245	422	1.28	481.77	470	18	43.5		
1	242.01	374	364	1.24	483.82	470	18	21.8		PB-214
0	270.19	251	432	1.21	540.25	536	10	33.5		RA-223
										AC-228
0	277.19	95	305	1.30	554.27	551	7	64.3		TL-208
0	295.04	847	310	1.22	590.02	584	10	10.4		PB-214
0	300.26	147	414	0.71	600.47	596	11	56.3		PB-212
0	327.99	169	277	1.38	655.99	652	9	38.5		
0	338.27*	683	412	1.18	676.57	670	14	14.8		AC-228
0	351.88*	1386	335	1.19	703.83	698	12	7.6		PB-214
0	463.04	147	220	1.59	926.38	922	12	44.4		AC-228
0	510.67*	358	256	1.71	1021.75	1015	16	24.2		TL-208
0	583.01*	872	247	1.42	1166.59	1161	14	10.3		TL-208
0	609.11*	1022	256	1.38	1218.85	1212	15	9.3		BI-214
0	727.08	233	167	1.41	1455.03	1448	15	27.6		BI-212
0	768.18	68	162	1.55	1537.32	1531	11	76.1		BI-214
0	772.48	44	95	0.87	1545.91	1542	10	90.0		
0	785.47	69	83	0.96	1571.92	1567	9	53.7		BI-212
0	794.59	136	66	1.22	1590.18	1585	11	28.8		AC-228
0	838.98	82	251	5.74	1679.05	1662	27	111.8		
0	860.10	104	89	1.74	1721.34	1716	12	40.8		TL-208
0	910.80*	590	139	1.58	1822.83	1817	15	12.0		AC-228
0	933.88	58	103	1.42	1869.02	1862	15	81.7		BI-214
4	964.54	104	77	1.84	1930.40	1926	20	34.2	1.94E+00	AC-228
4	968.65*	386	59	1.75	1938.64	1926	20	12.9		AC-228
0	1120.25	208	95	1.53	2242.11	2235	15	23.5		BI-214
0	1154.70	48	43	1.49	2311.08	2306	11	61.0		BI-214
0	1238.11	128	63	1.39	2478.03	2470	16	33.1		BI-214
0	1377.28	78	36	1.83	2756.60	2749	13	38.9		BI-214
0	1407.12	41	22	1.60	2816.32	2810	11	54.2		BI-214
0	1460.13*	651	52	2.04	2922.44	2913	19	9.6		K-40
0	1591.90	71	122	4.81	3186.16	3169	42	105.1		
0	1630.63	43	21	1.70	3263.68	3255	14	55.1		
0	1729.67	52	24	1.57	3461.89	3453	17	52.0		BI-214
0	1763.63*	187	10	2.53	3529.86	3523	14	16.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	83.89	105	704	1.00	167.20	165	7	9.75E-03	86.5	2.09E+00	
5	90.03	317	674	1.28	179.51	171	24	2.94E-02	31.0	2.33E+00	
5	92.93	488	739	1.55	185.31	171	24	4.52E-02	23.2	2.43E+00	T
0	185.76	505	932	1.21	371.19	364	13	4.68E-02	26.8	3.03E+00	
1	240.98	245	422	1.28	481.77	470	18	2.27E-02	43.5	2.64E+00	
0	327.99	169	277	1.38	655.99	652	9	1.57E-02	38.5	2.11E+00	
0	772.48	44	95	0.87	1545.91	1542	10	4.09E-03	90.0	1.09E+00	
0	838.98	82	251	5.74	1679.05	1662	27	7.61E-03	****	1.03E+00	
0	1591.90	71	122	4.81	3186.16	3169	42	6.61E-03	****	6.63E-01	
0	1630.63	43	21	1.70	3263.68	3255	14	3.94E-03	55.1	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.431E+00	5.206E-01	2.208E-01	1.507E-02	20.067
TL-208	3.974E-01	5.714E-02	2.743E-02	2.753E-03	14.488
BI-212	8.930E-01	2.611E-01	1.906E-01	1.834E-02	4.685
PB-212	1.214E+00	1.090E-01	4.406E-02	3.401E-03	27.549
BI-214	8.829E-01	1.218E-01	5.082E-02	5.176E-03	17.374
PB-214	9.505E-01	1.040E-01	5.259E-02	4.150E-03	18.074
RA-223	3.841E-01	1.334E-01	1.330E-01	1.224E-02	2.887
AC-228	1.206E+00	1.595E-01	9.641E-02	5.328E-03	12.508
NP-237	9.018E-01	2.033E-01	1.866E-01	2.699E-02	4.831
AM-243	2.264E-01	6.352E-02	5.355E-02	1.123E-02	4.228

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.502E-03		1.338E-02	2.396E-02	1.462E-03	0.188
RH-101	1.652E-03		1.634E-02	2.706E-02	4.196E-03	0.061
SB-125	1.189E-02		4.010E-02	6.961E-02	5.708E-03	0.171
CS-137	-6.428E-03		1.700E-02	2.932E-02	3.151E-03	-0.219
EU-155	1.305E-01		6.108E-02	1.070E-01	1.062E-02	1.219
PO-209	-2.908E+00		2.785E+00	4.394E+00	7.863E-01	-0.662
BI-211	3.349E-01		4.949E-01	7.959E-01	5.799E-02	0.421
PA-233	-6.086E-03		2.780E-02	4.773E-02	4.008E-03	-0.127
PA-234M	9.965E-01		1.638E+00	2.988E+00	1.717E-01	0.334
TH-234	1.915E+00	+	4.964E-01	6.096E-01	7.113E-02	3.141
U-235	4.057E-02		1.056E-01	1.769E-01	1.235E-02	0.229
NP-236	1.154E-02		3.707E-02	5.701E-02	6.263E-03	0.202
NP-239	5.236E-02		1.129E-01	1.862E-01	2.512E-02	0.281
AM-241	-1.559E-02		9.597E-02	1.655E-01	1.315E-02	-0.094
CM-243	2.762E-03		5.490E-02	9.298E-02	1.060E-02	0.030
AM-246	3.060E-02		4.890E-02	8.918E-02	1.098E-02	0.343
CF-249	4.472E-03		1.756E-02	3.047E-02	2.940E-03	0.147

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 17:50:37

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792504_GAMMA2_400MLSAN_17026.CNF

---- Sample Information ----

Sample ID	: OH207-7925-04
Sample Title	: SB-CZ-SS-2176-ST
Sample Quantity	: 4.71300E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17026

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 6-NOV-2007 14:50:07.
Decay time	: 43 14:50:07.96	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.73

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/08/2007

Sample ID : OH207-7925-04 Acquisition date : 6-NOV-2007 14:50:07

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.81	539	876	1.14	149.20	143	15	20.4	2.36E+00	AM-243
										PB-214
										PB-212
2	77.05	882	717	0.98	153.66	143	15	11.9		PB-214
										PB-212
4	87.28*	366	615	1.08	174.02	164	29	24.0	8.36E-01	NP-237
										PB-214
										PB-212
4	90.00*	304	687	1.17	179.44	164	29	31.2		
4	92.92*	443	838	1.46	185.26	164	29	26.8		
0	129.19	122	718	1.03	257.49	254	8	78.2		AC-228
0	185.87*	474	1032	1.15	370.35	364	13	29.7		
0	209.53	288	638	1.10	417.47	413	10	35.0		AC-228
2	238.77*	2263	444	1.06	475.73	471	28	5.1	1.48E+00	PB-212
2	241.15	298	489	1.37	480.46	471	28	40.1		
2	242.19	379	348	1.07	482.54	471	28	20.9		PB-214
0	270.29*	243	498	1.34	538.52	533	11	38.0		RA-223
										AC-228
0	277.91	96	505	1.04	553.70	548	11	92.7		TL-208
0	295.36*	1005	467	1.17	588.47	582	12	10.7		PB-214
0	299.93	153	469	1.21	597.56	594	11	57.1		PB-212
0	328.36	191	367	1.22	654.21	649	12	42.5		
0	338.63*	484	414	1.31	674.67	670	12	19.2		AC-228
0	352.14*	1472	433	1.23	701.58	695	12	7.7		PB-214
0	462.92	177	254	1.63	922.38	917	13	39.8		AC-228
0	511.03*	326	194	1.49	1018.28	1011	15	23.6		TL-208
0	583.35*	745	198	1.34	1162.48	1156	13	10.8		TL-208
0	609.42*	1175	163	1.47	1214.47	1206	16	7.7		BI-214
0	661.13	96	144	1.57	1317.60	1312	11	52.7		CS-137
0	727.51	181	95	1.08	1450.01	1444	12	26.3		BI-212
0	768.18	76	106	1.31	1531.15	1527	10	55.4		BI-214
0	795.16	110	100	2.01	1584.98	1578	18	46.6		AC-228
0	860.94*	84	121	1.21	1716.24	1709	14	60.6		TL-208
0	911.19*	538	62	1.46	1816.55	1811	12	10.6		AC-228
0	933.78	62	68	1.83	1861.64	1855	13	60.8		BI-214
2	964.57	110	49	2.12	1923.11	1916	21	34.2	9.86E-01	AC-228
2	968.81*	326	37	1.76	1931.57	1916	21	13.5		AC-228
0	1120.07*	270	83	1.99	2233.62	2226	18	20.3		BI-214
0	1237.74	84	73	1.47	2468.69	2462	13	47.8		BI-214
0	1377.22	92	30	2.03	2747.46	2741	16	34.5		BI-214
0	1408.02	76	18	4.24	2809.04	2801	21	37.8		BI-214
0	1459.80*	669	25	2.10	2912.55	2906	14	8.5		K-40
0	1590.27*	69	42	5.03	3173.49	3164	22	55.3		AC-228
0	1729.03	61	23	2.16	3451.10	3442	21	49.0		BI-214
0	1762.61*	193	15	1.90	3518.30	3510	15	17.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.00	304	687	1.17	179.44	164	29	2.81E-02	31.2	2.61E+00	
4	92.92	443	838	1.46	185.26	164	29	4.11E-02	26.8	2.71E+00	T
0	185.87	474	1032	1.15	370.35	364	13	4.39E-02	29.7	3.21E+00	
2	241.15	298	489	1.37	480.46	471	28	2.76E-02	40.1	2.78E+00	
0	328.36	191	367	1.22	654.21	649	12	1.77E-02	42.5	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.940E+00	5.267E-01	2.048E-01	1.318E-02	24.123
CS-137	4.943E-02	2.664E-02	3.360E-02	3.822E-03	1.471
TL-208	3.469E-01	5.198E-02	2.609E-02	2.717E-03	13.297
BI-212	7.200E-01	2.051E-01	2.094E-01	2.289E-02	3.439
PB-212	9.907E-01	9.128E-02	4.446E-02	3.398E-03	22.282
BI-214	1.040E+00	1.365E-01	4.665E-02	4.968E-03	22.296
PB-214	1.002E+00	1.092E-01	5.512E-02	4.227E-03	18.183
RA-223	3.663E-01	1.431E-01	1.424E-01	1.267E-02	2.571
AC-228	1.166E+00	1.599E-01	1.000E-01	8.693E-03	11.652
NP-237	6.330E-01	1.715E-01	2.057E-01	2.585E-02	3.077
AM-243	2.156E-01	6.152E-02	5.326E-02	1.062E-02	4.048

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.784E-03		1.550E-02	2.576E-02	1.499E-03	0.341
RH-101	-1.404E-02		1.691E-02	2.636E-02	4.116E-03	-0.532
SB-125	1.187E-02		4.466E-02	7.637E-02	6.261E-03	0.155
EU-155	5.465E-02		6.025E-02	1.026E-01	9.610E-03	0.532
PO-209	3.982E-01		3.023E+00	5.306E+00	1.017E+00	0.075
BI-211	-1.817E-01		4.750E-01	8.024E-01	7.855E-02	-0.226
PA-233	9.178E-03		2.834E-02	4.921E-02	3.964E-03	0.187
PA-234M	2.273E-01		1.982E+00	3.454E+00	2.696E-01	0.066
TH-234	1.613E+00	+	4.611E-01	5.764E-01	5.765E-02	2.799
U-235	1.649E-01		1.083E-01	1.833E-01	1.338E-02	0.900
NP-236	4.697E-02		3.879E-02	6.013E-02	5.977E-03	0.781
NP-239	-2.240E-02		1.028E-01	1.768E-01	2.386E-02	-0.127
AM-241	-5.287E-02		8.784E-02	1.472E-01	9.656E-03	-0.359
CM-243	4.715E-02		5.383E-02	9.172E-02	9.916E-03	0.514
AM-246	-1.670E-02		5.417E-02	9.083E-02	1.162E-02	-0.184
CF-249	4.968E-03		1.854E-02	3.185E-02	3.051E-03	0.156

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 21:11:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792505_GAMMA1_400MLSAN_17028.CNF

---- Sample Information ----

Sample ID : OH207-7925-05
Sample Title : SB-CZ-SS-2177-ST
Sample Quantity : 3.93400E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17028

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 6-NOV-2007 18:10:52.
Decay time : 43 18:10:52.20 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:02.93

---- Detector Parameters ----

Energy cal. time : 23-MAR-2006 15:15:18 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA1 Counting geometry: 400 ml sand
Effic. cal. time : 23-MAR-2006 15:18:11 Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: [signature] Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.96	620	607	1.02	149.33	144	15	15.0	2.07E+00	AM-243 PB-214 PB-212
2	77.23*	910	617	0.98	153.88	144	15	11.0		PB-214 PB-212
4	87.35	406	634	1.23	174.13	163	29	22.8	1.85E+00	NP-237 PB-214 PB-212
4	90.09	353	590	1.13	179.63	163	29	25.6		
4	92.92*	461	626	1.41	185.30	163	29	22.9		
4	94.32	158	599	1.41	188.10	163	29	65.4		
0	129.04	110	648	0.58	257.62	255	7	79.0		AC-228
0	186.19*	484	712	1.27	372.06	368	11	23.6		
0	209.19	272	574	1.09	418.12	414	9	34.0		AC-228
3	238.62*	2701	333	1.06	477.05	472	18	4.4	2.02E+00	PB-212
3	240.89	253	347	1.27	481.59	472	18	40.3		
3	241.85	377	295	1.21	483.52	472	18	20.8		PB-214
0	270.32	258	405	1.45	540.53	535	11	32.6		RA-223 AC-228
0	277.82	94	403	0.94	555.53	550	10	82.7		TL-208
0	295.12	777	375	1.13	590.18	584	12	12.3		PB-214
0	300.01	186	300	1.27	599.98	596	9	36.6		PB-212
0	328.17	142	372	1.27	656.35	650	12	56.9		
0	338.27*	565	344	1.20	676.57	672	11	15.3		AC-228
0	351.82*	1217	367	1.14	703.71	698	13	8.7		PB-214
0	462.73	183	193	1.43	925.77	921	11	32.9		AC-228
0	510.66*	318	216	1.50	1021.73	1015	15	25.1		TL-208
0	582.99*	839	228	1.42	1166.55	1161	13	10.2		TL-208
0	609.08*	946	158	1.48	1218.78	1213	12	8.5		BI-214
0	727.14	227	140	1.19	1455.14	1449	13	25.2		BI-212
0	785.54	54	48	1.78	1572.06	1568	8	51.7		BI-212
0	794.65	121	96	1.53	1590.30	1584	12	37.2		AC-228
0	860.23	141	98	1.61	1721.59	1714	14	34.2		TL-208
0	910.90*	589	94	1.85	1823.03	1816	14	10.9		AC-228
0	933.70	34	90	1.49	1868.68	1864	10	109.9		BI-214
2	964.33	128	71	1.99	1929.98	1925	19	29.5	7.43E-01	AC-228
2	968.60*	377	58	1.64	1938.54	1925	19	13.0		AC-228
0	1120.06	240	79	1.79	2241.73	2232	20	22.3		BI-214
0	1238.18	101	48	1.36	2478.17	2470	16	37.4		BI-214
0	1377.45	77	60	3.24	2756.94	2745	22	56.1		BI-214
0	1460.15*	746	78	1.91	2922.47	2912	21	9.5		K-40
0	1586.87	65	27	2.35	3176.10	3167	15	42.6		AC-228
0	1620.44	37	17	1.48	3243.29	3239	12	54.0		BI-212
0	1728.48	40	11	2.08	3459.52	3452	15	48.3		BI-214
0	1763.76*	130	13	1.77	3530.12	3523	13	21.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.09	353	590	1.13	179.63	163	29	3.27E-02	25.6	2.33E+00	
4	92.92	461	626	1.41	185.30	163	29	4.27E-02	22.9	2.43E+00	T
4	94.32	158	599	1.41	188.10	163	29	1.46E-02	65.4	2.48E+00	
0	186.19	484	712	1.27	372.06	368	11	4.48E-02	23.6	3.03E+00	
3	240.89	253	347	1.27	481.59	472	18	2.34E-02	40.3	2.64E+00	
0	328.17	142	372	1.27	656.35	650	12	1.31E-02	56.9	2.10E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.287E+00	7.358E-01	2.349E-01	1.603E-02	26.769
TL-208	4.741E-01	6.795E-02	3.120E-02	3.131E-03	15.197
BI-212	1.082E+00	2.917E-01	2.258E-01	2.172E-02	4.790
PB-212	1.493E+00	1.328E-01	5.103E-02	3.938E-03	29.254
BI-214	1.013E+00	1.343E-01	6.042E-02	6.154E-03	16.769
PB-214	1.034E+00	1.215E-01	6.088E-02	4.804E-03	16.990
RA-223	4.900E-01	1.662E-01	1.548E-01	1.425E-02	3.165
AC-228	1.493E+00	1.827E-01	1.098E-01	6.069E-03	13.595
NP-237	9.482E-01	2.562E-01	2.551E-01	3.690E-02	3.717
AM-243	3.461E-01	8.917E-02	6.452E-02	1.353E-02	5.364

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-5.932E-03		1.843E-02	2.837E-02	1.851E-03	-0.209
RH-101	7.298E-03		1.922E-02	3.214E-02	4.986E-03	0.227
SB-125	1.500E-02		5.148E-02	8.917E-02	7.312E-03	0.168
CS-137	-1.824E-02		1.885E-02	3.129E-02	3.362E-03	-0.583
EU-155	1.173E-01		7.276E-02	1.272E-01	1.263E-02	0.922
PO-209	-6.270E-01		3.606E+00	6.221E+00	1.113E+00	-0.101
BI-211	1.281E-01		5.271E-01	9.366E-01	6.824E-02	0.137
PA-233	1.132E-02		3.283E-02	5.775E-02	4.849E-03	0.196
PA-234M	3.290E+00		2.133E+00	4.101E+00	2.358E-01	0.802
TH-234	2.243E+00	+	5.755E-01	7.553E-01	8.812E-02	2.969
U-235	9.502E-02		1.278E-01	2.162E-01	1.510E-02	0.439
NP-236	5.312E-02		4.472E-02	7.071E-02	7.768E-03	0.751
NP-239	5.457E-02		1.261E-01	2.087E-01	2.816E-02	0.261
AM-241	5.088E-03		1.187E-01	2.058E-01	1.636E-02	0.025
CM-243	3.924E-02		6.485E-02	1.115E-01	1.271E-02	0.352
AM-246	2.679E-02		6.395E-02	1.143E-01	1.407E-02	0.234
CF-249	3.705E-03		2.087E-02	3.617E-02	3.489E-03	0.102

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 21:12:12

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792506_GAMMA2_400MLSAN_17029.CNF

---- Sample Information ----

Sample ID	: OH207-7925-06
Sample Title	: SB-CZ-SS-2178-ST
Sample Quantity	: 4.58400E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17029

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 6-NOV-2007 18:11:54.
Decay time	: 43 18:11:54.31	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.94

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/08/2007
11/08/2007 Faxed

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.83	721	863	1.08	149.24	145	13	14.9	1.45E+00	AM-243
										PB-214
										PB-212
3	77.07	982	827	0.94	153.70	145	13	11.4		PB-214
										PB-212
0	87.37*	307	1339	1.16	174.22	169	9	44.7		NP-237
										PB-214
										PB-212
4	89.97*	220	800	0.93	179.38	177	12	42.4	2.21E+00	
4	92.90*	376	1037	1.32	185.22	177	12	32.2		
0	128.62	188	929	0.66	256.35	252	8	58.1		AC-228
0	186.02*	417	828	1.34	370.66	366	9	27.2		
0	209.37	358	693	1.34	417.16	413	9	28.6		AC-228
2	238.75*	3083	456	1.14	475.69	468	24	4.3	2.35E+00	PB-212
2	241.06	266	413	1.26	480.28	468	24	37.1		
2	242.04	452	407	1.20	482.23	468	24	19.2		PB-214
0	270.44*	239	538	1.30	538.81	534	10	38.7		RA-223
										AC-228
3	277.23	93	489	1.68	552.34	547	10	93.1	3.58E+00	TL-208
3	277.70	63	349	1.25	553.27	547	10	104.0		
0	295.40*	836	534	1.18	588.54	583	11	12.8		PB-214
0	300.57	138	348	0.82	598.85	595	8	50.2		PB-212
0	328.36	192	399	1.54	654.20	649	10	41.6		
0	338.48*	578	413	1.20	674.37	670	10	15.7		AC-228
0	352.18*	1514	378	1.26	701.68	697	12	7.3		PB-214
0	410.02	104	230	1.34	816.93	813	9	56.4		AC-228
0	463.67	154	275	1.21	923.86	917	12	46.3		AC-228
0	511.16*	377	287	1.79	1018.54	1011	17	24.4		TL-208
0	583.42*	1010	262	1.46	1162.61	1155	15	9.5		TL-208
0	609.46*	1129	174	1.50	1214.54	1209	13	7.8		BI-214
0	662.23	115	275	1.79	1319.79	1313	17	68.2		CS-137
0	727.09	247	169	1.71	1449.17	1442	15	26.3		BI-212
0	768.09	65	155	1.37	1530.98	1527	10	75.3		BI-214
0	795.12	115	94	1.65	1584.90	1580	11	38.5		AC-228
0	860.50*	116	81	1.63	1715.38	1710	11	35.8		TL-208
0	911.01*	674	96	1.68	1816.18	1808	15	10.1		AC-228
0	934.95	39	118	1.57	1863.98	1857	15	124.6		BI-214
2	964.67	122	75	1.87	1923.30	1914	24	33.1	1.85E+00	AC-228
2	968.76*	440	63	1.66	1931.48	1914	24	11.8		AC-228
0	1000.90*	72	58	4.37	1995.65	1988	14	52.3		PA-234M
0	1119.90*	254	97	1.85	2233.28	2226	15	21.2		BI-214
0	1155.62	33	67	1.50	2304.64	2298	10	98.7		BI-214
0	1237.37	99	77	1.94	2467.96	2460	14	42.7		BI-214
0	1377.35	79	43	2.49	2747.71	2742	15	43.3		BI-214
0	1459.75*	973	58	2.06	2912.45	2902	21	7.6		K-40
0	1588.74*	104	44	5.48	3170.42	3160	22	39.5		AC-228
0	1619.30	36	10	2.24	3231.55	3227	10	47.2		BI-212
0	1728.32	48	24	1.65	3449.69	3442	17	56.4		BI-214
0	1762.64*	199	0	2.31	3518.37	3510	20	14.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.97	220	800	0.93	179.38	177	12	2.04E-02	42.4	2.61E+00	
4	92.90	376	1037	1.32	185.22	177	12	3.48E-02	32.2	2.71E+00	T
0	186.02	417	828	1.34	370.66	366	9	3.86E-02	27.2	3.21E+00	
2	241.06	266	413	1.26	480.28	468	24	2.46E-02	37.1	2.78E+00	
3	277.70	63	349	1.25	553.27	547	10	5.88E-03	****	2.51E+00	
0	328.36	192	399	1.54	654.20	649	10	1.78E-02	41.6	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	7.386E+00	7.349E-01	2.459E-01	1.583E-02	30.032
CS-137	6.101E-02	4.216E-02	3.099E-02	3.525E-03	1.969
TL-208	4.838E-01	6.803E-02	2.990E-02	3.113E-03	16.182
BI-212	1.011E+00	2.876E-01	2.253E-01	2.463E-02	4.488
PB-212	1.388E+00	1.217E-01	4.803E-02	3.670E-03	28.894
BI-214	1.028E+00	1.354E-01	5.790E-02	6.165E-03	17.748
PB-214	1.059E+00	1.124E-01	6.021E-02	4.617E-03	17.593
RA-223	3.706E-01	1.473E-01	1.479E-01	1.316E-02	2.505
AC-228	1.500E+00	1.996E-01	1.105E-01	9.605E-03	13.572
PA-234M	5.257E+00	2.782E+00	3.057E+00	2.387E-01	1.720
NP-237	5.462E-01	2.538E-01	2.618E-01	3.290E-02	2.086
AM-243	2.964E-01	7.375E-02	5.699E-02	1.136E-02	5.201

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.733E-03		1.732E-02	2.630E-02	1.530E-03	0.256
RH-101	-6.789E-03		1.849E-02	2.947E-02	4.601E-03	-0.230
SB-125	-1.714E-02		4.519E-02	7.497E-02	6.146E-03	-0.229
EU-155	8.352E-03		6.686E-02	1.116E-01	1.045E-02	0.075
PO-209	9.841E-01		3.520E+00	6.182E+00	1.185E+00	0.159
BI-211	-2.708E-02		5.049E-01	8.706E-01	8.522E-02	-0.031
PA-233	-9.458E-03		3.058E-02	5.175E-02	4.168E-03	-0.183
TH-234	1.408E+00	+	4.751E-01	6.352E-01	6.353E-02	2.216
U-235	1.322E-01		1.193E-01	1.997E-01	1.458E-02	0.662
NP-236	5.425E-02		3.878E-02	6.643E-02	6.604E-03	0.817
NP-239	-8.227E-02		1.142E-01	1.924E-01	2.597E-02	-0.427
AM-241	-3.628E-02		9.744E-02	1.643E-01	1.078E-02	-0.221
CM-243	3.740E-02		6.001E-02	1.014E-01	1.096E-02	0.369
AM-246	-1.777E-03		5.864E-02	1.005E-01	1.285E-02	-0.018
CF-249	7.941E-03		1.948E-02	3.361E-02	3.220E-03	0.236

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 6-NOV-2007 21:13:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792507_GAMMA3_400MLSAN_17030.CNF

---- Sample Information ----

Sample ID	: OH207-7925-07		
Sample Title	: SB-CZ-SS-2179-ST		
Sample Quantity	: 5.00000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17030		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 6-NOV-2007 18:13:03.
Decay time	: 43 18:13:03.71	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.23

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.24*	250	1096	1.16	140.49	135	12	56.2		TH-234
1	74.88*	825	1062	1.44	166.29	159	18	17.3	2.74E+00	AM-243
										PB-214
										PB-212
1	77.12*	1296	866	1.22	171.26	159	18	10.2		PB-214
										PB-212
3	87.21	544	1008	1.47	193.62	178	35	23.3	3.25E+00	NP-237
										PB-214
										PB-212
3	89.97	304	875	1.29	199.74	178	35	38.0		
3	92.74*	418	837	1.34	205.88	178	35	29.7		TH-234
0	129.16	200	788	1.35	286.61	282	10	54.4		AC-228
0	185.97*	438	914	1.37	412.53	405	14	31.4		
0	209.10	268	504	1.56	463.80	460	9	32.5		AC-228
3	238.71*	2291	546	1.37	529.43	524	22	5.6	1.52E+00	PB-212
3	241.75	613	556	1.72	536.17	524	22	20.7		PB-214
0	270.55	213	464	1.62	599.99	594	13	44.0		RA-223
										AC-228
0	277.02	174	467	1.54	614.34	607	14	55.1		TL-208
1	295.31	744	338	1.55	654.89	649	23	11.9	9.11E-01	PB-214
1	300.29	130	370	1.45	665.92	649	23	56.4		PB-212
0	328.51	179	336	2.19	728.46	721	13	44.8		
0	338.37*	482	468	1.28	750.33	742	16	22.1		AC-228
0	352.08*	1237	440	1.52	780.71	774	16	9.6		PB-214
0	462.87	194	196	1.42	1026.27	1019	14	33.8		AC-228
0	510.85*	270	239	2.02	1132.62	1125	18	31.6		TL-208
0	582.97*	768	201	1.76	1292.47	1283	20	11.7		TL-208
0	609.26*	934	162	1.81	1350.74	1341	17	9.1		BI-214
0	661.42	273	190	1.38	1466.34	1458	17	26.2		CS-137
0	728.01	168	207	1.79	1613.92	1603	22	46.8		BI-212
0	768.34	91	76	1.76	1703.30	1699	9	40.9		BI-214
0	795.40	140	86	1.76	1763.27	1756	17	35.2		AC-228
0	861.02	80	122	1.25	1908.70	1902	15	63.6		TL-208
0	911.22*	501	95	2.15	2019.96	2010	23	13.5		AC-228
0	969.27	253	112	1.25	2148.61	2142	13	21.4		AC-228
0	1120.51*	222	70	1.58	2483.77	2474	20	23.0		BI-214
0	1238.00	65	73	1.92	2744.14	2735	14	61.4		BI-214
0	1378.54	48	67	1.20	3055.58	3043	21	91.3		BI-214
0	1460.85*	687	28	2.23	3237.98	3230	16	8.5		K-40
0	1729.53	36	16	1.71	3833.36	3823	16	59.8		BI-214
0	1764.63*	134	26	2.15	3911.12	3904	13	23.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.97	304	875	1.29	199.74	178	35	2.82E-02	38.0	3.55E+00	
0	185.97	438	914	1.37	412.53	405	14	4.06E-02	31.4	2.81E+00	
0	328.51	179	336	2.19	728.46	721	13	1.66E-02	44.8	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.781E+00	5.994E-01	2.779E-01	1.635E-02	20.805
CS-137	1.533E-01	4.160E-02	3.209E-02	2.310E-03	4.777
TL-208	3.886E-01	5.483E-02	2.876E-02	2.289E-03	13.511
BI-212	7.367E-01	3.492E-01	2.290E-01	1.662E-02	3.217
PB-212	1.102E+00	1.031E-01	5.263E-02	3.934E-03	20.937
BI-214	9.001E-01	1.069E-01	5.834E-02	4.445E-03	15.429
PB-214	9.194E-01	1.143E-01	6.123E-02	4.871E-03	15.015
RA-223	3.524E-01	1.582E-01	1.574E-01	1.393E-02	2.239
AC-228	1.211E+00	1.842E-01	1.183E-01	8.320E-03	10.235
TH-234	1.090E+00	3.386E-01	3.638E-01	3.257E-02	2.996
NP-237	6.187E-01	1.599E-01	1.581E-01	1.762E-02	3.913
AM-243	1.732E-01	4.485E-02	3.122E-02	6.003E-03	5.550

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-9.155E-03		1.905E-02	3.211E-02	1.954E-03	-0.285
RH-101	-2.059E-04		1.938E-02	3.259E-02	5.030E-03	-0.006
SB-125	-2.439E-02		4.852E-02	8.227E-02	6.801E-03	-0.296
EU-155	3.451E-02		5.320E-02	9.261E-02	8.708E-03	0.373
PO-209	2.874E+00		3.247E+00	6.058E+00	1.116E+00	0.474
BI-211	-6.581E-02		5.604E-01	9.442E-01	6.800E-02	-0.070
PA-233	1.871E-02		3.266E-02	5.589E-02	4.561E-03	0.335
PA-234M	2.960E+00		2.241E+00	4.230E+00	2.888E-01	0.700
U-235	3.849E-02		1.145E-01	1.963E-01	1.457E-02	0.196
NP-236	3.296E-02		3.485E-02	5.098E-02	4.865E-03	0.647
NP-239	-1.555E-02		1.212E-01	2.031E-01	2.718E-02	-0.077
AM-241	3.724E-02		3.799E-02	5.674E-02	3.591E-03	0.656
CM-243	1.651E-02		4.800E-02	8.313E-02	8.958E-03	0.199
AM-246	8.979E-02		6.270E-02	1.202E-01	1.518E-02	0.747
CF-249	-1.606E-03		2.058E-02	3.568E-02	3.553E-03	-0.045

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 00:24:42

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792508_GAMMA1_400MLSAN_17031.CNF

---- Sample Information ----

Sample ID	: OH207-7925-08		
Sample Title	: SB-CZ-SS-2180-ST		
Sample Quantity	: 3.74000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17031		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 6-NOV-2007 21:24:27.
Decay time	: 43 21:24:27.24	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.63

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.89	443	549	1.02	149.19	144	14	19.3	1.18E+00	AM-243 PB-214 PB-212
1	77.25*	615	542	0.98	153.92	144	14	14.6		PB-214 PB-212
2	87.39	307	576	1.09	174.22	163	28	28.2	2.09E+00	NP-237 PB-214 PB-212
2	90.08	152	485	0.98	179.60	163	28	48.6		
0	129.20	128	486	1.02	257.95	255	7	60.1		AC-228
0	186.03*	330	633	1.29	371.75	367	10	31.3		
0	209.23	180	463	1.09	418.19	415	8	43.8		AC-228
2	238.65*	1985	350	1.04	477.10	472	16	5.4	5.53E+00	PB-212
2	241.14	234	279	1.09	482.08	472	16	33.3		
2	242.12	272	260	1.12	484.06	472	16	27.5		PB-214
3	269.88	93	314	1.59	539.63	536	10	71.6	1.37E+00	RA-223
3	270.16	94	314	1.59	540.21	536	10	71.1		AC-228
1	295.10	698	242	1.25	590.14	585	21	10.7	3.05E+00	PB-214
1	300.15	169	229	1.35	600.25	585	21	34.7		PB-212
0	328.59	80	286	1.03	657.20	651	10	83.0		
0	338.36*	505	312	1.16	676.75	671	13	17.0		AC-228
0	351.84*	1117	255	1.19	703.75	699	11	8.2		PB-214
0	462.91	175	210	1.65	926.13	919	15	39.2		AC-228
0	510.79*	245	256	1.88	1022.00	1014	17	35.0		TL-208
0	583.04*	694	144	1.42	1166.64	1160	14	10.7		TL-208
0	609.12*	796	175	1.37	1218.86	1213	12	9.8		BI-214
0	661.30	289	179	1.18	1323.33	1318	12	21.9		CS-137
0	727.16	153	107	1.26	1455.19	1450	12	31.7		BI-212
0	767.84	91	77	1.00	1536.62	1533	8	39.2		BI-214
0	795.41	82	117	1.62	1591.83	1584	17	64.7		AC-228
0	860.03	122	86	1.58	1721.20	1714	16	38.2		TL-208
0	910.78*	498	67	1.74	1822.79	1816	14	11.5		AC-228
0	933.74	42	38	1.43	1868.76	1865	8	59.8		BI-214
0	964.02	99	66	1.36	1929.36	1922	12	38.5		AC-228
0	968.64*	292	71	1.92	1938.62	1934	16	17.8		AC-228
0	1120.06	183	66	1.42	2241.73	2235	15	24.6		BI-214
0	1237.40	64	43	1.95	2476.61	2472	10	45.5		BI-214
0	1376.92	48	15	1.51	2755.87	2752	9	39.9		BI-214
0	1460.12*	587	36	2.15	2922.40	2913	18	9.7		K-40
0	1589.59	90	35	4.57	3181.54	3168	28	45.4		AC-228
0	1630.87	22	29	0.85	3264.16	3255	16	116.4		
0	1728.48	51	13	1.66	3459.52	3452	17	42.7		BI-214
0	1763.89*	111	36	2.25	3530.38	3519	17	31.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.08	152	485	0.98	179.60	163	28	1.41E-02	48.6	2.33E+00	
0	186.03	330	633	1.29	371.75	367	10	3.06E-02	31.3	3.03E+00	
2	241.14	234	279	1.09	482.08	472	16	2.17E-02	33.3	2.64E+00	
0	328.59	80	286	1.03	657.20	651	10	7.39E-03	83.0	2.10E+00	
0	1630.87	22	29	0.85	3264.16	3255	16	2.03E-03	****	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.208E+00	6.157E-01	2.615E-01	1.785E-02	19.918
CS-137	1.876E-01	4.577E-02	3.674E-02	3.948E-03	5.107
TL-208	4.127E-01	6.052E-02	2.925E-02	2.935E-03	14.110
BI-212	7.674E-01	2.545E-01	2.341E-01	2.252E-02	3.278
PB-212	1.154E+00	1.086E-01	5.159E-02	3.982E-03	22.370
BI-214	8.968E-01	1.270E-01	6.330E-02	6.448E-03	14.167
PB-214	9.987E-01	1.138E-01	6.268E-02	4.946E-03	15.934
RA-223	1.857E-01	1.340E-01	1.667E-01	1.534E-02	1.114
AC-228	1.328E+00	1.692E-01	1.074E-01	5.933E-03	12.372
NP-237	7.548E-01	2.392E-01	2.572E-01	3.719E-02	2.935
AM-243	2.601E-01	7.415E-02	6.381E-02	1.339E-02	4.075

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.380E-02		1.858E-02	2.622E-02	1.711E-03	-0.526
RH-101	-6.900E-03		1.943E-02	3.174E-02	4.923E-03	-0.217
SB-125	-2.956E-03		4.829E-02	8.263E-02	6.776E-03	-0.036
EU-155	8.131E-03		7.165E-02	1.218E-01	1.209E-02	0.067
PO-209	-2.011E+00		3.589E+00	5.991E+00	1.072E+00	-0.336
BI-211	-1.918E-01		4.872E-01	8.332E-01	6.070E-02	-0.230
PA-233	9.379E-03		3.190E-02	5.622E-02	4.721E-03	0.167
PA-234M	1.806E+00		2.294E+00	4.201E+00	2.415E-01	0.430
TH-234	1.373E+00		4.125E-01	7.125E-01	8.313E-02	1.927
U-235	1.199E-01		1.221E-01	2.088E-01	1.458E-02	0.574
NP-236	3.754E-02		4.070E-02	6.804E-02	7.474E-03	0.552
NP-239	1.191E-01		1.231E-01	2.076E-01	2.800E-02	0.574
AM-241	5.987E-02		1.113E-01	1.967E-01	1.564E-02	0.304
CM-243	6.324E-02		6.330E-02	1.101E-01	1.255E-02	0.574
AM-246	5.146E-02		5.606E-02	1.061E-01	1.306E-02	0.485
CF-249	1.560E-02		2.151E-02	3.819E-02	3.684E-03	0.408

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 00:26:27

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792509_GAMMA2_400MLSAN_17032.CNF

---- Sample Information ----

Sample ID : OH207-7925-09
Sample Title : SB-CZ-SS-2181-ST
Sample Quantity : 4.28700E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17032

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 6-NOV-2007 21:25:59.
Decay time : 43 21:25:59.65 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.46

---- Detector Parameters ----

Energy cal. time : 1-MAY-2007 11:12:10. Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA2 Counting geometry: 400 ml sand
Effic. cal. time : 1-MAY-2007 11:13:44. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/08/2007

Post-NID Peak Search Report
Sample ID : OH207-7925-09

Acquisition date : 6-NOV-2007 21:25:59

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.83	473	643	1.19	149.24	145	12	20.3	1.05E+00	AM-243
										PB-214
										PB-212
2	77.08	729	458	0.91	153.72	145	12	11.7		PB-214
										PB-212
0	83.78*	92	674	1.37	167.07	165	7	96.7		
0	87.15*	298	650	1.44	173.77	171	7	30.8		NP-237
										PB-214
										PB-212
0	89.99*	173	428	0.90	179.43	177	5	39.3		
0	92.85*	342	729	1.56	185.13	182	9	31.4		
0	129.12	122	537	0.98	257.34	255	7	65.4		AC-228
0	186.18*	359	730	1.40	370.97	366	10	30.6		
0	209.24	174	465	1.30	416.89	413	8	45.6		AC-228
2	238.75*	1780	357	1.08	475.67	471	16	5.8	1.31E+00	PB-212
2	241.82	453	473	1.48	481.80	471	16	21.5		PB-214
0	270.25*	232	441	1.46	538.43	532	12	38.8		RA-223
										AC-228
0	277.76	92	393	1.41	553.40	549	10	84.1		TL-208
0	295.30*	709	464	1.31	588.34	581	13	14.7		PB-214
0	300.06	146	302	1.30	597.81	594	9	46.2		PB-212
0	328.05	167	447	1.35	653.60	646	15	57.2		
0	338.59*	386	271	1.29	674.59	670	9	18.7		AC-228
0	352.06*	1223	303	1.32	701.43	694	14	8.4		PB-214
0	463.10	123	152	1.45	922.74	919	10	41.3		AC-228
0	510.95*	230	229	1.91	1018.12	1012	15	34.1		TL-208
0	555.92	32	86	1.36	1107.79	1105	8	105.2		
0	583.26*	586	173	1.28	1162.29	1156	13	12.5		TL-208
0	609.39*	869	195	1.39	1214.41	1208	14	9.7		BI-214
0	661.67	308	139	1.59	1318.68	1313	12	19.0		CS-137
0	727.43	137	119	1.66	1449.85	1442	14	37.9		BI-212
0	768.40	70	121	1.55	1531.58	1525	14	70.0		BI-214
0	794.94	82	75	1.17	1584.54	1578	13	48.7		AC-228
0	860.21*	75	54	1.89	1714.80	1709	12	46.2		TL-208
0	911.06*	396	82	1.78	1816.29	1809	15	14.3		AC-228
0	933.81	53	45	1.57	1861.70	1856	10	54.6		BI-214
1	964.60	105	31	1.93	1923.17	1918	23	30.1	1.74E+00	AC-228
1	968.85*	260	51	1.70	1931.65	1918	23	15.8		AC-228
0	1120.29*	168	98	1.63	2234.07	2228	15	30.4		BI-214
1	1237.58	36	68	2.09	2468.38	2459	16	104.9	6.21E+00	
1	1238.39	34	60	1.90	2470.00	2459	16	102.8		BI-214
0	1377.31	37	36	1.83	2747.64	2739	13	74.3		BI-214
0	1408.38	44	22	4.16	2809.76	2803	13	55.9		BI-214
0	1459.69*	406	36	2.04	2912.33	2905	18	12.4		K-40
0	1495.03	22	25	0.95	2983.00	2973	17	112.1		
0	1762.56*	145	20	1.80	3518.22	3508	20	23.1		BI-214
0	1845.29	37	11	1.20	3683.81	3679	11	47.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	83.78	92	674	1.37	167.07	165	7	8.49E-03	96.7	2.37E+00	
0	89.99	173	428	0.90	179.43	177	5	1.60E-02	39.3	2.61E+00	
0	92.85	342	729	1.56	185.13	182	9	3.16E-02	31.4	2.71E+00	T
0	186.18	359	730	1.40	370.97	366	10	3.33E-02	30.6	3.21E+00	
0	328.05	167	447	1.35	653.60	646	15	1.55E-02	57.2	2.20E+00	
0	555.92	32	86	1.36	1107.79	1105	8	3.00E-03	****	1.40E+00	
1	1237.58	36	68	2.09	2468.38	2459	16	3.31E-03	****	7.61E-01	
0	1495.03	22	25	0.95	2983.00	2973	17	2.06E-03	****	6.63E-01	
0	1845.29	37	11	1.20	3683.81	3679	11	3.43E-03	47.8	5.62E-01	

Flags: "T" = Tentatively associated

Combined Activity-MDA Report
Sample ID : OH207-7925-09

Acquisition date : 6-NOV-2007 21:25:59

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.295E+00	4.602E-01	2.349E-01	1.512E-02	14.028
CS-137	1.744E-01	3.866E-02	3.012E-02	3.426E-03	5.790
TL-208	3.000E-01	4.881E-02	2.952E-02	3.074E-03	10.163
BI-212	6.004E-01	2.367E-01	2.069E-01	2.262E-02	2.902
PB-212	8.569E-01	8.228E-02	4.632E-02	3.540E-03	18.498
BI-214	8.456E-01	1.218E-01	5.337E-02	5.683E-03	15.846
PB-214	9.153E-01	1.042E-01	5.194E-02	3.983E-03	17.622
RA-223	3.842E-01	1.529E-01	1.386E-01	1.233E-02	2.772
AC-228	9.425E-01	1.579E-01	9.629E-02	8.367E-03	9.788
NP-237	5.666E-01	1.887E-01	2.085E-01	2.620E-02	2.718
AM-243	2.080E-01	5.920E-02	5.004E-02	9.975E-03	4.157

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.875E-03		1.434E-02	2.551E-02	1.484E-03	0.113
RH-101	-5.266E-03		1.642E-02	2.628E-02	4.103E-03	-0.200
SB-125	-1.534E-02		4.458E-02	7.422E-02	6.085E-03	-0.207
EU-155	9.939E-03		5.930E-02	9.962E-02	9.328E-03	0.100
PO-209	2.522E+00		2.886E+00	5.367E+00	1.029E+00	0.470
BI-211	-8.103E-02		4.585E-01	7.901E-01	7.735E-02	-0.103
PA-233	-2.007E-02		2.881E-02	4.798E-02	3.864E-03	-0.418
PA-234M	1.062E+00		1.997E+00	3.609E+00	2.818E-01	0.294
TH-234	1.366E+00	+	4.497E-01	5.770E-01	5.771E-02	2.368
U-235	5.684E-02		1.132E-01	1.876E-01	1.370E-02	0.303
NP-236	2.051E-02		3.715E-02	6.034E-02	5.998E-03	0.340
NP-239	-1.455E-02		1.031E-01	1.782E-01	2.404E-02	-0.082
AM-241	-6.103E-02		8.817E-02	1.474E-01	9.669E-03	-0.414
CM-243	-3.039E-02		5.477E-02	8.983E-02	9.712E-03	-0.338
AM-246	2.022E-02		5.242E-02	9.438E-02	1.207E-02	0.214
CF-249	1.938E-02		1.841E-02	3.281E-02	3.143E-03	0.591

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 00:27:23

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792510_GAMMA3_400MLSAN_17033.CNF

---- Sample Information ----

Sample ID : OH207-7925-10
Sample Title : SB-CZ-SS-2182-ST
Sample Quantity : 4.16500E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17033

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 6-NOV-2007 21:27:06.
Decay time : 43 21:27:06.34 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.06

---- Detector Parameters ----

Energy cal. time : 30-OCT-2006 16:06:41 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA3 Counting geometry: 400 ml sand
Effic. cal. time : 7-FEB-2007 13:40:24. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80
Sensitivity : 5.00000
Critical level? : Yes
Empirical Eff? : No
Energy tolerance : 1.00000
Abundance limit : 68.00000
MDA Width (FWHM) : 3.00000

End channel : 4096
Gaussian Sens. : 10.00000
Propagate Errors?: Yes
Library-based eff: Yes
Half life ratio : 8.00000
WTM error limit : 3.00000
MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.19*	219	838	1.37	140.37	135	11	55.4		TH-234
2	74.87*	802	919	1.59	166.27	159	18	17.7	1.95E+00	AM-243
										PB-214
										PB-212
2	77.19*	1296	714	1.33	171.41	159	18	9.9		PB-214
										PB-212
1	87.25	438	823	1.47	193.70	182	31	26.4	1.74E+00	NP-237
										PB-214
										PB-212
1	90.01	254	638	1.21	199.83	182	31	37.0		
1	92.78*	407	768	1.47	205.96	182	31	30.0		TH-234
0	185.98*	403	681	1.40	412.55	406	13	29.3		
0	209.34	168	595	1.68	464.32	459	12	60.1		AC-228
3	238.68*	1995	368	1.47	529.36	521	22	5.9	1.20E+00	PB-212
3	241.69	512	439	1.99	536.04	521	22	24.7		PB-214
0	270.63	129	389	1.61	600.18	593	12	63.8		RA-223
										AC-228
0	276.46	118	418	1.24	613.10	606	14	75.4		TL-208
0	295.30	717	261	1.40	654.87	649	11	11.5		PB-214
0	300.24	148	298	1.00	665.81	661	11	47.9		PB-212
0	328.10	93	341	1.37	727.55	720	13	84.8		
0	338.51*	408	319	1.65	750.63	744	14	21.1		AC-228
0	352.05*	1091	341	1.34	780.65	773	15	9.6		PB-214
0	409.72	109	159	1.59	908.46	904	10	47.3		AC-228
0	463.77	129	260	2.19	1028.26	1020	18	61.5		AC-228
0	511.00*	215	203	2.28	1132.95	1126	16	36.1		TL-208
0	583.24*	631	194	1.77	1293.06	1284	20	13.7		TL-208
0	609.31*	834	95	1.67	1350.83	1344	15	8.6		BI-214
0	661.67	282	143	1.32	1466.89	1459	15	21.9		CS-137
0	726.91	156	91	2.13	1611.47	1604	13	29.9		BI-212
0	860.43	99	60	2.17	1907.40	1901	14	38.8		TL-208
0	911.49*	395	71	1.62	2020.54	2013	18	14.6		AC-228
1	964.73	115	60	2.10	2138.55	2130	28	34.7	1.13E+00	AC-228
1	968.93	254	57	2.19	2147.84	2130	28	18.3		AC-228
0	1120.35*	167	57	1.64	2483.42	2474	17	26.0		BI-214
0	1239.46	73	68	0.58	2747.39	2739	18	59.4		BI-214
0	1378.54	52	29	1.95	3055.59	3048	18	57.3		BI-214
0	1415.11	26	22	4.40	3136.63	3126	18	92.7		
0	1460.88*	431	28	2.38	3238.05	3229	19	11.6		K-40
0	1764.70*	100	25	1.13	3911.27	3904	18	32.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	90.01	254	638	1.21	199.83	182	31	2.35E-02	37.0	3.55E+00	
0	185.98	403	681	1.40	412.55	406	13	3.73E-02	29.3	2.81E+00	
0	328.10	93	341	1.37	727.55	720	13	8.58E-03	84.8	1.89E+00	
0	1415.11	26	22	4.40	3136.63	3126	18	2.44E-03	92.7	5.71E-01	

Flags: "T" = Tentatively associated

Combined Activity-MDA Report
Sample ID : OH207-7925-10

Acquisition date : 6-NOV-2007 21:27:06

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.354E+00	5.672E-01	2.835E-01	1.668E-02	15.356
CS-137	1.903E-01	4.394E-02	3.920E-02	2.822E-03	4.856
TL-208	3.835E-01	6.062E-02	3.342E-02	2.660E-03	11.475
BI-212	8.196E-01	2.519E-01	2.696E-01	1.957E-02	3.040
PB-212	1.152E+00	1.094E-01	5.525E-02	4.130E-03	20.854
BI-214	9.638E-01	1.107E-01	6.507E-02	4.958E-03	14.813
PB-214	9.738E-01	1.213E-01	6.719E-02	5.345E-03	14.494
RA-223	2.563E-01	1.651E-01	1.794E-01	1.588E-02	1.428
AC-228	1.146E+00	1.854E-01	1.272E-01	8.942E-03	9.008
TH-234	1.274E+00	3.996E-01	4.109E-01	3.678E-02	3.102
NP-237	5.972E-01	1.709E-01	1.785E-01	1.990E-02	3.345
AM-243	2.022E-01	5.278E-02	3.451E-02	6.637E-03	5.857

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-5.003E-04		2.170E-02	3.381E-02	1.793E-03	-0.015
RH-101	-1.541E-02		2.034E-02	3.327E-02	5.136E-03	-0.463
SB-125	2.239E-02		5.537E-02	9.787E-02	8.091E-03	0.229
EU-155	5.234E-02		6.008E-02	1.052E-01	9.893E-03	0.497
PO-209	2.320E+00		3.824E+00	7.063E+00	1.301E+00	0.328
BI-211	2.920E-01		5.980E-01	1.056E+00	7.604E-02	0.277
PA-233	-3.525E-02		3.789E-02	6.074E-02	4.957E-03	-0.580
PA-234M	2.410E+00		2.475E+00	4.627E+00	3.160E-01	0.521
U-235	9.196E-02		1.264E-01	2.190E-01	1.626E-02	0.420
NP-236	6.502E-02		3.988E-02	5.953E-02	5.681E-03	1.092
NP-239	-1.998E-02		1.299E-01	2.181E-01	2.918E-02	-0.092
AM-241	5.042E-02		4.100E-02	6.214E-02	3.932E-03	0.811
CM-243	-1.222E-02		5.456E-02	9.337E-02	1.006E-02	-0.131
AM-246	-1.063E-02		6.901E-02	1.207E-01	1.524E-02	-0.088
CF-249	1.463E-02		2.301E-02	4.110E-02	4.094E-03	0.356

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 03:44:35

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792511_GAMMA1_400MLSAN_17034.CNF

---- Sample Information ----

Sample ID : OH207-7925-11
Sample Title : SB-CZ-SS-2183-ST
Sample Quantity : 4.50100E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17034

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 7-NOV-2007 00:44:16.
Decay time : 44 00:44:16.54 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:03.04

---- Detector Parameters ----

Energy cal. time : 23-MAR-2006 15:15:18 Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA1 Counting geometry: 400 ml sand
Effic. cal. time : 23-MAR-2006 15:18:11 Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: [signature] Date: 11/08/2007

Post-NID Peak Search Report
Sample ID : OH207-7925-11

Acquisition date : 7-NOV-2007 00:44:16

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.94	527	719	1.12	149.30	143	16	19.2	2.09E+00	AM-243 PB-214 PB-212
2	77.21*	818	631	0.93	153.84	143	16	12.2		PB-214 PB-212
4	87.35	384	506	1.23	174.14	171	20	19.9	1.69E+00	NP-237 PB-214 PB-212
4	90.10	284	783	1.40	179.65	171	20	36.7		
4	93.02*	408	753	1.36	185.49	171	20	26.5		
0	129.13	147	747	0.79	257.81	254	8	66.5		AC-228
0	185.88*	592	854	1.28	371.43	365	13	22.3		
0	209.41	234	730	0.94	418.56	413	10	45.2		AC-228
2	238.65*	2757	415	1.05	477.10	472	16	4.5	6.04E+00	PB-212
2	241.00	259	373	1.33	481.81	472	16	41.4		
2	241.96	343	310	1.20	483.73	472	16	23.9		PB-214
0	270.13	246	393	1.33	540.13	536	9	31.7		RA-223 AC-228
0	277.25	132	444	1.00	554.39	550	10	62.2		TL-208
0	295.26	675	364	1.23	590.45	586	10	13.1		PB-214
0	300.16	140	298	0.89	600.27	597	8	45.9		PB-212
0	327.78	156	315	1.16	655.56	651	9	44.1		
0	338.25*	615	314	1.18	676.53	672	10	13.5		AC-228
0	351.83*	1128	335	1.32	703.72	698	11	8.7		PB-214
0	409.11	94	215	1.16	818.40	813	10	62.2		AC-228
0	462.69	168	176	1.28	925.70	920	11	34.3		AC-228
0	510.71*	270	316	1.74	1021.83	1015	15	33.3		TL-208
0	582.87*	953	192	1.48	1166.30	1158	16	9.2		TL-208
0	609.17*	857	251	1.51	1218.97	1212	16	10.9		BI-214
0	661.39	114	114	1.26	1323.52	1319	9	38.7		CS-137
0	727.08	236	145	1.62	1455.02	1450	14	25.5		BI-212
0	768.26	72	81	1.37	1537.47	1534	8	50.4		BI-214
0	784.93	57	86	1.26	1570.84	1566	9	63.7		BI-212
0	793.91	92	173	1.84	1588.83	1584	18	69.0		AC-228
0	835.30	70	104	1.94	1671.69	1665	12	63.4		
0	860.43	118	103	2.20	1722.00	1715	14	41.3		TL-208
0	910.89*	661	103	1.72	1823.01	1815	16	10.5		AC-228
3	964.55	134	71	2.26	1930.44	1921	28	35.1	1.51E+00	AC-228
3	968.61*	397	46	1.81	1938.55	1921	28	12.4		AC-228
0	1119.87	203	90	1.54	2241.35	2232	18	26.0		BI-214
0	1237.82	87	65	1.14	2477.44	2470	13	43.9		BI-214
0	1377.75	34	52	1.63	2757.54	2751	12	92.6		BI-214
0	1400.93*	31	21	1.42	2803.94	2799	13	71.0		BI-214
0	1460.12*	855	32	1.87	2922.40	2915	17	7.6		K-40
0	1618.97	53	16	1.11	3240.34	3231	16	43.5		BI-212
0	1630.59	27	22	1.20	3263.61	3257	14	80.9		
0	1763.40*	188	26	2.54	3529.40	3521	17	19.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.10	284	783	1.40	179.65	171	20	2.63E-02	36.7	2.33E+00	
4	93.02	408	753	1.36	185.49	171	20	3.78E-02	26.5	2.43E+00	T
0	185.88	592	854	1.28	371.43	365	13	5.48E-02	22.3	3.03E+00	
2	241.00	259	373	1.33	481.81	472	16	2.40E-02	41.4	2.64E+00	
0	327.78	156	315	1.16	655.56	651	9	1.44E-02	44.1	2.11E+00	
0	835.30	70	104	1.94	1671.69	1665	12	6.46E-03	63.4	1.03E+00	
0	1630.59	27	22	1.20	3263.61	3257	14	2.53E-03	80.9	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.303E+00	6.428E-01	2.418E-01	1.651E-02	26.061
CS-137	6.162E-02	2.472E-02	3.121E-02	3.354E-03	1.974
TL-208	4.711E-01	6.424E-02	2.793E-02	2.803E-03	16.866
BI-212	9.824E-01	2.677E-01	2.262E-01	2.175E-02	4.344
PB-212	1.332E+00	1.187E-01	4.844E-02	3.738E-03	27.498
BI-214	8.020E-01	1.194E-01	5.425E-02	5.526E-03	14.782
PB-214	8.383E-01	9.847E-02	5.719E-02	4.513E-03	14.658
RA-223	4.080E-01	1.347E-01	1.484E-01	1.365E-02	2.750
AC-228	1.465E+00	1.736E-01	9.358E-02	5.172E-03	15.659
NP-237	7.847E-01	1.930E-01	2.738E-01	3.959E-02	2.866
AM-243	2.573E-01	7.319E-02	5.781E-02	1.213E-02	4.451

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.364E-03		1.550E-02	2.484E-02	1.621E-03	0.135
RH-101	3.762E-03		1.785E-02	2.964E-02	4.597E-03	0.127
SB-125	1.495E-02		4.544E-02	7.881E-02	6.463E-03	0.190
EU-155	5.569E-02		6.534E-02	1.127E-01	1.118E-02	0.494
PO-209	-2.630E-02		3.117E+00	5.448E+00	9.751E-01	-0.005
BI-211	3.469E-01		5.267E-01	8.474E-01	6.174E-02	0.409
PA-233	3.282E-04		3.037E-02	5.261E-02	4.418E-03	0.006
PA-234M	2.631E+00		1.949E+00	3.683E+00	2.117E-01	0.714
TH-234	1.733E+00	+	5.018E-01	6.590E-01	7.688E-02	2.631
U-235	-1.673E-02		1.117E-01	1.845E-01	1.288E-02	-0.091
NP-236	-5.861E-03		3.920E-02	6.309E-02	6.931E-03	-0.093
NP-239	5.104E-02		1.137E-01	1.880E-01	2.536E-02	0.272
AM-241	4.697E-02		1.026E-01	1.800E-01	1.431E-02	0.261
CM-243	-4.082E-03		5.896E-02	9.954E-02	1.134E-02	-0.041
AM-246	3.961E-02		5.230E-02	9.640E-02	1.186E-02	0.411
CF-249	3.470E-03		1.900E-02	3.288E-02	3.171E-03	0.106

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 03:46:16

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792512_GAMMA2_400MLSAN_17035.CNF

---- Sample Information ----

Sample ID	: OH207-7925-12		
Sample Title	: SB-CZ-SS-2184-ST		
Sample Quantity	: 4.40300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17035		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 00:45:57.
Decay time	: 44 00:45:57.21	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.64

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/08/2007

Sample ID : OH207-7925-12 Acquisition date : 7-NOV-2007 00:45:57

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.83	505	697	1.09	149.25	145	13	18.7	2.63E-01	AM-243
										PB-214
										PB-212
2	77.04	770	675	1.05	153.64	145	13	13.4		PB-214
										PB-212
0	87.19*	312	765	1.21	173.85	171	7	31.7		NP-237
										PB-214
										PB-212
0	89.77*	81	707	0.88	178.99	177	6	106.5		
1	92.39*	132	297	0.92	184.20	182	10	40.3	4.00E+00	
1	93.19*	133	668	1.12	185.80	182	10	73.3		
0	186.00*	414	877	1.21	370.61	366	11	29.9		
0	209.37	261	736	1.22	417.16	412	11	42.1		AC-228
2	238.75*	2157	437	1.12	475.68	468	18	5.4	2.21E+00	PB-212
2	241.17	230	470	1.48	480.51	468	18	52.1		
2	242.10	391	407	1.31	482.36	468	18	23.0		PB-214
1	270.16*	193	316	1.38	538.25	534	11	36.2	3.82E+00	RA-223
										AC-228
1	271.41	81	328	1.38	540.75	534	11	85.2		
0	277.29	87	401	1.03	552.46	549	9	86.1		TL-208
0	295.43*	773	440	1.27	588.60	582	11	12.8		PB-214
0	300.32	115	318	1.15	598.35	594	8	57.2		PB-212
0	328.43	83	411	1.27	654.34	650	10	93.3		
0	338.43*	375	453	1.21	674.26	670	11	24.5		AC-228
0	352.20*	1357	327	1.25	701.70	697	12	7.8		PB-214
0	410.24	64	203	1.07	817.37	814	8	81.6		AC-228
0	463.32	205	249	1.25	923.18	916	14	35.6		AC-228
0	511.05*	269	281	1.76	1018.33	1010	18	33.7		TL-208
0	583.43*	722	219	1.51	1162.63	1157	15	11.7		TL-208
0	609.43*	994	189	1.41	1214.48	1208	13	8.6		BI-214
5	661.79	436	73	1.66	1318.92	1310	24	12.2	1.08E+00	CS-137
5	666.11	65	107	2.53	1327.53	1310	24	72.5		
0	727.70	180	88	1.64	1450.39	1445	13	26.3		BI-212
0	768.07	158	104	1.64	1530.92	1524	13	31.0		BI-214
0	795.38	82	121	1.84	1585.42	1579	14	61.3		AC-228
0	835.80	58	66	1.46	1666.07	1661	10	59.0		
0	839.59	34	46	1.48	1673.64	1670	8	76.6		
0	860.31*	87	69	2.05	1715.00	1709	11	43.4		TL-208
0	911.03*	514	73	1.72	1816.24	1809	14	11.4		AC-228
0	934.21	43	83	1.27	1862.50	1859	11	88.2		BI-214
3	964.48	95	66	2.33	1922.93	1916	23	44.5	8.32E-01	AC-228
3	968.83*	284	51	1.72	1931.62	1916	23	15.4		AC-228
0	1119.96*	234	84	1.36	2233.40	2227	13	21.0		BI-214
0	1238.06	155	77	2.53	2469.33	2460	21	33.5		BI-214
0	1377.35	41	44	1.87	2747.72	2741	12	72.7		BI-214
0	1413.91	82	96	6.99	2820.80	2803	46	85.5		
0	1459.76*	657	54	1.84	2912.47	2904	18	9.5		K-40
0	1660.16	22	18	3.41	3313.30	3307	12	88.1		
0	1728.36	47	21	1.83	3449.77	3441	14	50.8		BI-214
0	1762.71*	185	5	2.72	3518.50	3509	22	16.6		BI-214
0	1941.91	18	3	1.08	3877.27	3870	13	63.4		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	89.77	81	707	0.88	178.99	177	6	7.52E-03	****	2.60E+00	
1	92.39	132	297	0.92	184.20	182	10	1.23E-02	40.3	2.69E+00	T
1	93.19	133	668	1.12	185.80	182	10	1.23E-02	73.3	2.72E+00	
0	186.00	414	877	1.21	370.61	366	11	3.83E-02	29.9	3.21E+00	
2	241.17	230	470	1.48	480.51	468	18	2.13E-02	52.1	2.78E+00	
1	271.41	81	328	1.38	540.75	534	11	7.53E-03	85.2	2.56E+00	
0	328.43	83	411	1.27	654.34	650	10	7.72E-03	93.3	2.20E+00	
5	666.11	65	107	2.53	1327.53	1310	24	5.99E-03	72.5	1.21E+00	
0	835.80	58	66	1.46	1666.07	1661	10	5.37E-03	59.0	1.01E+00	
0	839.59	34	46	1.48	1673.64	1670	8	3.17E-03	76.6	1.01E+00	
0	1413.91	82	96	6.99	2820.80	2803	46	7.62E-03	85.5	6.91E-01	
0	1660.16	22	18	3.41	3313.30	3307	12	2.04E-03	88.1	6.12E-01	
0	1941.91	18	3	1.08	3877.27	3870	13	1.64E-03	63.4	5.39E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.191E+00	5.976E-01	2.187E-01	1.408E-02	23.733
CS-137	2.399E-01	3.997E-02	2.540E-02	2.890E-03	9.445
TL-208	3.599E-01	5.633E-02	2.802E-02	2.918E-03	12.844
BI-212	7.698E-01	2.195E-01	2.005E-01	2.192E-02	3.840
PB-212	1.011E+00	9.464E-02	4.646E-02	3.550E-03	21.754
BI-214	9.426E-01	1.291E-01	5.123E-02	5.456E-03	18.397
PB-214	9.889E-01	1.080E-01	5.517E-02	4.230E-03	17.924
RA-223	3.112E-01	1.161E-01	1.360E-01	1.210E-02	2.288
AC-228	1.191E+00	1.709E-01	1.003E-01	8.719E-03	11.865
NP-237	5.769E-01	1.967E-01	2.507E-01	3.150E-02	2.302
AM-243	2.161E-01	5.910E-02	5.272E-02	1.051E-02	4.100

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-8.268E-04		1.649E-02	2.750E-02	1.600E-03	-0.030
RH-101	4.692E-03		1.778E-02	2.897E-02	4.523E-03	0.162
SB-125	-1.211E-02		4.617E-02	7.710E-02	6.321E-03	-0.157
EU-155	5.983E-02		6.160E-02	1.053E-01	9.859E-03	0.568
PO-209	-3.627E-01		3.255E+00	5.610E+00	1.076E+00	-0.065
BI-211	-7.146E-02		5.108E-01	7.612E-01	7.451E-02	-0.094
PA-233	2.077E-03		2.947E-02	5.073E-02	4.086E-03	0.041
PA-234M	2.406E-01		1.919E+00	3.374E+00	2.634E-01	0.071
TH-234	5.157E-01	+	2.140E-01	6.054E-01	6.055E-02	0.852
U-235	1.109E-01		1.122E-01	1.881E-01	1.373E-02	0.589
NP-236	4.952E-02		3.914E-02	6.099E-02	6.063E-03	0.812
NP-239	6.576E-02		1.104E-01	1.939E-01	2.616E-02	0.339
AM-241	7.005E-04		8.927E-02	1.525E-01	1.000E-02	0.005
CM-243	-7.288E-03		5.594E-02	9.308E-02	1.006E-02	-0.078
AM-246	-4.771E-03		5.993E-02	1.024E-01	1.310E-02	-0.047
CF-249	-7.964E-03		1.954E-02	3.256E-02	3.119E-03	-0.245

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 03:47:35

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792513_GAMMA3_400MLSAN_17036.CNF

---- Sample Information ----

Sample ID	: OH207-7925-13		
Sample Title	: SB-CZ-SS-2185-ST		
Sample Quantity	: 4.80300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17036		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 00:47:16.
Decay time	: 44 00:47:16.04	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.09

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: TM Moore Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.51*	131	604	1.19	103.40	98	12	79.6		
0	63.34*	125	732	1.09	140.72	137	9	84.6		TH-234
1	74.88*	714	889	1.44	166.29	158	21	18.2	1.59E+00	AM-243
										PB-214
										PB-212
1	77.14*	1158	774	1.41	171.29	158	21	11.0		PB-214
										PB-212
3	87.18	521	820	1.68	193.54	178	35	23.4	2.49E+00	NP-237
										PB-214
										PB-212
3	89.84	357	899	1.78	199.44	178	35	37.5		
3	92.84*	536	902	1.79	206.11	178	35	25.6		TH-234
0	186.03*	457	822	1.71	412.65	405	14	28.9		
0	209.08	247	622	1.65	463.75	457	13	43.8		AC-228
3	238.69*	1693	428	1.44	529.39	521	23	6.9	1.06E+00	PB-212
3	241.79	566	472	1.85	536.24	521	23	20.6		PB-214
0	270.11	201	402	1.83	599.01	593	12	42.3		RA-223
										AC-228
0	295.31	769	405	1.44	654.89	649	13	13.0		PB-214
0	300.29	84	266	1.23	665.91	662	9	73.8		PB-212
0	327.92	144	324	1.07	727.16	720	14	55.7		
0	338.39*	291	352	1.47	750.37	745	14	29.7		AC-228
0	352.08*	1426	288	1.55	780.70	774	15	7.5		PB-214
0	463.07	86	132	1.09	1026.71	1023	9	53.6		AC-228
0	510.67*	227	204	2.09	1132.22	1122	19	35.7		TL-208
0	583.24*	576	158	1.73	1293.07	1286	16	13.0		TL-208
0	609.27*	1010	117	1.71	1350.76	1343	16	8.0		BI-214
0	661.49	165	177	1.38	1466.48	1458	16	39.5		CS-137
0	727.50	123	131	1.56	1612.78	1606	17	46.4		BI-212
0	768.27	77	96	1.76	1703.15	1696	12	55.6		BI-214
0	795.48	59	98	2.08	1763.45	1752	17	80.5		AC-228
0	860.58	81	53	1.09	1907.73	1899	14	44.0		TL-208
0	911.06*	381	59	2.22	2019.60	2011	16	13.9		AC-228
0	968.30	321	96	1.57	2146.46	2136	19	18.4		AC-228
0	1120.45*	209	75	1.73	2483.64	2476	18	24.2		BI-214
0	1238.23	118	56	2.36	2744.64	2738	16	33.8		BI-214
0	1378.04	62	39	1.46	3054.49	3048	14	49.4		BI-214
0	1408.00	38	15	1.05	3120.87	3115	15	55.0		BI-214
0	1460.88*	473	32	2.07	3238.05	3229	21	11.2		K-40
0	1693.21	27	4	1.26	3752.87	3743	17	52.8		
0	1764.54*	137	24	1.78	3910.93	3902	20	25.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.51	131	604	1.19	103.40	98	12	1.22E-02	79.6	2.77E+00	
3	89.84	357	899	1.78	199.44	178	35	3.31E-02	37.5	3.55E+00	
0	186.03	457	822	1.71	412.65	405	14	4.23E-02	28.9	2.81E+00	
0	327.92	144	324	1.07	727.16	720	14	1.33E-02	55.7	1.90E+00	
0	1693.21	27	4	1.26	3752.87	3743	17	2.46E-03	52.8	5.04E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.148E+00	5.248E-01	2.419E-01	1.423E-02	17.148
CS-137	9.638E-02	3.872E-02	3.434E-02	2.473E-03	2.807
TL-208	3.033E-01	4.630E-02	3.077E-02	2.449E-03	9.857
BI-212	5.602E-01	2.631E-01	2.155E-01	1.564E-02	2.600
PB-212	8.478E-01	8.605E-02	5.144E-02	3.845E-03	16.480
BI-214	1.013E+00	1.117E-01	5.560E-02	4.237E-03	18.216
PB-214	1.103E+00	1.204E-01	5.938E-02	4.724E-03	18.584
RA-223	3.470E-01	1.500E-01	1.563E-01	1.384E-02	2.220
AC-228	9.575E-01	1.490E-01	1.242E-01	8.729E-03	7.712
TH-234	1.455E+00	3.952E-01	3.383E-01	3.028E-02	4.302
NP-237	6.160E-01	1.599E-01	1.470E-01	1.638E-02	4.191
AM-243	1.562E-01	4.139E-02	2.899E-02	5.576E-03	5.386

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.423E-02		1.898E-02	3.265E-02	1.732E-03	0.436
RH-101	2.155E-02		1.919E-02	3.281E-02	5.064E-03	0.657
SB-125	-1.433E-02		4.793E-02	8.215E-02	6.791E-03	-0.174
EU-155	7.302E-02		5.342E-02	9.408E-02	8.847E-03	0.776
PO-209	7.712E-01		3.517E+00	6.328E+00	1.166E+00	0.122
BI-211	1.081E-01		5.309E-01	9.184E-01	6.614E-02	0.118
PA-233	-1.407E-02		3.303E-02	5.431E-02	4.432E-03	-0.259
PA-234M	2.622E-01		2.123E+00	3.761E+00	2.568E-01	0.070
U-235	2.386E-02		1.103E-01	1.890E-01	1.403E-02	0.126
NP-236	3.479E-02		3.401E-02	5.004E-02	4.775E-03	0.695
NP-239	3.123E-02		1.177E-01	2.001E-01	2.677E-02	0.156
AM-241	3.440E-02		3.553E-02	5.338E-02	3.378E-03	0.644
CM-243	2.902E-02		4.811E-02	8.380E-02	9.030E-03	0.346
AM-246	-4.963E-03		6.068E-02	1.067E-01	1.347E-02	-0.047
CF-249	1.277E-02		2.094E-02	3.726E-02	3.711E-03	0.343

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 11:52:18

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792514_GAMMA1_400MLSAN_17037.CNF

---- Sample Information ----

Sample ID	: OH207-7925-14		
Sample Title	: SB-CZ-SS-2186-ST		
Sample Quantity	: 5.03700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17037		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 08:51:41.
Decay time	: 44 08:51:41.40	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.92

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/08/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.95	451	565	0.99	149.31	144	13	19.1	1.70E+00	AM-243
										PB-214
										PB-212
2	77.21*	689	552	0.99	153.85	144	13	13.4		PB-214
										PB-212
0	87.41	284	665	1.10	174.26	171	7	32.5		NP-237
										PB-214
										PB-212
4	90.16	159	272	0.85	179.77	178	14	31.1	1.18E+00	
4	92.88*	325	698	1.34	185.21	178	14	31.3		
0	186.06*	390	785	1.31	371.79	367	10	29.3		
0	209.04	117	594	1.04	417.81	414	8	74.3		AC-228
4	238.63*	2017	322	1.07	477.07	470	19	5.3	1.54E+00	PB-212
4	241.66	580	484	1.71	483.12	470	19	18.9		PB-214
0	270.45	196	478	1.21	540.79	535	11	45.7		RA-223
										AC-228
0	277.04	122	489	1.13	553.98	547	12	74.9		TL-208
3	295.21	868	302	1.36	590.35	584	22	9.7	2.13E+00	PB-214
3	300.17	182	355	1.48	600.28	584	22	39.2		PB-212
0	328.01	100	308	1.71	656.03	652	9	66.3		
0	338.17*	443	294	1.21	676.36	673	9	17.0		AC-228
0	351.81*	1476	302	1.25	703.68	699	12	7.1		PB-214
0	409.41	49	232	1.12	819.01	815	10	121.6		AC-228
0	462.74	134	211	1.48	925.79	920	11	45.5		AC-228
0	510.52*	219	236	1.65	1021.46	1015	14	35.5		TL-208
0	582.97*	660	159	1.41	1166.51	1161	11	10.9		TL-208
0	609.04*	1071	161	1.52	1218.70	1212	14	8.0		BI-214
7	661.37	339	110	1.74	1323.48	1318	17	15.8	2.16E+00	CS-137
7	665.09	30	98	1.66	1330.92	1318	17	117.2		
0	727.13	139	151	1.80	1455.13	1449	12	39.4		BI-212
1	767.87	92	86	1.74	1536.69	1531	21	43.3	1.98E+00	BI-214
1	771.68	67	79	1.75	1544.32	1531	21	55.6		
0	786.37	53	127	3.32	1573.73	1566	13	93.2		BI-212
0	794.43	81	92	1.52	1589.85	1585	11	51.0		AC-228
0	860.20	97	87	1.64	1721.53	1716	14	45.1		TL-208
0	910.88*	520	109	1.57	1823.00	1817	15	12.7		AC-228
0	933.69	104	85	2.54	1868.64	1859	17	45.0		BI-214
2	964.30	101	80	1.65	1929.93	1925	19	38.5	2.20E+00	AC-228
2	968.59*	276	88	1.77	1938.52	1925	19	17.8		AC-228
0	1119.84	260	90	1.95	2241.28	2234	17	20.8		BI-214
0	1237.95	110	71	1.64	2477.72	2471	14	38.2		BI-214
0	1377.30	73	36	1.48	2756.65	2751	13	42.3		BI-214
0	1460.06*	769	52	2.30	2922.29	2911	20	8.6		K-40
0	1763.42*	194	36	1.65	3529.45	3522	17	20.2		BI-214
0	1846.78	29	18	0.95	3696.27	3690	14	71.5		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.16	159	272	0.85	179.77	178	14	1.47E-02	31.1	2.33E+00	
4	92.88	325	698	1.34	185.21	178	14	3.01E-02	31.3	2.43E+00	T
0	186.06	390	785	1.31	371.79	367	10	3.61E-02	29.3	3.03E+00	
0	328.01	100	308	1.71	656.03	652	9	9.30E-03	66.3	2.11E+00	
7	665.09	30	98	1.66	1330.92	1318	17	2.75E-03	****	1.21E+00	
1	771.68	67	79	1.75	1544.32	1531	21	6.24E-03	55.6	1.09E+00	
0	1846.78	29	18	0.95	3696.27	3690	14	2.70E-03	71.5	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.063E+00	5.554E-01	2.207E-01	1.506E-02	22.944
CS-137	1.635E-01	3.130E-02	2.601E-02	2.795E-03	6.284
TL-208	2.912E-01	4.305E-02	2.515E-02	2.524E-03	11.577
BI-212	5.158E-01	2.092E-01	1.916E-01	1.843E-02	2.692
PB-212	8.706E-01	8.157E-02	4.181E-02	3.226E-03	20.823
BI-214	8.955E-01	1.159E-01	4.719E-02	4.807E-03	18.977
PB-214	9.802E-01	1.039E-01	4.960E-02	3.914E-03	19.763
RA-223	2.902E-01	1.352E-01	1.339E-01	1.232E-02	2.167
AC-228	1.030E+00	1.423E-01	9.188E-02	5.078E-03	11.214
NP-237	5.180E-01	1.840E-01	2.257E-01	3.263E-02	2.296
AM-243	1.969E-01	5.581E-02	4.877E-02	1.023E-02	4.038

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.043E-03		1.372E-02	2.290E-02	1.494E-03	-0.177
RH-101	9.860E-03		1.563E-02	2.622E-02	4.066E-03	0.376
SB-125	8.208E-04		3.945E-02	6.752E-02	5.537E-03	0.012
EU-155	2.506E-02		5.674E-02	9.708E-02	9.639E-03	0.258
PO-209	-6.007E-01		2.691E+00	4.634E+00	8.293E-01	-0.130
BI-211	-2.510E-01		3.989E-01	6.682E-01	4.868E-02	-0.376
PA-233	-5.989E-03		2.705E-02	4.643E-02	3.899E-03	-0.129
PA-234M	9.051E-01		1.592E+00	2.895E+00	1.664E-01	0.313
TH-234	1.235E+00	+	4.128E-01	5.449E-01	6.357E-02	2.266
U-235	3.336E-02		9.861E-02	1.652E-01	1.153E-02	0.202
NP-236	-2.176E-02		3.594E-02	5.318E-02	5.842E-03	-0.409
NP-239	7.697E-02		1.047E-01	1.742E-01	2.350E-02	0.442
AM-241	3.571E-02		8.717E-02	1.531E-01	1.217E-02	0.233
CM-243	7.011E-03		5.195E-02	8.824E-02	1.006E-02	0.079
AM-246	2.310E-02		4.789E-02	8.635E-02	1.063E-02	0.268
CF-249	4.937E-03		1.756E-02	3.046E-02	2.938E-03	0.162

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7925 7928			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7926-PB		9/27/2007 8:45:00 AM	
SCAQC	7926-LD1 OH207-7926-01	SB-CZ-SS-2173-SD	9/24/2007	
SCAQC	7926-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7926-01	SB-CZ-SS-2173-SD	9/24/2007	
OH207	7926-02	SB-CZ-SS-2174-SD	9/24/2007	
OH207	7926-03	SB-CZ-SS-2175-SD	9/24/2007	
OH207	7926-04	SB-CZ-SS-2176-SD	9/24/2007	
OH207	7926-05	SB-CZ-SS-2177-SD	9/24/2007	
OH207	7926-06	SB-CZ-SS-2178-SD	9/24/2007	
OH207	7926-07	SB-CZ-SS-2179-SD	9/24/2007	
OH207	7926-08	SB-CZ-SS-2180-SD	9/24/2007	
OH207	7926-09	SB-CZ-SS-2181-SD	9/24/2007	
OH207	7926-10	SB-CZ-SS-2182-SD	9/24/2007	
OH207	7926-11	SB-CZ-SS-2183-SD	9/24/2007	
OH207	7926-12	SB-CZ-SS-2184-SD	9/24/2007	
OH207	7926-13	SB-CZ-SS-2185-SD	9/24/2007	
OH207	7926-14	SB-CZ-SS-2186-SD	9/24/2007	

Radiochemistry Reviewer 11/12/07 Date

QA Reviewer 11/12/2007 Date

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SCA-Form 301-5 Rev. 0

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-7-07 00:45 G2 MW	180	OH207	7925	12	-	9-24-07	SB-CZ-SS-2184-ST	soil	440.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 00:47 G3 MW				13	-		2185-ST		480.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-07-07 085 G1 MW				14	-		2186-ST		503.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 0854 G3 MW	180	SCAQC	7926	PB1	—	9-27-07 0845	PREP BLK	LIQUID	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1441 G31C	60			LC1	—		CTRL SAMP S-142	SOIL	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 0853 G2 MW	1514 180 1C			LD1	—	9-24-07	DUP 7926-01		395.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-8-07 1454 G1 MW	1748 1C	OH207		01	—		SB-CZ-SS-2173-SD		395.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 1456 G2 MW	1512 G1 1C			02	—		2174-SD		475.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 1458 G3 MW	1520			03	—		2175-SD		443.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-07-07 1533 G1 1C				04	—		2176-SD		501.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-07-07 1837 G2	180	OH207	7926	05	—	9-24-07	SB-CZ-SS-2177-SD	Soil	395.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-07-07 1839 G3				06	—		2178-SD		456.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 2134 G1				07	—		2179-SD		416.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 2139 G2				08	—		2180-SD		398.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-7-07 2140 G3				09	—		2181-SD		547.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 0820 G3IC				10	—		2182-SD		440.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1140 G1IC				11	—		2183-SD		398.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1141 G2IC				12	—		2184-SD		392.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1132 G3IC				13	—		2185-SD		570.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1144 G1IC				14	—		2186-SD		398.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

SC&A - Southeastern Environmental Laboratory
SCA-Form 012 Rev. 1

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 11:54:54

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7926PB1_GAMMA3_400MLSA_17039.CNF

---- Sample Information ----

Sample ID	: SCAQC-7926-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17039		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 7-NOV-2007 08:54:35.
Decay time	: 41 00:09:35.15	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.54

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	237.97*	51	102	1.21	527.78	521	12	94.0		
0	609.61*	28	40	1.68	1351.49	1346	11104.8		0.00E+00	

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	237.97	51	102	1.21	527.78	521	12	4.70E-03	94.0	2.41E+00	T
0	609.61	28	40	1.68	1351.49	1346	11	2.56E-03	****	1.13E+00	T

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	-5.407E-02		1.698E-01	3.176E-01	1.868E-02	-0.170
CO-60	-1.806E-03		1.029E-02	1.894E-02	1.153E-03	-0.095
RH-101	-1.356E-02		1.239E-02	1.960E-02	3.025E-03	-0.692
SB-125	-2.560E-02		2.989E-02	4.969E-02	4.108E-03	-0.515
CS-137	-3.574E-03		1.286E-02	2.225E-02	1.602E-03	-0.161
EU-155	-1.749E-02		3.172E-02	5.419E-02	5.096E-03	-0.323
TL-208	1.387E-02		1.551E-02	2.963E-02	2.358E-03	0.468
PO-209	-2.158E-01		2.267E+00	4.176E+00	7.695E-01	-0.052
BI-211	1.385E-01		3.200E-01	6.070E-01	4.372E-02	0.228
BI-212	-2.014E-02		1.076E-01	1.862E-01	1.352E-02	-0.108
PB-212	3.054E-02	+	2.880E-02	3.892E-02	2.909E-03	0.785
BI-214	3.331E-02	+	3.499E-02	5.566E-02	4.241E-03	0.598
PB-214	-1.694E-02		2.749E-02	4.439E-02	3.532E-03	-0.382
RA-223	2.534E-02		5.922E-02	1.050E-01	9.297E-03	0.241
AC-228	-1.893E-02		5.277E-02	9.450E-02	6.644E-03	-0.200
PA-233	2.473E-03		2.437E-02	4.198E-02	3.426E-03	0.059
PA-234M	2.189E-01		1.668E+00	3.046E+00	2.080E-01	0.072
TH-234	-6.963E-02		1.852E-01	3.428E-01	3.069E-02	-0.203
U-235	-5.003E-02		7.478E-02	1.256E-01	9.325E-03	-0.398
NP-236	1.355E-02		1.932E-02	3.316E-02	3.164E-03	0.409
NP-237	2.446E-03		5.792E-02	9.679E-02	1.079E-02	0.025
NP-239	1.127E-02		7.769E-02	1.349E-01	1.805E-02	0.084
AM-241	-5.848E-02		2.468E-02	3.618E-02	2.290E-03	-1.616
AM-243	-2.933E-03		1.199E-02	1.924E-02	3.700E-03	-0.152
CM-243	-2.503E-03		2.879E-02	5.039E-02	5.430E-03	-0.050
AM-246	-6.643E-02		4.229E-02	5.765E-02	7.277E-03	-1.152
CF-249	3.858E-03		1.402E-02	2.555E-02	2.544E-03	0.151

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-NOV-2007 10:46:46

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7926LC1_GAMMA3_400MLSA_17061.CNF

---- Sample Information ----

Sample ID	: SCAQC-7926-LC1
Sample Title	: CTRL SAMP S-142
Sample Quantity	: 6.40000E+02 G
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17061

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 8-NOV-2007 14:41:32.
Decay time	: 42 05:56:32.07	% dead time	: 0.2%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:05.55

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/20/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	51.50	8334	16293	3.27	114.46	102	38	7.9	3.11E+02	
10	59.52	76211	5343	1.56	132.24	102	38	0.8		AM-241
0	88.05	14307	6140	1.36	195.47	187	16	3.0		
0	122.05	1823	2905	1.38	270.85	266	10	12.0		
0	136.70	233	2261	1.23	303.33	300	8	72.1		
0	238.82*	490	2298	1.76	529.66	525	10	37.7		
0	661.54	23076	1463	1.72	1466.59	1456	22	1.6		CS-137
0	1173.11	17501	627	1.95	2600.33	2591	19	1.7		CO-60
0	1332.36	16044	212	2.15	2953.25	2940	23	1.6		CO-60

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
10	51.50	8334	16293	3.27	114.46	102	38	2.31E+00	7.9	2.99E+00	
0	88.05	14307	6140	1.36	195.47	187	16	3.97E+00	3.0	3.55E+00	T
0	122.05	1823	2905	1.38	270.85	266	10	5.06E-01	12.0	3.39E+00	
0	136.70	233	2261	1.23	303.33	300	8	6.47E-02	72.1	3.26E+00	
0	238.82	490	2298	1.76	529.66	525	10	1.36E-01	37.7	2.40E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.174E+01	2.003E+00	1.064E-01	5.640E-03	298.453
CS-137	3.036E+01	2.237E+00	1.896E-01	1.365E-02	160.097
AM-241	7.679E+01	4.899E+00	3.322E-01	2.102E-02	231.165

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	2.681E-01		4.751E-01	8.758E-01	5.153E-02	0.306
RH-101	-4.038E-03		8.739E-02	1.458E-01	2.250E-02	-0.028
SB-125	1.523E-01		3.153E-01	5.376E-01	4.444E-02	0.283
EU-155	-1.302E-01		2.253E-01	3.804E-01	3.577E-02	-0.342
TL-208	1.274E-01		1.092E-01	1.868E-01	1.487E-02	0.682
PO-209	-3.028E+00		2.997E+01	5.075E+01	9.351E+00	-0.060
BI-211	-4.476E+00		3.767E+00	5.992E+00	4.315E-01	-0.747
BI-212	7.981E-01		8.687E-01	1.469E+00	1.066E-01	0.543
PB-212	5.527E-01	+	2.127E-01	2.825E-01	2.111E-02	1.957
BI-214	2.181E-01		2.042E-01	3.485E-01	2.655E-02	0.626
PB-214	1.825E-01		2.115E-01	3.499E-01	2.784E-02	0.522
RA-223	-4.080E-03		5.124E-01	8.457E-01	7.487E-02	-0.005
AC-228	6.089E-01		5.640E-01	9.728E-01	6.840E-02	0.626
PA-233	2.214E-01		1.929E-01	3.213E-01	2.622E-02	0.689
PA-234M	1.692E-02		1.702E+01	2.875E+01	1.963E+00	0.001
TH-234	4.260E-01		1.051E+00	1.508E+00	1.350E-01	0.282
U-235	-8.832E-02		4.741E-01	7.985E-01	5.927E-02	-0.111
NP-236	7.457E-02		1.292E-01	2.100E-01	2.004E-02	0.355
NP-237	2.996E+01		3.417E+00	1.511E+00	1.685E-01	19.821
NP-239	-5.845E-01		6.423E-01	1.045E+00	1.398E-01	-0.560
AM-243	-3.860E-02		9.356E-02	1.506E-01	2.896E-02	-0.256
CM-243	1.018E-02		2.039E-01	3.476E-01	3.745E-02	0.029
AM-246	3.153E-01		5.295E-01	8.996E-01	1.136E-01	0.350
CF-249	-9.522E-02		1.236E-01	2.072E-01	2.064E-02	-0.459

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 18:14:40

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7926LD1_GAMMA2_400MLSA_17044.CNF

---- Sample Information ----

Sample ID : SCAQC-7926-LD1
Sample Title : DUP 7926-01
Sample Quantity : 3.95400E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17044

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 7-NOV-2007 15:14:18.
Decay time : 44 15:14:18.21 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.69

---- Detector Parameters ----

Energy cal. time : 1-MAY-2007 11:12:10. Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA2 Counting geometry: 400 ml sand
Effic. cal. time : 1-MAY-2007 11:13:44. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.18*	163	1016	1.25	126.06	121	10	75.8		TH-234
2	73.00	119	632	1.10	145.61	143	22	64.9	1.62E+00	
2	74.80	709	728	1.08	149.18	143	22	14.2		AM-243 PB-214 PB-212
2	77.09	1048	672	1.05	153.75	143	22	10.1		PB-214 PB-212
3	87.17*	385	950	1.34	173.81	170	22	28.8	1.55E+00	NP-237 PB-214 PB-212
3	89.95*	239	652	1.08	179.34	170	22	36.3		
3	92.95*	436	774	1.36	185.33	170	22	25.7		TH-234
0	105.39	108	620	1.66	210.10	207	7	78.9		EU-155
0	129.32	150	742	1.39	257.73	254	8	64.9		AC-228
0	154.24	85	613	1.24	307.36	305	7	98.6		
0	185.97*	443	782	1.09	370.56	365	11	26.8		
0	209.55	392	683	1.18	417.52	413	11	27.7		AC-228
5	238.76*	3114	417	1.13	475.70	468	21	4.2	1.52E+00	PB-212
5	241.56	610	590	1.97	481.29	468	21	25.7		PB-214
0	270.35*	255	488	1.33	538.62	534	11	35.9		RA-223 AC-228
0	277.80	192	625	1.31	553.47	545	15	58.8		TL-208
0	295.39*	546	501	1.24	588.53	582	12	18.6		PB-214
0	300.19	208	314	1.36	598.08	594	9	33.9		PB-212
0	327.91	152	345	1.58	653.32	649	10	48.3		
0	338.50*	620	340	1.17	674.40	669	10	13.8		AC-228
0	352.05*	1038	368	1.33	701.41	695	12	9.8		PB-214
0	410.37	105	256	2.11	817.63	812	11	62.6		AC-228
0	462.99	167	250	0.95	922.51	917	12	40.9		AC-228
0	510.85*	388	244	1.73	1017.93	1010	18	22.8		TL-208
0	583.29*	939	221	1.46	1162.36	1155	15	9.6		TL-208
0	609.43*	736	146	1.63	1214.49	1209	11	9.9		BI-214
0	661.49	81	124	1.80	1318.32	1313	10	56.2		CS-137
0	727.24	205	140	1.80	1449.47	1443	13	27.6		BI-212
0	795.14	124	126	1.57	1584.93	1578	16	44.2		AC-228
0	860.52*	122	48	1.49	1715.42	1711	8	27.2		TL-208
0	911.12*	671	79	1.43	1816.41	1811	12	9.4		AC-228
3	964.07	142	36	2.33	1922.11	1913	28	25.9	1.55E+00	AC-228
3	968.79*	427	31	1.86	1931.53	1913	28	11.0		AC-228
0	1119.90*	179	42	1.94	2233.29	2226	13	21.4		BI-214
0	1238.76	71	80	1.96	2470.74	2461	20	67.5		BI-214
0	1376.68	57	26	1.55	2746.39	2738	15	47.5		BI-214
0	1459.81*	474	29	2.07	2912.58	2904	18	11.0		K-40
0	1586.74*	70	32	0.93	3166.43	3160	13	41.4		AC-228
0	1619.44	27	7	1.67	3231.84	3227	10	54.5		BI-212
0	1762.48*	132	15	2.59	3518.06	3510	16	22.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	73.00	119	632	1.10	145.61	143	22	1.10E-02	64.9	1.86E+00	
3	89.95	239	652	1.08	179.34	170	22	2.22E-02	36.3	2.61E+00	
0	154.24	85	613	1.24	307.36	305	7	7.90E-03	98.6	3.38E+00	
0	185.97	443	782	1.09	370.56	365	11	4.10E-02	26.8	3.21E+00	
0	327.91	152	345	1.58	653.32	649	10	1.41E-02	48.3	2.20E+00	

Flags: "T" = Tentatively associated

Combined Activity-MDA Report
Sample ID : SCAQC-7926-LD1

Acquisition date : 7-NOV-2007 15:14:18

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.169E+00	5.299E-01	2.510E-01	1.616E-02	16.610
CS-137	4.962E-02	2.846E-02	3.640E-02	4.141E-03	1.363
EU-155	1.078E-01	8.565E-02	1.174E-01	1.100E-02	0.918
TL-208	5.213E-01	7.368E-02	3.171E-02	3.302E-03	16.443
BI-212	9.746E-01	2.891E-01	2.612E-01	2.856E-02	3.731
PB-212	1.625E+00	1.418E-01	5.115E-02	3.908E-03	31.767
BI-214	7.771E-01	1.128E-01	5.983E-02	6.371E-03	12.987
PB-214	8.423E-01	1.045E-01	6.320E-02	4.846E-03	13.327
RA-223	4.591E-01	1.696E-01	1.525E-01	1.357E-02	3.010
AC-228	1.732E+00	2.221E-01	1.021E-01	8.871E-03	16.963
TH-234	1.890E+00	5.219E-01	5.580E-01	5.582E-02	3.387
NP-237	7.930E-01	2.493E-01	2.895E-01	3.638E-02	2.739
AM-243	3.378E-01	8.274E-02	6.232E-02	1.242E-02	5.420

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.906E-03		1.802E-02	2.831E-02	1.647E-03	0.138
RH-101	-7.068E-03		1.967E-02	3.138E-02	4.899E-03	-0.225
SB-125	-2.689E-02		4.882E-02	8.031E-02	6.585E-03	-0.335
PO-209	5.000E-01		3.347E+00	5.915E+00	1.134E+00	0.085
BI-211	-6.844E-01		5.535E-01	8.728E-01	8.544E-02	-0.784
PA-233	-3.180E-03		3.293E-02	5.630E-02	4.535E-03	-0.056
PA-234M	1.244E-01		2.170E+00	3.790E+00	2.959E-01	0.033
U-235	1.444E-02		1.247E-01	2.044E-01	1.492E-02	0.071
NP-236	1.515E-02		4.523E-02	6.843E-02	6.802E-03	0.221
NP-239	-9.242E-02		1.187E-01	1.996E-01	2.694E-02	-0.463
AM-241	-5.843E-02		1.161E-01	1.742E-01	1.143E-02	-0.335
CM-243	2.553E-02		7.134E-02	1.078E-01	1.165E-02	0.237
AM-246	6.463E-02		5.793E-02	1.098E-01	1.404E-02	0.589
CF-249	2.244E-02		2.110E-02	3.745E-02	3.588E-03	0.599

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 20:49:24

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792601_GAMMA1_400MLSAN_17066.CNF

---- Sample Information ----

Sample ID	: OH207-7926-01		
Sample Title	: SB-CZ-SS-2173-SD		
Sample Quantity	: 3.95400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17066		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 17:49:05.
Decay time	: 45 17:49:05.19	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.88

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.94	617	734	1.12	149.29	143	15	16.8	2.36E+00	AM-243
										PB-214
										PB-212
2	77.18*	866	516	0.89	153.77	143	15	10.7		PB-214
										PB-212
7	84.39*	259	569	1.42	168.21	165	26	33.4	1.88E+00	
7	87.33	511	737	1.47	174.11	165	26	21.4		NP-237
										PB-214
										PB-212
7	89.92	366	577	1.25	179.29	165	26	24.3		
7	92.89*	550	747	1.43	185.24	165	26	20.5		
0	105.49	128	629	1.53	210.46	207	8	70.4		EU-155
0	129.17	182	884	0.99	257.88	252	10	63.0		AC-228
0	185.95*	436	596	1.30	371.57	367	10	23.6		
0	209.33	270	611	1.02	418.40	414	9	35.3		AC-228
1	238.60*	3068	382	1.10	477.00	470	20	4.2	2.63E+00	PB-212
1	240.99	347	390	1.27	481.79	470	20	29.8		
1	242.00	256	383	1.28	483.82	470	20	33.2		PB-214
0	270.27	279	443	1.46	540.43	534	12	32.5		RA-223
										AC-228
0	277.11	170	335	1.16	554.11	549	10	43.2		TL-208
0	295.10	700	393	1.16	590.13	584	12	13.6		PB-214
0	300.14	233	358	1.42	600.22	596	11	34.1		PB-212
3	327.71	108	312	1.48	655.42	651	10	63.5	1.56E+00	
3	328.08	93	349	1.67	656.17	651	10	79.7		
0	338.13*	663	270	1.28	676.28	672	10	12.1		AC-228
0	351.84*	991	274	1.31	703.74	699	11	9.2		PB-214
0	463.55	231	291	1.75	927.42	921	16	35.8		AC-228
0	510.41*	375	288	1.45	1021.23	1013	16	24.2		TL-208
0	582.92*	1003	191	1.34	1166.41	1160	13	8.6		TL-208
0	608.99*	770	179	1.39	1218.60	1213	11	10.0		BI-214
0	660.77	56	156	1.08	1322.26	1319	11	89.6		CS-137
0	727.04	216	119	1.76	1454.95	1450	12	24.4		BI-212
0	770.32	103	217	4.68	1541.59	1531	19	71.7		
0	794.51	103	91	1.50	1590.02	1585	11	40.9		AC-228
0	860.34	114	98	2.13	1721.81	1716	15	42.5		TL-208
0	910.67*	736	39	1.92	1822.57	1817	11	8.2		AC-228
3	964.28	132	71	2.26	1929.89	1920	48	33.9	1.37E+00	AC-228
3	968.42*	453	45	1.84	1938.18	1920	48	11.2		AC-228
0	1119.50	205	76	2.16	2240.60	2231	18	24.4		BI-214
1	1235.10	41	24	1.84	2472.00	2468	14	50.6	1.71E+00	
1	1237.59	60	46	1.84	2477.00	2468	14	52.4		BI-214
0	1459.97*	502	32	1.80	2922.10	2912	17	10.4		K-40
0	1494.61	34	20	1.49	2991.45	2985	13	63.0		
0	1589.53	65	106	5.09	3181.43	3167	24	88.7		AC-228
0	1631.85	24	35	1.12	3266.12	3257	16	117.7		
0	1763.33*	134	20	1.99	3529.27	3522	16	23.3		BI-214
0	1845.58	45	20	5.41	3693.87	3683	26	61.9		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
7	84.39	259	569	1.42	168.21	165	26	2.40E-02	33.4	2.11E+00	
7	89.92	366	577	1.25	179.29	165	26	3.39E-02	24.3	2.32E+00	
7	92.89	550	747	1.43	185.24	165	26	5.09E-02	20.5	2.43E+00	T
0	185.95	436	596	1.30	371.57	367	10	4.04E-02	23.6	3.03E+00	
1	240.99	347	390	1.27	481.79	470	20	3.22E-02	29.8	2.64E+00	
3	327.71	108	312	1.48	655.42	651	10	1.00E-02	63.5	2.11E+00	
3	328.08	93	349	1.67	656.17	651	10	8.65E-03	79.7	2.11E+00	
0	770.32	103	217	4.68	1541.59	1531	19	9.51E-03	71.7	1.09E+00	
1	1235.10	41	24	1.84	2472.00	2468	14	3.77E-03	50.6	7.96E-01	
0	1494.61	34	20	1.49	2991.45	2985	13	3.18E-03	63.0	6.96E-01	
0	1631.85	24	35	1.12	3266.12	3257	16	2.24E-03	****	6.50E-01	
0	1845.58	45	20	5.41	3693.87	3683	26	4.14E-03	61.9	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.212E+00	5.232E-01	2.045E-01	1.396E-02	20.590
CS-137	3.461E-02	3.123E-02	3.396E-02	3.649E-03	1.019
EU-155	1.396E-01	9.917E-02	1.151E-01	1.143E-02	1.212
TL-208	5.638E-01	7.437E-02	3.348E-02	3.360E-03	16.839
BI-212	1.022E+00	2.681E-01	2.461E-01	2.367E-02	4.153
PB-212	1.687E+00	1.484E-01	5.384E-02	4.155E-03	31.339
BI-214	8.204E-01	1.169E-01	6.309E-02	6.426E-03	13.004
PB-214	8.381E-01	1.014E-01	6.146E-02	4.849E-03	13.637
RA-223	5.274E-01	1.780E-01	1.585E-01	1.458E-02	3.328
AC-228	1.857E+00	1.829E-01	8.991E-02	4.969E-03	20.655
NP-237	1.190E+00	3.070E-01	2.572E-01	3.719E-02	4.626
AM-243	3.428E-01	9.216E-02	6.309E-02	1.324E-02	5.434

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.012E-02		1.704E-02	2.507E-02	1.636E-03	-0.404
RH-101	2.119E-02		1.945E-02	3.286E-02	5.097E-03	0.645
SB-125	-1.508E-02		4.838E-02	8.148E-02	6.682E-03	-0.185
PO-209	-1.753E+00		3.360E+00	5.632E+00	1.008E+00	-0.311
BI-211	-2.940E-01		5.228E-01	8.798E-01	6.410E-02	-0.334
PA-233	-6.979E-03		3.299E-02	5.672E-02	4.763E-03	-0.123
PA-234M	2.346E+00		1.913E+00	3.664E+00	2.106E-01	0.640
TH-234	2.659E+00	+	6.278E-01	7.678E-01	8.958E-02	3.463
U-235	8.028E-02		1.275E-01	2.151E-01	1.501E-02	0.373
NP-236	2.321E-02		4.291E-02	7.062E-02	7.758E-03	0.329
NP-239	3.356E-02		1.257E-01	2.070E-01	2.792E-02	0.162
AM-241	-8.290E-02		1.183E-01	2.005E-01	1.594E-02	-0.414
CM-243	5.051E-02		7.032E-02	1.094E-01	1.247E-02	0.462
AM-246	1.986E-02		6.012E-02	1.073E-01	1.321E-02	0.185
CF-249	-6.070E-03		2.149E-02	3.640E-02	3.511E-03	-0.167

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 18:13:16

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792602_GAMMA1_400MLSAN_17043.CNF

---- Sample Information ----

Sample ID	: OH207-7926-02		
Sample Title	: SB-CZ-SS-2174-SD		
Sample Quantity	: 4.75100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17043		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 15:12:51.
Decay time	: 44 15:12:51.12	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:03.31

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.92	617	821	1.12	149.26	144	14	17.6	1.83E+00	AM-243
										PB-214
										PB-212
2	77.19*	951	703	0.92	153.80	144	14	11.1		PB-214
										PB-212
4	87.32	489	882	1.34	174.09	161	31	22.8	1.96E+00	NP-237
										PB-214
										PB-212
4	89.96	406	736	1.20	179.36	161	31	24.5		
4	92.95*	488	801	1.41	185.35	161	31	23.3		
0	129.97	363	1206	1.13	259.49	253	13	40.9		AC-228
0	185.85*	476	800	1.23	371.38	367	9	23.8		
0	209.27	287	773	1.04	418.26	414	10	38.1		AC-228
3	238.64*	3277	484	1.07	477.09	472	17	4.1	7.54E+00	PB-212
3	241.19	427	512	1.35	482.19	472	17	27.6		
3	242.02	281	494	1.36	483.85	472	17	34.9		PB-214
0	269.85	382	527	1.34	539.57	533	13	26.8		RA-223
										AC-228
0	277.60	122	478	1.14	555.09	551	10	69.6		TL-208
2	295.21	811	278	1.20	590.36	585	20	9.8	1.25E+00	PB-214
2	300.02	280	289	1.36	599.98	585	20	24.7		PB-212
1	327.62	105	302	1.38	655.25	651	11	61.1	8.26E+00	
1	328.49	102	299	1.26	657.00	651	11	64.0		
0	338.39*	747	448	1.19	676.81	672	12	13.6		AC-228
0	351.81*	1334	350	1.32	703.69	698	10	7.6		PB-214
0	409.26	123	227	1.85	818.71	814	9	47.9		AC-228
0	462.82	254	203	1.36	925.94	920	11	25.1		AC-228
0	510.49*	394	297	1.62	1021.40	1014	15	23.0		TL-208
0	583.05*	1080	227	1.36	1166.66	1161	12	8.3		TL-208
0	609.12*	1048	194	1.41	1218.86	1213	13	8.3		BI-214
0	727.12	261	190	1.41	1455.11	1448	14	25.7		BI-212
0	767.98	75	98	1.94	1536.92	1533	9	53.3		BI-214
0	785.82	61	106	1.21	1572.63	1568	10	68.5		BI-212
0	795.04	99	134	0.95	1591.08	1586	12	50.9		AC-228
0	835.76	34	102	0.88	1672.61	1666	10	117.3		
0	860.16	159	116	1.82	1721.45	1714	15	33.6		TL-208
0	910.82*	852	89	1.71	1822.86	1816	13	8.3		AC-228
0	933.64	69	81	1.53	1868.55	1862	15	61.7		BI-214
1	964.45	147	64	1.87	1930.22	1923	26	27.5	1.41E+00	AC-228
1	968.66*	472	59	1.87	1938.66	1923	26	11.5		AC-228
0	1119.69	197	102	1.83	2240.99	2234	12	24.0		BI-214
0	1238.05	128	83	1.50	2477.91	2470	15	36.2		BI-214
0	1460.22*	761	43	2.01	2922.61	2913	21	8.5		K-40
0	1591.28	113	85	4.73	3184.92	3169	31	53.5		
0	1621.09	53	28	1.67	3244.59	3237	17	54.1		BI-212
0	1630.24	57	16	1.81	3262.90	3255	18	43.9		
0	1728.98	33	21	1.72	3460.52	3456	10	61.1		BI-214
0	1763.85*	162	56	1.96	3530.31	3522	19	26.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.96	406	736	1.20	179.36	161	31	3.76E-02	24.5	2.33E+00	
4	92.95	488	801	1.41	185.35	161	31	4.52E-02	23.3	2.43E+00	T
0	185.85	476	800	1.23	371.38	367	9	4.41E-02	23.8	3.03E+00	
3	241.19	427	512	1.35	482.19	472	17	3.96E-02	27.6	2.64E+00	
1	327.62	105	302	1.38	655.25	651	11	9.74E-03	61.1	2.11E+00	
1	328.49	102	299	1.26	657.00	651	11	9.43E-03	64.0	2.10E+00	
0	835.76	34	102	0.88	1672.61	1666	10	3.13E-03	****	1.03E+00	
0	1591.28	113	85	4.73	3184.92	3169	31	1.05E-02	53.5	6.63E-01	
0	1630.24	57	16	1.81	3262.90	3255	18	5.24E-03	43.9	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.314E+00	5.787E-01	1.855E-01	1.266E-02	28.649
TL-208	5.055E-01	6.588E-02	2.911E-02	2.921E-03	17.367
BI-212	1.029E+00	2.820E-01	2.277E-01	2.190E-02	4.520
PB-212	1.500E+00	1.310E-01	4.847E-02	3.741E-03	30.943
BI-214	9.292E-01	1.222E-01	5.421E-02	5.522E-03	17.141
PB-214	9.391E-01	1.029E-01	5.508E-02	4.346E-03	17.051
RA-223	6.006E-01	1.702E-01	1.412E-01	1.300E-02	4.252
AC-228	1.789E+00	1.781E-01	9.495E-02	5.247E-03	18.841
NP-237	9.476E-01	2.562E-01	2.325E-01	3.362E-02	4.076
AM-243	2.855E-01	7.821E-02	5.808E-02	1.218E-02	4.916

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.850E-03		1.496E-02	2.340E-02	1.527E-03	0.207
RH-101	-6.536E-03		1.763E-02	2.866E-02	4.446E-03	-0.228
SB-125	2.409E-02		4.548E-02	7.930E-02	6.503E-03	0.304
CS-137	7.763E-03		1.934E-02	3.451E-02	3.708E-03	0.225
EU-155	1.176E-01		6.830E-02	1.186E-01	1.177E-02	0.992
PO-209	-5.338E-01		3.171E+00	5.458E+00	9.768E-01	-0.098
BI-211	2.868E-01		5.164E-01	8.210E-01	5.981E-02	0.349
PA-233	-3.515E-03		2.860E-02	4.930E-02	4.140E-03	-0.071
PA-234M	2.002E+00		1.646E+00	3.135E+00	1.802E-01	0.639
TH-234	1.964E+00	+	5.111E-01	6.513E-01	7.598E-02	3.015
U-235	1.369E-01		1.168E-01	1.988E-01	1.388E-02	0.689
NP-236	3.722E-02		4.266E-02	6.637E-02	7.291E-03	0.561
NP-239	-7.637E-02		1.181E-01	1.870E-01	2.523E-02	-0.408
AM-241	-1.869E-02		1.040E-01	1.790E-01	1.423E-02	-0.104
CM-243	2.348E-02		6.088E-02	1.037E-01	1.182E-02	0.226
AM-246	4.521E-02		5.540E-02	1.011E-01	1.245E-02	0.447
CF-249	1.976E-02		1.926E-02	3.423E-02	3.302E-03	0.577

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 18:20:56

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792603_GAMMA3_400MLSAN_17045.CNF

---- Sample Information ----

Sample ID	: OH207-7926-03
Sample Title	: SB-CZ-SS-2175-SD
Sample Quantity	: 4.43700E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17045

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 15:20:23.
Decay time	: 44 15:20:23.70	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.21

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Mowat Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.22*	89	566	1.16	102.75	98	10	107.1		
2	74.81*	1012	1136	1.51	166.13	160	19	14.4	1.64E+00	AM-243
										PB-214
										PB-212
2	77.15*	1594	953	1.34	171.33	160	19	9.0		PB-214
										PB-212
3	87.28	549	838	1.27	193.78	181	33	19.9	4.34E+00	NP-237
										PB-214
										PB-212
3	89.84	466	1157	1.76	199.45	181	33	32.5		
3	92.80*	524	875	1.43	206.02	181	33	25.6		
0	128.99	237	802	1.87	286.23	282	10	46.6		AC-228
0	186.02*	348	823	1.56	412.63	407	11	34.6		
0	209.59	196	806	1.05	464.87	458	13	61.6		AC-228
3	238.70*	2629	422	1.44	529.40	520	26	5.0	1.59E+00	PB-212
3	241.70	652	534	2.03	536.06	520	26	22.2		PB-214
0	270.39	281	398	2.01	599.64	594	12	31.0		RA-223
										AC-228
0	277.73	78	306	1.12	615.92	612	9	83.7		TL-208
2	295.30	802	281	1.44	654.87	648	24	10.5	2.03E+00	PB-214
2	300.24	250	336	1.92	665.80	648	24	33.6		PB-212
0	328.69	120	327	1.96	728.86	721	12	63.1		
0	338.51*	552	441	1.46	750.64	743	16	19.1		AC-228
0	352.03*	1305	356	1.62	780.60	773	15	8.4		PB-214
0	463.22	176	167	1.10	1027.05	1022	12	33.1		AC-228
0	510.93*	330	276	1.91	1132.79	1124	19	28.3		TL-208
0	583.21*	804	175	1.47	1293.00	1284	17	10.4		TL-208
0	609.22*	886	196	1.47	1350.63	1343	17	9.9		BI-214
0	727.17	203	144	1.97	1612.06	1603	18	31.1		BI-212
0	769.10	121	148	1.75	1704.97	1697	19	51.4		BI-214
0	795.54	59	125	1.82	1763.57	1756	14	85.4		AC-228
0	860.56	141	71	2.15	1907.68	1898	19	33.4		TL-208
0	911.29*	518	102	1.75	2020.11	2013	18	13.0		AC-228
0	934.26	46	62	1.24	2071.01	2066	11	73.4		BI-214
3	964.77	151	61	2.68	2138.63	2131	30	31.2	2.46E+00	AC-228
3	968.84	323	53	1.88	2147.65	2131	30	14.3		AC-228
0	1120.32*	183	83	1.73	2483.36	2476	15	26.4		BI-214
0	1238.40	107	61	2.04	2745.04	2738	18	39.8		BI-214
0	1280.64	43	38	3.08	2838.63	2829	19	75.2		BI-214
0	1378.28	79	53	3.38	3055.01	3040	23	52.6		BI-214
0	1460.91*	527	68	1.77	3238.12	3229	20	11.9		K-40
0	1509.02	47	15	0.86	3344.72	3336	15	46.3		BI-214
0	1588.30*	42	23	1.53	3520.41	3512	13	57.2		AC-228
0	1764.74*	145	25	1.69	3911.38	3901	20	24.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.22	89	566	1.16	102.75	98	10	8.21E-03	****	2.75E+00	
3	89.84	466	1157	1.76	199.45	181	33	4.32E-02	32.5	3.55E+00	
3	92.80	524	875	1.43	206.02	181	33	4.85E-02	25.6	3.55E+00	T
0	186.02	348	823	1.56	412.63	407	11	3.23E-02	34.6	2.81E+00	
0	328.69	120	327	1.96	728.86	721	12	1.11E-02	63.1	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.998E+00	6.620E-01	3.058E-01	1.799E-02	16.342
TL-208	4.583E-01	6.008E-02	3.218E-02	2.561E-03	14.243
BI-212	1.001E+00	3.195E-01	2.592E-01	1.881E-02	3.862
PB-212	1.425E+00	1.282E-01	5.563E-02	4.158E-03	25.623
BI-214	9.621E-01	1.205E-01	6.512E-02	4.962E-03	14.773
PB-214	1.093E+00	1.266E-01	7.034E-02	5.596E-03	15.535
RA-223	5.249E-01	1.692E-01	1.743E-01	1.543E-02	3.011
AC-228	1.409E+00	2.077E-01	1.194E-01	8.393E-03	11.802
NP-237	7.034E-01	1.605E-01	1.711E-01	1.907E-02	4.111
AM-243	2.395E-01	5.757E-02	3.564E-02	6.854E-03	6.719

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.891E-02		2.144E-02	3.488E-02	1.850E-03	0.829
RH-101	1.184E-03		2.105E-02	3.548E-02	5.476E-03	0.033
SB-125	-1.860E-02		5.456E-02	9.322E-02	7.706E-03	-0.200
CS-137	1.282E-02		2.238E-02	3.945E-02	2.840E-03	0.325
EU-155	9.906E-03		6.114E-02	1.054E-01	9.911E-03	0.094
PO-209	-2.589E+00		3.881E+00	6.509E+00	1.199E+00	-0.398
BI-211	-2.954E-01		5.919E-01	9.727E-01	7.005E-02	-0.304
PA-233	8.065E-03		3.689E-02	6.230E-02	5.084E-03	0.129
PA-234M	1.516E+00		2.434E+00	4.436E+00	3.029E-01	0.342
TH-234	1.540E+00	+	4.175E-01	5.828E-01	5.218E-02	2.642
U-235	1.918E-02		1.270E-01	2.169E-01	1.610E-02	0.088
NP-236	2.257E-02		3.976E-02	5.749E-02	5.486E-03	0.393
NP-239	6.012E-02		1.380E-01	2.348E-01	3.142E-02	0.256
AM-241	-1.095E-01		4.252E-02	6.463E-02	4.090E-03	-1.694
CM-243	-2.237E-02		5.526E-02	9.402E-02	1.013E-02	-0.238
AM-246	-2.077E-02		6.486E-02	1.118E-01	1.411E-02	-0.186
CF-249	9.820E-03		2.267E-02	4.010E-02	3.994E-03	0.245

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 21:34:11

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792604_GAMMA1_400MLSAN_17046.CNF

---- Sample Information ----

Sample ID	: OH207-7926-04		
Sample Title	: SB-CZ-SS-2176-SD		
Sample Quantity	: 5.01800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17046		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 18:33:51.
Decay time	: 44 18:33:51.76	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:03.04

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.91	487	586	1.05	149.24	143	16	18.2	1.48E+00	AM-243
										PB-214
										PB-212
3	77.24*	780	587	0.98	153.90	143	16	12.3		PB-214
										PB-212
0	87.30	371	723	1.38	174.04	171	7	26.2		NP-237
										PB-214
										PB-212
3	89.96	148	581	0.81	179.36	177	12	50.4	3.82E+00	
3	92.96*	295	783	1.14	185.37	177	12	34.6		
0	129.28	163	694	0.88	258.10	254	8	58.3		AC-228
0	185.91*	322	858	1.09	371.49	367	10	36.5		
0	209.12	199	761	1.30	417.97	414	11	55.5		AC-228
3	238.61*	2343	366	1.05	477.02	471	17	4.9	1.24E+00	PB-212
3	241.03	267	411	1.26	481.87	471	17	38.8		
3	241.97	405	351	1.20	483.76	471	17	20.6		PB-214
0	270.40	238	452	1.40	540.69	536	10	36.0		RA-223
										AC-228
0	277.72	153	404	1.17	555.33	552	10	52.0		TL-208
0	295.20	882	441	1.10	590.33	585	11	11.4		PB-214
0	300.00	173	372	0.93	599.94	596	9	42.8		PB-212
5	327.26	120	195	1.80	654.52	651	9	44.1	6.44E+00	
5	328.01	68	197	1.22	656.02	651	9	78.3		
0	338.19*	465	403	1.28	676.41	672	10	18.7		AC-228
0	351.73*	1695	380	1.24	703.53	697	13	6.8		PB-214
0	409.57	76	197	0.75	819.32	815	8	67.8		AC-228
0	462.96	143	216	1.29	926.23	921	11	43.5		AC-228
0	510.60*	336	313	2.01	1021.61	1014	17	28.1		TL-208
0	583.04*	779	272	1.47	1166.64	1161	14	11.6		TL-208
0	609.04*	1201	203	1.40	1218.70	1211	16	7.9		BI-214
0	727.07	187	123	1.64	1455.02	1449	12	27.9		BI-212
0	767.85	96	99	1.09	1536.65	1531	10	44.4		BI-214
0	799.99	257	242	11.99	1600.99	1582	41	42.8		
0	860.70	104	103	1.93	1722.53	1716	14	47.6		TL-208
0	910.80*	590	97	1.42	1822.82	1816	15	11.1		AC-228
0	934.15	46	81	1.33	1869.56	1864	10	80.0		BI-214
4	964.48	81	79	1.90	1930.29	1922	22	49.2	8.78E-01	AC-228
4	968.47*	314	76	1.62	1938.28	1922	22	15.5		AC-228
0	1070.23	42	26	1.01	2141.98	2138	8	52.0		
0	1119.75	264	85	1.96	2241.11	2235	13	18.9		BI-214
0	1237.80	107	100	1.08	2477.42	2467	19	48.6		BI-214
0	1281.81	59	51	1.93	2565.51	2556	19	63.9		BI-214
0	1377.03	99	31	2.08	2756.10	2748	16	32.5		BI-214
0	1459.99*	826	75	1.96	2922.14	2913	19	8.7		K-40
0	1509.31	48	33	1.00	3020.85	3010	22	67.5		BI-214
0	1728.79	41	13	2.41	3460.15	3453	13	47.9		BI-214
0	1763.57*	237	16	2.30	3529.74	3519	21	15.7		BI-214
0	1846.07	36	11	2.83	3694.86	3689	13	49.5		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.96	148	581	0.81	179.36	177	12	1.37E-02	50.4	2.33E+00	
3	92.96	295	783	1.14	185.37	177	12	2.73E-02	34.6	2.43E+00	T
0	185.91	322	858	1.09	371.49	367	10	2.99E-02	36.5	3.03E+00	
3	241.03	267	411	1.26	481.87	471	17	2.47E-02	38.8	2.64E+00	
5	327.26	120	195	1.80	654.52	651	9	1.11E-02	44.1	2.11E+00	
5	328.01	68	197	1.22	656.02	651	9	6.29E-03	78.3	2.11E+00	
0	799.99	257	242	11.99	1600.99	1582	41	2.38E-02	42.8	1.06E+00	
0	1070.23	42	26	1.01	2141.98	2138	8	3.90E-03	52.0	8.75E-01	
0	1846.07	36	11	2.83	3694.86	3689	13	3.32E-03	49.5	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.461E+00	6.023E-01	2.238E-01	1.527E-02	24.406
TL-208	3.452E-01	5.297E-02	2.817E-02	2.827E-03	12.254
BI-212	6.968E-01	2.055E-01	1.969E-01	1.894E-02	3.538
PB-212	1.015E+00	9.275E-02	4.237E-02	3.270E-03	23.958
BI-214	1.008E+00	1.300E-01	4.830E-02	4.920E-03	20.880
PB-214	1.130E+00	1.178E-01	4.882E-02	3.852E-03	23.143
RA-223	3.535E-01	1.313E-01	1.357E-01	1.249E-02	2.604
AC-228	1.172E+00	1.454E-01	8.767E-02	4.845E-03	13.374
NP-237	6.794E-01	2.032E-01	2.284E-01	3.303E-02	2.975
AM-243	2.133E-01	5.930E-02	4.959E-02	1.040E-02	4.301

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.283E-03		1.464E-02	2.217E-02	1.446E-03	0.329
RH-101	1.208E-03		1.625E-02	2.685E-02	4.165E-03	0.045
SB-125	4.332E-02		3.931E-02	7.058E-02	5.788E-03	0.614
CS-137	4.301E-05		1.623E-02	2.861E-02	3.074E-03	0.002
EU-155	5.191E-02		5.800E-02	1.001E-01	9.942E-03	0.518
PO-209	7.544E-01		2.759E+00	4.920E+00	8.805E-01	0.153
BI-211	1.119E-01		4.316E-01	7.654E-01	5.576E-02	0.146
PA-233	-2.642E-02		2.690E-02	4.461E-02	3.746E-03	-0.592
PA-234M	7.436E-01		1.573E+00	2.845E+00	1.635E-01	0.261
TH-234	1.125E+00	+	4.109E-01	5.824E-01	6.794E-02	1.932
U-235	7.315E-02		1.007E-01	1.702E-01	1.189E-02	0.430
NP-236	4.912E-02		3.409E-02	5.939E-02	6.524E-03	0.827
NP-239	4.458E-02		1.045E-01	1.726E-01	2.328E-02	0.258
AM-241	-3.639E-02		9.056E-02	1.550E-01	1.233E-02	-0.235
CM-243	-2.104E-02		5.214E-02	8.709E-02	9.925E-03	-0.242
AM-246	7.327E-03		5.079E-02	8.888E-02	1.094E-02	0.082
CF-249	1.408E-03		1.711E-02	2.947E-02	2.843E-03	0.048

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 21:37:48

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792605_GAMMA2_400MLSAN_17047.CNF

---- Sample Information ----

Sample ID	: OH207-7926-05		
Sample Title	: SB-CZ-SS-2177-SD		
Sample Quantity	: 3.95700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17047		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 18:37:27.
Decay time	: 44 18:37:27.74	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.65

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mowe Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.80	660	721	1.05	149.18	143	15	15.1	2.18E+00	AM-243
										PB-214
										PB-212
3	77.07	1026	737	0.98	153.71	143	15	10.5		PB-214
										PB-212
4	87.18*	442	906	1.29	173.84	170	21	24.6	3.47E+00	NP-237
										PB-214
										PB-212
4	89.94*	281	823	1.35	179.33	170	21	37.9		
4	92.89*	507	723	1.39	185.20	170	21	22.0		
0	128.69	229	845	1.61	256.48	252	10	49.4		AC-228
0	186.14*	456	912	1.12	370.89	364	13	29.4		
0	209.50	276	614	1.10	417.42	413	10	35.9		AC-228
5	238.76*	2527	419	1.09	475.70	471	16	4.7	4.06E+00	PB-212
5	241.76	695	554	1.81	481.68	471	16	19.6		PB-214
0	270.40*	220	465	1.14	538.72	533	11	40.5		RA-223
										AC-228
0	278.01	127	412	1.33	553.89	549	10	63.0		TL-208
0	295.34*	714	407	1.11	588.41	583	10	13.1		PB-214
0	300.42	168	372	1.62	598.55	594	9	44.4		PB-212
0	328.26	217	398	1.28	654.01	648	13	40.3		
0	338.56*	478	344	1.23	674.52	670	10	17.3		AC-228
0	352.09*	1336	317	1.29	701.48	695	12	7.7		PB-214
0	410.38	102	187	1.24	817.66	813	10	54.6		AC-228
0	463.03	188	224	1.26	922.60	916	13	36.0		AC-228
0	511.26*	350	325	1.83	1018.73	1010	19	28.3		TL-208
0	583.25*	854	176	1.52	1162.27	1154	13	9.4		TL-208
0	609.46*	965	176	1.53	1214.55	1208	14	8.8		BI-214
0	661.79	51	131	1.36	1318.92	1314	10	89.2		CS-137
0	727.31	214	76	1.50	1449.61	1445	9	20.1		BI-212
0	767.50	128	136	2.21	1529.80	1523	15	43.3		BI-214
0	795.37	84	90	1.16	1585.41	1579	12	50.7		AC-228
0	835.86	59	60	1.91	1666.20	1662	9	55.1		
0	860.50*	81	74	1.68	1715.38	1709	11	47.6		TL-208
0	911.07*	583	66	1.61	1816.30	1809	13	10.2		AC-228
1	964.52	133	69	1.85	1923.01	1916	24	29.0	1.03E+00	AC-228
1	968.85*	346	55	1.93	1931.65	1916	24	14.4		AC-228
0	1120.13*	197	77	1.29	2233.75	2227	14	23.9		BI-214
0	1237.52	90	50	1.82	2468.26	2463	16	40.4		BI-214
0	1376.97	76	56	2.56	2746.96	2735	26	56.8		BI-214
0	1459.73*	670	67	2.10	2912.42	2905	18	9.9		K-40
7	1586.55*	54	17	2.40	3166.04	3161	19	40.3	9.29E-01	AC-228
0	1762.53*	135	27	1.60	3518.14	3509	18	25.6		BI-214
0	1845.53	43	4	2.46	3684.29	3678	15	36.6		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.94	281	823	1.35	179.33	170	21	2.60E-02	37.9	2.61E+00	
4	92.89	507	723	1.39	185.20	170	21	4.69E-02	22.0	2.71E+00	T
0	186.14	456	912	1.12	370.89	364	13	4.23E-02	29.4	3.21E+00	
0	328.26	217	398	1.28	654.01	648	13	2.01E-02	40.3	2.20E+00	
0	835.86	59	60	1.91	1666.20	1662	9	5.43E-03	55.1	1.01E+00	
0	1845.53	43	4	2.46	3684.29	3678	15	3.96E-03	36.6	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.891E+00	6.934E-01	2.912E-01	1.874E-02	20.231
CS-137	3.111E-02	2.798E-02	3.556E-02	4.046E-03	0.875
TL-208	4.739E-01	6.648E-02	3.125E-02	3.254E-03	15.168
BI-212	1.015E+00	2.324E-01	2.392E-01	2.615E-02	4.241
PB-212	1.318E+00	1.181E-01	5.100E-02	3.897E-03	25.839
BI-214	1.018E+00	1.404E-01	5.802E-02	6.178E-03	17.546
PB-214	1.083E+00	1.177E-01	6.043E-02	4.633E-03	17.924
RA-223	3.955E-01	1.639E-01	1.569E-01	1.396E-02	2.521
AC-228	1.505E+00	2.012E-01	1.051E-01	9.131E-03	14.320
NP-237	9.099E-01	2.516E-01	2.898E-01	3.642E-02	3.140
AM-243	3.142E-01	7.866E-02	6.207E-02	1.237E-02	5.062

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.935E-03		1.800E-02	2.778E-02	1.616E-03	-0.070
RH-101	3.837E-03		1.957E-02	3.185E-02	4.973E-03	0.120
SB-125	-1.891E-03		4.865E-02	8.233E-02	6.750E-03	-0.023
EU-155	6.717E-02		6.895E-02	1.178E-01	1.103E-02	0.570
PO-209	2.118E-01		3.925E+00	6.817E+00	1.307E+00	0.031
BI-211	6.660E-01		5.545E-01	9.361E-01	9.163E-02	0.711
PA-233	3.333E-02		3.253E-02	5.799E-02	4.671E-03	0.575
PA-234M	2.963E+00		2.126E+00	4.067E+00	3.175E-01	0.729
TH-234	2.196E+00	+	5.308E-01	7.128E-01	7.130E-02	3.081
U-235	4.037E-02		1.252E-01	2.063E-01	1.506E-02	0.196
NP-236	4.917E-02		4.161E-02	6.850E-02	6.809E-03	0.718
NP-239	-4.536E-02		1.191E-01	2.037E-01	2.749E-02	-0.223
AM-241	-7.429E-02		1.074E-01	1.794E-01	1.177E-02	-0.414
CM-243	-2.746E-03		6.195E-02	1.034E-01	1.117E-02	-0.027
AM-246	-6.519E-03		6.354E-02	1.087E-01	1.390E-02	-0.060
CF-249	2.647E-02		2.102E-02	3.757E-02	3.599E-03	0.705

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 7-NOV-2007 21:39:17

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792606_GAMMA3_400MLSAN_17048.CNF

---- Sample Information ----

Sample ID	: OH207-7926-06		
Sample Title	: SB-CZ-SS-2178-SD		
Sample Quantity	: 4.56700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17048		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 18:39:00.
Decay time	: 44 18:39:00.46	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.27

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mead Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.36*	212	1063	1.05	140.74	136	11	63.2		TH-234
4	74.90*	1159	1625	1.92	166.33	158	21	16.7	3.29E+00	AM-243
										PB-214
										PB-212
4	77.19*	1612	1086	1.38	171.41	158	21	9.4		PB-214
										PB-212
4	87.28	678	1079	1.55	193.77	181	34	19.4	3.13E+00	NP-237
										PB-214
										PB-212
4	89.98	360	786	1.21	199.76	181	34	29.8		
4	92.76*	685	973	1.67	205.93	181	34	21.5		TH-234
0	129.42	193	787	1.20	287.19	283	9	54.6		AC-228
0	185.67*	536	1024	1.66	411.86	404	15	27.9		
0	209.38	179	704	1.09	464.42	459	11	59.7		AC-228
1	238.67*	2781	416	1.42	529.34	522	26	4.7	2.58E+00	PB-212
1	241.67	528	459	1.68	535.98	522	26	23.2		PB-214
0	270.23	249	421	1.44	599.29	594	11	34.3		RA-223
										AC-228
0	277.37	126	344	1.41	615.11	611	9	56.3		TL-208
0	295.28	765	391	1.51	654.81	650	11	12.4		PB-214
0	300.42	229	432	1.67	666.21	661	14	41.0		PB-212
0	327.93	134	356	1.05	727.18	723	11	57.3		
0	338.46*	569	362	1.48	750.52	745	12	15.9		AC-228
0	352.02*	1395	333	1.56	780.57	774	14	7.7		PB-214
0	463.40	131	335	2.05	1027.44	1017	17	66.6		AC-228
0	510.55*	223	254	1.79	1131.95	1124	15	36.6		TL-208
0	583.17*	826	231	1.47	1292.90	1285	17	11.0		TL-208
0	609.26*	1053	195	1.84	1350.74	1341	21	9.1		BI-214
0	726.93	186	159	1.81	1611.51	1603	16	33.8		BI-212
0	769.76	165	190	5.35	1706.45	1696	25	47.9		BI-214
0	795.14	108	120	1.05	1762.70	1756	13	46.1		AC-228
0	860.74	116	104	1.58	1908.07	1901	15	42.6		TL-208
0	911.14*	563	95	1.91	2019.78	2011	16	11.3		AC-228
2	964.64	129	42	2.44	2138.35	2131	27	31.5	1.29E+00	AC-228
2	968.92	357	57	1.80	2147.83	2131	27	13.5		AC-228
0	1120.39*	200	120	2.03	2483.51	2475	21	31.1		BI-214
0	1377.27	91	47	4.67	3052.78	3044	17	40.2		BI-214
0	1460.80*	807	47	2.15	3237.87	3226	24	8.5		K-40
6	1507.12	12	6	1.49	3340.50	3338	21	82.0	2.01E+00	
6	1509.60	62	15	2.26	3346.00	3338	21	35.2		BI-214
0	1729.63	30	20	1.62	3833.58	3826	13	71.9		BI-214
0	1764.69*	135	22	1.58	3911.26	3905	16	24.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.98	360	786	1.21	199.76	181	34	3.33E-02	29.8	3.55E+00	
0	185.67	536	1024	1.66	411.86	404	15	4.96E-02	27.9	2.82E+00	
0	327.93	134	356	1.05	727.18	723	11	1.24E-02	57.3	1.90E+00	
6	1507.12	12	6	1.49	3340.50	3338	21	1.08E-03	82.0	5.46E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	7.431E+00	7.682E-01	2.935E-01	1.727E-02	25.318
TL-208	4.578E-01	6.234E-02	3.542E-02	2.819E-03	12.927
BI-212	8.897E-01	3.076E-01	2.624E-01	1.905E-02	3.390
PB-212	1.465E+00	1.294E-01	5.713E-02	4.270E-03	25.639
BI-214	1.111E+00	1.318E-01	6.185E-02	4.713E-03	17.957
PB-214	1.135E+00	1.260E-01	6.447E-02	5.129E-03	17.605
RA-223	4.529E-01	1.603E-01	1.716E-01	1.519E-02	2.640
AC-228	1.488E+00	1.982E-01	1.143E-01	8.038E-03	13.018
TH-234	1.954E+00	4.558E-01	4.073E-01	3.646E-02	4.798
NP-237	8.434E-01	1.886E-01	1.770E-01	1.973E-02	4.766
AM-243	2.665E-01	6.780E-02	3.561E-02	6.849E-03	7.484

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.466E-03		2.226E-02	3.489E-02	1.850E-03	-0.214
RH-101	-2.867E-03		2.118E-02	3.549E-02	5.478E-03	-0.081
SB-125	1.665E-02		5.543E-02	9.712E-02	8.029E-03	0.171
CS-137	3.121E-02		2.368E-02	4.282E-02	3.083E-03	0.729
EU-155	9.127E-03		6.116E-02	1.053E-01	9.906E-03	0.087
PO-209	1.390E+00		3.963E+00	7.146E+00	1.317E+00	0.195
BI-211	-4.744E-01		6.135E-01	9.869E-01	7.107E-02	-0.481
PA-233	-1.192E-02		3.868E-02	6.381E-02	5.207E-03	-0.187
PA-234M	2.040E-01		2.380E+00	4.190E+00	2.861E-01	0.049
U-235	-4.503E-02		1.310E-01	2.211E-01	1.641E-02	-0.204
NP-236	4.670E-02		3.981E-02	5.844E-02	5.577E-03	0.799
NP-239	1.012E-02		1.383E-01	2.330E-01	3.117E-02	0.043
AM-241	5.832E-02		4.227E-02	6.383E-02	4.039E-03	0.914
CM-243	-6.819E-02		5.657E-02	9.377E-02	1.010E-02	-0.727
AM-246	8.397E-02		7.454E-02	1.394E-01	1.760E-02	0.602
CF-249	2.251E-03		2.386E-02	4.154E-02	4.138E-03	0.054

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 00:34:58

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792607_GAMMA1_400MLSAN_17049.CNF

---- Sample Information ----

Sample ID	: OH207-7926-07		
Sample Title	: SB-CZ-SS-2179-SD		
Sample Quantity	: 4.16300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17049		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 21:34:37.
Decay time	: 44 21:34:37.28	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.93

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.32*	97	715	1.46	126.01	122	9	102.7		TH-234
2	74.90	511	634	1.12	149.22	143	15	18.9	2.27E+00	AM-243
										PB-214
										PB-212
2	77.21*	792	550	0.94	153.83	143	15	11.9		PB-214
										PB-212
4	87.31	384	739	1.32	174.06	165	26	26.3	1.26E+00	NP-237
										PB-214
										PB-212
4	90.04	233	535	0.94	179.53	165	26	34.2		
4	93.01*	338	690	1.38	185.48	165	26	30.5		TH-234
0	185.91*	324	811	1.24	371.50	367	10	35.4		
0	209.21	168	597	1.13	418.16	414	9	54.8		AC-228
4	238.60*	2128	413	1.09	476.99	472	17	5.4	2.02E+00	PB-212
4	241.66	608	514	1.62	483.13	472	17	18.5		PB-214
2	269.26	42	234	1.18	538.40	536	10	118.4	3.35E+00	RA-223
2	270.30	151	314	1.23	540.49	536	10	42.8		AC-228
0	277.56	104	431	0.80	555.01	550	10	77.3		TL-208
2	295.16	916	261	1.11	590.25	584	21	8.8	9.27E-01	PB-214
2	300.03	199	225	1.22	600.01	584	21	29.5		PB-212
0	328.32	156	376	1.87	656.66	650	12	52.2		
0	338.21*	448	282	1.21	676.45	672	9	16.6		AC-228
0	351.78*	1550	327	1.26	703.63	698	11	6.8		PB-214
0	463.21	119	203	1.51	926.74	922	11	49.8		AC-228
0	510.61*	278	262	1.63	1021.63	1015	16	30.8		TL-208
0	582.98*	722	162	1.34	1166.54	1161	12	10.4		TL-208
0	609.05*	1140	155	1.54	1218.72	1214	12	7.4		BI-214
0	661.13	315	239	1.40	1322.99	1318	13	22.9		CS-137
0	726.99	185	110	1.13	1454.85	1449	13	27.8		BI-212
0	767.43	124	117	1.97	1535.81	1530	12	39.4		BI-214
0	781.77	34	69	1.57	1564.52	1561	8	89.6		
0	785.59	55	55	1.13	1572.17	1569	7	52.4		BI-212
0	795.38	66	96	1.46	1591.75	1585	11	63.4		AC-228
0	860.37	108	77	1.46	1721.87	1716	13	38.9		TL-208
0	910.85*	539	96	1.68	1822.93	1816	16	12.1		AC-228
0	933.59	83	64	1.47	1868.46	1863	13	45.5		BI-214
3	964.29	95	99	2.26	1929.91	1923	27	48.6	7.73E-01	AC-228
3	968.57*	323	60	1.75	1938.47	1923	27	14.6		AC-228
0	1119.73	276	72	1.91	2241.06	2235	12	17.2		BI-214
0	1237.33	117	61	2.40	2476.48	2470	13	33.2		BI-214
0	1377.12	54	49	2.48	2756.28	2750	14	62.8		BI-214
0	1460.02*	775	63	2.18	2922.21	2911	23	9.0		K-40
0	1728.44	52	16	3.01	3459.44	3453	13	42.3		BI-214
0	1763.42*	254	10	2.55	3529.44	3522	19	14.0		BI-214
0	1846.10	46	22	1.39	3694.92	3687	15	53.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.04	233	535	0.94	179.53	165	26	2.16E-02	34.2	2.33E+00	
0	185.91	324	811	1.24	371.50	367	10	3.00E-02	35.4	3.03E+00	
0	328.32	156	376	1.87	656.66	650	12	1.45E-02	52.2	2.10E+00	
0	781.77	34	69	1.57	1564.52	1561	8	3.19E-03	89.6	1.08E+00	
0	1846.10	46	22	1.39	3694.92	3687	15	4.25E-03	53.8	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.178E+00	6.984E-01	2.186E-01	1.492E-02	28.264
CS-137	1.843E-01	4.659E-02	3.396E-02	3.649E-03	5.426
TL-208	3.858E-01	5.578E-02	2.984E-02	2.995E-03	12.927
BI-212	8.321E-01	2.451E-01	2.093E-01	2.013E-02	3.976
PB-212	1.111E+00	1.047E-01	4.895E-02	3.778E-03	22.703
BI-214	1.154E+00	1.453E-01	5.664E-02	5.769E-03	20.366
PB-214	1.246E+00	1.300E-01	6.059E-02	4.781E-03	20.558
RA-223	7.556E-02	8.970E-02	1.559E-01	1.434E-02	0.485
AC-228	1.292E+00	1.723E-01	1.012E-01	5.591E-03	12.773
TH-234	1.553E+00	5.071E-01	5.034E-01	5.873E-02	3.085
NP-237	8.480E-01	2.546E-01	2.407E-01	3.480E-02	3.523
AM-243	2.697E-01	7.612E-02	6.064E-02	1.272E-02	4.447

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.335E-03		1.783E-02	2.729E-02	1.781E-03	0.159
RH-101	-1.255E-03		1.869E-02	3.081E-02	4.779E-03	-0.041
SB-125	-9.878E-03		4.720E-02	7.987E-02	6.550E-03	-0.124
EU-155	2.530E-02		6.598E-02	1.129E-01	1.121E-02	0.224
PO-209	-1.154E+00		3.390E+00	5.768E+00	1.032E+00	-0.200
BI-211	-5.839E-01		5.169E-01	8.326E-01	6.066E-02	-0.701
PA-233	-1.835E-03		3.055E-02	5.291E-02	4.443E-03	-0.035
PA-234M	2.437E+00		1.946E+00	3.696E+00	2.125E-01	0.659
U-235	7.502E-02		1.196E-01	2.019E-01	1.410E-02	0.372
NP-236	4.100E-02		3.983E-02	6.641E-02	7.295E-03	0.617
NP-239	-6.355E-02		1.232E-01	1.964E-01	2.650E-02	-0.324
AM-241	4.716E-02		1.195E-01	1.894E-01	1.505E-02	0.249
CM-243	-1.836E-02		6.007E-02	1.008E-01	1.148E-02	-0.182
AM-246	1.089E-02		5.443E-02	9.658E-02	1.189E-02	0.113
CF-249	1.828E-02		2.121E-02	3.760E-02	3.627E-03	0.486

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 00:39:59

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792608_GAMMA2_400MLSAN_17050.CNF

---- Sample Information ----

Sample ID	: OH207-7926-08
Sample Title	: SB-CZ-SS-2180-SD
Sample Quantity	: 3.98900E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17050

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 21:39:26.
Decay time	: 44 21:39:26.29	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.69

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.88	509	848	1.14	149.35	145	20	21.0	8.08E-01	AM-243
										PB-214
										PB-212
3	77.03	928	677	1.01	153.62	145	20	11.2		PB-214
										PB-212
4	87.15*	559	805	1.33	173.77	164	30	19.4	1.31E+00	NP-237
										PB-214
										PB-212
4	89.97*	335	761	1.32	179.38	164	30	31.4		
4	92.88*	492	795	1.49	185.19	164	30	24.0		
0	128.64	172	831	0.82	256.39	252	9	62.3		AC-228
0	154.29	101	769	1.37	307.46	302	9	101.4		
0	186.01*	272	711	1.19	370.64	367	9	38.6		
0	209.32	243	623	1.35	417.07	413	9	39.3		AC-228
6	238.77*	2499	426	1.08	475.72	471	15	4.7	5.43E+00	PB-212
6	241.22	258	386	1.35	480.61	471	15	38.5		
6	242.11	373	375	1.36	482.37	471	15	24.2		PB-214
0	270.19*	302	447	1.31	538.31	532	13	31.2		RA-223
										AC-228
0	277.18	95	386	0.93	552.25	548	9	76.8		TL-208
0	295.33*	690	391	1.24	588.40	583	11	13.5		PB-214
0	300.26	153	326	1.16	598.22	594	9	45.7		PB-212
0	328.24	147	329	1.36	653.97	649	10	49.3		
0	338.61*	593	383	1.17	674.62	670	12	15.5		AC-228
0	352.05*	1220	323	1.31	701.42	694	12	8.3		PB-214
0	409.25	49	244	1.00	815.41	812	9	117.3		AC-228
0	462.94	214	212	1.26	922.41	916	13	31.1		AC-228
0	511.21*	222	337	1.73	1018.63	1012	17	43.0		TL-208
0	583.29*	846	160	1.42	1162.36	1157	12	9.2		TL-208
0	609.44*	838	173	1.38	1214.51	1209	12	9.5		BI-214
0	662.00	62	138	0.95	1319.33	1314	10	74.9		CS-137
0	727.84	247	153	1.75	1450.66	1444	17	26.7		BI-212
0	769.39	109	154	4.64	1533.55	1525	17	55.4		BI-214
0	794.44	166	59	1.60	1583.55	1575	15	25.6		AC-228
0	835.21	40	93	1.71	1664.90	1662	10	95.0		
0	860.45*	92	73	1.62	1715.28	1711	10	41.1		TL-208
0	911.16*	560	77	1.78	1816.49	1810	14	10.9		AC-228
0	934.68	30	70	1.09	1863.44	1858	10	108.8		BI-214
2	964.78	122	48	1.95	1923.53	1916	24	30.9	1.41E+00	AC-228
2	968.73*	319	44	1.80	1931.41	1916	24	14.3		AC-228
0	1120.27*	191	63	1.94	2234.03	2227	13	22.8		BI-214
0	1237.50	98	79	1.33	2468.21	2460	15	44.2		BI-214
0	1459.77*	683	64	2.08	2912.51	2903	20	9.7		K-40
0	1762.62*	185	9	1.70	3518.33	3512	15	16.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.97	335	761	1.32	179.38	164	30	3.10E-02	31.4	2.61E+00	
4	92.88	492	795	1.49	185.19	164	30	4.55E-02	24.0	2.71E+00	T
0	154.29	101	769	1.37	307.46	302	9	9.31E-03	****	3.38E+00	
0	186.01	272	711	1.19	370.64	367	9	2.52E-02	38.6	3.21E+00	
6	241.22	258	386	1.35	480.61	471	15	2.39E-02	38.5	2.78E+00	
0	328.24	147	329	1.36	653.97	649	10	1.36E-02	49.3	2.20E+00	
0	835.21	40	93	1.71	1664.90	1662	10	3.69E-03	95.0	1.01E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.956E+00	6.943E-01	2.696E-01	1.736E-02	22.090
CS-137	3.783E-02	2.867E-02	3.505E-02	3.988E-03	1.079
TL-208	4.659E-01	6.481E-02	3.221E-02	3.354E-03	14.464
BI-212	1.163E+00	3.356E-01	2.331E-01	2.549E-02	4.990
PB-212	1.292E+00	1.160E-01	5.123E-02	3.915E-03	25.228
BI-214	8.763E-01	1.248E-01	6.194E-02	6.595E-03	14.148
PB-214	9.812E-01	1.108E-01	6.078E-02	4.660E-03	16.145
RA-223	5.386E-01	1.746E-01	1.462E-01	1.301E-02	3.684
AC-228	1.433E+00	2.000E-01	1.086E-01	9.439E-03	13.191
NP-237	1.142E+00	2.642E-01	2.289E-01	2.877E-02	4.988
AM-243	2.404E-01	6.959E-02	6.017E-02	1.199E-02	3.995

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.447E-03		1.756E-02	2.823E-02	1.642E-03	0.122
RH-101	-2.041E-02		1.973E-02	3.038E-02	4.743E-03	-0.672
SB-125	2.393E-02		5.078E-02	8.783E-02	7.201E-03	0.272
EU-155	9.858E-02		7.030E-02	1.209E-01	1.132E-02	0.816
PO-209	-4.929E-01		3.450E+00	5.943E+00	1.139E+00	-0.083
BI-211	4.197E-01		5.707E-01	9.234E-01	9.039E-02	0.455
PA-233	6.416E-03		3.357E-02	5.800E-02	4.672E-03	0.111
PA-234M	1.025E+00		2.107E+00	3.805E+00	2.970E-01	0.270
TH-234	2.114E+00	+	5.494E-01	6.878E-01	6.879E-02	3.073
U-235	4.026E-02		1.250E-01	2.060E-01	1.504E-02	0.195
NP-236	2.727E-02		4.226E-02	6.477E-02	6.439E-03	0.421
NP-239	-4.410E-02		1.179E-01	2.018E-01	2.723E-02	-0.219
AM-241	-3.257E-02		1.017E-01	1.719E-01	1.128E-02	-0.189
CM-243	2.770E-02		6.236E-02	1.054E-01	1.139E-02	0.263
AM-246	6.780E-02		6.166E-02	1.155E-01	1.477E-02	0.587
CF-249	2.659E-02		2.126E-02	3.792E-02	3.633E-03	0.701

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 00:41:16

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792609_GAMMA3_400MLSAN_17051.CNF

---- Sample Information ----

Sample ID	: OH207-7926-09		
Sample Title	: SB-CZ-SS-2181-SD		
Sample Quantity	: 5.47300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17051		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 7-NOV-2007 21:40:52.
Decay time	: 44 21:40:52.08	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.17

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.85663E+00 a3=8.12782E-01 a4=8.53513E-02
a5=-4.88423E-02 a6=-7.49502E-03 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mast Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.88*	644	990	1.44	166.29	160	18	20.9	3.08E+00	AM-243
										PB-214
										PB-212
1	77.10*	1237	965	1.45	171.20	160	18	11.6		PB-214
										PB-212
3	87.22	439	900	1.28	193.64	181	33	26.0	1.78E+00	NP-237
										PB-214
										PB-212
3	89.88	214	929	1.50	199.54	181	33	57.3		
3	92.84*	591	930	1.61	206.10	181	33	23.7		
0	129.15	126	727	1.60	286.57	283	9	79.2		AC-228
0	185.90*	414	860	1.25	412.38	406	13	31.4		
0	209.83	139	789	1.28	465.41	457	12	82.9		AC-228
3	238.72*	2160	490	1.45	529.45	520	22	5.9	1.28E+00	PB-212
3	241.69	554	553	1.74	536.03	520	22	22.5		PB-214
0	270.06	280	537	1.52	598.91	591	16	38.9		RA-223
										AC-228
0	295.31	832	379	1.48	654.87	649	13	11.9		PB-214
0	300.69	195	321	1.83	666.81	662	13	40.8		PB-212
0	328.04	157	303	1.06	727.43	723	11	45.8		
0	338.52*	450	372	1.47	750.65	744	13	20.2		AC-228
0	351.97*	1414	419	1.47	780.47	773	16	8.4		PB-214
0	409.70	54	207	0.91	908.42	903	11	108.9		AC-228
0	463.03	127	156	1.18	1026.62	1022	10	41.0		AC-228
0	510.73*	214	197	2.37	1132.34	1124	15	35.0		TL-208
0	583.11*	663	184	1.66	1292.76	1284	16	12.1		TL-208
0	609.20*	1001	201	1.86	1350.60	1343	15	8.9		BI-214
0	727.16	147	87	1.68	1612.03	1605	13	31.0		BI-212
0	768.19	94	140	1.68	1702.96	1694	16	60.0		BI-214
0	860.99	92	100	2.01	1908.64	1900	19	57.3		TL-208
0	911.16*	473	57	1.69	2019.82	2012	14	11.5		AC-228
1	964.28	93	68	2.01	2137.55	2131	24	41.4	1.90E+00	AC-228
1	968.96	280	63	2.14	2147.93	2131	24	17.0		AC-228
0	1120.27*	221	64	1.65	2483.24	2475	17	21.6		BI-214
0	1238.77	91	72	1.92	2745.84	2738	20	49.6		BI-214
0	1460.72*	409	66	2.12	3237.70	3228	19	14.1		K-40
0	1730.10	29	23	2.53	3834.61	3826	13	77.0		BI-214
0	1764.44*	149	11	2.17	3910.70	3903	21	20.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.88	214	929	1.50	199.54	181	33	1.98E-02	57.3	3.55E+00	
3	92.84	591	930	1.61	206.10	181	33	5.47E-02	23.7	3.55E+00	T
0	185.90	414	860	1.25	412.38	406	13	3.84E-02	31.4	2.82E+00	
0	328.04	157	303	1.06	727.43	723	11	1.46E-02	45.8	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.140E+00	4.784E-01	2.538E-01	1.494E-02	12.371
TL-208	3.066E-01	4.447E-02	2.762E-02	2.198E-03	11.103
BI-212	5.871E-01	1.871E-01	2.361E-01	1.714E-02	2.486
PB-212	9.493E-01	9.035E-02	4.591E-02	3.432E-03	20.679
BI-214	8.808E-01	1.033E-01	5.524E-02	4.209E-03	15.946
PB-214	9.601E-01	1.112E-01	5.819E-02	4.629E-03	16.501
RA-223	4.242E-01	1.691E-01	1.427E-01	1.263E-02	2.973
AC-228	1.044E+00	1.410E-01	1.001E-01	7.041E-03	10.421
NP-237	4.557E-01	1.289E-01	1.407E-01	1.569E-02	3.238
AM-243	1.235E-01	3.510E-02	2.726E-02	5.242E-03	4.532

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	9.695E-03		1.678E-02	2.593E-02	1.375E-03	0.374
RH-101	-1.327E-03		1.716E-02	2.881E-02	4.447E-03	-0.046
SB-125	-7.958E-03		4.359E-02	7.503E-02	6.203E-03	-0.106
CS-137	4.436E-03		1.723E-02	2.998E-02	2.159E-03	0.148
EU-155	4.691E-02		5.006E-02	8.743E-02	8.221E-03	0.537
PO-209	3.097E+00		3.220E+00	5.969E+00	1.100E+00	0.519
BI-211	-1.751E-01		5.117E-01	8.491E-01	6.115E-02	-0.206
PA-233	-9.689E-03		3.047E-02	5.030E-02	4.105E-03	-0.193
PA-234M	2.210E+00		2.008E+00	3.755E+00	2.564E-01	0.589
TH-234	1.406E+00	+	3.570E-01	4.353E-01	2.896E-02	3.231
U-235	5.299E-02		1.047E-01	1.801E-01	1.337E-02	0.294
NP-236	1.338E-02		3.167E-02	4.561E-02	4.352E-03	0.293
NP-239	6.225E-03		1.109E-01	1.870E-01	2.501E-02	0.033
AM-241	-7.512E-02		3.176E-02	4.848E-02	3.068E-03	-1.549
CM-243	2.062E-02		4.448E-02	7.716E-02	8.315E-03	0.267
AM-246	4.069E-02		5.423E-02	1.010E-01	1.275E-02	0.403
CF-249	1.534E-02		1.915E-02	3.420E-02	3.406E-03	0.449

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 11:20:55

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792610_GAMMA3_400MLSAN_17057.CNF

---- Sample Information ----

Sample ID	: OH207-7926-10		
Sample Title	: SB-CZ-SS-2182-SD		
Sample Quantity	: 4.40900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17057		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 08:20:41.
Decay time	: 45 08:20:41.27	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.16

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	45.93*	155	589	1.18	102.12	96	12	67.0		
0	63.40*	153	900	1.41	140.84	136	10	78.2		TH-234
1	74.82*	765	906	1.19	166.16	161	17	15.7	2.50E+00	AM-243
										PB-214
										PB-212
1	77.08*	1494	967	1.35	171.17	161	17	9.5		PB-214
										PB-212
0	83.86*	204	749	1.68	186.18	183	8	48.9		
4	87.36	538	765	1.53	193.95	190	24	19.2	2.18E+00	NP-237
										PB-214
										PB-212
4	89.99	292	800	1.39	199.79	190	24	37.8		
4	92.82*	587	874	1.59	206.06	190	24	23.3		TH-234
0	129.26	143	813	1.44	286.82	282	10	76.3		AC-228
0	185.85*	465	718	1.50	412.25	407	12	25.5		
0	209.33	257	734	1.65	464.30	458	13	45.3		AC-228
3	238.67*	2241	469	1.42	529.34	523	24	5.5	1.97E+00	PB-212
3	241.73	569	574	2.04	536.12	523	24	25.5		PB-214
0	270.26	161	455	1.69	599.35	594	11	53.6		RA-223
										AC-228
0	277.38	78	302	1.54	615.14	612	9	83.6		TL-208
2	295.31	828	278	1.58	654.88	650	22	10.2	1.27E+00	PB-214
2	300.21	200	359	1.92	665.74	650	22	41.9		PB-212
0	327.75	105	331	1.74	726.78	721	11	69.8		
0	338.41*	402	404	1.46	750.41	743	13	22.9		AC-228
0	351.93*	1313	341	1.63	780.37	773	16	8.4		PB-214
0	463.04	138	216	1.66	1026.65	1020	14	48.3		AC-228
0	510.61*	210	206	2.31	1132.08	1125	16	36.6		TL-208
0	583.01*	696	148	1.93	1292.54	1283	15	10.9		TL-208
0	609.20*	1014	168	1.77	1350.59	1343	18	8.7		BI-214
0	726.97	109	129	1.79	1611.61	1606	11	44.6		BI-212
0	767.02	91	155	1.06	1700.38	1691	18	67.9		BI-214
0	796.43	74	153	2.26	1765.55	1755	21	88.9		AC-228
0	861.52	112	87	0.82	1909.81	1903	19	44.9		TL-208
0	911.10*	493	97	2.04	2019.69	2011	20	13.3		AC-228
0	934.12	41	81	1.38	2070.72	2063	13	96.4		BI-214
2	964.69	88	56	2.44	2138.45	2130	25	49.8	7.10E-01	AC-228
2	968.77	259	58	1.85	2147.50	2130	25	17.3		AC-228
0	1120.43*	237	88	2.13	2483.59	2476	21	24.0		BI-214
0	1238.13	88	56	0.76	2744.44	2738	16	43.6		BI-214
0	1377.88	76	25	2.45	3054.12	3047	15	37.2		BI-214
0	1460.58*	525	27	2.51	3237.39	3230	17	10.0		K-40
0	1510.31	29	43	2.69	3347.59	3338	20	117.3		BI-214
0	1729.92	42	21	2.03	3834.21	3824	17	59.2		BI-214
0	1764.14*	165	0	2.02	3910.04	3902	18	16.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	45.93	155	589	1.18	102.12	96	12	1.44E-02	67.0	2.74E+00	
0	83.86	204	749	1.68	186.18	183	8	1.89E-02	48.9	3.55E+00	
4	89.99	292	800	1.39	199.79	190	24	2.71E-02	37.8	3.55E+00	
0	185.85	465	718	1.50	412.25	407	12	4.31E-02	25.5	2.82E+00	
0	327.75	105	331	1.74	726.78	721	11	9.72E-03	69.8	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.014E+00	5.827E-01	3.222E-01	1.896E-02	15.560
TL-208	3.996E-01	5.392E-02	3.408E-02	2.713E-03	11.726
BI-212	5.419E-01	2.450E-01	2.697E-01	1.957E-02	2.009
PB-212	1.223E+00	1.137E-01	5.681E-02	4.247E-03	21.524
BI-214	1.108E+00	1.284E-01	6.147E-02	4.683E-03	18.027
PB-214	1.107E+00	1.280E-01	6.639E-02	5.282E-03	16.671
RA-223	3.029E-01	1.646E-01	1.723E-01	1.525E-02	1.758
AC-228	1.351E+00	2.038E-01	1.293E-01	9.089E-03	10.455
TH-234	1.734E+00	4.323E-01	3.990E-01	3.572E-02	4.345
NP-237	6.941E-01	1.543E-01	1.775E-01	1.978E-02	3.911
AM-243	1.823E-01	4.530E-02	3.428E-02	6.592E-03	5.318

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.277E-03		2.106E-02	3.230E-02	1.713E-03	0.132
RH-101	1.677E-04		2.070E-02	3.485E-02	5.378E-03	0.005
SB-125	2.381E-02		5.733E-02	1.009E-01	8.340E-03	0.236
CS-137	8.598E-03		2.337E-02	4.068E-02	2.929E-03	0.211
EU-155	8.549E-02		5.931E-02	1.044E-01	9.820E-03	0.819
PO-209	1.995E+00		4.305E+00	7.776E+00	1.433E+00	0.257
BI-211	-4.699E-01		6.170E-01	9.933E-01	7.154E-02	-0.473
PA-233	1.624E-02		3.708E-02	6.315E-02	5.153E-03	0.257
PA-234M	5.523E-01		2.306E+00	4.120E+00	2.813E-01	0.134
U-235	1.114E-01		1.255E-01	2.178E-01	1.617E-02	0.511
NP-236	7.005E-02		3.926E-02	5.860E-02	5.592E-03	1.195
NP-239	8.839E-02		1.348E-01	2.307E-01	3.086E-02	0.383
AM-241	5.140E-02		3.996E-02	6.055E-02	3.831E-03	0.849
CM-243	4.530E-02		5.341E-02	9.331E-02	1.005E-02	0.485
AM-246	-4.564E-02		7.340E-02	1.226E-01	1.548E-02	-0.372
CF-249	-5.060E-03		2.215E-02	3.821E-02	3.806E-03	-0.132

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 14:41:00

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792611_GAMMA1_400MLSAN_17059.CNF

---- Sample Information ----

Sample ID	: OH207-7926-11		
Sample Title	: SB-CZ-SS-2183-SD		
Sample Quantity	: 3.98600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17059		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 11:40:43.
Decay time	: 45 11:40:43.64	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:03.14

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.29*	138	907	0.94	125.96	121	10	84.3		TH-234
2	74.92	595	700	0.95	149.26	144	14	16.2	2.13E+00	AM-243
										PB-214
										PB-212
2	77.20*	941	661	0.96	153.81	144	14	11.0		PB-214
										PB-212
5	87.27	496	775	1.31	173.98	164	27	21.2	1.70E+00	NP-237
										PB-214
										PB-212
5	90.03	287	657	1.24	179.50	164	27	32.3		
5	92.83*	453	726	1.40	185.12	164	27	23.9		TH-234
0	129.16	237	672	1.15	257.87	255	8	40.0		AC-228
0	185.93*	432	789	1.17	371.53	367	10	26.6		
0	209.37	327	698	1.19	418.47	414	10	32.3		AC-228
1	238.59*	3277	382	1.10	476.98	470	21	4.1	2.55E+00	PB-212
1	240.98	336	395	1.28	481.77	470	21	31.6		
1	241.98	344	388	1.28	483.77	470	21	25.6		PB-214
0	270.21	328	462	1.36	540.29	535	11	27.7		RA-223
										AC-228
0	277.28	109	412	1.06	554.44	550	9	69.6		TL-208
0	295.00	773	415	1.19	589.94	584	12	12.8		PB-214
0	299.84	161	411	0.93	599.63	596	10	49.4		PB-212
0	327.88	167	358	1.03	655.77	651	10	45.0		
0	338.15*	584	444	1.30	676.33	672	11	16.3		AC-228
0	351.77*	1193	349	1.23	703.61	698	12	8.6		PB-214
0	408.88	77	319	1.37	817.96	814	11	92.7		AC-228
0	462.86	250	168	1.44	926.03	922	11	23.7		AC-228
0	510.63*	326	265	1.62	1021.68	1015	16	26.7		TL-208
0	582.89*	1067	172	1.39	1166.35	1159	13	8.0		TL-208
0	609.03*	1002	155	1.45	1218.69	1213	13	8.2		BI-214
0	727.43	235	182	1.45	1455.73	1448	15	28.7		BI-212
0	786.33	102	94	0.86	1573.64	1568	14	45.4		BI-212
0	794.52	176	92	1.73	1590.04	1582	16	28.7		AC-228
0	834.99	62	66	1.57	1671.05	1667	10	54.8		
0	860.10	157	61	1.86	1721.33	1716	11	24.9		TL-208
0	910.75*	748	118	1.75	1822.73	1814	18	10.0		AC-228
0	933.56	73	63	2.33	1868.39	1862	12	49.3		BI-214
0	964.12	133	96	1.55	1929.57	1921	13	35.4		AC-228
0	968.46*	354	103	1.60	1938.26	1934	11	15.5		AC-228
0	1119.77	239	96	1.96	2241.14	2234	17	22.6		BI-214
0	1237.91	113	90	2.47	2477.63	2469	17	43.5		BI-214
0	1377.26	47	42	1.58	2756.57	2751	11	57.7		BI-214
0	1459.97*	780	68	2.00	2922.12	2912	18	8.8		K-40
1	1587.36	36	40	2.20	3177.08	3171	22	72.3	9.81E-01	AC-228
1	1591.80	34	29	2.21	3185.96	3171	22	85.6		
0	1728.84	48	14	2.10	3460.23	3454	17	44.6		BI-214
1	1763.41*	117	12	2.28	3529.42	3523	12	25.0	2.12E+00	
1	1763.99*	23	9	2.29	3530.58	3523	12	121.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	90.03	287	657	1.24	179.50	164	27	2.65E-02	32.3	2.33E+00	
0	185.93	432	789	1.17	371.53	367	10	4.00E-02	26.6	3.03E+00	
1	240.98	336	395	1.28	481.77	470	21	3.11E-02	31.6	2.64E+00	
0	327.88	167	358	1.03	655.77	651	10	1.55E-02	45.0	2.11E+00	
0	834.99	62	66	1.57	1671.05	1667	10	5.75E-03	54.8	1.03E+00	
1	1591.80	34	29	2.21	3185.96	3171	22	3.10E-03	85.6	6.63E-01	
1	1763.41	117	12	2.28	3529.42	3523	12	1.09E-02	25.0	6.10E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.490E+00	7.214E-01	2.776E-01	1.895E-02	23.377
TL-208	5.955E-01	7.634E-02	3.459E-02	3.471E-03	17.217
BI-212	1.101E+00	3.334E-01	2.545E-01	2.448E-02	4.325
PB-212	1.788E+00	1.558E-01	5.202E-02	4.015E-03	34.369
BI-214	1.059E+00	1.388E-01	6.126E-02	6.240E-03	17.290
PB-214	1.001E+00	1.166E-01	6.232E-02	4.917E-03	16.069
RA-223	6.139E-01	1.792E-01	1.611E-01	1.482E-02	3.811
AC-228	1.872E+00	2.146E-01	1.117E-01	6.171E-03	16.764
TH-234	2.175E+00	5.789E-01	5.567E-01	6.495E-02	3.906
NP-237	1.144E+00	2.940E-01	2.661E-01	3.848E-02	4.299
AM-243	3.283E-01	8.695E-02	6.532E-02	1.370E-02	5.025

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.421E-03		2.041E-02	3.034E-02	1.980E-03	-0.212
RH-101	-6.256E-03		2.077E-02	3.388E-02	5.254E-03	-0.185
SB-125	1.263E-02		5.062E-02	8.754E-02	7.179E-03	0.144
CS-137	-1.767E-03		2.070E-02	3.630E-02	3.901E-03	-0.049
EU-155	1.307E-01		7.425E-02	1.297E-01	1.288E-02	1.008
PO-209	-1.562E+00		3.517E+00	5.931E+00	1.062E+00	-0.263
BI-211	1.366E-01		5.731E-01	8.921E-01	6.499E-02	0.153
PA-233	-4.653E-03		3.343E-02	5.761E-02	4.838E-03	-0.081
PA-234M	9.056E-01		2.169E+00	3.874E+00	2.227E-01	0.234
U-235	2.364E-02		1.281E-01	2.136E-01	1.491E-02	0.111
NP-236	3.623E-02		4.479E-02	7.403E-02	8.133E-03	0.489
NP-239	6.583E-02		1.328E-01	2.196E-01	2.963E-02	0.300
AM-241	3.396E-02		1.292E-01	2.034E-01	1.617E-02	0.167
CM-243	-7.581E-02		6.780E-02	1.100E-01	1.254E-02	-0.689
AM-246	6.551E-02		6.304E-02	1.173E-01	1.443E-02	0.559
CF-249	2.419E-02		2.220E-02	3.965E-02	3.824E-03	0.610

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 14:42:29

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792612_GAMMA2_400MLSAN_17060.CNF

---- Sample Information ----

Sample ID	: OH207-7926-12
Sample Title	: SB-CZ-SS-2184-SD
Sample Quantity	: 3.92500E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17060

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 11:41:59.
Decay time	: 45 11:41:59.29	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.72

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Moore Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.89	528	935	1.20	149.36	145	13	21.1	6.53E-01	AM-243
										PB-214
										PB-212
3	77.09	802	762	0.97	153.75	145	13	13.2		PB-214
										PB-212
1	87.18*	399	797	1.10	173.84	161	22	25.6	3.49E+00	NP-237
										PB-214
										PB-212
0	92.86*	324	869	1.19	185.13	182	8	34.3		
0	128.95	115	758	0.91	257.01	254	8	84.7		AC-228
0	185.90*	470	874	1.25	370.42	365	12	27.2		
0	209.60	274	824	1.13	417.62	412	13	44.8		AC-228
2	238.77*	2557	486	1.11	475.72	471	20	4.9	1.13E+00	PB-212
2	241.06	250	434	1.31	480.29	471	20	48.1		
2	242.00	413	355	1.22	482.16	471	20	20.4		PB-214
1	270.00*	131	390	1.38	537.94	534	12	56.6	2.96E+00	RA-223
										AC-228
1	271.16	68	393	1.28	540.25	534	12	109.1		
0	277.58	81	280	1.23	553.04	550	6	69.1		TL-208
0	295.32*	755	518	1.17	588.38	581	13	14.5		PB-214
0	300.38	200	361	1.22	598.45	594	10	38.3		PB-212
0	328.27	102	356	1.38	654.03	650	9	70.0		
0	338.41*	487	497	1.21	674.22	667	14	21.5		AC-228
0	352.08*	1358	376	1.26	701.47	694	13	8.1		PB-214
0	463.08	115	290	1.63	922.70	915	14	65.9		AC-228
0	510.92*	315	291	1.83	1018.06	1010	18	29.3		TL-208
0	583.34*	849	223	1.53	1162.45	1156	15	10.3		TL-208
0	609.39*	913	237	1.33	1214.40	1208	14	9.8		BI-214
0	662.04	63	111	1.33	1319.41	1315	9	65.1		CS-137
0	727.20	202	178	1.48	1449.38	1444	15	32.0		BI-212
0	767.97	107	167	1.55	1530.73	1525	15	56.0		BI-214
0	785.95	89	61	2.04	1566.61	1562	11	40.1		BI-212
0	794.89	99	127	0.93	1584.43	1576	17	55.9		AC-228
0	835.45	39	65	1.16	1665.37	1659	10	83.7		
0	860.68*	79	83	1.37	1715.74	1710	12	52.6		TL-208
0	911.09*	572	97	1.78	1816.35	1811	12	11.0		AC-228
1	964.43	112	48	1.93	1922.83	1917	21	34.8	1.49E+00	AC-228
1	968.68*	329	60	1.80	1931.32	1917	21	14.5		AC-228
0	1120.12*	204	95	1.63	2233.72	2226	17	26.1		BI-214
0	1237.65	94	87	1.63	2468.52	2460	16	49.3		BI-214
0	1376.83	59	28	0.93	2746.68	2742	10	42.3		BI-214
0	1406.10	78	93	12.57	2805.20	2783	37	82.6		BI-214
0	1459.70*	857	59	2.00	2912.36	2902	19	8.1		K-40
0	1728.74	41	15	1.91	3450.53	3443	15	55.5		BI-214
0	1762.27*	169	32	2.03	3517.63	3509	18	22.4		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	92.86	324	869	1.19	185.13	182	8	3.00E-02	34.3	2.71E+00	T
0	185.90	470	874	1.25	370.42	365	12	4.35E-02	27.2	3.21E+00	
2	241.06	250	434	1.31	480.29	471	20	2.32E-02	48.1	2.78E+00	
1	271.16	68	393	1.28	540.25	534	12	6.27E-03	****	2.56E+00	
0	328.27	102	356	1.38	654.03	650	9	9.41E-03	70.0	2.20E+00	
0	835.45	39	65	1.16	1665.37	1659	10	3.61E-03	83.7	1.01E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	7.597E+00	7.882E-01	2.254E-01	1.451E-02	33.708
CS-137	3.900E-02	2.576E-02	3.708E-02	4.218E-03	1.052
TL-208	4.750E-01	6.967E-02	3.224E-02	3.357E-03	14.733
BI-212	9.665E-01	3.265E-01	2.271E-01	2.483E-02	4.255
PB-212	1.344E+00	1.219E-01	5.360E-02	4.096E-03	25.075
BI-214	9.711E-01	1.406E-01	6.586E-02	7.013E-03	14.745
PB-214	1.110E+00	1.235E-01	6.273E-02	4.810E-03	17.691
RA-223	2.366E-01	1.356E-01	1.616E-01	1.438E-02	1.464
AC-228	1.486E+00	2.080E-01	1.228E-01	1.067E-02	12.104
NP-237	8.273E-01	2.359E-01	2.684E-01	3.373E-02	3.082
AM-243	2.536E-01	7.364E-02	6.194E-02	1.235E-02	4.094

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.029E-03		1.989E-02	3.031E-02	1.763E-03	0.166
RH-101	7.634E-05		1.990E-02	3.218E-02	5.024E-03	0.002
SB-125	3.893E-03		5.177E-02	8.792E-02	7.208E-03	0.044
EU-155	8.769E-02		7.150E-02	1.226E-01	1.148E-02	0.715
PO-209	2.022E+00		3.700E+00	6.648E+00	1.275E+00	0.304
BI-211	3.763E-01		5.651E-01	9.117E-01	8.925E-02	0.413
PA-233	-1.448E-02		3.377E-02	5.690E-02	4.583E-03	-0.255
PA-234M	1.943E+00		2.142E+00	3.979E+00	3.106E-01	0.488
TH-234	1.416E+00	+	5.061E-01	6.917E-01	6.918E-02	2.047
U-235	3.102E-02		1.273E-01	2.093E-01	1.528E-02	0.148
NP-236	4.649E-02		4.120E-02	7.066E-02	7.024E-03	0.658
NP-239	5.725E-03		1.256E-01	2.177E-01	2.938E-02	0.026
AM-241	2.773E-02		1.055E-01	1.813E-01	1.189E-02	0.153
CM-243	4.218E-02		6.455E-02	1.095E-01	1.184E-02	0.385
AM-246	7.834E-02		6.874E-02	1.274E-01	1.629E-02	0.615
CF-249	1.752E-02		2.242E-02	3.925E-02	3.761E-03	0.446

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 14:32:48

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792613_GAMMA3_400MLSAN_17058.CNF

---- Sample Information ----

Sample ID	: OH207-7926-13
Sample Title	: SB-CZ-SS-2185-SD
Sample Quantity	: 5.10500E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17058

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 11:32:31.
Decay time	: 45 11:32:31.57	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.24

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.17*	226	1202	1.27	140.32	133	14	68.2		TH-234
1	74.85*	878	1069	1.44	166.22	160	17	16.2	1.46E+00	AM-243
										PB-214
										PB-212
1	77.14*	1283	955	1.28	171.29	160	17	10.9		PB-214
										PB-212
1	87.35	471	1090	1.30	193.94	190	27	26.2	2.50E+00	NP-237
										PB-214
										PB-212
1	89.95	283	1136	1.47	199.70	190	27	46.5		
1	92.82*	395	1048	1.48	206.05	190	27	34.7		TH-234
0	128.78	211	901	1.27	285.77	281	11	56.8		AC-228
0	185.69*	434	857	1.29	411.92	406	12	29.3		
0	209.68	273	777	1.63	465.08	459	13	44.0		AC-228
2	238.66*	2285	474	1.45	529.32	522	21	5.7	1.28E+00	PB-212
2	241.81	601	532	1.85	536.29	522	21	20.8		PB-214
0	270.29	284	510	1.55	599.43	592	15	36.6		RA-223
										AC-228
0	276.69	217	483	2.66	613.62	607	14	45.2		TL-208
0	295.35	803	530	1.55	654.96	646	14	14.0		PB-214
0	300.16	140	366	1.82	665.63	661	10	53.9		PB-212
0	328.49	142	368	1.75	728.43	721	13	58.4		
0	338.68*	413	442	1.45	751.01	745	14	24.0		AC-228
0	351.95*	1545	442	1.41	780.43	772	17	8.1		PB-214
0	463.02	173	210	2.02	1026.61	1019	14	38.6		AC-228
0	510.65*	245	190	1.90	1132.18	1126	15	30.3		TL-208
0	583.06*	696	285	1.64	1292.66	1283	19	14.0		TL-208
0	609.24*	1071	192	1.71	1350.69	1344	17	8.6		BI-214
0	666.41	53	137	1.17	1477.38	1471	13	96.4		
0	727.19	201	134	1.81	1612.10	1606	16	29.2		BI-212
0	768.23	88	159	1.31	1703.06	1697	12	61.0		BI-214
0	794.75	65	123	0.86	1761.82	1756	12	72.8		AC-228
0	861.29	57	122	1.90	1909.30	1903	15	92.2		TL-208
0	911.23*	442	115	1.80	2019.98	2011	17	14.8		AC-228
2	964.72	80	77	2.44	2138.52	2129	27	59.5	6.94E-01	AC-228
2	968.78	317	68	1.84	2147.52	2129	27	15.4		AC-228
0	1120.28*	287	61	1.83	2483.27	2475	18	17.7		BI-214
0	1238.45	78	101	1.79	2745.14	2738	13	58.5		BI-214
0	1377.74	51	45	0.94	3053.82	3044	15	63.8		BI-214
0	1408.49	28	36	1.30	3121.97	3117	13	98.4		BI-214
0	1460.68*	756	37	2.33	3237.60	3229	22	8.5		K-40
1	1587.90*	35	21	2.52	3519.51	3512	30	66.7	1.18E+00	AC-228
1	1591.96*	43	20	2.52	3528.51	3512	30	63.5		
0	1729.39	42	17	1.54	3833.05	3824	17	54.1		BI-214
0	1764.09*	195	4	1.73	3909.94	3900	18	15.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.95	283	1136	1.47	199.70	190	27	2.62E-02	46.5	3.55E+00	
0	185.69	434	857	1.29	411.92	406	12	4.02E-02	29.3	2.82E+00	
0	328.49	142	368	1.75	728.43	721	13	1.31E-02	58.4	1.89E+00	
0	666.41	53	137	1.17	1477.38	1471	13	4.92E-03	96.4	1.04E+00	
1	1591.96	43	20	2.52	3528.51	3512	30	3.94E-03	63.5	5.25E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.228E+00	6.452E-01	2.593E-01	1.526E-02	24.017
TL-208	3.448E-01	5.549E-02	3.338E-02	2.657E-03	10.330
BI-212	8.619E-01	2.595E-01	2.403E-01	1.744E-02	3.587
PB-212	1.077E+00	1.009E-01	5.101E-02	3.813E-03	21.103
BI-214	1.010E+00	1.161E-01	5.749E-02	4.380E-03	17.570
PB-214	1.125E+00	1.275E-01	5.911E-02	4.702E-03	19.031
RA-223	4.613E-01	1.739E-01	1.488E-01	1.317E-02	3.100
AC-228	1.046E+00	1.709E-01	1.100E-01	7.735E-03	9.506
TH-234	1.009E+00	3.613E-01	4.079E-01	3.652E-02	2.473
NP-237	5.240E-01	1.491E-01	1.797E-01	2.003E-02	2.915
AM-243	1.807E-01	4.539E-02	3.000E-02	5.769E-03	6.023

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.303E-03		2.125E-02	2.828E-02	1.500E-03	0.294
RH-101	-6.499E-03		1.883E-02	3.135E-02	4.838E-03	-0.207
SB-125	4.753E-02		4.922E-02	8.831E-02	7.300E-03	0.538
CS-137	-1.053E-02		2.283E-02	3.218E-02	2.316E-03	-0.327
EU-155	9.945E-02		5.412E-02	9.531E-02	8.962E-03	1.043
PO-209	1.550E+00		3.622E+00	6.544E+00	1.206E+00	0.237
BI-211	-2.036E-01		5.524E-01	9.148E-01	6.588E-02	-0.223
PA-233	8.234E-03		3.317E-02	5.601E-02	4.571E-03	0.147
PA-234M	3.431E-01		1.896E+00	3.384E+00	2.311E-01	0.101
U-235	8.582E-02		1.164E-01	2.009E-01	1.491E-02	0.427
NP-236	7.880E-02		3.552E-02	5.320E-02	5.077E-03	1.481
NP-239	-2.718E-02		1.213E-01	2.026E-01	2.711E-02	-0.134
AM-241	2.530E-02		3.620E-02	5.365E-02	3.395E-03	0.472
CM-243	1.779E-02		4.846E-02	8.389E-02	9.040E-03	0.212
AM-246	2.444E-02		6.707E-02	1.204E-01	1.519E-02	0.203
CF-249	6.116E-03		2.075E-02	3.643E-02	3.629E-03	0.168

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 17:44:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792614_GAMMA1_400MLSAN_17062.CNF

---- Sample Information ----

Sample ID	: OH207-7926-14		
Sample Title	: SB-CZ-SS-2186-SD		
Sample Quantity	: 3.98000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17062		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 14:44:05.
Decay time	: 45 14:44:05.21	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.74

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.93	489	639	1.12	149.28	142	19	19.6	1.28E+00	AM-243
										PB-214
										PB-212
2	77.16*	776	540	0.96	153.73	142	19	12.1		PB-214
										PB-212
0	87.10	261	785	1.39	173.65	170	8	39.1		NP-237
										PB-214
										PB-212
2	90.07	141	564	1.02	179.60	177	13	55.4	3.75E+00	
2	93.16*	152	547	0.99	185.77	177	13	55.8		
0	129.03	135	515	1.05	257.61	254	7	58.2		AC-228
0	186.09*	384	591	1.10	371.85	367	10	26.5		
0	209.20	187	477	1.02	418.13	414	8	43.0		AC-228
2	238.60*	2299	303	1.10	477.01	470	17	4.9	1.96E+00	PB-212
2	241.03	261	260	1.21	481.86	470	17	34.0		
2	242.02	312	252	1.16	483.84	470	17	23.4		PB-214
0	270.03	295	381	1.03	539.93	534	12	28.9		RA-223
										AC-228
0	295.04	691	372	1.21	590.01	583	12	13.5		PB-214
0	300.06	163	280	1.36	600.06	596	9	40.4		PB-212
0	327.94	124	212	1.11	655.89	652	7	42.8		
0	338.33*	546	302	1.25	676.69	671	13	15.8		AC-228
0	351.82*	1272	352	1.24	703.71	697	14	8.4		PB-214
0	409.16	74	252	1.54	818.52	813	11	85.9		AC-228
0	462.72	125	162	1.36	925.76	921	10	42.1		AC-228
0	510.70*	309	229	1.68	1021.81	1013	16	26.7		TL-208
0	582.96*	765	214	1.31	1166.49	1159	15	11.1		TL-208
0	609.06*	860	158	1.39	1218.74	1213	13	9.0		BI-214
1	767.97	85	98	1.74	1536.89	1531	21	48.0	2.01E+00	BI-214
1	772.18	49	84	1.75	1545.32	1531	21	76.7		
0	791.87	100	275	10.37	1584.73	1567	29	97.5		
0	860.38	94	54	1.47	1721.89	1716	10	36.1		TL-208
0	910.76*	486	68	1.75	1822.74	1815	16	12.0		AC-228
0	934.24	46	59	1.83	1869.75	1865	12	75.0		BI-214
1	964.19	105	75	1.78	1929.71	1921	25	38.0	1.16E+00	AC-228
1	968.45*	285	75	1.63	1938.24	1921	25	16.3		AC-228
0	1120.01	187	109	1.73	2241.63	2233	19	30.5		BI-214
0	1238.56	110	95	2.22	2478.94	2468	21	48.9		BI-214
0	1377.50	38	42	0.93	2757.04	2753	12	78.6		BI-214
0	1407.27	48	30	0.66	2816.63	2811	14	55.0		BI-214
0	1460.12*	938	40	1.95	2922.41	2912	20	7.4		K-40
0	1591.61	53	84	5.22	3185.59	3169	27	101.1		
0	1629.75	54	3	2.04	3261.93	3255	14	31.0		
0	1729.16	53	14	1.82	3460.88	3453	16	43.0		BI-214
0	1763.77*	148	22	2.05	3530.14	3522	15	22.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.07	141	564	1.02	179.60	177	13	1.30E-02	55.4	2.33E+00	
2	93.16	152	547	0.99	185.77	177	13	1.41E-02	55.8	2.44E+00	T
0	186.09	384	591	1.10	371.85	367	10	3.56E-02	26.5	3.03E+00	
2	241.03	261	260	1.21	481.86	470	17	2.42E-02	34.0	2.64E+00	
0	327.94	124	212	1.11	655.89	652	7	1.15E-02	42.8	2.11E+00	
1	772.18	49	84	1.75	1545.32	1531	21	4.55E-03	76.7	1.09E+00	
0	791.87	100	275	10.37	1584.73	1567	29	9.25E-03	97.5	1.07E+00	
0	1591.61	53	84	5.22	3185.59	3169	27	4.95E-03	****	6.63E-01	
0	1629.75	54	3	2.04	3261.93	3255	14	4.97E-03	31.0	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	7.823E+00	7.860E-01	2.390E-01	1.631E-02	32.726
TL-208	4.272E-01	6.396E-02	3.109E-02	3.120E-03	13.741
PB-212	1.256E+00	1.150E-01	4.768E-02	3.679E-03	26.351
BI-214	9.103E-01	1.240E-01	5.804E-02	5.912E-03	15.684
PB-214	1.069E+00	1.236E-01	5.625E-02	4.439E-03	19.008
RA-223	5.539E-01	1.680E-01	1.440E-01	1.325E-02	3.848
AC-228	1.218E+00	1.605E-01	9.720E-02	5.372E-03	12.527
NP-237	6.031E-01	2.515E-01	2.820E-01	4.078E-02	2.138
AM-243	2.699E-01	7.743E-02	5.912E-02	1.240E-02	4.565

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.535E-03		1.778E-02	2.684E-02	1.751E-03	-0.281
RH-101	1.869E-02		1.856E-02	3.143E-02	4.874E-03	0.595
SB-125	7.818E-03		4.788E-02	8.269E-02	6.781E-03	0.095
CS-137	1.122E-02		1.860E-02	3.398E-02	3.652E-03	0.330
EU-155	5.029E-02		6.659E-02	1.151E-01	1.143E-02	0.437
PO-209	-2.234E+00		3.396E+00	5.609E+00	1.004E+00	-0.398
BI-211	-4.769E-01		5.068E-01	8.281E-01	6.033E-02	-0.576
BI-212	6.887E-01		1.862E-01	3.567E-01	3.431E-02	1.931
PA-233	1.955E-02		3.250E-02	5.769E-02	4.845E-03	0.339
PA-234M	1.197E+00		2.034E+00	3.699E+00	2.126E-01	0.324
TH-234	7.322E-01	+	4.172E-01	6.753E-01	7.878E-02	1.084
U-235	-6.893E-03		1.172E-01	1.942E-01	1.356E-02	-0.035
NP-236	1.972E-02		3.852E-02	6.640E-02	7.294E-03	0.297
NP-239	2.405E-02		1.229E-01	2.019E-01	2.725E-02	0.119
AM-241	3.659E-03		1.072E-01	1.864E-01	1.482E-02	0.020
CM-243	2.815E-02		5.998E-02	1.031E-01	1.175E-02	0.273
AM-246	-6.208E-03		5.634E-02	9.733E-02	1.198E-02	-0.064
CF-249	1.865E-02		2.080E-02	3.709E-02	3.578E-03	0.503

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7925 7928			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7927-PB		9/27/2007 8:45:00 AM	
SCAQC	7927-LD1	SB-CZ-SS-2187-ST		
SCAQC	7927-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7927-01	SB-CZ-SS-2187-ST	9/24/2007	
OH207	7927-02	SB-CZ-SS-2188-ST	9/24/2007	
OH207	7927-03	SB-CZ-SS-2189-ST	9/24/2007	

Radiochemistry Reviewer 11/12/07 Date

QA Reviewer 11/12/2007 Date

SC&A - Southeastern Environmental Laboratory
SCA-Form 301-5 Rev. 0

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-8-07 0043 G2 CW	200	SCAQC	8027	PB 1	—	10-25-07 0915	Prep BLK	LIQUID	1 Liter	400 mL Liquid ☐ 1 Liter Liquid ☑ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ _____ ☐
11-8-07 0041 G2 CW	100			LC1	—	↓	CTRL SAMP S-146			400 mL Liquid ☐ 1 Liter Liquid ☑ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ _____ ☐
11-8-07 0038 G1 CW	200	↓		LD1	—	10-23-07 1047	Dup 8027-01			400 mL Liquid ☐ 1 Liter Liquid ☑ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ _____ ☐
11-08-07 0819 G2 1Ku		NTS07		01	—	↓	EM00012037			400 mL Liquid ☐ 1 Liter Liquid ☑ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ _____ ☐
11-08-07 0817 G1 1Ku	↓	↓	↓	02	—	10-23-07 10:00	EM00012038	↓	↓	400 mL Liquid ☐ 1 Liter Liquid ☑ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ _____ ☐
11-08-07 1445 G2 1Ku	180	SCAQC	7927	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ _____ ☐
11-08-07 1542 G3 1Ku	60			LC1	—	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ _____ ☐
11-08-07 1757 G2 1Ku	180	↓		LD1	—	9/24/07	Dup 7927-01		362.5 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ _____ ☐
11-8-07 2015 G1 1Ku	↓	OH207		01	—	↓	SB-CZ-SS-2187-ST		362.5 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ _____ ☐
11-08-07 1752 G3 1Ku	↓	↓	↓	02	—	↓	2188-ST	↓	342.6 gdry	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ _____ ☐

amma1 = G1
amma2 = G2

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-8-07 20:57 G2 MN	180	OH207	7927	03	—	9/24/07	SB-CZ-SS-2189-ST	SOIL	365.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-8-07 20:58 G3 MN	180	SCAQC	7928	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1643 G3 IK	60	↓	↓	LC1	—	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 0822 IK G2 IK	180	↓	↓	LD1	—	9/24/07	DUP 7928-01	↓	337.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-9-07 00:12 G1 MN	↓	OH207	↓	01	—	↓	SB-CZ-SS-2187-SD	↓	337.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-9-07 00:14 G2 MN	↓	↓	↓	02	—	↓	2188-SD	↓	393.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-9-07 00:15 G3 MN	↓	↓	↓	03	—	↓	2189-SD	↓	386.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 0825 G3 IK	180	SCAQC	7931	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 0938 G1 IK	60	↓	↓	LC1	—	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 1129 G2 IK	180	↓	↓	LD1	—	9/25/07	DUP 7931-01	↓	571.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

amma1 = G1
amma2 = G2

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 17:45:38

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7927PB1_GAMMA2_400MLSA_17063.CNF

---- Sample Information ----

Sample ID	: SCAQC-7927-PB1
Sample Title	: PREP BLK
Sample Quantity	: 4.00000E+02 G
Sample Type	: LIQUID
Sample Geometry	: 400 ml sand
Sample Seq No.	: 17063

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 8-NOV-2007 14:45:20.
Decay time	: 42 06:00:20.34	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.61

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: Tim Mac Date: 11/12/2007

Post-NID Peak Search Report
***** No peaks found *****

Interference Report

No interference correction performed

Unidentified Energy Lines

None

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	-9.390E-02		1.330E-01	2.525E-01	1.625E-02	-0.372
CO-60	-2.478E-03		9.427E-03	1.728E-02	9.551E-04	-0.143
RH-101	8.202E-04		1.099E-02	1.814E-02	2.832E-03	0.045
SB-125	4.263E-03		2.560E-02	4.566E-02	3.743E-03	0.093
CS-137	-8.640E-03		9.602E-03	1.577E-02	1.794E-03	-0.548
EU-155	-1.022E-02		3.341E-02	5.605E-02	5.248E-03	-0.182
TL-208	8.420E-03		1.078E-02	2.050E-02	2.135E-03	0.411
PO-209	1.419E+00		2.088E+00	4.062E+00	7.787E-01	0.349
BI-211	2.307E-01		2.658E-01	5.360E-01	5.246E-02	0.430
BI-212	1.861E-02		7.095E-02	1.342E-01	1.468E-02	0.139
PB-212	6.334E-03		1.788E-02	3.197E-02	2.443E-03	0.198
BI-214	1.626E-03		2.385E-02	4.404E-02	4.690E-03	0.037
PB-214	1.277E-02		2.351E-02	4.247E-02	3.257E-03	0.301
RA-223	4.578E-02		5.455E-02	9.857E-02	8.770E-03	0.464
AC-228	-6.213E-03		3.853E-02	7.134E-02	6.199E-03	-0.087
PA-233	-4.053E-03		1.960E-02	3.393E-02	2.733E-03	-0.119
PA-234M	2.630E-01		1.086E+00	2.107E+00	1.644E-01	0.125
TH-234	-9.881E-02		1.842E-01	3.341E-01	3.342E-02	-0.296
U-235	2.344E-03		6.307E-02	1.037E-01	7.568E-03	0.023
NP-236	1.368E-03		1.931E-02	3.324E-02	3.304E-03	0.041
NP-237	-2.861E-02		7.048E-02	1.153E-01	1.449E-02	-0.248
NP-239	-7.749E-02		6.277E-02	1.019E-01	1.375E-02	-0.761
AM-241	1.581E-02		4.745E-02	8.479E-02	5.562E-03	0.186
AM-243	-8.633E-03		1.620E-02	2.705E-02	5.392E-03	-0.319
CM-243	6.948E-03		3.084E-02	5.341E-02	5.775E-03	0.130
AM-246	5.772E-03		2.785E-02	5.397E-02	6.902E-03	0.107
CF-249	1.464E-03		1.069E-02	1.905E-02	1.825E-03	0.077

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 16:42:28

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7927LC1_GAMMA3_400MLSA_17064.CNF

---- Sample Information ----

Sample ID	: SCAQC-7927-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17064		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 8-NOV-2007 15:42:03.
Decay time	: 42 06:57:03.90	% dead time	: 0.2%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:05.58

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

Sample ID : SCAQC-7927-LC1 Acquisition date : 8-NOV-2007 15:42:03

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	51.50	8466	15913	3.27	114.46	102	36	7.7	3.51E+02	
10	59.51	76909	5175	1.58	132.22	102	36	0.8		AM-241
0	77.13*	211	3515	1.10	171.27	168	8	98.4		PB-212
0	88.06	14337	4730	1.31	195.51	190	13	2.6		PB-212
0	122.12	1889	3151	1.31	271.00	265	11	12.4		
0	238.79*	220	2261	1.03	529.61	526	9	79.1		PB-212
0	609.97*	144	973	1.43	1352.30	1344	13	91.0		
0	661.52	23318	1344	1.73	1466.55	1456	19	1.5		CS-137
0	1173.08	17643	845	2.06	2600.29	2588	24	1.7		CO-60
0	1332.35	15893	227	2.15	2953.24	2940	25	1.7		CO-60

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
10	51.50	8466	15913	3.27	114.46	102	36	2.35E+00	7.7	2.99E+00	
0	122.12	1889	3151	1.31	271.00	265	11	5.25E-01	12.4	3.39E+00	
0	609.97	144	973	1.43	1352.30	1344	13	4.00E-02	91.0	1.13E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.200E+01	2.026E+00	1.059E-01	5.616E-03	302.128
CS-137	3.068E+01	2.257E+00	1.891E-01	1.362E-02	162.212
PB-212	2.484E-01	1.973E-01	2.640E-01	1.973E-02	0.941
AM-241	7.749E+01	4.943E+00	3.284E-01	2.078E-02	235.949

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	2.967E-01		4.518E-01	8.446E-01	4.970E-02	0.351
RH-101	-3.526E-03		8.861E-02	1.478E-01	2.282E-02	-0.024
SB-125	-2.430E-01		3.144E-01	5.249E-01	4.339E-02	-0.463
EU-155	1.172E-01		2.262E-01	3.873E-01	3.642E-02	0.303
TL-208	1.889E-01		1.088E-01	1.874E-01	1.492E-02	1.008
PO-209	4.452E+00		3.002E+01	5.107E+01	9.410E+00	0.087
BI-211	-9.214E-01		3.712E+00	6.063E+00	4.366E-01	-0.152
BI-212	7.416E-02		8.740E-01	1.452E+00	1.054E-01	0.051
BI-214	3.250E-01	+	2.968E-01	3.455E-01	2.632E-02	0.941
PB-214	2.725E-01		2.146E-01	3.564E-01	2.835E-02	0.765
RA-223	-7.627E-02		5.039E-01	8.297E-01	7.346E-02	-0.092
AC-228	1.473E-01		5.733E-01	9.764E-01	6.865E-02	0.151
PA-233	-6.997E-02		1.898E-01	3.095E-01	2.526E-02	-0.226
PA-234M	-7.367E+00		1.733E+01	2.899E+01	1.979E+00	-0.254
TH-234	-4.662E-02		1.056E+00	1.503E+00	1.345E-01	-0.031
U-235	-4.607E-02		4.705E-01	7.936E-01	5.891E-02	-0.058
NP-236	4.231E-02		1.301E-01	2.108E-01	2.012E-02	0.201
NP-237	2.859E+01		3.284E+00	1.522E+00	1.696E-01	18.785
NP-239	-1.556E-01		6.461E-01	1.068E+00	1.429E-01	-0.146
AM-243	-2.061E-02		1.042E-01	1.469E-01	2.825E-02	-0.140
CM-243	1.568E-01		2.062E-01	3.535E-01	3.809E-02	0.444
AM-246	-1.908E-02		5.337E-01	8.968E-01	1.132E-01	-0.021
CF-249	-3.081E-02		1.217E-01	2.063E-01	2.055E-02	-0.149

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 20:51:22

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7927LD1_GAMMA2_400MLSA_17067.CNF

---- Sample Information ----

Sample ID	: SCAQC-7927-LD1		
Sample Title	: DUP 7927-01		
Sample Quantity	: 3.62500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17067		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 17:51:05.
Decay time	: 45 17:51:05.05	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.16

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Adams Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.79	395	557	1.31	149.16	142	17	23.3	1.44E+00	AM-243
										PB-214
										PB-212
3	77.05	568	412	1.01	153.66	142	17	14.2		PB-214
										PB-212
5	84.48*	126	458	1.43	168.46	165	12	58.9	1.16E+00	
5	87.10*	227	366	1.00	173.68	165	12	30.6		NP-237
										PB-214
										PB-212
0	93.12*	219	550	1.57	185.67	182	9	43.2		
2	185.74*	167	312	1.14	370.11	367	11	41.5	5.74E+00	
0	208.76	123	391	1.41	415.95	412	9	60.7		AC-228
2	238.77*	1276	249	1.21	475.73	471	15	7.0	2.53E+00	PB-212
2	241.33	165	244	1.40	480.82	471	15	45.0		
2	242.22	167	210	1.23	482.59	471	15	36.7		PB-214
0	270.23*	114	273	1.25	538.40	534	9	56.1		RA-223
										AC-228
0	295.41*	451	302	1.21	588.57	583	12	18.2		PB-214
0	300.56	108	195	1.12	598.83	595	9	50.8		PB-212
0	338.59*	210	235	1.14	674.58	670	9	30.2		AC-228
0	352.10*	739	208	1.20	701.50	695	11	10.7		PB-214
0	463.73	100	206	1.41	923.99	917	15	66.6		AC-228
0	511.28*	166	237	2.27	1018.78	1011	19	51.0		TL-208
0	583.40*	386	121	1.27	1162.58	1157	13	15.9		TL-208
0	609.45*	517	108	1.42	1214.51	1209	13	12.3		BI-214
0	661.74	546	79	1.71	1318.81	1311	18	11.4		CS-137
0	727.50	90	66	1.54	1450.00	1444	11	40.8		BI-212
0	768.59	64	63	1.55	1531.97	1526	11	52.2		BI-214
0	795.47	66	39	1.14	1585.59	1581	12	46.3		AC-228
0	860.54*	47	59	1.67	1715.45	1711	11	70.0		TL-208
0	911.22*	284	69	1.59	1816.60	1810	16	18.1		AC-228
1	964.55	78	27	1.93	1923.06	1913	29	36.7	1.40E+00	AC-228
1	968.52*	147	26	1.67	1930.98	1913	29	21.9		AC-228
0	1120.08*	118	61	1.95	2233.64	2225	20	37.4		BI-214
0	1379.10	31	43	0.84	2751.22	2740	16	105.7		BI-214
0	1459.65*	322	11	2.11	2912.26	2905	14	12.4		K-40
0	1728.35	32	4	1.13	3449.74	3441	15	44.3		BI-214
0	1762.52*	93	4	1.69	3518.14	3511	15	24.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	84.48	126	458	1.43	168.46	165	12	1.17E-02	58.9	2.40E+00	
0	93.12	219	550	1.57	185.67	182	9	2.02E-02	43.2	2.72E+00	T
2	185.74	167	312	1.14	370.11	367	11	1.54E-02	41.5	3.21E+00	
2	241.33	165	244	1.40	480.82	471	15	1.53E-02	45.0	2.78E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.094E+00	4.321E-01	2.008E-01	1.293E-02	15.410
CS-137	3.652E-01	5.882E-02	2.553E-02	2.904E-03	14.307
TL-208	2.335E-01	4.440E-02	2.693E-02	2.804E-03	8.671
BI-212	4.665E-01	1.972E-01	2.120E-01	2.318E-02	2.200
PB-212	7.263E-01	7.534E-02	4.683E-02	3.578E-03	15.508
BI-214	5.956E-01	9.687E-02	5.065E-02	5.394E-03	11.759
PB-214	6.542E-01	8.616E-02	5.605E-02	4.298E-03	11.671
RA-223	2.236E-01	1.270E-01	1.427E-01	1.269E-02	1.567
AC-228	8.006E-01	1.604E-01	9.867E-02	8.574E-03	8.114
NP-237	5.093E-01	1.687E-01	2.361E-01	2.966E-02	2.158
AM-243	2.053E-01	6.304E-02	5.205E-02	1.038E-02	3.945

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.543E-03		1.491E-02	2.837E-02	1.567E-03	0.195
RH-101	-8.451E-03		1.760E-02	2.796E-02	4.365E-03	-0.302
SB-125	-3.700E-04		4.741E-02	8.075E-02	6.620E-03	-0.005
EU-155	-8.834E-03		5.919E-02	9.884E-02	9.255E-03	-0.089
PO-209	-1.006E+00		3.175E+00	5.427E+00	1.040E+00	-0.185
BI-211	-7.888E-03		4.579E-01	8.067E-01	7.897E-02	-0.010
PA-233	6.068E-03		3.044E-02	5.306E-02	4.274E-03	0.114
PA-234M	-1.120E+00		1.906E+00	3.182E+00	2.484E-01	-0.352
TH-234	1.034E+00	+	4.583E-01	6.017E-01	6.019E-02	1.718
U-235	-2.895E-02		1.108E-01	1.795E-01	1.310E-02	-0.161
NP-236	1.149E-02		3.676E-02	5.968E-02	5.933E-03	0.193
NP-239	-6.050E-02		1.050E-01	1.786E-01	2.410E-02	-0.339
AM-241	-8.940E-02		9.307E-02	1.540E-01	1.010E-02	-0.580
CM-243	-2.741E-02		5.301E-02	8.725E-02	9.432E-03	-0.314
AM-246	-9.152E-03		5.076E-02	8.783E-02	1.123E-02	-0.104
CF-249	-1.275E-02		1.911E-02	3.145E-02	3.013E-03	-0.405

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 23:56:18

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792701_GAMMA1_400MLSAN_17069.CNF

---- Sample Information ----

Sample ID	: OH207-7927-01		
Sample Title	: SB-CZ-SS-2187-ST		
Sample Quantity	: 3.62500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17069		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 20:56:00.
Decay time	: 45 20:56:00.09	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.06

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.65904E+00 a3=6.59172E-01 a4=3.93115E-02
a5=1.38137E-01 a6=-8.70295E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

Sample ID : OH207-7927-01 Acquisition date : 8-NOV-2007 20:56:00

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.97	280	447	1.12	149.35	143	16	28.4	1.02E+00	AM-243
										PB-214
										PB-212
2	77.23*	452	405	0.93	153.87	143	16	17.2		PB-214
										PB-212
4	87.30	253	379	1.17	174.05	171	20	28.0	1.77E+00	NP-237
										PB-214
										PB-212
4	90.11	154	367	1.20	179.66	171	20	44.3		
4	92.86*	265	403	1.41	185.18	171	20	31.0		
0	129.26	77	372	1.00	258.07	254	8	90.2		AC-228
0	186.03*	232	413	0.99	371.75	367	9	35.6		
0	209.52	93	371	0.87	418.77	414	9	77.6		AC-228
5	238.58*	1163	195	1.07	476.97	470	19	7.1	1.01E+00	PB-212
5	241.55	373	320	1.88	482.91	470	19	26.7		PB-214
0	270.42	94	246	1.00	540.72	536	9	63.7		RA-223
										AC-228
0	295.22	403	261	1.08	590.38	586	10	18.2		PB-214
0	327.97	65	200	1.07	655.95	652	9	82.3		
0	338.45*	270	248	1.33	676.94	672	13	27.6		AC-228
0	351.77*	740	180	1.17	703.60	699	10	10.1		PB-214
0	462.79	93	125	1.17	925.89	922	9	48.0		AC-228
0	510.48*	174	158	1.79	1021.37	1014	15	39.3		TL-208
0	582.98*	383	139	1.56	1166.52	1159	13	16.4		TL-208
0	608.99*	571	87	1.47	1218.61	1214	11	10.6		BI-214
0	661.21	502	160	1.48	1323.16	1318	13	13.6		CS-137
0	727.89	64	129	0.91	1456.64	1450	16	84.5		BI-212
0	768.17	61	73	1.29	1537.29	1532	10	55.3		BI-214
0	794.72	43	58	0.86	1590.44	1585	11	74.9		AC-228
0	860.07	43	45	1.46	1721.28	1717	10	65.9		TL-208
0	910.65*	262	39	1.53	1822.53	1816	13	16.2		AC-228
1	964.01	33	52	1.87	1929.34	1925	27	79.0	1.42E+00	AC-228
1	968.50*	131	42	1.77	1938.34	1925	27	27.2		AC-228
0	1119.67	111	49	1.58	2240.96	2235	13	32.3		BI-214
0	1242.25	177	35	10.69	2486.31	2469	44	27.1		
0	1459.91*	375	38	2.07	2921.99	2912	19	13.2		K-40
0	1763.48*	84	14	1.77	3529.57	3522	18	30.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.11	154	367	1.20	179.66	171	20	1.43E-02	44.3	2.33E+00	
4	92.86	265	403	1.41	185.18	171	20	2.45E-02	31.0	2.43E+00	T
0	186.03	232	413	0.99	371.75	367	9	2.15E-02	35.6	3.03E+00	
0	327.97	65	200	1.07	655.95	652	9	6.02E-03	82.3	2.11E+00	
0	1242.25	177	35	10.69	2486.31	2469	44	1.64E-02	27.1	7.93E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.435E+00	5.101E-01	2.127E-01	1.451E-02	16.151
CS-137	3.369E-01	5.827E-02	3.159E-02	3.394E-03	10.666
TL-208	2.347E-01	4.521E-02	2.738E-02	2.747E-03	8.573
BI-212	3.278E-01	2.789E-01	2.256E-01	2.170E-02	1.453
PB-212	6.975E-01	7.309E-02	4.482E-02	3.459E-03	15.561
BI-214	6.637E-01	9.776E-02	5.379E-02	5.479E-03	12.338
PB-214	6.826E-01	8.730E-02	5.497E-02	4.337E-03	12.418
RA-223	1.938E-01	1.247E-01	1.390E-01	1.279E-02	1.394
AC-228	7.200E-01	1.230E-01	9.807E-02	5.420E-03	7.342
NP-237	6.431E-01	2.025E-01	2.519E-01	3.643E-02	2.553
AM-243	1.697E-01	5.986E-02	5.420E-02	1.137E-02	3.131

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.508E-03		1.609E-02	2.468E-02	1.610E-03	-0.061
RH-101	1.205E-02		1.660E-02	2.844E-02	4.410E-03	0.424
SB-125	4.325E-03		4.271E-02	7.434E-02	6.096E-03	0.058
EU-155	5.869E-03		5.989E-02	1.024E-01	1.017E-02	0.057
PO-209	-3.500E-01		2.892E+00	5.100E+00	9.127E-01	-0.069
BI-211	-3.178E-01		4.281E-01	7.114E-01	5.183E-02	-0.447
PA-233	4.401E-03		2.865E-02	5.052E-02	4.243E-03	0.087
PA-234M	2.014E+00		1.787E+00	3.480E+00	2.001E-01	0.579
TH-234	1.399E+00	+	4.631E-01	6.448E-01	7.522E-02	2.170
U-235	8.688E-03		1.034E-01	1.728E-01	1.207E-02	0.050
NP-236	2.115E-02		3.614E-02	6.032E-02	6.626E-03	0.351
NP-239	3.272E-02		1.119E-01	1.860E-01	2.510E-02	0.176
AM-241	7.502E-02		9.853E-02	1.766E-01	1.404E-02	0.425
CM-243	4.058E-03		5.348E-02	9.154E-02	1.043E-02	0.044
AM-246	1.454E-02		5.151E-02	9.385E-02	1.155E-02	0.155
CF-249	1.991E-02		1.979E-02	3.587E-02	3.460E-03	0.555

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 20:52:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792702_GAMMA3_400MLSAN_17068.CNF

---- Sample Information ----

Sample ID	: OH207-7927-02		
Sample Title	: SB-CZ-SS-2188-ST		
Sample Quantity	: 3.42600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17068		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 17:52:09.
Decay time	: 45 17:52:09.95	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.93

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Thomas Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	74.96*	555	717	1.36	166.47	161	18	19.8	9.59E-01	AM-243
										PB-214
										PB-212
5	77.18*	819	566	1.24	171.38	161	18	13.2		PB-214
										PB-212
0	87.30	232	700	1.41	193.82	189	9	43.3		NP-237
										PB-214
										PB-212
2	90.04	135	368	1.09	199.89	197	14	45.5	4.33E-01	
2	92.84*	237	706	1.49	206.10	197	14	47.7		
0	130.26	147	628	1.33	289.04	283	14	74.5		AC-228
0	185.88*	328	365	1.48	412.33	407	10	25.8		
0	209.20	121	293	0.98	464.03	460	9	54.0		AC-228
6	238.70*	1258	240	1.37	529.40	523	20	7.4	9.62E-01	PB-212
6	241.69	450	309	2.43	536.03	523	20	24.4		PB-214
0	270.11	138	182	1.64	599.03	595	9	38.9		RA-223
										AC-228
0	295.17	457	285	1.38	654.56	650	14	18.1		PB-214
0	300.01	79	188	1.42	665.31	663	9	66.1		PB-212
0	338.49*	249	288	1.10	750.59	744	14	31.7		AC-228
0	351.99*	776	288	1.49	780.51	773	17	12.5		PB-214
0	463.32	63	177	1.56	1027.27	1021	14	94.5		AC-228
0	510.76*	196	174	2.25	1132.42	1122	21	39.8		TL-208
0	583.01*	414	119	1.63	1292.55	1283	19	16.2		TL-208
0	609.31*	562	135	1.67	1350.85	1345	15	12.3		BI-214
0	661.39	456	137	1.38	1466.26	1458	17	15.0		CS-137
0	727.50	107	78	1.98	1612.79	1604	15	40.9		BI-212
0	795.34	90	75	1.82	1763.15	1753	20	51.5		AC-228
0	911.01*	275	53	1.75	2019.49	2009	18	17.6		AC-228
0	969.35	96	120	1.92	2148.79	2141	14	53.2		AC-228
0	1120.43*	94	64	1.31	2483.60	2477	15	43.1		BI-214
0	1460.75*	422	31	2.47	3237.76	3226	27	12.7		K-40
0	1764.38*	92	4	1.63	3910.58	3902	16	24.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.04	135	368	1.09	199.89	197	14	1.25E-02	45.5	3.55E+00	
2	92.84	237	706	1.49	206.10	197	14	2.19E-02	47.7	3.55E+00	T
0	185.88	328	365	1.48	412.33	407	10	3.04E-02	25.8	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.184E+00	7.236E-01	3.030E-01	1.783E-02	17.112
CS-137	3.741E-01	6.221E-02	4.283E-02	3.083E-03	8.734
TL-208	3.058E-01	5.528E-02	3.762E-02	2.994E-03	8.128
BI-212	6.852E-01	2.843E-01	2.655E-01	1.927E-02	2.581
PB-212	8.834E-01	9.299E-02	5.885E-02	4.399E-03	15.011
BI-214	7.902E-01	1.141E-01	7.649E-02	5.828E-03	10.330
PB-214	8.416E-01	1.244E-01	6.913E-02	5.500E-03	12.174
RA-223	3.351E-01	1.337E-01	1.918E-01	1.698E-02	1.747
AC-228	9.701E-01	1.843E-01	1.287E-01	9.048E-03	7.538
NP-237	3.843E-01	1.717E-01	2.120E-01	2.363E-02	1.813
AM-243	1.703E-01	4.705E-02	3.635E-02	6.990E-03	4.685

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-9.114E-03		2.176E-02	3.719E-02	2.264E-03	-0.245
RH-101	-5.123E-03		2.218E-02	3.716E-02	5.735E-03	-0.138
SB-125	-1.627E-02		5.976E-02	1.029E-01	8.506E-03	-0.158
EU-155	3.041E-02		6.194E-02	1.084E-01	1.019E-02	0.281
PO-209	3.033E+00		4.061E+00	7.668E+00	1.413E+00	0.396
BI-211	-1.099E-02		7.086E-01	1.211E+00	8.719E-02	-0.009
PA-233	2.340E-02		4.082E-02	7.051E-02	5.754E-03	0.332
PA-234M	9.589E-01		2.675E+00	4.856E+00	3.315E-01	0.197
TH-234	9.001E-01	+	4.364E-01	6.210E-01	5.560E-02	1.449
U-235	-1.300E-01		1.328E-01	2.200E-01	1.633E-02	-0.591
NP-236	6.449E-03		3.794E-02	6.017E-02	5.742E-03	0.107
NP-239	-5.623E-02		1.449E-01	2.414E-01	3.229E-02	-0.233
AM-241	-1.412E-01		4.645E-02	6.835E-02	4.325E-03	-2.066
CM-243	-2.166E-03		5.601E-02	9.670E-02	1.042E-02	-0.022
AM-246	4.828E-02		7.470E-02	1.407E-01	1.776E-02	0.343
CF-249	1.904E-03		2.472E-02	4.345E-02	4.328E-03	0.044

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 23:57:47

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792703_GAMMA2_400MLSAN_17070.CNF

---- Sample Information ----

Sample ID	: OH207-7927-03		
Sample Title	: SB-CZ-SS-2189-ST		
Sample Quantity	: 3.65800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17070		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 8-NOV-2007 20:57:29.
Decay time	: 45 20:57:29.39	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.14

---- Detector Parameters ----

Energy cal. time	: 1-MAY-2007 11:12:10.	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA2	Counting geometry	: 400 ml sand
Effic. cal. time	: 1-MAY-2007 11:13:44.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.68491E+00	a3=7.34327E-01	a4=7.12916E-02
a5=8.21331E-02	a6=-7.02143E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.82	331	415	1.00	149.22	143	21	22.4	2.09E+00	AM-243
										PB-214
										PB-212
2	77.05	574	447	1.19	153.67	143	21	15.3		PB-214
										PB-212
0	86.76*	142	543	1.32	173.00	170	8	60.0		NP-237
										PB-214
										PB-212
4	89.93*	149	216	1.02	179.31	177	14	32.3	2.19E+00	
4	92.86*	214	421	1.33	185.13	177	14	37.9		
0	185.69*	279	568	1.34	370.01	364	13	38.0		
0	209.70	90	371	1.03	417.82	413	8	76.6		AC-228
2	238.77*	1175	251	1.12	475.72	468	19	7.5	1.70E+00	PB-212
2	241.10	94	240	1.16	480.37	468	19	73.4		
2	242.05	225	271	1.26	482.26	468	19	29.8		PB-214
0	270.32*	196	408	1.54	538.57	531	17	49.6		RA-223
										AC-228
0	278.19	135	305	1.17	554.26	548	13	56.1		TL-208
0	295.45*	358	222	1.27	588.64	584	9	18.6		PB-214
0	328.27	65	132	1.38	654.03	651	6	61.5		
0	338.28*	254	284	1.12	673.98	667	14	31.0		AC-228
0	352.20*	652	253	1.24	701.70	696	13	13.0		PB-214
0	463.58	133	148	1.61	923.70	918	14	42.6		AC-228
0	511.18*	221	181	1.67	1018.58	1010	18	34.8		TL-208
0	583.49*	355	132	1.47	1162.76	1155	13	17.1		TL-208
0	609.46*	473	103	1.44	1214.55	1209	14	13.2		BI-214
0	662.02	221	144	1.55	1319.37	1313	15	27.4		CS-137
0	727.34	120	98	1.64	1449.68	1441	18	43.1		BI-212
0	769.79	72	107	4.91	1534.35	1525	18	72.0		BI-214
0	794.73	68	30	1.72	1584.12	1579	10	38.7		AC-228
0	860.83*	47	51	0.74	1716.02	1709	13	71.0		TL-208
0	911.08*	285	42	1.61	1816.33	1809	14	15.6		AC-228
0	934.31	29	33	1.48	1862.69	1857	9	82.3		BI-214
1	964.62	51	61	1.93	1923.21	1916	29	61.8	2.04E+00	AC-228
1	968.85*	159	48	1.93	1931.65	1916	29	24.4		AC-228
0	1120.59*	105	46	1.76	2234.67	2228	16	37.3		BI-214
0	1459.76*	527	30	2.04	2912.48	2902	20	10.3		K-40
0	1628.83	18	12	1.72	3250.63	3243	12	89.9		
0	1727.82	19	9	1.07	3448.68	3441	12	78.5		BI-214
0	1762.38*	90	4	2.19	3517.84	3509	17	25.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.93	149	216	1.02	179.31	177	14	1.38E-02	32.3	2.61E+00	
4	92.86	214	421	1.33	185.13	177	14	1.99E-02	37.9	2.71E+00	T
0	185.69	279	568	1.34	370.01	364	13	2.58E-02	38.0	3.21E+00	
2	241.10	94	240	1.16	480.37	468	19	8.67E-03	73.4	2.78E+00	
0	328.27	65	132	1.38	654.03	651	6	6.00E-03	61.5	2.20E+00	
0	1628.83	18	12	1.72	3250.63	3243	12	1.67E-03	89.9	6.22E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.007E+00	6.085E-01	2.326E-01	1.497E-02	21.526
CS-137	1.462E-01	4.338E-02	2.730E-02	3.105E-03	5.355
TL-208	2.129E-01	4.264E-02	2.846E-02	2.963E-03	7.480
BI-212	6.143E-01	2.731E-01	2.129E-01	2.328E-02	2.885
PB-212	6.626E-01	7.092E-02	4.506E-02	3.443E-03	14.703
BI-214	5.392E-01	9.133E-02	5.388E-02	5.738E-03	10.007
PB-214	5.714E-01	8.619E-02	5.523E-02	4.235E-03	10.345
RA-223	3.810E-01	1.918E-01	1.409E-01	1.254E-02	2.703
AC-228	7.940E-01	1.416E-01	1.034E-01	8.982E-03	7.681
NP-237	3.158E-01	1.936E-01	2.360E-01	2.966E-02	1.338
AM-243	1.706E-01	5.111E-02	4.975E-02	9.918E-03	3.429

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.368E-03		1.739E-02	3.065E-02	1.783E-03	0.240
RH-101	1.258E-03		1.687E-02	2.752E-02	4.297E-03	0.046
SB-125	2.016E-02		4.413E-02	7.744E-02	6.349E-03	0.260
EU-155	3.807E-02		5.856E-02	1.005E-01	9.411E-03	0.379
PO-209	9.977E-01		3.187E+00	5.764E+00	1.105E+00	0.173
BI-211	-4.818E-01		4.893E-01	7.860E-01	7.694E-02	-0.613
PA-233	3.010E-02		2.827E-02	5.136E-02	4.137E-03	0.586
PA-234M	-5.430E-01		1.654E+00	2.865E+00	2.237E-01	-0.190
TH-234	1.005E+00	+	3.945E-01	5.698E-01	5.699E-02	1.765
U-235	-9.005E-03		1.061E-01	1.731E-01	1.264E-02	-0.052
NP-236	1.475E-02		3.425E-02	5.601E-02	5.568E-03	0.263
NP-239	-4.365E-03		1.039E-01	1.808E-01	2.440E-02	-0.024
AM-241	4.709E-03		8.936E-02	1.537E-01	1.008E-02	0.031
CM-243	-1.735E-02		5.317E-02	8.822E-02	9.538E-03	-0.197
AM-246	2.336E-02		5.473E-02	1.002E-01	1.281E-02	0.233
CF-249	1.272E-02		1.814E-02	3.233E-02	3.098E-03	0.393

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/27/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7925 7928			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7928-PB		9/27/2007 8:45:00 AM	
SCAQC	7928-LD1 OH207-7928-01	SB-CZ-SS-2187-SD	9/24/2007	
SCAQC	7928-LC1		9/27/2007 8:45:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7928-01	SB-CZ-SS-2187-SD	9/24/2007	
OH207	7928-02	SB-CZ-SS-2188-SD	9/24/2007	
OH207	7928-03	SB-CZ-SS-2189-SD	9/24/2007	

Radiochemistry Reviewer 11/14/07 Date

QA Reviewer 11/14/2007 Date

Gamma Spectrometry Run Log

Count Date/Time / Detector No.	Length of Count	Prefix	Batch No.	Sample No.	RIN No.	Collection Date	Field I.D.	Sample Type	Sample Size (w/units)	Geometry
11-8-07 20:57 G2 MN	180	OH207	7927	03	—	9/24/07	SB-CZ-SS-2189-ST	SOIL	365.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-8-07 20:58 G3 MN	180	SCAQC	7928	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-08-07 1643 G3 IK	60	↓	↓	LC1	—	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 0822 IK G2 IK	180	↓	↓	LD1	—	9/24/07	DUP 7928-01	↓	337.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-9-07 00:12 G1 MN	↓	OH207	↓	01	—	↓	SB-CZ-SS-2187-SD	↓	337.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-9-07 00:14 G2 MN	↓	↓	↓	02	—	↓	2188-SD	↓	393.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-9-07 00:15 G3 MN	↓	↓	↓	03	—	↓	2189-SD	↓	386.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 0825 G3 IK	180	SCAQC	7931	PB1	—	9/27/07 0845	PREP BLK	LIQUID	400g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 0939 G1 IK	60	↓	↓	LC1	—	↓	CTRL SAMP S-142	SOIL	640g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
11-09-07 1129 G2 IK	180	↓	↓	LD1	—	9/25/07	DUP 7931-01	↓	571.3 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Gamma1 = G1
Gamma2 = G2

SC&A - Southeastern Environmental Laboratory
SCA-Form 012 Rev. 1

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 23:59:09

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7928PB1_GAMMA3_400MLSA_17071.CNF

---- Sample Information ----

Sample ID	: SCAQC-7928-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17071		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 8-NOV-2007 20:58:51.
Decay time	: 42 12:13:51.57	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.53

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	352.01*	41	67	0.62	780.56	775	10	84.9		
0	511.13*	44	34	2.20	1133.25	1125	18	98.9		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	352.01	41	67	0.62	780.56	775	10	3.84E-03	84.9	1.79E+00	T
0	511.13	44	34	2.20	1133.25	1125	18	4.11E-03	98.9	1.31E+00	T

Flags: "T" = Tentatively associated

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	5.630E-02		1.634E-01	3.299E-01	1.941E-02	0.171
CO-60	7.751E-03		1.478E-02	1.946E-02	1.032E-03	0.398
RH-101	-1.663E-02		1.285E-02	2.000E-02	3.086E-03	-0.832
SB-125	-1.209E-02		3.182E-02	5.526E-02	4.569E-03	-0.219
CS-137	1.575E-02		1.280E-02	2.546E-02	1.833E-03	0.619
EU-155	-5.435E-03		3.305E-02	5.752E-02	5.408E-03	-0.094
TL-208	9.352E-03		1.553E-02	2.913E-02	2.319E-03	0.321
PO-209	2.161E+00		2.617E+00	5.170E+00	9.527E-01	0.418
BI-211	3.100E-02		3.626E-01	6.506E-01	4.685E-02	0.048
BI-212	-1.239E-03		9.173E-02	1.637E-01	1.188E-02	-0.008
PB-212	-1.401E-02		2.421E-02	4.059E-02	3.034E-03	-0.345
BI-214	3.597E-02		2.995E-02	5.704E-02	4.346E-03	0.631
PB-214	3.855E-02	+	3.287E-02	5.035E-02	4.006E-03	0.766
RA-223	-7.735E-04		6.361E-02	1.092E-01	9.667E-03	-0.007
AC-228	-4.978E-02		5.376E-02	9.027E-02	6.347E-03	-0.551
PA-233	-1.615E-02		2.375E-02	3.865E-02	3.154E-03	-0.418
PA-234M	-6.953E-01		1.806E+00	3.104E+00	2.120E-01	-0.224
TH-234	1.275E-02		1.885E-01	3.522E-01	3.153E-02	0.036
U-235	-4.530E-02		7.467E-02	1.258E-01	9.341E-03	-0.360
NP-236	3.346E-03		1.894E-02	3.177E-02	3.031E-03	0.105
NP-237	-3.034E-02		6.089E-02	9.864E-02	1.099E-02	-0.308
NP-239	5.428E-02		7.774E-02	1.387E-01	1.855E-02	0.391
AM-241	-9.503E-02		2.569E-02	3.403E-02	2.154E-03	-2.792
AM-243	-9.142E-04		1.185E-02	1.920E-02	3.692E-03	-0.048
CM-243	2.427E-02		2.990E-02	5.417E-02	5.837E-03	0.448
AM-246	-3.700E-03		4.148E-02	7.622E-02	9.621E-03	-0.049
CF-249	1.254E-02		1.484E-02	2.782E-02	2.771E-03	0.451

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 12-NOV-2007 16:56:56

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7928LD1_GAMMA2_400MLSA_17075.CNF

---- Sample Information ----

Sample ID : SCAQC-7928-LD1
Sample Title : DUP 7928-01
Sample Quantity : 3.37900E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17075

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 9-NOV-2007 08:22:35.
Decay time : 46 08:22:35.05 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.02

---- Detector Parameters ----

Energy cal. time : 1-MAY-2007 11:12:10. Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA2 Counting geometry: 400 ml sand
Effic. cal. time : 1-MAY-2007 11:13:44. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/13/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.85	272	419	0.99	149.29	145	14	26.3	5.90E-01	AM-243
										PB-214
										PB-212
3	77.05	407	383	0.93	153.67	145	14	18.4		PB-214
										PB-212
0	87.02*	127	406	1.20	173.51	171	7	56.3		NP-237
										PB-214
										PB-212
3	89.99*	98	217	1.07	179.43	177	13	46.0	2.21E+00	
3	92.84*	185	400	1.36	185.11	177	13	42.8		
0	185.94*	180	508	1.12	370.50	365	12	53.6		
0	209.37	130	352	1.11	417.17	412	11	58.5		AC-228
3	238.76*	960	298	1.10	475.71	471	17	8.8	2.93E+00	PB-212
3	241.25	121	223	1.09	480.67	471	17	50.2		
3	242.16	138	251	1.14	482.47	471	17	45.0		PB-214
0	270.15*	110	340	1.60	538.23	532	14	73.9		RA-223
										AC-228
0	277.41	68	243	0.85	552.71	548	10	89.7		TL-208
0	295.31*	321	243	1.20	588.36	583	11	22.1		PB-214
0	328.48	77	129	1.07	654.45	651	8	56.0		
0	338.36*	194	153	1.34	674.14	669	9	27.6		AC-228
0	352.13*	580	209	1.35	701.58	696	14	13.6		PB-214
0	511.00*	138	137	1.91	1018.23	1011	17	47.7		TL-208
0	583.46*	366	83	1.59	1162.69	1156	15	15.4		TL-208
0	609.44*	462	129	1.41	1214.51	1208	15	14.5		BI-214
0	727.16	103	64	1.74	1449.32	1440	17	40.6		BI-212
0	911.01*	245	39	1.30	1816.18	1810	11	16.5		AC-228
2	964.88	35	46	2.12	1923.73	1915	30	87.5	1.28E+00	AC-228
2	968.76*	140	32	2.13	1931.47	1915	30	26.1		AC-228
0	1073.71	31	8	1.25	2141.03	2137	8	47.8		
0	1120.14*	124	28	1.93	2233.76	2225	18	27.9		BI-214
0	1238.26	40	44	1.14	2469.75	2464	13	76.9		BI-214
0	1459.45*	202	19	1.38	2911.85	2905	15	17.7		K-40
0	1727.94	17	13	0.76	3448.92	3442	13	101.6		BI-214
0	1762.42*	78	12	2.83	3517.94	3511	15	31.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.99	98	217	1.07	179.43	177	13	9.12E-03	46.0	2.61E+00	
3	92.84	185	400	1.36	185.11	177	13	1.72E-02	42.8	2.71E+00	T
0	185.94	180	508	1.12	370.50	365	12	1.67E-02	53.6	3.21E+00	
3	241.25	121	223	1.09	480.67	471	17	1.12E-02	50.2	2.78E+00	
0	328.48	77	129	1.07	654.45	651	8	7.10E-03	56.0	2.20E+00	
0	1073.71	31	8	1.25	2141.03	2137	8	2.87E-03	47.8	8.43E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.080E+00	3.923E-01	2.533E-01	1.630E-02	8.211
TL-208	2.377E-01	4.420E-02	2.683E-02	2.794E-03	8.860
BI-212	5.739E-01	2.411E-01	1.928E-01	2.108E-02	2.977
PB-212	5.864E-01	6.841E-02	4.565E-02	3.488E-03	12.846
BI-214	5.711E-01	1.027E-01	5.609E-02	5.972E-03	10.182
PB-214	5.510E-01	8.617E-02	5.666E-02	4.345E-03	9.725
RA-223	2.321E-01	1.727E-01	1.411E-01	1.255E-02	1.645
AC-228	7.389E-01	1.378E-01	1.001E-01	8.702E-03	7.378
NP-237	3.060E-01	1.766E-01	2.378E-01	2.989E-02	1.286
AM-243	1.517E-01	5.012E-02	5.304E-02	1.057E-02	2.860

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.339E-02		1.594E-02	2.293E-02	1.334E-03	-0.584
RH-101	2.074E-02		1.759E-02	2.960E-02	4.621E-03	0.701
SB-125	-1.181E-02		4.546E-02	7.657E-02	6.277E-03	-0.154
CS-137	1.698E-02		1.945E-02	3.617E-02	4.115E-03	0.469
EU-155	2.855E-03		5.997E-02	1.011E-01	9.463E-03	0.028
PO-209	4.529E-01		3.181E+00	5.717E+00	1.096E+00	0.079
BI-211	-4.904E-01		4.570E-01	7.234E-01	7.082E-02	-0.678
PA-233	9.572E-03		3.191E-02	5.595E-02	4.507E-03	0.171
PA-234M	7.859E-01		1.869E+00	3.479E+00	2.716E-01	0.226
TH-234	9.404E-01	+	4.130E-01	5.901E-01	5.902E-02	1.594
U-235	6.639E-02		1.087E-01	1.822E-01	1.330E-02	0.364
NP-236	5.346E-02		3.389E-02	6.004E-02	5.969E-03	0.890
NP-239	1.418E-02		1.045E-01	1.836E-01	2.477E-02	0.077
AM-241	3.693E-02		9.184E-02	1.602E-01	1.051E-02	0.231
CM-243	4.648E-03		5.471E-02	9.242E-02	9.991E-03	0.050
AM-246	3.404E-02		5.924E-02	9.925E-02	1.269E-02	0.343
CF-249	-1.408E-03		1.991E-02	3.403E-02	3.261E-03	-0.041

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 8-NOV-2007 17:44:00

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7928LC1_GAMMA3_400MLSA_17065.CNF

---- Sample Information ----

Sample ID	: SCAQC-7928-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17065		

---- Sample Decay/Count Information ----

Collection Date	: 27-SEP-2007 08:45:00	Acquisition date	: 8-NOV-2007 16:43:37.
Decay time	: 42 07:58:37.68	% dead time	: 0.2%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:05.58

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	51.50	8286	15880	3.27	114.46	102	37	7.9	3.41E+02	
10	59.51	76555	5325	1.58	132.22	102	37	0.8		AM-241
0	88.06	14649	4828	1.34	195.51	189	13	2.6		
0	122.09	1837	3205	1.31	270.93	266	11	12.8		
0	238.74*	358	1879	1.81	529.50	526	8	43.5		
0	661.54	23284	1111	1.72	1466.59	1459	15	1.5		CS-137
0	1173.09	17744	747	2.02	2600.30	2589	23	1.7		CO-60
0	1332.34	16057	185	2.17	2953.22	2942	23	1.6		CO-60
0	1460.70*	41	45	2.57	3237.65	3229	18	84.7		K-40

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
10	51.50	8286	15880	3.27	114.46	102	37	2.30E+00	7.9	2.99E+00	
0	88.06	14649	4828	1.34	195.51	189	13	4.07E+00	2.6	3.55E+00	T
0	122.09	1837	3205	1.31	270.93	266	11	5.10E-01	12.8	3.39E+00	
0	238.74	358	1879	1.81	529.50	526	8	9.93E-02	43.5	2.40E+00	T

Flags: "T" = Tentatively associated

Sample ID : SCAQC-7928-LC1 Acquisition date : 8-NOV-2007 16:43:37

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	8.019E-01	6.811E-01	6.660E-01	3.919E-02	1.204
CO-60	3.218E+01	2.034E+00	1.094E-01	5.802E-03	294.150
CS-137	3.064E+01	2.250E+00	1.956E-01	1.408E-02	156.605
AM-241	7.713E+01	4.921E+00	3.349E-01	2.119E-02	230.293

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
RH-101	-3.519E-02		8.873E-02	1.471E-01	2.270E-02	-0.239
SB-125	-1.353E-01		3.103E-01	5.218E-01	4.313E-02	-0.259
EU-155	-2.406E-01		2.262E-01	3.779E-01	3.554E-02	-0.637
TL-208	7.849E-02		1.075E-01	1.828E-01	1.455E-02	0.429
PO-209	6.270E+00		2.996E+01	5.100E+01	9.397E+00	0.123
BI-211	-3.946E+00		3.676E+00	5.867E+00	4.225E-01	-0.673
BI-212	2.768E-01		8.650E-01	1.445E+00	1.049E-01	0.192
PB-212	4.031E-01	+	1.778E-01	2.800E-01	2.093E-02	1.440
BI-214	1.954E-01		2.040E-01	3.475E-01	2.648E-02	0.562
PB-214	2.649E-01		2.126E-01	3.530E-01	2.809E-02	0.750
RA-223	1.239E-01		5.080E-01	8.416E-01	7.451E-02	0.147
AC-228	7.651E-02		5.766E-01	9.797E-01	6.888E-02	0.078
PA-233	1.047E-01		1.902E-01	3.149E-01	2.569E-02	0.332
PA-234M	-2.354E+00		1.703E+01	2.867E+01	1.958E+00	-0.082
TH-234	1.246E+00		1.047E+00	1.520E+00	1.361E-01	0.820
U-235	-1.763E-01		4.703E-01	7.901E-01	5.864E-02	-0.223
NP-236	7.562E-02		1.300E-01	2.112E-01	2.015E-02	0.358
NP-237	2.946E+01		3.379E+00	1.532E+00	1.707E-01	19.232
NP-239	1.808E-01		6.385E-01	1.063E+00	1.422E-01	0.170
AM-243	-3.968E-02		9.217E-02	1.483E-01	2.851E-02	-0.268
CM-243	-7.690E-02		2.045E-01	3.464E-01	3.732E-02	-0.222
AM-246	-1.032E-02		5.216E-01	8.771E-01	1.107E-01	-0.012
CF-249	4.214E-02		1.245E-01	2.128E-01	2.119E-02	0.198

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 9-NOV-2007 03:13:05

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792801_GAMMA1_400MLSAN_17072.CNF

---- Sample Information ----

Sample ID	: OH207-7928-01		
Sample Title	: SB-CZ-SS-2187-SD		
Sample Quantity	: 3.37900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17072		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 9-NOV-2007 00:12:34.
Decay time	: 46 00:12:34.44	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.86

---- Detector Parameters ----

Energy cal. time	: 23-MAR-2006 15:15:18	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA1	Counting geometry	: 400 ml sand
Effic. cal. time	: 23-MAR-2006 15:18:11	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.65904E+00	a3=6.59172E-01	a4=3.93115E-02
a5=1.38137E-01	a6=-8.70295E-02	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA1__16285.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: TH Moore Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.96	250	299	0.85	149.33	146	12	23.8	1.13E+00	AM-243
										PB-214
										PB-212
2	77.16*	372	256	0.87	153.73	146	12	17.1		PB-214
										PB-212
0	87.01	93	385	0.70	173.47	171	7	72.6		NP-237
										PB-214
										PB-212
3	89.90	115	234	1.10	179.26	177	13	43.7	3.20E+00	
1	185.77*	138	241	1.21	371.22	365	13	44.9	3.24E+00	
0	209.67	151	312	1.38	419.07	413	12	49.8		AC-228
2	238.57*	949	199	1.02	476.95	472	16	8.1	1.96E+00	PB-212
2	241.25	114	241	1.38	482.30	472	16	60.5		
2	242.14	83	209	1.20	484.09	472	16	67.4		PB-214
0	270.13	94	224	1.19	540.14	536	11	64.8		RA-223
										AC-228
1	295.15	341	121	1.19	590.24	585	21	15.1	1.50E+00	PB-214
1	300.15	89	131	1.35	600.25	585	21	49.0		PB-212
0	304.96	62	117	2.67	609.88	606	8	65.6		
0	327.90	54	155	0.92	655.80	652	8	84.7		
0	338.09*	237	163	1.21	676.20	672	11	24.6		AC-228
0	351.68*	654	137	1.26	703.43	696	13	10.8		PB-214
0	463.12	82	82	1.20	926.55	922	10	47.4		AC-228
0	510.73*	185	141	1.62	1021.87	1014	17	37.0		TL-208
0	582.93*	324	101	1.18	1166.43	1159	13	17.2		TL-208
0	609.07*	391	139	1.33	1218.77	1213	13	16.3		BI-214
0	726.74	78	56	1.43	1454.35	1449	11	43.0		BI-212
0	795.64	62	73	4.35	1592.28	1583	18	70.6		AC-228
0	861.12	56	65	1.71	1723.37	1716	17	72.5		TL-208
0	911.23*	253	78	1.75	1823.70	1814	20	22.0		AC-228
0	968.79*	120	74	1.73	1938.92	1932	17	40.2		AC-228
0	1119.41	123	30	1.59	2240.42	2232	15	26.6		BI-214
0	1283.14	49	26	4.93	2568.16	2556	26	63.8		
0	1377.71	33	19	1.41	2757.47	2750	11	62.6		BI-214
0	1459.92*	216	38	2.53	2922.01	2912	19	19.7		K-40
0	1763.58*	65	7	1.49	3529.77	3523	14	31.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.90	115	234	1.10	179.26	177	13	1.06E-02	43.7	2.32E+00	
1	185.77	138	241	1.21	371.22	365	13	1.28E-02	44.9	3.03E+00	
2	241.25	114	241	1.38	482.30	472	16	1.05E-02	60.5	2.64E+00	
0	304.96	62	117	2.67	609.88	606	8	5.75E-03	65.6	2.23E+00	
0	327.90	54	155	0.92	655.80	652	8	4.97E-03	84.7	2.11E+00	
0	1283.14	49	26	4.93	2568.16	2556	26	4.54E-03	63.8	7.75E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.121E+00	4.421E-01	2.564E-01	1.750E-02	8.273
TL-208	2.134E-01	4.249E-02	2.861E-02	2.871E-03	7.458
BI-212	4.345E-01	1.916E-01	2.209E-01	2.125E-02	1.966
PB-212	6.104E-01	6.842E-02	4.729E-02	3.650E-03	12.908
BI-214	4.876E-01	9.368E-02	5.974E-02	6.085E-03	8.163
PB-214	6.474E-01	8.681E-02	5.307E-02	4.187E-03	12.199
RA-223	2.082E-01	1.362E-01	1.334E-01	1.228E-02	1.560
AC-228	7.474E-01	1.696E-01	1.042E-01	5.760E-03	7.171
NP-237	2.538E-01	1.879E-01	2.532E-01	3.661E-02	1.002
AM-243	1.625E-01	5.148E-02	5.708E-02	1.197E-02	2.846

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-5.589E-04		1.759E-02	2.428E-02	1.584E-03	-0.023
RH-101	-1.937E-03		1.628E-02	2.723E-02	4.224E-03	-0.071
SB-125	1.829E-02		4.367E-02	7.774E-02	6.375E-03	0.235
CS-137	2.725E-02		1.957E-02	3.745E-02	4.024E-03	0.728
EU-155	2.878E-02		5.922E-02	1.031E-01	1.023E-02	0.279
PO-209	-2.411E-01		2.876E+00	5.119E+00	9.161E-01	-0.047
BI-211	1.210E-01		4.667E-01	8.484E-01	6.181E-02	0.143
PA-233	-5.088E-03		2.798E-02	4.869E-02	4.088E-03	-0.105
PA-234M	-7.392E-03		1.679E+00	3.004E+00	1.727E-01	-0.002
TH-234	9.445E-01		3.711E-01	6.289E-01	7.337E-02	1.502
U-235	-5.208E-02		1.042E-01	1.700E-01	1.187E-02	-0.306
NP-236	2.471E-02		3.356E-02	5.914E-02	6.497E-03	0.418
NP-239	8.168E-02		1.076E-01	1.833E-01	2.473E-02	0.446
AM-241	2.286E-02		9.369E-02	1.660E-01	1.320E-02	0.138
CM-243	-3.376E-02		5.334E-02	8.856E-02	1.009E-02	-0.381
AM-246	3.410E-02		5.447E-02	1.026E-01	1.263E-02	0.332
CF-249	-1.258E-02		1.880E-02	3.127E-02	3.016E-03	-0.402

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 9-NOV-2007 03:14:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792802_GAMMA2_400MLSAN_17073.CNF

---- Sample Information ----

Sample ID : OH207-7928-02
Sample Title : SB-CZ-SS-2188-SD
Sample Quantity : 3.93800E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 17073

---- Sample Decay/Count Information ----

Collection Date : 24-SEP-2007 00:00:00 Acquisition date : 9-NOV-2007 00:14:01.
Decay time : 46 00:14:01.61 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.28

---- Detector Parameters ----

Energy cal. time : 1-MAY-2007 11:12:10. Energy cal. oper.: PROCOUNT USER
Detector name : GAMMA2 Counting geometry: 400 ml sand
Effic. cal. time : 1-MAY-2007 11:13:44. Effic. cal. oper.: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)
a1=9.47750E+02 a2=-4.68491E+00 a3=7.34327E-01 a4=7.12916E-02
a5=8.21331E-02 a6=-7.02143E-02 a7=0.00000E+00

---- Processing Parameters ----

Start channel : 80 End channel : 4096
Sensitivity : 5.00000 Gaussian Sens. : 10.00000
Critical level? : Yes Propagate Errors?: Yes
Empirical Eff? : No Library-based eff: Yes
Energy tolerance : 1.00000 Half life ratio : 8.00000
Abundance limit : 68.00000 WTM error limit : 3.00000
MDA Width (FWHM) : 3.00000 MDA Confid Level : 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA2__16286.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: _____ Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.81	390	581	0.99	149.20	145	12	21.8	1.21E+00	AM-243
										PB-214
										PB-212
2	77.09	617	546	0.94	153.75	145	12	14.6		PB-214
										PB-212
6	86.98*	295	461	1.38	173.44	170	23	25.4	1.96E+00	NP-237
										PB-214
										PB-212
6	92.79*	291	688	1.64	185.01	170	23	37.8		
0	128.83	79	503	1.00	256.77	254	7	96.6		AC-228
0	186.09*	301	507	1.22	370.79	366	10	31.2		
0	209.45	114	552	0.94	417.32	412	10	79.6		AC-228
2	238.74*	1485	321	1.10	475.66	469	19	6.6	7.53E-01	PB-212
2	241.16	154	345	1.38	480.49	469	19	62.1		
2	242.19	238	297	1.11	482.54	469	19	29.4		PB-214
0	271.03	135	387	1.04	539.98	535	11	59.1		AC-228
0	295.42*	630	247	1.35	588.58	583	11	12.6		PB-214
0	300.64	153	263	1.65	598.97	594	11	44.0		PB-212
0	328.55	78	237	0.79	654.59	650	9	75.4		
0	338.48*	264	268	1.07	674.37	670	10	26.5		AC-228
0	352.16*	986	305	1.33	701.63	695	13	9.8		PB-214
0	463.36	121	168	1.01	923.26	917	12	46.6		AC-228
0	510.87*	188	191	1.61	1017.96	1010	15	38.7		TL-208
0	583.26*	426	163	1.30	1162.30	1156	13	15.8		TL-208
0	609.47*	668	114	1.45	1214.57	1209	12	10.2		BI-214
0	661.48	101	80	1.15	1318.30	1313	10	38.5		CS-137
0	727.70	76	93	1.42	1450.39	1445	10	52.8		BI-212
0	769.15	179	87	5.08	1533.08	1523	21	30.3		BI-214
0	860.69*	44	70	1.54	1715.75	1710	11	80.8		TL-208
0	910.99*	364	63	1.66	1816.15	1807	18	14.8		AC-228
0	934.33	34	79	1.04	1862.74	1856	14	115.6		BI-214
0	969.29*	141	124	1.43	1932.53	1926	15	39.7		AC-228
0	1120.11*	157	64	1.51	2233.70	2226	16	28.0		BI-214
0	1377.62	64	34	1.69	2748.25	2741	17	50.4		BI-214
0	1459.70*	605	22	1.95	2912.36	2904	18	9.1		K-40
0	1509.55	23	38	0.57	3012.03	3004	17	127.3		BI-214
0	1727.92	40	16	2.09	3448.88	3441	16	54.8		BI-214
0	1762.52*	114	4	2.98	3518.13	3512	14	21.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	92.79	291	688	1.64	185.01	170	23	2.69E-02	37.8	2.70E+00	T
0	186.09	301	507	1.22	370.79	366	10	2.78E-02	31.2	3.21E+00	
2	241.16	154	345	1.38	480.49	469	19	1.42E-02	62.1	2.78E+00	
0	328.55	78	237	0.79	654.59	650	9	7.21E-03	75.4	2.20E+00	

Flags: "T" = Tentatively associated

Combined Activity-MDA Report
Sample ID : OH207-7928-02
Acquisition date : 9-NOV-2007 00:14:01

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.343E+00	5.956E-01	2.520E-01	1.622E-02	21.200
CS-137	6.238E-02	2.506E-02	3.246E-02	3.693E-03	1.922
TL-208	2.376E-01	4.504E-02	2.716E-02	2.828E-03	8.751
BI-212	3.616E-01	1.950E-01	2.393E-01	2.616E-02	1.511
PB-212	7.779E-01	7.870E-02	4.513E-02	3.449E-03	17.236
BI-214	7.080E-01	1.044E-01	4.982E-02	5.305E-03	14.212
PB-214	8.032E-01	9.996E-02	5.589E-02	4.285E-03	14.372
AC-228	9.427E-01	1.620E-01	8.718E-02	7.576E-03	10.813
NP-237	6.108E-01	1.730E-01	2.456E-01	3.087E-02	2.486
AM-243	1.866E-01	5.516E-02	5.290E-02	1.054E-02	3.528

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.350E-03		1.570E-02	2.744E-02	1.516E-03	-0.231
RH-101	-2.650E-03		1.701E-02	2.744E-02	4.284E-03	-0.097
SB-125	1.106E-02		4.431E-02	7.649E-02	6.271E-03	0.145
EU-155	2.860E-02		6.048E-02	1.028E-01	9.621E-03	0.278
PO-209	-1.631E+00		3.165E+00	5.277E+00	1.012E+00	-0.309
BI-211	-3.220E-01		4.449E-01	7.336E-01	7.181E-02	-0.439
RA-223	2.203E-01		1.036E-01	1.706E-01	1.517E-02	1.292
PA-233	2.158E-02		2.894E-02	5.153E-02	4.151E-03	0.419
PA-234M	2.310E+00		1.966E+00	3.761E+00	2.936E-01	0.614
TH-234	1.266E+00	+	4.951E-01	5.950E-01	5.951E-02	2.129
U-235	9.254E-02		1.068E-01	1.796E-01	1.311E-02	0.515
NP-236	9.739E-03		3.748E-02	5.695E-02	5.661E-03	0.171
NP-239	-3.766E-02		1.031E-01	1.770E-01	2.388E-02	-0.213
AM-241	-4.700E-02		8.902E-02	1.498E-01	9.824E-03	-0.314
CM-243	-2.221E-02		5.382E-02	8.888E-02	9.609E-03	-0.250
AM-246	2.393E-02		6.230E-02	1.112E-01	1.422E-02	0.215
CF-249	4.622E-03		1.870E-02	3.237E-02	3.102E-03	0.143

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 9-NOV-2007 03:15:47

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207792803_GAMMA3_400MLSAN_17074.CNF

---- Sample Information ----

Sample ID	: OH207-7928-03		
Sample Title	: SB-CZ-SS-2189-SD		
Sample Quantity	: 3.86100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 17074		

---- Sample Decay/Count Information ----

Collection Date	: 24-SEP-2007 00:00:00	Acquisition date	: 9-NOV-2007 00:15:32.
Decay time	: 46 00:15:32.39	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.90

---- Detector Parameters ----

Energy cal. time	: 30-OCT-2006 16:06:41	Energy cal. oper.	: PROCOUNT USER
Detector name	: GAMMA3	Counting geometry	: 400 ml sand
Effic. cal. time	: 7-FEB-2007 13:40:24.	Effic. cal. oper.	: PROCOUNT USER

Efficiency Equation:

Eff = exp(a2 + a3*x + a4*x**2 + a5*x**3 + a6*x**4 + a7*x**5

where:
x=ln(a1/energy)

a1=9.47750E+02	a2=-4.85663E+00	a3=8.12782E-01	a4=8.53513E-02
a5=-4.88423E-02	a6=-7.49502E-03	a7=0.00000E+00	

---- Processing Parameters ----

Start channel	: 80	End channel	: 4096
Sensitivity	: 5.00000	Gaussian Sens.	: 10.00000
Critical level?	: Yes	Propagate Errors?	: Yes
Empirical Eff?	: No	Library-based eff	: Yes
Energy tolerance	: 1.00000	Half life ratio	: 8.00000
Abundance limit	: 68.00000	WTM error limit	: 3.00000
MDA Width (FWHM)	: 3.00000	MDA Confid Level	: 5.00000 %

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG100507_GAMMA3__16287.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T M Moore Date: 11/12/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.67*	127	353	1.30	103.75	99	10	61.9		
1	74.83*	586	737	1.44	166.19	158	19	20.0	1.18E+00	AM-243
										PB-214
										PB-212
1	77.14*	830	582	1.26	171.29	158	19	13.0		PB-214
										PB-212
1	87.25	365	570	1.47	193.70	184	30	26.4	2.48E+00	NP-237
										PB-214
										PB-212
1	90.03	250	491	1.34	199.86	184	30	35.3		
1	92.66*	229	462	1.38	205.70	184	30	42.5		
0	185.92*	234	563	1.61	412.42	406	13	45.5		
0	209.34	135	369	1.51	464.32	460	11	57.5		AC-228
3	238.63*	1134	284	1.31	529.24	522	21	8.3	9.98E-01	PB-212
3	241.72	305	344	1.81	536.09	522	21	31.3		PB-214
0	270.58	192	318	1.73	600.07	593	15	43.0		RA-223
										AC-228
0	295.10	478	242	1.37	654.41	646	14	16.5		PB-214
0	328.10	79	108	1.17	727.55	724	7	49.3		
0	338.39*	266	215	1.32	750.38	744	13	26.0		AC-228
0	351.94*	740	223	1.56	780.41	773	14	11.4		PB-214
0	463.01	88	108	2.07	1026.57	1022	10	49.2		AC-228
0	510.38*	147	144	1.89	1131.58	1122	16	46.2		TL-208
0	583.27*	466	146	1.51	1293.12	1284	18	15.5		TL-208
0	609.32*	470	139	1.71	1350.86	1343	15	14.5		BI-214
0	727.19	138	56	1.68	1612.09	1605	14	28.6		BI-212
0	768.12	40	106	1.19	1702.81	1697	14	113.1		BI-214
0	794.80	54	52	1.44	1761.93	1757	10	56.6		AC-228
0	910.96*	259	80	1.50	2019.37	2012	14	19.6		AC-228
0	969.30	154	72	1.69	2148.68	2142	17	31.5		AC-228
0	1119.84*	122	64	1.94	2482.29	2471	20	37.4		BI-214
0	1238.82	75	61	2.11	2745.95	2734	25	61.2		BI-214
0	1377.78	38	15	1.42	3053.90	3048	12	51.7		BI-214
0	1460.71*	518	9	2.16	3237.67	3229	16	9.4		K-40
0	1764.38*	105	5	1.06	3910.57	3901	19	22.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.67	127	353	1.30	103.75	99	10	1.18E-02	61.9	2.77E+00	
1	90.03	250	491	1.34	199.86	184	30	2.32E-02	35.3	3.55E+00	
1	92.66	229	462	1.38	205.70	184	30	2.12E-02	42.5	3.55E+00	T
0	185.92	234	563	1.61	412.42	406	13	2.16E-02	45.5	2.82E+00	
0	328.10	79	108	1.17	727.55	724	7	7.30E-03	49.3	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.649E+00	6.258E-01	2.786E-01	1.639E-02	20.275
TL-208	3.056E-01	5.336E-02	3.142E-02	2.501E-03	9.726
BI-212	7.821E-01	2.309E-01	2.269E-01	1.647E-02	3.446
PB-212	7.066E-01	7.882E-02	4.954E-02	3.703E-03	14.263
BI-214	5.863E-01	9.593E-02	6.065E-02	4.621E-03	9.667
PB-214	7.126E-01	9.894E-02	6.545E-02	5.207E-03	10.888
RA-223	4.124E-01	1.811E-01	1.696E-01	1.501E-02	2.432
AC-228	8.087E-01	1.681E-01	1.158E-01	8.144E-03	6.982
NP-237	5.367E-01	1.536E-01	1.630E-01	1.817E-02	3.292
AM-243	1.594E-01	4.428E-02	3.395E-02	6.529E-03	4.695

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.047E-03		2.092E-02	3.740E-02	2.276E-03	0.055
RH-101	-1.776E-02		1.989E-02	3.226E-02	4.979E-03	-0.551
SB-125	-2.761E-02		5.219E-02	8.862E-02	7.326E-03	-0.312
CS-137	4.175E-02		2.465E-02	4.592E-02	3.306E-03	0.909
EU-155	2.859E-02		5.518E-02	9.659E-02	9.083E-03	0.296
PO-209	5.217E-01		3.770E+00	6.822E+00	1.257E+00	0.076
BI-211	-4.407E-01		5.701E-01	9.162E-01	6.598E-02	-0.481
PA-233	2.019E-02		3.706E-02	6.384E-02	5.210E-03	0.316
PA-234M	2.877E-01		2.341E+00	4.177E+00	2.852E-01	0.069
TH-234	7.725E-01	+	3.353E-01	5.342E-01	4.783E-02	1.446
U-235	6.479E-02		1.172E-01	2.036E-01	1.511E-02	0.318
NP-236	6.666E-03		3.571E-02	5.137E-02	4.903E-03	0.130
NP-239	5.457E-03		1.260E-01	2.137E-01	2.859E-02	0.026
AM-241	-1.422E-01		4.180E-02	6.044E-02	3.825E-03	-2.353
CM-243	3.595E-03		5.002E-02	8.660E-02	9.332E-03	0.042
AM-246	-1.339E-02		7.251E-02	1.267E-01	1.599E-02	-0.106
CF-249	-6.881E-03		2.176E-02	3.753E-02	3.738E-03	-0.183

Analytical Report For 710048

for

SC&A, Inc.

Project Manager: Cynthia White

Project Name: Cabrera-Schofield CZ

GPL

Laboratories

GPL Laboratories, LLLP certifies that the test results meet all requirements of the NELAC Standards unless otherwise noted.

Pat Huebschen

Reviewed By,
Project Manager

Approved By,
Laboratory Director

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Thirty-four soil samples were received on 10/08/2007. The samples were delivered by Federal Express. Sample receipt conditions and temperatures are documented on the Sample Receipt checklist.

The samples were received pre-dried and homogenized by SC&A. The Pb results presented in this report are not corrected for percent solids.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report. Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

Thirty-four soil samples were analyzed for lead only by EPA SW846 method.

The samples were assumed 100 percent solid.

The matrix spike, matrix spike duplicate, and serial dilutions were performed on soil samples SB-CZ-SS-2173-ST, and SB-CZ-SS-2179-SD for lead. They were within the control limits

Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.

All GPL QA/QC criteria were met.

Reviewed By,
Project Manager

Approved By,
Laboratory Director

Sample Summary Report

SC&A, Inc.

Work Order: 710048

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2173-SD	710048-015-015-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2173-ST	710048-001-001-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2174-SD	710048-016-016-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2174-ST	710048-002-002-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2175-SD	710048-017-017-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2175-ST	710048-003-003-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2176-SD	710048-018-018-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2176-ST	710048-004-004-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2177-SD	710048-019-019-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2177-ST	710048-005-005-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2178-SD	710048-020-020-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2178-ST	710048-006-006-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2179-SD	710048-021-021-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2179-ST	710048-007-007-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2180-SD	710048-022-022-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2180-ST	710048-008-008-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2181-SD	710048-023-023-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2181-ST	710048-009-009-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2182-SD	710048-024-024-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2182-ST	710048-010-010-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2183-SD	710048-025-025-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2183-ST	710048-011-011-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2184-SD	710048-026-026-1/1	SW6010C	SOIL	09/24/2007	10/08/2007

Sample Summary Report

SC&A, Inc.

Work Order: 710048

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2184-ST	710048-012-012-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2185-SD	710048-027-027-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2185-ST	710048-013-013-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2186-SD	710048-028-028-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2186-ST	710048-014-014-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2187-SD	710048-032-032-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2187-ST	710048-029-029-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2188-SD	710048-033-033-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2188-ST	710048-030-030-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2189-SD	710048-034-034-1/1	SW6010C	SOIL	09/24/2007	10/08/2007
SB-CZ-SS-2189-ST	710048-031-031-1/1	SW6010C	SOIL	09/24/2007	10/08/2007

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2173-ST	Lab Sample ID:	710048-001-001-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**58.7**	**D**	**9**	**10**	**mg/kg**	**10/16/07**	**14:30**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2174-ST	Lab Sample ID:	710048-002-002-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**60.1**	**D**	**8.9**	**10**	**mg/kg**	**10/16/07**	**15:41**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2175-ST	Lab Sample ID:	710048-003-003-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**22.6**	**D**	**8**	**10**	**mg/kg**	**10/16/07**	**15:50**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2176-ST	Lab Sample ID:	710048-004-004-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**44.6**	**D**	**8.2**	**10**	**mg/kg**	**10/16/07**	**16:00**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2177-ST	Lab Sample ID:	710048-005-005-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**18.0**	**D**	**8.9**	**10**	**mg/kg**	**10/16/07**	**16:09**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2178-ST	Lab Sample ID:	710048-006-006-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**25.0**	**D**	**8.8**	**10**	**mg/kg**	**10/16/07**	**16:18**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2179-ST	Lab Sample ID:	710048-007-007-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**52.5**	**D**	**8.8**	**10**	**mg/kg**	**10/16/07**	**16:28**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2180-ST	Lab Sample ID:	710048-008-008-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**53.9**	**D**	**9**	**10**	**mg/kg**	**10/16/07**	**16:37**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2181-ST	Lab Sample ID:	710048-009-009-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**28.5**	**D**	**8.5**	**10**	**mg/kg**	**10/16/07**	**16:47**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2182-ST	Lab Sample ID:	710048-010-010-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**47.9**	**D**	**8.6**	**10**	**mg/kg**	**10/16/07**	**16:56**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2183-ST	Lab Sample ID:	710048-011-011-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**27.3**	**D**	**8.2**	**10**	**mg/kg**	**10/16/07**	**17:05**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2184-ST	Lab Sample ID:	710048-012-012-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**24.6**	**D**	**7.9**	**10**	**mg/kg**	**10/16/07**	**17:36**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2185-ST	Lab Sample ID:	710048-013-013-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**22.0**	**D**	**8.9**	**10**	**mg/kg**	**10/16/07**	**17:46**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2186-ST	Lab Sample ID:	710048-014-014-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**24.0**	**D**	**7.9**	**10**	**mg/kg**	**10/16/07**	**17:55**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2173-SD	Lab Sample ID:	710048-015-015-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**52.1**	**D**	**8.8**	**10**	**mg/kg**	**10/16/07**	**18:05**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2174-SD	Lab Sample ID:	710048-016-016-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**31.4**	**D**	**8.1**	**10**	**mg/kg**	**10/16/07**	**18:14**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2175-SD	Lab Sample ID:	710048-017-017-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**29.0**	**D**	**8.1**	**10**	**mg/kg**	**10/16/07**	**18:23**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2176-SD	Lab Sample ID:	710048-018-018-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**22.3**	**D**	**8.9**	**10**	**mg/kg**	**10/16/07**	**18:32**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2177-SD	Lab Sample ID:	710048-019-019-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**34.2**	**D**	**8.5**	**10**	**mg/kg**	**10/16/07**	**18:42**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2178-SD	Lab Sample ID:	710048-020-020-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**25.0**	**D**	**8**	**10**	**mg/kg**	**10/16/07**	**18:51**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2179-SD	Lab Sample ID:	710048-021-021-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**61.4**	**D**	**8.5**	**10**	**mg/kg**	**10/16/07**	**19:41**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2180-SD	Lab Sample ID:	710048-022-022-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**23.1**	**D**	**8.4**	**10**	**mg/kg**	**10/16/07**	**21:08**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2181-SD	Lab Sample ID:	710048-023-023-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**10.8**	**D**	**8.3**	**10**	**mg/kg**	**10/16/07**	**21:17**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2182-SD	Lab Sample ID:	710048-024-024-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**19.2**	**D**	**8.3**	**10**	**mg/kg**	**10/16/07**	**21:26**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2183-SD	Lab Sample ID:	710048-025-025-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**21.7**	**D**	**8.7**	**10**	**mg/kg**	**10/16/07**	**21:36**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2184-SD	Lab Sample ID:	710048-026-026-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**20.5**	**D**	**8.7**	**10**	**mg/kg**	**10/16/07**	**21:45**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2185-SD	Lab Sample ID:	710048-027-027-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**14.7**	**D**	**8.6**	**10**	**mg/kg**	**10/16/07**	**21:54**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2186-SD	Lab Sample ID:	710048-028-028-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**21.2**	**D**	**8.7**	**10**	**mg/kg**	**10/16/07**	**22:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2187-ST	Lab Sample ID:	710048-029-029-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**52.4**	**D**	**8.3**	**10**	**mg/kg**	**10/16/07**	**22:13**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2188-ST	Lab Sample ID:	710048-030-030-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**55.5**	**D**	**8**	**10**	**mg/kg**	**10/16/07**	**22:23**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2189-ST	Lab Sample ID:	710048-031-031-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**39.3**	**D**	**8.7**	**10**	**mg/kg**	**10/16/07**	**22:54**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2187-SD	Lab Sample ID:	710048-032-032-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**8.7**	**D**	**8.4**	**10**	**mg/kg**	**10/16/07**	**23:03**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2188-SD	Lab Sample ID:	710048-033-033-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**17.4**	**D**	**8.1**	**10**	**mg/kg**	**10/16/07**	**23:13**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2189-SD	Lab Sample ID:	710048-034-034-1/1
Sample Date/Time:	09/24/2007 11:22	Percent Moisture:	NA
Receipt Date/Time:	10/08/2007 11:08	Preparation Method:	SW3050B
Prepared Date/Time:	10/10/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**17.8**	**D**	**8**	**10**	**mg/kg**	**10/16/07**	**23:22**

Qualifier Definitions

SC&A, Inc.

Work Order: 710048

All Departments

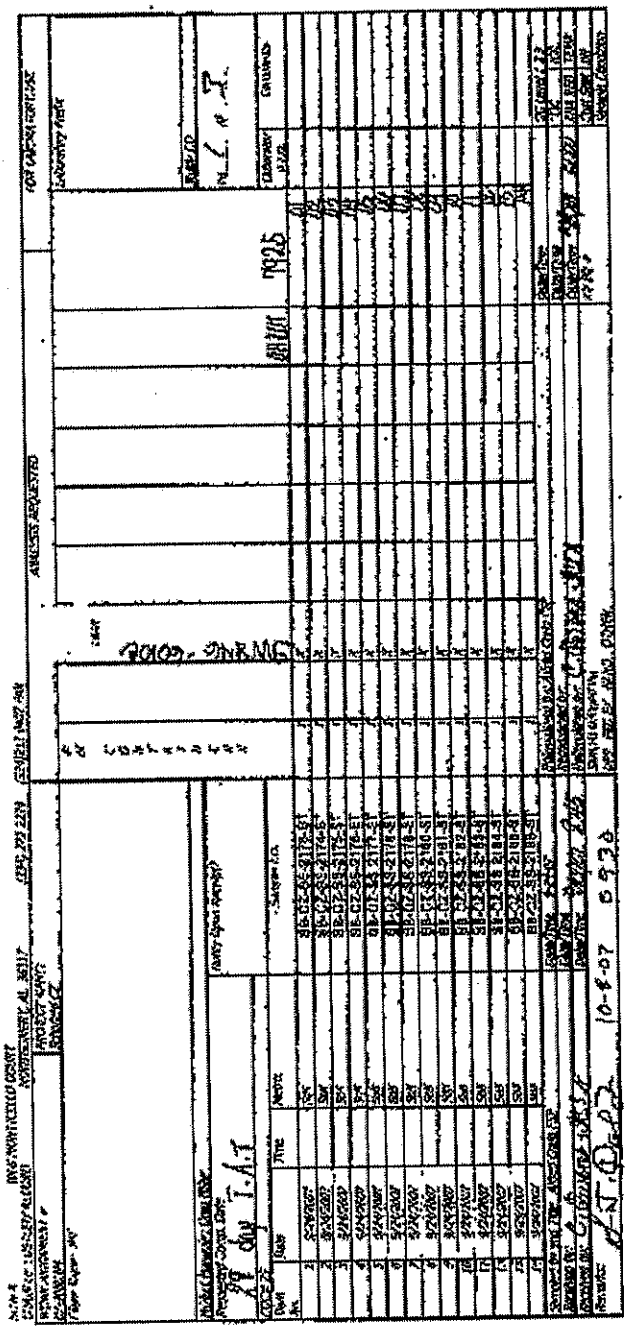
U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

Organics

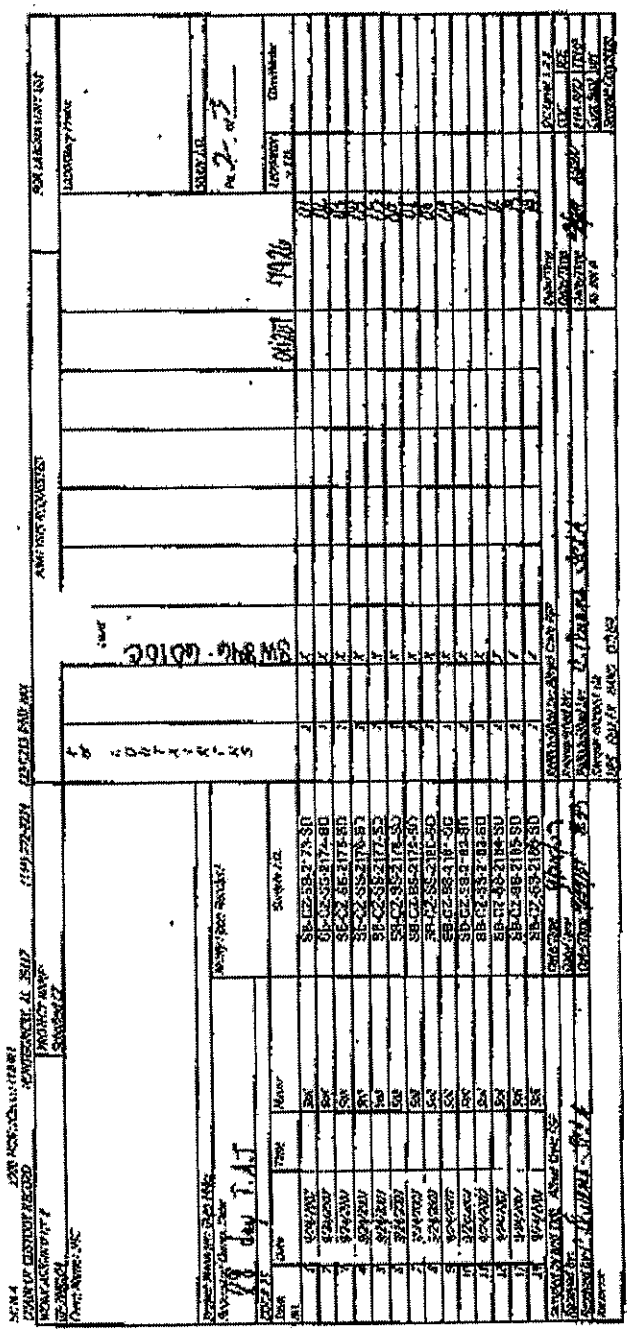
B	Indicates that the analyte was found in the associated blank as well as in the sample
D	Indicates that the analyte was reported from a diluted analysis
E	Indicates that the concentration detected exceeded the calibration range of the instrument
J	Value is less than the reporting limit but greater than the MDL
P	Indicates that there is greater than 25% difference for detected pesticide/Arochlor results between the two GC columns

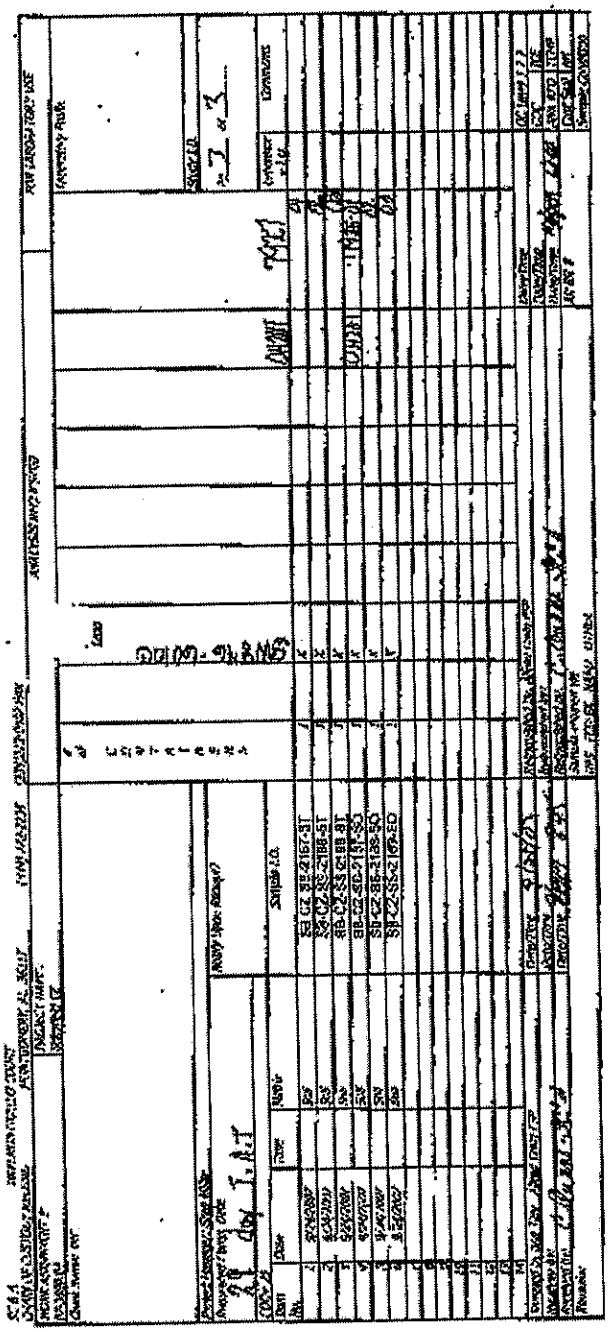
Metals

J	Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL
E	Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)
H	Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit
D	Indicates that the analyte was reported from a diluted analysis
N	Spiked sample recovery not within control limits
*	Duplicate analysis not within control limits



WO# 710048





SC&A Laboratory Radiological Survey Results

Dose Rate Instrument - Gamma	
Instrument Mfg. Ludlum	
Model Number 19	
Serial Number 51849	

Alpha Survey Instrument	
Instrument Mfg. Ludlum	Detector Mfg. Ludlum
Model Number 16	Model Number 43-5
Serial Number 56585	Serial Number PR 067187

Beta/Gamma Survey Instrument	
Instrument Mfg. Ludlum	Detector Mfg. Ludlum
Model Number 3	Model Number 44-9
Serial Number 120189	Serial Number PR 067189

Maximum Permissible Limits For Unrestricted Use		
220 cpm/100 cm² - Alpha (48 CFR 179.443)	2200 dpm/100 cm² - Beta (48 CFR 179.443)	0.5 mR/hr - Gamma (48 CFR 179.422)
Equivalent net cpm: Probe 43-5 45 cpm Probe 43-93 35 cpm	Equivalent net cpm: Probe 44-9 60 cpm Probe 44-94 270 cpm	>1300 R/hr - probably in hood

Location	Date	Time	Gamma			Alpha			Beta/Gamma		
			Background cpm	Gross cpm	Net cpm	Background cpm	Gross cpm	Net cpm	Background cpm	Gross cpm	Net cpm
Outside Cooler / Box											
Inside Cooler / Box											
Sample(s)	10/29	1145	5	7	2	0	0	0	48	78	30
Outside Cooler / Box											
Inside Cooler / Box											
Sample(s)											
Outside Cooler / Box											
Inside Cooler / Box											
Sample(s)											
Outside Cooler / Box											
Inside Cooler / Box											
Sample(s)											

Surveyed By: _____

SC&A - Southeastern Environmental Laboratory
SCA-form VG-3 Rev 1

FedEx Ship Manager | Label 792432737849

Page 1 of 1

From: Origin ID:MGMA (334)272-2234
Angie Lewis
SC&A, Inc.
1000 Monticello Dr
Montgomery, AL 36117

FedEx Express

Ship Date 05OCT07
ActWgt 5LB
System#: 3098922/NET7091
Account#: S

Delivery Address Bar Code

SHIP TO (301)694-5310 BILL SENDER
Pat Huebschmen
GPL Laboratories
7210A Corporate Court

Frederick, MD 21703

Ref # FDA/12/L
Invoice #
PO #
Dept #

TRK# 0201 7924 3273 7849

MON - 08OCT A2
PRIORITY OVERNIGHT

FE-FDKA

IAD
MD-US
21703

Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

https://www.fedex.com/ship/domesticShipmentAction.do?method=doProcessShipment 10/5/2007

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 710048
Client Name: SC&A
Date Received: 10-8-07
Time Received: 0930
Received By: Steve

Carrier Name: Fed-Ex
Prepared (Logged In) By: LJG / 10-8-07 (Initials / Date)
Project
Site
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present?	✓	
No. 7924 3373 7449		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Broken		
Intact-not dated or signed		
Intact-dated and signed	✓	
Usage of Tamper Evident Tape		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container?	✓	
Type of Packing: Ziploc		
Custody seals on Sample Bottles?		✓
Condition: Good ___ Broken ___		
Total Number of Sample Bottles: 34		
Total Number of Samples: 34		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets		✓
Field Blanks: No. of Sets		✓
Equip. Blanks: No. of Sets		✓
Field Duplicate: No. of Sets		✓
MS/MSD: No. of Sets		✓
VOA Vials Have Zero Headspace?	✓	
If no, smaller or greater than a Green Pea (see comments)		
Preservatives Added to Sample?		✓
pH Check Required?		✓
Performed By?		✓
Ice Present in Shipping Container?		✓

Container #	Temp.	Container #	Temp.
1			
LJG			

Project Manager Contacted?
Name: Paul
Date Contacted: 10-8-07

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or containers, they should be marked N/A

COMMENTS: _____

Checklist Completed By: L J Gold
Date: 10-8-07

SOP No: F-2V1.6

TRACE METALS

GPL Laboratories

USEPA - CLP

COVER PAGE

Lab Name: GPL LABORATORIES, LLLP Contract:

Lab Code: Case No.: NRAS No.: SDG No.: 710048

SOW No.: SW846

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2173-SD	S 710048-015-015-1/1
SB-CZ-SS-2173-ST	S 710048-001-001-1/1
SB-CZ-SS-2173-ST MS	SP710048-001-001-1/1
SB-CZ-SS-2173-ST MSD	SD710048-001-001-1/1
SB-CZ-SS-2174-SD	S 710048-016-016-1/1
SB-CZ-SS-2174-ST	S 710048-002-002-1/1
SB-CZ-SS-2175-SD	S 710048-017-017-1/1
SB-CZ-SS-2175-ST	S 710048-003-003-1/1
SB-CZ-SS-2176-SD	S 710048-018-018-1/1
SB-CZ-SS-2176-ST	S 710048-004-004-1/1
SB-CZ-SS-2177-SD	S 710048-019-019-1/1
SB-CZ-SS-2177-ST	S 710048-005-005-1/1
SB-CZ-SS-2178-SD	S 710048-020-020-1/1
SB-CZ-SS-2178-ST	S 710048-006-006-1/1
SB-CZ-SS-2179-SD	S 710048-021-021-1/1
SB-CZ-SS-2179-SD MS	SP710048-021-021-1/1
SB-CZ-SS-2179-SD MSD	SD710048-021-021-1/1
SB-CZ-SS-2179-ST	S 710048-007-007-1/1
SB-CZ-SS-2180-SD	S 710048-022-022-1/1
SB-CZ-SS-2180-ST	S 710048-008-008-1/1
SB-CZ-SS-2181-SD	S 710048-023-023-1/1
SB-CZ-SS-2181-ST	S 710048-009-009-1/1
SB-CZ-SS-2182-SD	S 710048-024-024-1/1
SB-CZ-SS-2182-ST	S 710048-010-010-1/1
SB-CZ-SS-2183-SD	S 710048-025-025-1/1
SB-CZ-SS-2183-ST	S 710048-011-011-1/1
SB-CZ-SS-2184-SD	S 710048-026-026-1/1
SB-CZ-SS-2184-ST	S 710048-012-012-1/1
SB-CZ-SS-2185-SD	S 710048-027-027-1/1
SB-CZ-SS-2185-ST	S 710048-013-013-1/1
SB-CZ-SS-2186-SD	S 710048-028-028-1/1
SB-CZ-SS-2186-ST	S 710048-014-014-1/1
SB-CZ-SS-2187-SD	S 710048-032-032-1/1
SB-CZ-SS-2187-ST	S 710048-029-029-1/1
SB-CZ-SS-2188-SD	S 710048-033-033-1/1

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2188-ST	S 710048-030-030-1/1
SB-CZ-SS-2189-SD	S 710048-034-034-1/1
SB-CZ-SS-2189-ST	S 710048-031-031-1/1

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	YES
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	YES
if yes, were raw data generated before application of background corrections?	(Yes/No)	NO	YES

Comments:

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as referred by the following signature.

Signature: _____ Name: Richard Travers

Date: 10/22/2007 Title: Production Manager

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-001-001-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2173-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	9.0	58.7	D	10	10/16/07 14:30

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-002-002-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2174-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.9	60.1	D	10	10/16/07 15:41

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-003-003-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2175-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	8.0	22.6	D	10	10/16/07 15:50

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-004-004-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2176-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.2	44.6	D	10	10/16/07 16:00

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-005-005-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2177-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.9	18.0	D	10	10/16/07 16:09

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-006-006-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2178-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.8	25.0	D	10	10/16/07 16:18

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-007-007-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2179-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.8	52.5	D	10	10/16/07 16:28

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-008-008-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2180-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	9.0	53.9	D	10	10/16/07 16:37

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-009-009-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2181-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.5	28.5	D	10	10/16/07 16:47

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-010-010-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2182-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.6	47.9	D	10	10/16/07 16:56

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-011-011-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2183-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.2	27.3	D	10	10/16/07 17:05

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-012-012-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2184-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	7.9	24.6	D	10	10/16/07 17:36

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-013-013-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2185-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.9	22.0	D	10	10/16/07 17:46

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-014-014-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2186-ST	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	7.9	24.0	D	10	10/16/07 17:55

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-015-015-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2173-SD	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.8	52.1	D	10	10/16/07 18:05

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-016-016-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2174-SD	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	8.1	31.4	D	10	10/16/07 18:14

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-017-017-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2175-SD	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	8.1	29.0	D	10	10/16/07 18:23

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-018-018-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2176-SD	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.9	22.3	D	10	10/16/07 18:32

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-019-019-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2177-SD	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.5	34.2	D	10	10/16/07 18:42

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-020-020-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2178-SD	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	8.0	25.0	D	10	10/16/07 18:51

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-021-021-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2179-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.5	61.4	D	10	10/16/07 19:41

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-022-022-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2180-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.4	23.1	D	10	10/16/07 21:08

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-023-023-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2181-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.3	10.8	D	10	10/16/07 21:17

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-024-024-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2182-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.3	19.2	D	10	10/16/07 21:26

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-025-025-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2183-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.7	21.7	D	10	10/16/07 21:36

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-026-026-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2184-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.7	20.5	D	10	10/16/07 21:45

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-027-027-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2185-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.6	14.7	D	10	10/16/07 21:54

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-028-028-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2186-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.7	21.2	D	10	10/16/07 22:04

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-029-029-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2187-ST	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.3	52.4	D	10	10/16/07 22:13

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-030-030-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2188-ST	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	8.0	55.5	D	10	10/16/07 22:23

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-031-031-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2189-ST	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.7	8.7	39.3	D	10	10/16/07 22:54

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-032-032-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2187-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.6	8.4	8.7	D	10	10/16/07 23:03

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-033-033-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2188-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	8.1	17.4	D	10	10/16/07 23:13

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Sample Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	S 710048-034-034-1/1	Percent Moisture:	0.0
Client Sample ID:	SB-CZ-SS-2189-SD	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	1.5	8.0	17.8	D	10	10/16/07 23:22

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

URIT Version 4.3.4

SW846

GPL Laboratories, LLLP

Preparation Blank Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	BLK100882	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100882
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	0.19	1.0	0.19	U	1	10/16/07 14:11

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Preparation Blank Results

Project:	710048	Matrix:	Soil
Lab Sample ID:	BLK100932	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100932
Analysis Method:	6010 ICP Analysis	Reporting Units:	mg/kg

Analyte	WL/ Mass	Method Detection Limit	Reporting Limit	Reported Result	Q	Dilution Factor	Analysis Date/Time
Lead	220.353	0.19	1.0	0.19	U	1	10/16/07 19:22

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

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Initial Calibration Verification

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:	AB.ST.	Standard ID:	

Analyte	True	IVICV 10/16/2007 12:00:00 PM							
		Found	%R	Found	%R	Found	%R	Found	%R
Lead	400.0	416.47	104						

GPL Laboratories, LLLP

Continuing Calibration Verification

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	True	CVCCV1 10/16/2007 12:19:00 PM		CVCCV2 10/16/2007 1:21:00 PM		CVCCV3 10/16/2007 3:19:00 PM		CVCCV4 10/16/2007 5:18:00 PM	
		Found	%R	Found	%R	Found	%R	Found	%R
Lead	500.0	497.37	99	496.94	99	483.82	97	490.92	98

GPL Laboratories, LLLP

Continuing Calibration Verification

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	True	CVCCV5 10/16/2007 7:03:00 PM		CVCCV6 10/16/2007 8:49:00 PM		CVCCV7 10/16/2007 10:35:00 PM		CVCCV8 10/16/2007 11:56:00 PM	
		Found	%R	Found	%R	Found	%R	Found	%R
Lead	500.0	491.09	98	492.83	99	496.44	99	499.73	100

GPL Laboratories, LLLP

Low Level Check Standard

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	True	PQL 10/16/2007 12:38:00 PM							
		Found	%R	Found	%R	Found	%R	Found	%R
Lead	10.0	9.33	93						

GPL Laboratories, LLLP

Initial Calibration Blanks

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:		Standard ID:	

Analyte	RL	IBICB 10/16/2007 12:10:00 PM							
		Found	Flag	Found	Flag	Found	Flag	Found	Flag
Lead	10.00	1.90	U						

GPL Laboratories, LLLP

Continuing Calibration Blanks

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:		Standard ID:	

Analyte	RL	BCCCB1 10/16/2007 12:28:00 PM		BCCCB2 10/16/2007 1:31:00 PM		BCCCB3 10/16/2007 3:29:00 PM		BCCCB4 10/16/2007 5:27:00 PM	
		Found	Flag	Found	Flag	Found	Flag	Found	Flag
Lead	10.00	1.90	U	1.90	U	1.90	U	1.90	U

GPL Laboratories, LLLP

Continuing Calibration Blanks

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:		Standard ID:	

Analyte	RL	BCCCB5 10/16/2007 7:13:00 PM		BCCCB6 10/16/2007 8:58:00 PM		BCCCB7 10/16/2007 10:44:00 PM		BCCCB8 10/17/2007 12:05:00 AM	
		Found	Flag	Found	Flag	Found	Flag	Found	Flag
Lead	10.00	1.90	U	1.90	U	1.90	U	1.90	U

GPL Laboratories, LLLP

Interference Check Standards

Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC
Standard Source:	H.P./ AB.ST.	Standard ID:	

Analyte	RL	True		Initial Found				Final Found			
		Sol. A	Sol. B	IAICSAI 10/16/07 12:47	%R	IBICSABI 10/16/07 12:57	%R		%R		%R
Lead	10		50	5.5		51.3	103				

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2173-ST MS	Lab Sample ID:	SP710048-001-001-1/1
Project:	710048	Instrument:	P3050
Units:	mg/kg	Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/16/07 14:39	Sample Result 10/16/07 14:30	Spike Added	%R
Lead	141.72	58.71	85.47	97

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2179-SD MS	Lab Sample ID:	SP710048-021-021-1/1
Project:	710048	Instrument:	P3050
Units:	mg/kg	Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/16/07 19:50	Sample Result 10/16/07 19:41	Spike Added	%R
Lead	148.12	61.36	84.03	103

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2173-ST MSD	Lab Sample ID:	SD710048-001-001-1/1
Project:	710048	Instrument:	P3050
Units:	mg/kg	Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/16/07 14:48	Sample Result 10/16/07 14:30	Spike Added	%R
Lead	140.45	58.71	83.33	98

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2179-SD MSD	Lab Sample ID:	SD710048-021-021-1/1
Project:	710048	Instrument:	P3050
Units:	mg/kg	Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/16/07 19:59	Sample Result 10/16/07 19:41	Spike Added	%R
Lead	148.67	61.36	82.64	106

GPL Laboratories, LLLP

Duplicates

Client ID:	SB-CZ-SS-2173-ST MSD	Lab Sample ID:	SD710048-001-001-1/1
Project:	710048	Instrument:	P3050
Units:	mg/kg	Data File Name:	071016.ARC

Analyte	Matrix Spike ~~Original~~ Sample Results RA 10-22	Matrix Spike Duplicate Sample Results	RPD	Control Limit	Q
Lead	141.72	140.45	1	20	D

GPL Laboratories, LLLP

Duplicates RPD

Client ID:	SB-CZ-SS-2179-SD MSD	Lab Sample ID:	SD710048-021-021-1/1
Project:	710048	Instrument:	P3050
Units:	mg/kg	Data File Name:	071016.ARC

Analyte	Matrix Spike Original Sample Results RA 10-2	Matrix Spike Duplicate Sample Results ^	RPD	Control Limit	Q
Lead	148.12	148.67	0	20	D

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	710048	Lab Sample ID:	BKS100882
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/16/07 14:20	Spike Added	%R
Lead	99.64	100.00	100

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	710048	Lab Sample ID:	BKS100932
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071016.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/16/07 19:31	Spike Added	%R
Lead	98.72	100.00	99

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Serial Dilutions

Client ID:	SB-CZ-SS-2173-ST	Lab Sample ID:	SE710048-001-001-1/1
Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC

Analyte	Sample Result 10/16/07 14:30	Serial Dilution Result 10/16/07 15:07	Percent Difference	Flag
Lead	65.17	70.55	8	

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Serial Dilutions

Client ID:	SB-CZ-SS-2179-SD	Lab Sample ID:	SE710048-021-021-1/1
Project:	710048	Instrument:	P3050
Units:	ug/L	Data File Name:	071016.ARC

Analyte	Sample Result 10/16/07 19:41	Serial Dilution Result 10/16/07 20:18	Percent Difference	Flag
Lead	71.79	75.47	5	

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Detection Limits

Project: 710048 Instrument: P3050

Units: ug/L

Analyte	Wavelength/Mass	Reporting Limit	Method Detection Limit	Date of MDL
Lead	220.353	10.0	1.9	07/23/07

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Metals Data Reporting Form

Inter-Element Correction Factors PURGE **SDG:** 710048

Instrument: ICPST **Date of IEC's:** 8/24/2007

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Cd(0.000003), Mn(0.000002), Pb(0.000438), Pb2(-0.000202), Te(-0.000119)
Barium	493.409	Co(-0.000567)
Boron	249.678	Co(-0.000013)
Chromium	267.716	As(-0.007595), Sb(0.006723), Si(-0.001324), Ti(0.000102), V(-0.002737)
Cobalt	228.616	Al(-0.018121), Fe(0.080405), Tl(0.004594)
Iron	271.441	B(-0.000018), Ba(0.000005), Be(0.000003), Cd(0.000075), Co(0.000005), Cr(-0.000017), Cu(-0.000006), Mg(0.000226), Mn(-0.000013), Na(-0.000725), Pb(0.000067), Sb(0.000028), Se(-0.000048), Sn(0.000015), Tl(0.000098), V(-0.000024), Zn(0.000007), Pb2(0.000039), Se2(-0.000397), Te(0.000292), Zr(-0.00005)
Magnesium	279.078	Fe(-0.000105)
Manganese	257.61	Ag(0.000096), Cr(0.000279), Se(0.000698), Tl(0.001214), Mg(-0.001697), Pb(ok to 20ppm) (Se2(0.[illegible]
Molybdenum	202.03	Al(0.00735), As(-0.000925), Be(-0.000091), Mn(-0.000359), Pb(-0.000907), Sb(-0.013295), Tl(-0.005404), V(-0.001104)
Nickel	231.604	Cd(-0.000067)
Titanium	334.941	Ag(-0.000019), B(0.000483), Be(-0.138072), Cd(0.000023), Co(0.002112), Cr(0.000068), Cu(-0.000108), Na(-0.14335), Pb(0.000249), Sb(0.00011), Sn(0.0012), Tl(0.000909), Pb2(-0.000907), Zr(0.000047), Te(0.003795)
Vanadium	292.402	Al(-0.004474), Be(0.001137), Cu(-0.000139), Fe(0.007835), Mn(-0.000089), Tl(0.002775), Zr(-.001026), Te(0.047627)
Zinc	206.2	Na(0.129597)

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Linear Dynamic Ranges

Project: 710048 Instrument: P3050

Units: ug/L

Analyte	Wavelength/Mass	Linear Dynamic Range	Date of LDR
Lead	220.353	22000	04/05/07

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Preparation Log

Project: 710048 Instrument: P3050

Prep Method: Batch Number: 100882

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100882	BLK100882	10/10/2007	1.00	100
BKS100882	BKS100882	10/10/2007	1.00	100
S 710048-015-015-1/1	SB-CZ-SS-2173-SD	10/10/2007	1.13	100
S 710048-001-001-1/1	SB-CZ-SS-2173-ST	10/10/2007	1.11	100
SP710048-001-001-1/1	SB-CZ-SS-2173-ST MS	10/10/2007	1.17	100
S 710048-016-016-1/1	SB-CZ-SS-2174-SD	10/10/2007	1.24	100
S 710048-002-002-1/1	SB-CZ-SS-2174-ST	10/10/2007	1.12	100
S 710048-017-017-1/1	SB-CZ-SS-2175-SD	10/10/2007	1.24	100
S 710048-003-003-1/1	SB-CZ-SS-2175-ST	10/10/2007	1.25	100
S 710048-018-018-1/1	SB-CZ-SS-2176-SD	10/10/2007	1.12	100
S 710048-004-004-1/1	SB-CZ-SS-2176-ST	10/10/2007	1.22	100
S 710048-019-019-1/1	SB-CZ-SS-2177-SD	10/10/2007	1.17	100
S 710048-005-005-1/1	SB-CZ-SS-2177-ST	10/10/2007	1.12	100
S 710048-020-020-1/1	SB-CZ-SS-2178-SD	10/10/2007	1.25	100
S 710048-006-006-1/1	SB-CZ-SS-2178-ST	10/10/2007	1.13	100
S 710048-007-007-1/1	SB-CZ-SS-2179-ST	10/10/2007	1.14	100
S 710048-008-008-1/1	SB-CZ-SS-2180-ST	10/10/2007	1.11	100
S 710048-009-009-1/1	SB-CZ-SS-2181-ST	10/10/2007	1.17	100
S 710048-010-010-1/1	SB-CZ-SS-2182-ST	10/10/2007	1.16	100
S 710048-011-011-1/1	SB-CZ-SS-2183-ST	10/10/2007	1.22	100
S 710048-012-012-1/1	SB-CZ-SS-2184-ST	10/10/2007	1.27	100
S 710048-013-013-1/1	SB-CZ-SS-2185-ST	10/10/2007	1.12	100
S 710048-014-014-1/1	SB-CZ-SS-2186-ST	10/10/2007	1.26	100
SD710048-001-001-1/1	SB-CZ-SS-2173-ST MSD	10/10/2007	1.20	100

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Preparation Log

Project: 710048 Instrument: P3050

Prep Method: Batch Number: 100932

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100932	BLK100932	10/10/2007	1.00	100
BKS100932	BKS100932	10/10/2007	1.00	100
S 710048-021-021-1/1	SB-CZ-SS-2179-SD	10/10/2007	1.17	100
SP710048-021-021-1/1	SB-CZ-SS-2179-SD MS	10/10/2007	1.19	100
S 710048-022-022-1/1	SB-CZ-SS-2180-SD	10/10/2007	1.19	100
S 710048-023-023-1/1	SB-CZ-SS-2181-SD	10/10/2007	1.21	100
S 710048-024-024-1/1	SB-CZ-SS-2182-SD	10/10/2007	1.20	100
S 710048-025-025-1/1	SB-CZ-SS-2183-SD	10/10/2007	1.15	100
S 710048-026-026-1/1	SB-CZ-SS-2184-SD	10/10/2007	1.15	100
S 710048-027-027-1/1	SB-CZ-SS-2185-SD	10/10/2007	1.16	100
S 710048-028-028-1/1	SB-CZ-SS-2186-SD	10/10/2007	1.15	100
S 710048-032-032-1/1	SB-CZ-SS-2187-SD	10/10/2007	1.19	100
S 710048-029-029-1/1	SB-CZ-SS-2187-ST	10/10/2007	1.21	100
S 710048-033-033-1/1	SB-CZ-SS-2188-SD	10/10/2007	1.24	100
S 710048-030-030-1/1	SB-CZ-SS-2188-ST	10/10/2007	1.25	100
S 710048-034-034-1/1	SB-CZ-SS-2189-SD	10/10/2007	1.25	100
S 710048-031-031-1/1	SB-CZ-SS-2189-ST	10/10/2007	1.15	100
SD710048-021-021-1/1	SB-CZ-SS-2179-SD MSD	10/10/2007	1.21	100

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Analysis Run Log

Project: 710048 Instrument: P3050

Data File Name: 071016.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
STD0		10/16/07	11:19 AM
STD1		10/16/07	11:29 AM
STD2		10/16/07	11:38 AM
STD3		10/16/07	11:48 AM
STD4		10/16/07	11:55 AM
IVICV		10/16/07	12:00 PM
IBICB		10/16/07	12:10 PM
CVCCV1		10/16/07	12:19 PM
BCCCB1		10/16/07	12:28 PM
PQL		10/16/07	12:38 PM
IAICSAI		10/16/07	12:47 PM
IBICSABI		10/16/07	12:57 PM
CVCCV2		10/16/07	1:21 PM
BCCCB2		10/16/07	1:31 PM
BLK100882	BLK100882	10/16/07	2:11 PM
BKS100882	BKS100882	10/16/07	2:20 PM
S 710048-001-001-1/1	SB-CZ-SS-2173-ST	10/16/07	2:30 PM
SP710048-001-001-1/1	SB-CZ-SS-2173-ST MS	10/16/07	2:39 PM
SD710048-001-001-1/1	SB-CZ-SS-2173-ST MSD	10/16/07	2:48 PM
SE710048-001-001-1/1	SB-CZ-SS-2173-ST	10/16/07	3:07 PM
CVCCV3		10/16/07	3:19 PM
BCCCB3		10/16/07	3:29 PM
S 710048-002-002-1/1	SB-CZ-SS-2174-ST	10/16/07	3:41 PM
S 710048-003-003-1/1	SB-CZ-SS-2175-ST	10/16/07	3:50 PM
S 710048-004-004-1/1	SB-CZ-SS-2176-ST	10/16/07	4:00 PM
S 710048-005-005-1/1	SB-CZ-SS-2177-ST	10/16/07	4:09 PM
S 710048-006-006-1/1	SB-CZ-SS-2178-ST	10/16/07	4:18 PM
S 710048-007-007-1/1	SB-CZ-SS-2179-ST	10/16/07	4:28 PM
S 710048-008-008-1/1	SB-CZ-SS-2180-ST	10/16/07	4:37 PM
S 710048-009-009-1/1	SB-CZ-SS-2181-ST	10/16/07	4:47 PM
S 710048-010-010-1/1	SB-CZ-SS-2182-ST	10/16/07	4:56 PM
S 710048-011-011-1/1	SB-CZ-SS-2183-ST	10/16/07	5:05 PM
CVCCV4		10/16/07	5:18 PM
BCCCB4		10/16/07	5:27 PM
S 710048-012-012-1/1	SB-CZ-SS-2184-ST	10/16/07	5:36 PM
S 710048-013-013-1/1	SB-CZ-SS-2185-ST	10/16/07	5:46 PM
S 710048-014-014-1/1	SB-CZ-SS-2186-ST	10/16/07	5:55 PM
S 710048-015-015-1/1	SB-CZ-SS-2173-SD	10/16/07	6:05 PM
S 710048-016-016-1/1	SB-CZ-SS-2174-SD	10/16/07	6:14 PM

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Analysis Run Log

Project: 710048 Instrument: P3050

Data File Name: 071016.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
S 710048-017-017-1/1	SB-CZ-SS-2175-SD	10/16/07	6:23 PM
S 710048-018-018-1/1	SB-CZ-SS-2176-SD	10/16/07	6:32 PM
S 710048-019-019-1/1	SB-CZ-SS-2177-SD	10/16/07	6:42 PM
S 710048-020-020-1/1	SB-CZ-SS-2178-SD	10/16/07	6:51 PM
CVCCV5		10/16/07	7:03 PM
BCCCB5		10/16/07	7:13 PM
BLK100932	BLK100932	10/16/07	7:22 PM
BKS100932	BKS100932	10/16/07	7:31 PM
S 710048-021-021-1/1	SB-CZ-SS-2179-SD	10/16/07	7:41 PM
SP710048-021-021-1/1	SB-CZ-SS-2179-SD MS	10/16/07	7:50 PM
SD710048-021-021-1/1	SB-CZ-SS-2179-SD MSD	10/16/07	7:59 PM
SE710048-021-021-1/1	SB-CZ-SS-2179-SD	10/16/07	8:18 PM
CVCCV6		10/16/07	8:49 PM
BCCCB6		10/16/07	8:58 PM
S 710048-022-022-1/1	SB-CZ-SS-2180-SD	10/16/07	9:08 PM
S 710048-023-023-1/1	SB-CZ-SS-2181-SD	10/16/07	9:17 PM
S 710048-024-024-1/1	SB-CZ-SS-2182-SD	10/16/07	9:26 PM
S 710048-025-025-1/1	SB-CZ-SS-2183-SD	10/16/07	9:36 PM
S 710048-026-026-1/1	SB-CZ-SS-2184-SD	10/16/07	9:45 PM
S 710048-027-027-1/1	SB-CZ-SS-2185-SD	10/16/07	9:54 PM
S 710048-028-028-1/1	SB-CZ-SS-2186-SD	10/16/07	10:04 PM
S 710048-029-029-1/1	SB-CZ-SS-2187-ST	10/16/07	10:13 PM
S 710048-030-030-1/1	SB-CZ-SS-2188-ST	10/16/07	10:23 PM
CVCCV7		10/16/07	10:35 PM
BCCCB7		10/16/07	10:44 PM
S 710048-031-031-1/1	SB-CZ-SS-2189-ST	10/16/07	10:54 PM
S 710048-032-032-1/1	SB-CZ-SS-2187-SD	10/16/07	11:03 PM
S 710048-033-033-1/1	SB-CZ-SS-2188-SD	10/16/07	11:13 PM
S 710048-034-034-1/1	SB-CZ-SS-2189-SD	10/16/07	11:22 PM
CVCCV8		10/16/07	11:56 PM
BCCCB8		10/17/07	12:05 AM

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ICP ANALYSIS LOG

Document Control No: GP_M_178

Instrument ID: Trace (424690) Inst. Method: Trace1 Nebulizer: Conical Analytical Batch No: 07/016

Profile: 0.009327 Intensity: 7736 At Setting: 425

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
710047	Edenspace	100889	181	S	10.9.07	6010B	As only
710048	SC&A	100882	185	↓	10.10.07	6010C	Pb only (10x on all)
710048	↓	100 ~~882~~ 932	186	↓	10.10.07	↓	↓

Ke 17/Oct/2007

Source Solution Numbers

Stds.	Number	Stds.	Number
S0	129-116-04	ICV	41804
S1	41930	CCV	41821
S2	41931	ICSA	41947
S3	41944	ICSAB	41948
S4	41816	CRI	—
S5	—	Low Ck	41820
Ints	41924	LR	41613

Post Digestion Spikes

Spike 9.9 mls of sample with 0.1 mls of 41513

Samples:

710048-001-001-X

021-021-X

Analyst: Ke Date: 17/Oct/2007 Reviewed: RA Date: 10-18-07

Supersedes GP_M_165

ICP ANALYSIS LOG

GPL - Maryland Laboratory

ICPST Analysis Log

Seq	Sample Name	Dil	Date	Time	Seq	Sample Name	Dil	Date	Time	Seq	Sample Name	Dil	Date	Time
1	STD0		10/10/2007	11:19	31	S 710048-005-005-1/1		10/10/2007	16:09	61	BCCCB3		10/10/2007	20:58
2	STD1		10/10/2007	11:28	32	S 710048-006-006-1/1		10/10/2007	16:16	62	S 710048-022-022-1/1		10/10/2007	21:00
3	STD2		10/10/2007	11:38	33	S 710048-007-007-1/1		10/10/2007	16:26	63	S 710048-023-023-1/1		10/10/2007	21:17
4	STD3		10/10/2007	11:48	34	S 710048-008-008-1/1		10/10/2007	16:37	64	S 710048-024-024-1/1		10/10/2007	21:26
5	STD4		10/10/2007	11:55	35	S 710048-009-009-1/1		10/10/2007	16:47	65	S 710048-025-025-1/1		10/10/2007	21:36
6	ICV		10/10/2007	12:00	36	S 710048-010-010-1/1		10/10/2007	16:58	66	S 710048-026-026-1/1		10/10/2007	21:45
7	ICB		10/10/2007	12:10	37	S 710048-011-011-1/1		10/10/2007	17:05	67	S 710048-027-027-1/1		10/10/2007	21:54
8	CVCCV K		10/10/2007	12:19	38	CVCCV3 K		10/10/2007	17:18	68	S 710048-028-028-1/1		10/10/2007	22:04
9	CCCB		10/10/2007	12:28	39	CCCB3		10/10/2007	17:27	69	S 710048-029-029-1/1		10/10/2007	22:13
10	PQL		10/10/2007	12:38	40	S 710048-012-012-1/1		10/10/2007	17:36	70	S 710048-030-030-1/1		10/10/2007	22:23
11	AICSAI Mn, Zn		10/10/2007	12:47	41	S 710048-013-013-1/1		10/10/2007	17:46	71	CVCCV4 K		10/10/2007	22:35
12	BICSABI		10/10/2007	12:57	42	S 710048-014-014-1/1		10/10/2007	17:55	72	BCCCB4		10/10/2007	22:44
13	LR		10/10/2007	13:00	43	S 710048-015-015-1/1		10/10/2007	18:05	73	S 710048-031-031-1/1		10/10/2007	22:54
14	CVCCV3 K		10/10/2007	13:21	44	S 710048-016-016-1/1		10/10/2007	18:14	74	S 710048-032-032-1/1		10/10/2007	23:03
15	CCCCB3		10/10/2007	13:31	45	S 710048-017-017-1/1		10/10/2007	18:23	75	S 710048-033-033-1/1		10/10/2007	23:13
16	S 710047-012-012-1/1		10/10/2007	13:40	46	S 710048-018-018-1/1		10/10/2007	18:32	76	S 710048-034-034-1/1		10/10/2007	23:22
17	S 710047-013-013-1/1		10/10/2007	13:49	47	S 710048-019-019-1/1		10/10/2007	18:42	77	AICSAI Mn Zn		10/10/2007	23:32
18	S 710047-014-014-1/1		10/10/2007	13:59	48	S 710048-020-020-1/1		10/10/2007	18:51	78	BICSABI		10/10/2007	23:40
19	BLK100882		10/10/2007	14:11	49	CVCCV3 K		10/10/2007	19:03	79	CVCCV4 K		10/10/2007	23:56
20	BKS100882		10/10/2007	14:20	50	BCCCB3		10/10/2007	19:13	80	BCCCB4		10/11/2007	0:05
21	S 710048-001-001-1/1		10/10/2007	14:30	51	BLK100883		10/10/2007	19:22					
22	SP710048-001-001-1/		10/10/2007	14:30	52	BKS100883		10/10/2007	19:31					
23	SD710048-001-001-1/		10/10/2007	14:48	53	S 710048-021-021-1/1		10/10/2007	19:41					
24	PS710048-001-001-1/		10/10/2007	14:58	54	SP710048-021-021-1/		10/10/2007	19:50					
25	SE710048-001-001-1/		10/10/2007	15:07	55	SD710048-021-021-1/		10/10/2007	19:59					
26	CVCCV4 K		10/10/2007	15:18	56	PS710048-021-021-1/		10/10/2007	20:09					
27	BCCCB4		10/10/2007	15:28	57	SE710048-021-021-1/		10/10/2007	20:18					
28	S 710048-002-002-1/1		10/10/2007	15:41	58	AICSAI Mn, Zn		10/10/2007	20:30					
29	S 710048-003-003-1/1		10/10/2007	15:50	59	BICSABI		10/10/2007	20:39					
30	S 710048-004-004-1/1		10/10/2007	16:00	60	CVCCV3 K		10/10/2007	20:49					

Analyst Signature: [signature] Date: 17/Oct/2007 Analyst Signature:

Sample Dilutions:

Method: TRACE1 Standard: STD0
Run Time: 10/16/07 11:19:51

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	.02138	.00371	-.00042	.00545	-.00697	-.00160	.08769
#1	.02153	.00370	-.00231	.00518	-.00684	-.00182	.08669
#2	.02124	.00372	.00147	.00571	-.00710	-.00139	.08868

Elem	CR	CO	CU	FE	MG	MN	NI
Avge	.00129	-.00144	.03425	.00128	-.00033	.00056	-.01406
#1	.00088	-.00225	.03369	.00000	-.00034	.00051	-.01492
#2	.00170	-.00063	.03480	.00257	-.00032	.00061	-.01319

Elem	K	AG	NA	TL	V	ZN	B
Avge	.00100	.00141	-.00214	-.00499	.00004	.00134	.00141
#1	-.00060	.00105	-.00345	-.00481	-.00003	-.00017	.00063
#2	.00260	.00176	-.00084	-.00517	.00012	.00286	.00219

Elem	MO	SN	SR	TI	1/PB	2/PB	1/SE
Avge	.00001	-.00059	.00601	.00023	-.00357	-.00235	-.01161
#1	.00040	.00122	.00592	-.00031	-.00772	-.00427	-.01381
#2	-.00038	-.00240	.00609	.00078	.00058	-.00043	-.00941

Elem	2/SE	TE	ZR	SI
Avge	.01103	-.02188	3.9157	.07790
#1	.01358	-.02446	3.9130	.07838
#2	.00848	-.01931	3.9184	.07743

Method: TRACE1 Standard: STD1
Run Time: 10/16/07 11:29:10

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	6.3962	.46485	.37123	3.0057	.12452	2.6973	.79181
#1	6.3888	.46457	.36959	3.0032	.12452	2.7036	.79356
#2	6.4036	.46513	.37287	3.0082	.12452	2.6911	.79005

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	.88474	1.0407	6.9344	1.3000	1.3497	.54526	.19483
#1	.88677	1.0404	6.9468	1.3020	1.3511	.54310	.19399
#2	.88271	1.0410	6.9220	1.2980	1.3484	.54741	.19568

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.21805	.39308	.74614	.55094	.45874	3.6172	1.7753
#1	.21828	.39257	.74745	.54986	.46032	3.6182	1.7748
#2	.21782	.39359	.74483	.55202	.45715	3.6162	1.7758

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1.1856	1.4454	.39868	.81658	.52453	4.5954	.35261
#1	1.1921	1.4572	.39863	.82033	.52551	4.5884	.35261
#2	1.1792	1.4336	.39872	.81283	.52356	4.6023	.35260

Method: TRACE1 Standard: STD2
Run Time: 10/16/07 11:38:44

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	12.550	.90640	.73496	5.9355	.25201	5.3024	1.5609
#1	12.581	.90640	.73694	5.9451	.25194	5.2956	1.5600
#2	12.520	.90640	.73299	5.9259	.25207	5.3092	1.5618

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	1.7471	2.0040	13.702	2.5623	2.6688	1.0730	.39088
#1	1.7444	2.0152	13.704	2.5587	2.6611	1.0725	.39025
#2	1.7498	1.9927	13.700	2.5658	2.6765	1.0735	.39152

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.42907	.77213	1.4665	1.0863	.91464	7.1077	3.4818
#1	.42971	.77200	1.4684	1.0812	.91657	7.1297	3.4932
#2	.42842	.77226	1.4646	1.0914	.91271	7.0856	3.4704

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	2.3293	2.8261	.78966	1.5723	1.0532	5.2078	.61756
#1	2.3399	2.8237	.79055	1.5795	1.0549	5.2294	.61939
#2	2.3187	2.8285	.78876	1.5651	1.0515	5.1861	.61572

Method: TRACE1 Standard: STD3
Run Time: 10/16/07 11:48:02

Elem	CA	MG	K	NA
Avge	26.788	9.0434	11.199	3.0049
#1	26.776	9.0434	11.202	3.0072
#2	26.799	9.0434	11.196	3.0026

Method: TRACE1 Standard: STD4
Run Time: 10/16/07 11:55:04

Elem	1/PB	2/PB
Avge	4.6987	5.6486
#1	4.7016	5.6089
#2	4.6958	5.6882

Method: TRACE1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AL	308.215	Multiple	Standards	7910.86	-171.352	10/16/07 11:38:44
SB	206.838	Multiple	Standards	1092.49	-4.08259	10/16/07 11:38:44
AS	189.042	Multiple	Standards	1341.07	.546717	10/16/07 11:38:44
BA	493.409	Multiple	Standards	167.724	-.928618	10/16/07 11:38:44
BE	313.042	Multiple	Standards	388.327	2.70357	10/16/07 11:38:44
CD	226.502	Multiple	Standards	188.994	.280994	10/16/07 11:38:44
CA	317.933	STD3	STD0	1.02255	-.056602	10/16/07 11:55:04
CR	267.716	Multiple	Standards	636.282	-.839539	10/16/07 11:38:44
CO	228.616	Multiple	Standards	569.199	.804080	10/16/07 11:38:44
CU	324.753	Multiple	Standards	501.772	-17.2113	10/16/07 11:38:44
FE	271.441	Multiple	Standards	7261.65	-10.8252	10/16/07 11:38:44
PB	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
MG	279.078	STD3	STD0	.963681	.000439	10/16/07 11:55:04
MN	257.610	Multiple	Standards	386.960	-.234413	10/16/07 11:38:44
NI	231.604	Multiple	Standards	369.848	5.17782	10/16/07 11:38:44
K	766.491	STD3	STD0	.923733	-.005049	10/16/07 11:55:04
SE	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
AG	328.068	Multiple	Standards	926.323	-1.32199	10/16/07 11:38:44
NA	330.232	STD3	STD0	.756628	.000263	10/16/07 11:55:04
TL	190.864	Multiple	Standards	2567.41	12.7975	10/16/07 11:38:44
V	292.402	Multiple	Standards	2303.23	-.120236	10/16/07 11:38:44
ZN	206.200	Multiple	Standards	1287.72	-1.74985	10/16/07 11:38:44
B	249.678	Multiple	Standards	676.049	-.973715	10/16/07 11:38:44
MO	202.030	Multiple	Standards	914.033	-.028512	10/16/07 11:38:44
SN	189.989	Multiple	Standards	1093.00	.635051	10/16/07 11:38:44
SR	421.552	Multiple	Standards	139.629	-.859726	10/16/07 11:38:44
TI	334.941	Multiple	Standards	284.462	-.090639	10/16/07 11:38:44
1/PB	220.351	Multiple	Standards	438.924	1.62402	10/16/07 11:55:04
2/PB	220.352	Multiple	Standards	346.770	.736586	10/16/07 11:55:04
1/SE	196.021	Multiple	Standards	1229.40	14.2438	10/16/07 11:38:44
2/SE	196.022	Multiple	Standards	603.805	-6.70025	10/16/07 11:38:44
TE	214.200	Multiple	Standards	969.148	21.1883	10/16/07 11:38:44
ZR	349.600	Multiple	Standards	746.099	-2921.55	10/16/07 11:38:44
SI	288.158	Multiple	Standards	1836.49	-143.086	10/16/07 11:38:44

Method: TRACE1

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AL	308.215	STD0	.000000	-2.17866	2.17866
		STD1	50000.0	50428.1	-428.109
		STD2	100000.	99113.3	886.703
CorCoef:	0.99995				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SB	206.838	STD0	.000000	-.026711	.026711
		STD1	500.000	503.761	-3.76117
		STD2	1000.00	986.154	13.8464
CorCoef:	0.99992				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AS	189.042	STD0	.000000	-.013247	.013247
		STD1	500.000	498.389	1.61063
		STD2	1000.00	986.181	13.8186
CorCoef:	0.99998				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BA	493.409	STD0	.000000	-.014762	.014762
		STD1	500.000	503.202	-3.20242
		STD2	1000.00	994.595	5.40479
CorCoef:	0.99998				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BE	313.042	STD0	.000000	-.001938	.001938
		STD1	50.0000	51.0576	-1.05763
		STD2	100.000	100.565	-.564751
CorCoef:	0.99996				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CD	226.502	STD0	.000000	-.022140	.022140
		STD1	500.000	510.056	-10.0560
		STD2	1000.00	1002.40	-2.39990
CorCoef:	0.99995				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
CA	317.933	STD0	.033061	.087686	-.054625
		STD3	27.3352	26.7878	.547384
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CR	267.716	STD0	.000000	-.016991	.016991
		STD1	500.000	502.972	-2.97168
		STD2	1000.00	992.351	7.64948
CorCoef:	0.99997				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CO	228.616	STD0	.000000	-.016923	.016923
		STD1	500.000	504.398	-4.39807
		STD2	1000.00	995.258	4.74207
CorCoef:	0.99997				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CU	324.753	STD0	.000000	-.027087	.027087
		STD1	500.000	504.994	-4.99402
		STD2	1000.00	988.318	11.6818
CorCoef:	0.99992				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
FE	271.441	STD0	.000000	-1.49999	1.49999
		STD1	50000.0	50344.1	-344.117
		STD2	100000.	99488.2	511.758
CorCoef:	0.99998				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
PB	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
MG	279.078	STD0	.000122	-.000330	.000451
		STD3	8.71535	9.04336	-.328008
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MN	257.610	STD0	.000000	-.017977	.017977
		STD1	500.000	502.821	-2.82141
		STD2	1000.00	991.261	8.73871
CorCoef:	0.99996				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
NI	231.604	STD0	.000000	-.020647	.020647
		STD1	500.000	504.379	-4.37946
		STD2	1000.00	992.241	7.75885
CorCoef:	0.99995				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	STD0	-.004126	.001000	-.005125
		STD3	10.3396	11.1987	-.859138
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SE	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AG	328.068	STD0	.000000	-.018618	.018618
		STD1	500.000	503.762	-3.76212
		STD2	1000.00	992.630	7.37012
CorCoef:	0.99996				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
NA	330.232	STD0	-.001357	-.002141	.000784
		STD3	2.27386	3.00491	-.731050

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TL	190.864	STD0	.000000	-.012082	.012082
		STD1	500.000	513.010	-13.0105
		STD2	1000.00	1016.35	-16.3549
CorCoef:	0.99998				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD0	.000000	-.020101	.020101
		STD1	500.000	502.100	-2.09958
		STD2	1000.00	988.119	11.8812
CorCoef:	0.99996				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZN	206.200	STD0	.000000	-.020400	.020400
		STD1	500.000	504.430	-4.43011
		STD2	1000.00	992.540	7.46014
CorCoef:	0.99995				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	STD0	.000000	-.020570	.020570
		STD1	500.000	503.456	-3.45557
		STD2	1000.00	990.455	9.54523
CorCoef:	0.99995				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MO	202.030	STD0	.000000	-.017744	.017744
		STD1	500.000	503.549	-3.54874
		STD2	1000.00	992.903	7.09747
CorCoef:	0.99997				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SN	189.989	STD0	.000000	-.004668	.004668
		STD1	500.000	502.034	-2.03354
		STD2	1000.00	1000.33	-.333069
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SR	421.552	STD0	.000000	-.021059	.021059
		STD1	500.000	504.212	-4.21188
		STD2	1000.00	991.576	8.42377
CorCoef:	0.99995				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TI	334.941	STD0	.000000	-.024376	.024376
		STD1	500.000	504.926	-4.92612
		STD2	1000.00	990.352	9.64825
CorCoef:	0.99994				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/PB	220.351	STD0	.000000	.056884	-.056884
		STD1	500.000	522.024	-22.0236
		STD2	1000.00	1024.01	-24.0098
		STD4	2000.00	2064.00	-64.0002
CorCoef:	0.99948				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/PB	220.352	STD0	.000000	-.079158	.079158
		STD1	500.000	501.957	-1.95697
		STD2	1000.00	980.738	19.2622
		STD4	2000.00	1959.49	40.5137

CorCoef: 0.99991

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/SE	196.021	STD0	.000000	-.029624	.029624
		STD1	500.000	504.374	-4.37378
		STD2	1000.00	985.048	14.9516

CorCoef: 0.99990

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/SE	196.022	STD0	.000000	-.037566	.037566
		STD1	500.000	486.355	13.6453
		STD2	1000.00	942.657	57.3434

CorCoef: 0.99983

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TE	214.200	STD0	.000000	-.021444	.021444
		STD1	500.000	529.539	-29.5386
		STD2	1000.00	1041.92	-41.9226

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZR	349.600	STD0	.000000	-.062611	.062611
		STD1	500.000	507.039	-7.03943
		STD2	1000.00	963.963	36.0367

CorCoef: 0.99955

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SI	288.158	STD0	.000000	-.022362	.022362
		STD1	500.000	504.473	-4.47299
		STD2	1000.00	991.054	8.94598

CorCoef: 0.99995

Method: TRACE1 Sample Name: IVICV Operator: LCM
Run Time: 10/16/07 12:00:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	5073.240	403.8130	Q426.2120	Q423.1447	Q42.01470	41.66833	4801.925
#1	5080.902	404.4489	Q428.3352	Q424.2867	Q42.01199	41.52360	4809.600
#2	5065.578	403.1772	Q424.0888	Q422.0027	Q42.01741	41.81306	4794.249
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass
Value	5000.000	400.0000	400.0000	400.0000	40.00000	40.00000	5000.000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	403.8309	Q428.3759	399.7440	5072.801	416.4669	4989.972	411.5723
#1	404.0920	Q428.4744	400.5016	5071.932	417.8633	4997.996	412.3569
#2	403.5698	Q428.2773	398.9864	5073.670	415.0704	4981.948	410.7878
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	400.0000	400.0000	5000.000	400.0000	5000.000	400.0000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	415.8303	4758.226	411.0455	399.6728	9880.302	404.5030	413.3939
#1	416.5689	4765.578	410.3347	400.0537	9862.111	405.0569	413.5269
#2	415.0917	4750.873	411.7563	399.2920	9898.492	403.9490	413.2608
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	5000.000	400.0000	400.0000	10000.00	400.0000	400.0000
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q422.5047	Q422.5434	404.4085	412.9130	407.6960	408.0150	409.4127
#1	Q420.5205	Q424.8968	404.3678	413.6877	408.2942	408.2012	410.1788
#2	Q424.4889	Q420.1901	404.4493	412.1383	407.0978	407.8289	408.6465
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	400.0000	400.0000	400.0000	400.0000	400.0000	400.0000	
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	419.9937	412.7691	410.1834	Q-.958940	Q3.832839	Q124.9812
#1	421.7053	406.5744	412.2145	Q.7100163	Q9.514050	Q124.4229
#2	418.2820	418.9638	408.1522	Q-2.62790	Q-1.84837	Q125.5395

Errors	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Fail	QC Fail
Value				400.0000	400.0000	400.0000
Range				5.000000	5.000000	5.000000

Method: TRACE1 Sample Name: IBICB Operator: LCM
Run Time: 10/16/07 12:10:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	5.889952	.4715599	2.183308	.2059982	.0372894	.2496447	11.29030
#1	5.641432	.4624007	1.666239	.2723593	.0452356	.2845290	11.22734
#2	6.138472	.4807191	2.700378	.1396371	.0293432	.2147604	11.35326
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.172152	.2314363	.6689607	14.60596	-.287599	5.747963	.1387049
#1	-.052543	.1324136	.8413895	17.77226	-1.00193	6.095966	.1670366
#2	-.291761	.3304589	.4965320	11.43966	.4267322	5.399960	.1103731
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.432504	-1.78525	1.002263	-.270375	-5.27997	.5208049	.3440582
#1	1.167795	-3.15948	.1655918	.2231233	7.101085	.2486679	.4112670
#2	1.697214	-.411023	1.838935	-.763874	-17.6610	.7929420	.2768494
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	5000.000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.76829	.4634110	1.415737	-.888096	.1530621	.1505781	-1.44192
#1	-1.63887	.3680001	1.574971	-.968563	.1923572	.2775033	-1.19338
#2	-1.89771	.5588218	1.256503	-.807629	.1137669	.0236529	-1.69045
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	20.00000	5.000000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.2890425	-.327588	1.666757	-5.55151	.6690540	1.878823
#1	-.906722	-4.28221	2.389057	-10.5540	7.463001	1.099883
#2	1.484807	3.627033	.9444568	-.549062	-6.12489	2.657764
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: CVCCV Operator: LCM
Run Time: 10/16/07 12:19:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50966.44	506.3752	503.9747	504.8881	49.54541	490.2607	97701.42
#1	50984.57	504.2922	501.8343	504.9383	49.42055	490.5676	97743.48
#2	50948.30	508.4582	506.1150	504.8378	49.67027	489.9539	97659.35
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	490.7559	490.4774	506.5365	48885.53	497.3680	98183.36	495.4031
#1	491.0273	491.0347	506.3519	48889.73	496.8958	98149.23	495.7157
#2	490.4844	489.9202	506.7212	48881.33	497.8403	98217.48	495.0905
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	490.0187	Q81100.45	507.7953	511.4138	99513.64	502.3937	496.9428
#1	491.3410	Q81075.46	506.6186	511.1451	99647.98	503.7278	495.1767
#2	488.6965	Q81125.43	508.9720	511.6826	99379.31	501.0596	498.7089
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	490.5076	508.2493	496.9004	501.4668	499.9087	500.1947	488.7884
#1	491.1504	508.4669	496.8172	504.5763	499.3082	499.4483	486.4164
#2	489.8649	508.0317	496.9835	498.3573	500.5094	500.9411	491.1604
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	501.6575	503.8633	509.7609	501.5039	474.0225	527.5597
#1	502.1352	501.1238	509.3655	503.0193	459.0158	526.6003
#2	501.1798	506.6027	510.1562	499.9885	489.0293	528.5190
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB Operator: LCM
Run Time: 10/16/07 12:28:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	2.156761	-.803092	.3132887	.1234060	.0609625	.0815502	30.29955
#1	2.284154	.2035624	-1.11043	.0784630	.0701752	.0845847	28.67510
#2	2.029369	-1.80975	1.737008	.1683489	.0517499	.0785157	31.92400
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.318696	.0115028	.5147784	13.45665	.4659386	17.61630	.0716885
#1	-.199624	-.013717	.4918746	8.994683	1.292401	20.05632	.0441166
#2	-.437769	.0367222	.5376822	17.91862	-.360524	15.17627	.0992603
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.270084	16.04356	.6476264	-.165128	70.72730	-1.60925	.4091413
#1	.9592893	17.88051	-.904284	-.124376	106.0582	-.770922	.4099614
#2	1.580879	14.20660	2.199536	-.205880	35.39640	-2.44758	.4083212
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.91635	.3271310	1.139288	1.341715	.0883162	.0074359	1.950743
#1	-1.97189	.6191188	1.231996	2.393412	.0870141	.0646631	2.001748
#2	-1.86080	.0351433	1.046578	.2900178	.0896183	-.049791	1.899738
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.276979	-.544583	1.243214	-7.33300	-3.61497	.6127780
#1	.9372114	-.943932	-.884976	-7.15659	-7.46233	.0074393
#2	-1.49117	-.145234	3.371404	-7.50941	.2323997	1.218117
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: PQL Operator: LCM
Run Time: 10/16/07 12:38:13
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	195.5422	20.22370	18.34467	5.110531	2.002960	6.152922	923.5193
#1	200.1027	22.19407	16.60247	5.316058	1.967998	6.427112	932.3689
#2	190.9817	18.25334	20.08687	4.905004	2.037923	5.878731	914.6696
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	200.0000	20.00000	20.00000	5.000000	2.000000	6.000000	1000.000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	4.549769	5.007129	10.06945	159.2802	9.334045	255.1501	4.885715
#1	4.902783	5.424724	10.56503	176.4971	9.290840	266.3988	5.004042
#2	4.196755	4.589535	9.573868	142.0633	9.377252	243.9014	4.767389
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000000	5.000000	10.00000	150.0000	10.00000	250.0000	5.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	11.12183	235.2397	20.33754	4.982343	2560.938	31.43723	9.763501
#1	11.89553	234.2383	19.56717	4.758947	2588.242	34.00339	9.218792
#2	10.34813	236.2410	21.10791	5.205738	2533.633	28.87106	10.30821
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	250.0000	20.00000	5.000000	2500.000	30.00000	10.00000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	19.71928	15.73086	5.497493	26.28394	5.020108	24.75967	8.610520
#1	20.22047	16.46338	5.506214	27.10802	5.086384	24.82873	6.241075
#2	19.21808	14.99834	5.488771	25.45985	4.953832	24.69062	10.97996
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	9.695448	18.24688	21.38251	-.130010	-13.7320	57.82254
#1	10.81534	17.79530	20.45272	1.284929	-9.58708	Q63.47354
#2	8.575559	18.69845	22.31230	-1.54495	-17.8770	52.17155
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						50.00000
Range						20.00000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/16/07 12:47:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	491012.2	1.274317	-4.99009	.9286814	.5351480	4.059920	501188.1
#1	487307.2	1.745658	-4.52680	.9532173	.5586758	4.188089	499173.6
#2	494717.3	.8029766	-5.45338	.9041455	.5116202	3.931751	503202.7
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	2.175336	Q2.957048	2.386104	190041.2	Q5.474193	493854.3	Q11.79323
#1	2.130377	Q2.955262	2.721984	189060.7	Q5.854919	491352.1	Q11.77112
#2	2.220295	Q2.958835	2.050224	191021.7	Q5.093466	496356.5	Q11.81533
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	3.709611	-7.68907	6.946761	.0530232	133.0351	-7.25616	1.487831
#1	4.414531	-8.96806	7.395363	-.268862	161.5738	-9.44831	1.020604
#2	3.004692	-6.41008	6.498160	.3749081	104.4965	-5.06401	1.955057
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q24.24675	2.613938	.8022874	1.806317	Q4.287682	1.452797	-15.6944
#1	Q24.45504	2.511868	1.349108	2.071060	Q4.259730	1.423082	-16.0435
#2	Q24.03845	2.716008	.2554666	1.541574	Q4.315634	1.482512	-15.3453
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	16.05797	7.517521	6.660988	-15.3165	4.844595	Q37.93872
#1	16.80357	2.096490	10.04438	-15.4661	-19.2331	Q36.15165
#2	15.31237	12.93855	3.277595	-15.1668	28.92224	Q39.72580
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/16/07 12:57:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	487325.0	611.1851	101.1680	515.9868	476.3875	927.8319	492252.8
#1	487662.7	611.0172	103.7425	516.3334	476.0938	926.1726	491168.2
#2	486987.4	611.3529	98.59347	515.6402	476.6811	929.4913	493337.2
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	473.8450	464.7547	527.0067	188628.7	51.26110	488372.3	491.5874
#1	473.6032	463.4766	526.5155	188285.8	50.95836	487510.5	490.6403
#2	474.0868	466.0328	527.4979	188971.6	51.56384	489234.1	492.5344
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	924.7316	5574.784	57.37209	211.1573	10723.10	89.91244	487.0985
#1	922.5853	5592.840	58.40399	211.1186	10715.77	91.06664	486.7357
#2	926.8780	5556.728	56.34019	211.1960	10730.42	88.75824	487.4612
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	931.4562	1019.388	971.1472	996.7684	509.4167	972.6998	34.20509
#1	928.6310	1018.191	967.6497	995.8319	509.8760	972.1568	31.72671
#2	934.2814	1020.584	974.6448	997.7049	508.9575	973.2428	36.68347
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	59.78861	58.85839	56.62853	171.7289	Q195.8950	Q1342.174
#1	60.57362	51.93974	61.63566	168.3191	Q185.7134	Q1341.017
#2	59.00361	65.77704	51.62141	175.1388	Q206.0767	Q1343.332
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: LR Operator: LCM
Run Time: 10/16/07 13:06:24
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	226.6869	4954.185	1987.965	9773.625	Q474.6765	1937.339	170.0272
#1	236.2340	4958.230	1983.081	9781.967	Q474.2133	1935.166	183.4526
#2	217.1398	4950.142	1992.848	9765.283	475.1397	1939.513	156.6018
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value		5000.000	2000.000	10000.00	500.0000	2000.000	
Range		5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	9718.786	9666.868	10050.01	492392.0	19487.37	149.3105	Q9457.861
#1	9714.139	9669.332	10045.57	492446.7	19495.05	161.8096	Q9462.729
#2	9723.434	9664.404	10054.45	492337.3	19479.69	136.8113	Q9452.994
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Fail
Value	10000.00	10000.00	10000.00	500000.0	20000.00		10000.00
Range	5.000000	5.000000	5.000000	5.000000	5.000000		5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	7227.146	13.76173	1980.241	996.5248	479.3052	1953.598	9843.484
#1	7226.695	12.99632	1976.515	997.2943	496.0926	1953.070	9832.125
#2	7227.597	14.52714	1983.968	995.7553	462.5179	1954.126	9854.845
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	7500.000		2000.000	1000.000		2000.000	10000.00
Range	5.000000		5.000000	5.000000		5.000000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q19532.62	4906.617	Q9495.447	9777.472	1969.370	9793.579	19342.22
#1	Q19550.14	4905.396	Q9489.308	9780.715	1970.131	9793.561	19357.40
#2	Q19515.09	4907.837	9501.586	9774.228	1968.609	9793.597	19327.04
Errors	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK
Value	10000.00	5000.000	10000.00	10000.00	2000.000	10000.00	
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	19559.94	1980.821	1979.951	-10.7688	38.84351	11206.11
#1	19563.88	1980.585	1974.479	-4.08823	36.34295	11169.01
#2	19556.01	1981.057	1985.422	-17.4493	41.34408	11243.22
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/16/07 13:21;44
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50850.02	500.7102	503.6175	505.4725	49.20317	490.1759	96673.72
#1	50757.96	500.4681	505.8336	505.5941	49.22862	489.8841	96647.27
#2	50942.07	500.9523	501.4014	505.3510	49.17772	490.4677	96700.18
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	491.5317	490.5308	506.3550	48823.90	496.9387	97862.98	494.4679
#1	491.0717	489.6486	506.1855	48835.49	496.7412	97790.50	494.7262
#2	491.9917	491.4129	506.5246	48812.32	497.1363	97935.47	494.2097
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	488.8557	Q81325.78	505.1837	514.0497	99118.73	502.0399	495.8061
#1	488.5732	Q81187.23	505.7017	514.5580	98808.78	502.8099	495.5454
#2	489.1382	Q81464.34	504.6657	513.5414	99428.70	501.2699	496.0668
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	491.2437	507.4507	497.7188	504.5170	502.1887	498.5128	489.6610
#1	491.9855	508.3809	498.2656	503.8646	501.6328	498.3518	487.5196
#2	490.5020	506.5205	497.1718	505.1693	502.7445	498.6737	491.8024
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	500.5773	502.0453	506.7523	500.1717	Q448.0054	525.3782
#1	501.3516	506.1796	505.4624	500.3002	Q430.1367	524.7091
#2	499.8029	497.9112	508.0423	500.0433	465.8742	526.0474
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/16/07 13:31:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9.309878	-.762888	-1.02099	.3742201	.1272276	.3573726	16.52401
#1	9.265512	-.706847	-2.12776	.2633271	.0649602	.1498941	17.81380
#2	9.354244	-.818928	.0857784	.4851132	.1894951	.5648511	15.23422
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.1448327	.0201624	.8516048	27.82562	.7946317	29.70768	.2217413
#1	.2683801	.1047047	.2328469	14.86373	1.165959	27.55475	.1756112
#2	.0212853	-.064380	1.470363	40.78752	.4233045	31.86062	.2678714
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.620869	15.54762	1.666232	.5632715	-26.8886	5.221554	.5088801
#1	.5435222	20.41986	.9712109	.4230022	16.15326	6.506501	.8043060
#2	2.698216	10.67539	2.361253	.7035408	-69.9305	3.936606	.2134543
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-.825857	1.426461	2.601784	1.132627	.1567476	.3451597	2.007839
#1	-1.23539	2.036526	3.128210	1.851067	.1206673	.4208434	2.548620
#2	-.416327	.8163950	2.075358	.4141876	.1928280	.2694761	1.467058
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.1875134	1.762806	1.617537	.2016054	-15.0442	2.501231
#1	.4741162	-.037268	1.474936	1.590018	-13.6620	-2.44979
#2	-.099089	3.562880	1.760138	-1.18681	-16.4263	7.452254
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710047-012-012-1/1 Operator: LCM
Run Time: 10/16/07 13:40:15
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	316084.4	3.485831	531.4431	2462.906	14.52896	8.058710	30206.25
#1	317008.2	5.585228	527.4966	2469.914	14.69847	8.048668	30299.11
#2	315160.6	1.386435	535.3896	2455.898	14.35945	8.068752	30113.38
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	783.2852	202.7159	686.6591	381899.4	468.2149	129404.8	6411.786
#1	785.8961	203.6791	688.7088	383209.8	470.1168	129862.9	6430.936
#2	780.6743	201.7527	684.6094	380588.9	466.3131	128946.6	6392.635
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	342.8137	H77920.14	13.67697	-.475623	2040.571	-7.93040	1058.791
#1	345.1124	H78267.62	16.10279	-.147884	2338.355	-1.66230	1065.407
#2	340.5149	H77572.67	11.25116	-.803362	1742.788	-14.1985	1052.175
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	3250.462	15.00814	7.935843	25.36326	139.1809	16508.10	452.1185
#1	3263.972	16.30075	9.369917	29.06617	139.6476	16600.56	458.8764
#2	3236.953	13.71552	6.501769	21.66036	138.7143	16415.65	445.3607
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	476.2628	-1.99627	21.51311	-41.0534	24.88531	5774.200
#1	475.7366	8.312341	19.99756	-33.4830	25.94718	5781.407
#2	476.7889	-12.3049	23.02867	-48.6238	23.82344	5766.993
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710047-013-013-1/1 Operator: LCM
Run Time: 10/16/07 13:49:31
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	162673.4	15.87322	681.9553	1281.664	8.556086	9.387745	45427.56
#1	162828.6	15.77883	680.7405	1282.598	8.555877	9.256077	45430.81
#2	162518.2	15.96762	683.1700	1280.730	8.556295	9.519413	45424.31
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	2862.655	298.9542	481.9491	327251.3	1495.013	78539.08	H11552.77
#1	2863.862	299.7834	482.9026	327818.5	1492.196	78555.42	H11554.97
#2	2861.449	298.1250	480.9956	326684.1	1497.831	78522.73	H11550.57
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	729.6423	5750.854	17.72934	1.496555	1316.480	-11.4438	811.3898
#1	730.2440	5777.714	15.44161	1.838314	1552.526	-10.4437	812.3570
#2	729.0407	5723.993	20.01706	1.154797	1080.435	-12.4439	810.4226
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1766.966	46.46423	8.982664	43.38922	201.1863	3211.818	1475.246
#1	1769.006	46.88805	9.190497	45.07993	201.3237	3212.421	1477.886
#2	1764.926	46.04041	8.774832	41.69850	201.0489	3211.215	1472.606
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1504.897	2.849581	25.16877	-25.8863	16.36280	6944.083
#1	1499.351	-.690221	23.50707	-21.3322	16.33020	6942.645
#2	1510.443	6.389383	26.83048	-30.4405	16.39539	6945.521
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710047-014-014-1/1 Operator: LCM
Run Time: 10/16/07 13:59:05
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	157572.9	35.49408	1761.354	654.4691	7.613811	6.621128	25798.22
#1	157268.5	35.16161	1756.630	654.1397	7.704031	6.386971	25701.67
#2	157877.2	35.82655	1766.078	654.7985	7.523592	6.855286	25894.77
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	3228.133	326.0337	382.3121	359309.2	2109.565	69963.20	8760.603
#1	3219.662	325.6988	380.6289	358243.2	2101.313	69749.62	8730.674
#2	3236.604	326.3686	383.9952	360375.1	2117.817	70176.78	8790.531
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	589.0690	4298.927	16.82171	.5774601	1352.616	-10.6923	840.9382
#1	588.5543	4312.630	15.59947	1.122368	1506.826	-10.9773	838.3466
#2	589.5837	4285.224	18.04395	.0325523	1198.405	-10.4073	843.5299
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	860.1102	24.28602	10.07160	44.49912	110.1178	3110.473	2077.590
#1	860.8552	25.03132	10.61916	44.74538	110.0137	3100.427	2080.559
#2	859.3652	23.54071	9.524038	44.25285	110.2220	3120.519	2074.622
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	2125.553	-9.57186	30.01803	-29.8420	8.581084	7342.926
#1	2111.690	-7.38728	27.09238	-19.7701	2.687424	7338.561
#2	2139.415	-11.7564	32.94367	-39.9138	14.47475	7347.290
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: BLK100882 Operator: LCM
Run Time: 10/16/07 14:11:38
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	20.23748	2.168281	2.143268	.4897891	.1843875	-.217319	25.67862
#1	23.48545	4.676864	3.075524	.5658732	.1810352	-.183594	28.17949
#2	16.98952	-.340301	1.211012	.4137051	.1877398	-.251044	23.17774
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.0000	10.00000	10.00000	2.500000	1.000000	3.000000	500.0000
Low	-100.000	-10.0000	-10.0000	-2.50000	-1.00000	-3.00000	-500.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.388836	-1.04369	-.191788	46.80660	.9858811	6.787509	.9096682
#1	1.803387	-.906177	-.220264	57.92814	-.306734	9.601672	1.083820
#2	.9742850	-1.18120	-.163312	35.68507	2.278496	3.973347	.7355167
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.500000	2.500000	5.000000	75.00000	5.000000	125.0000	2.500000
Low	-2.50000	-2.50000	-5.00000	-75.0000	-5.00000	-125.000	-2.50000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-3.28499	26.97434	.8396198	.7336780	518.2903	-5.00082	1.113212
#1	-3.49484	46.09014	.4158440	1.082458	743.6047	-5.72334	2.144468
#2	-3.07513	7.858527	1.263395	.3848983	292.9759	-4.27829	.0819551
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000
Low	-5.00000	-125.000	-10.0000	-2.50000	-1250.00	-15.0000	-5.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	3.111034	2.270591	.7882472	H23.83078	.2085896	1.261911	3.166371
#1	3.115148	2.692375	1.052349	H24.08672	.2356649	1.410588	1.597221
#2	3.106920	1.848807	.5241455	H23.57484	.1815143	1.113234	4.735521
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	NOCHECK
High	10.00000	7.500000	2.500000	12.50000	5.000000	12.50000	
Low	-10.0000	-7.50000	-2.50000	-12.5000	-5.00000	-12.5000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	-.104881	-14.2377	8.377841	-22.9065	-10.6258	4.911496
#1	-1.25923	-12.9866	7.116612	-20.2553	-30.1943	5.965264
#2	1.049467	-15.4888	9.639071	-25.5577	8.942631	3.857727
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACE1 Sample Name: BKS100882 Operator: LCM
Run Time: 10/16/07 14:20:53
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	10263.19	102.1292	98.96519	1052.838	50.84869	101.9282	9642.043
#1	10304.84	102.9454	98.70720	1058.371	51.21641	102.1277	9680.737
#2	10221.54	101.3131	99.22320	1047.305	50.48097	101.7287	9603.348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	12000.00	120.0000	120.0000	1200.000	60.00000	120.0000	12000.00
Low	8000.000	80.00000	80.00000	800.0000	40.00000	80.00000	8000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	520.7484	500.6501	523.3306	10118.42	996.4067	9669.315	1022.307
#1	522.9606	503.3789	527.0299	10170.96	997.7022	9698.511	1027.655
#2	518.5362	497.9214	519.6312	10065.87	995.1113	9640.119	1016.958
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	600.0000	600.0000	12000.00	1200.000	12000.00	1200.000
Low	400.0000	400.0000	400.0000	8000.000	800.0000	8000.000	800.0000

Elem	NI	K	SE	AG	NA	TL	V
Avge	503.7652	9683.303	96.65556	103.9997	10218.77	94.36857	521.9926
#1	505.7378	9742.548	95.83322	104.7524	10412.97	92.26565	527.7678
#2	501.7926	9624.057	97.47789	103.2470	10024.57	96.47149	516.2174
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	12000.00	120.0000	120.0000	12000.00	120.0000	600.0000
Low	400.0000	8000.000	80.00000	80.00000	8000.000	80.00000	400.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1009.671	964.6946	515.5748	536.2443	1048.867	2042.185	990.7234
#1	1012.367	964.7935	516.7822	539.4279	1054.153	2059.625	993.8001
#2	1006.976	964.5956	514.3674	533.0607	1043.582	2024.745	987.6468
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.000	1200.000	600.0000	600.0000	1200.000	2400.000	
Low	800.0000	800.0000	400.0000	400.0000	800.0000	1600.000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	999.2481	81.92775	104.0190	346.5144	410.1553	9135.345
#1	999.6530	83.32746	102.0856	352.0050	358.0925	9169.121
#2	998.8432	80.52803	105.9524	341.0238	462.2182	9101.568
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						12000.00
Low						8000.000

Method: TRACE1 Sample Name: S 710048-001-001-1/1 Operator: LCM
Run Time: 10/16/07 14:30:08
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	40884.67	.8706059	14.26588	48.74413	.6026134	4.035540	1094.216
#1	42193.92	2.629195	14.42062	50.46738	.6354825	4.165356	1131.588
#2	39575.42	-.887983	14.11114	47.02087	.5697444	3.905724	1056.843
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	323.4648	14.62747	181.7649	258875.5	65.16505	1513.563	678.9551
#1	334.6532	15.40881	186.9852	268086.3	66.28648	1563.697	702.2770
#2	312.2764	13.84613	176.5447	249664.7	64.04364	1463.430	655.6333
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	83.99706	434.5772	19.62971	1.197148	44.57401	2.516550	566.8131
#1	87.21245	451.4074	18.87073	1.579490	46.62720	-1.07511	585.4300
#2	80.78167	417.7469	20.38869	.8148056	42.52082	6.108208	548.1962
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	229.4178	-1.04751	5.682633	11.00593	39.23795	13493.62	56.48443
#1	238.0897	-.158081	6.188773	11.65185	40.64883	13935.20	61.31714
#2	220.7460	-1.93693	5.176494	10.36002	37.82707	13052.04	51.65172
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	69.50485	3.931457	27.47846	-17.2295	103.4558	1237.418
#1	68.77063	2.651658	26.97983	-15.0275	101.3738	1271.929
#2	70.23907	5.211255	27.97710	-19.4315	105.5378	1202.908
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SP710048-001-001-1/1 Operator: LCM
Run Time: 10/16/07 14:39:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51340.46	9.532961	19.50174	160.0259	5.435995	13.15468	2004.796
#1	54144.51	10.28480	22.17884	168.7211	5.732397	13.95261	2112.990
#2	48536.41	8.781118	16.82465	151.3308	5.139594	12.35675	1896.602
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	381.6035	63.26237	232.7624	264017.4	165.8141	2712.236	767.4119
#1	402.0172	66.57059	247.1004	278416.3	174.1213	2859.914	808.6692
#2	361.1898	59.95415	218.4243	249618.5	157.5068	2564.559	726.1545
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	154.5284	1496.473	25.49664	10.81894	984.4020	8.490532	642.1256
#1	163.5302	1576.364	26.06188	11.40612	1020.734	10.76322	678.8481
#2	145.5266	1416.582	24.93139	10.23176	948.0695	6.217842	605.4031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	282.3739	89.92935	50.31609	58.86696	158.7501	14727.38	155.7727
#1	295.7423	94.36201	52.75034	61.68287	167.3310	15585.32	159.1892
#2	269.0054	85.49669	47.88185	56.05104	150.1692	13869.43	152.3562
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	170.8344	14.04914	31.21999	18.39529	158.1573	1588.927
#1	181.5870	13.03941	32.57276	14.74652	155.2890	1670.418
#2	160.0818	15.05886	29.86723	22.04407	161.0255	1507.435
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SD710048-001-001-1/1 Operator: LCM
Run Time: 10/16/07 14:48:57
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	52235.55	6.760959	19.69231	162.9743	5.471405	13.56952	2068.448
#1	52383.76	8.706788	20.37510	163.4578	5.488466	14.04849	2075.553
#2	52087.34	4.815129	19.00951	162.4908	5.454343	13.09055	2061.343
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	389.4129	63.19991	241.0794	268116.2	168.5441	2623.840	750.0485
#1	390.9777	63.56316	242.7451	268876.2	168.8847	2631.008	752.0650
#2	387.8481	62.83666	239.4136	267356.2	168.2036	2616.672	748.0319
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	152.5794	1507.120	21.92212	11.49293	1186.608	3.453392	649.0526
#1	153.6527	1512.033	22.40675	11.51788	1167.405	4.099869	652.8804
#2	151.5060	1502.207	21.43749	11.46797	1205.811	2.806915	645.2248
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	290.6868	91.75667	50.07228	56.37955	161.1602	14462.70	161.3272
#1	291.2963	92.41989	49.89475	56.85055	161.5263	14554.89	163.3020
#2	290.0772	91.09344	50.24981	55.90854	160.7942	14370.51	159.3524
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	172.1521	11.72954	27.01798	21.41458	141.4486	1617.976
#1	171.6756	10.85452	28.18243	18.31264	142.6826	1615.813
#2	172.6286	12.60456	25.85353	24.51653	140.2147	1620.138
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: PS710048-001-001-1/1 Operator: LCM
Run Time: 10/16/07 14:58:13
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42317.04	80.44823	88.01099	69.11715	10.12549	22.88802	5649.155
#1	42830.13	78.02808	88.47414	69.61028	10.09352	22.54925	5648.553
#2	41803.96	82.86839	87.54784	68.62402	10.15747	23.22678	5649.757
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	344.4769	42.81838	211.0980	262428.5	144.1185	6197.776	760.2445
#1	348.2571	42.40990	214.8738	265961.5	146.0879	6198.134	768.7907
#2	340.6966	43.22685	207.3222	258895.5	142.1492	6197.418	751.6983
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	121.2831	5291.069	83.97623	43.79495	4948.214	95.58820	589.4482
#1	121.9688	5273.935	85.73161	43.39791	4983.091	94.63926	599.0764
#2	120.5974	5308.204	82.22084	44.19199	4913.338	96.53715	579.8199
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	308.2300	66.36575	34.39153	107.5055	59.86177	13541.29	137.4114
#1	311.2177	66.21117	34.67830	107.6941	60.32571	13770.89	139.4785
#2	305.2423	66.52035	34.10477	107.3170	59.39783	13311.68	135.3444
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	147.4716	74.51868	88.70453	455.3256	578.8894	6076.883
#1	149.3921	77.01952	90.08723	451.0414	585.8991	6074.395
#2	145.5511	72.01784	87.32182	459.6097	571.8797	6079.370
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SE710048-001-001-1/1 Operator: LCM
Run Time: 10/16/07 15:07:28
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	8063.299	-.368291	1.171159	9.598156	.2362945	.6651099	207.2293
#1	8118.527	-.010457	-1.25056	9.684063	.2481948	.6545172	206.7814
#2	8008.071	-.726125	3.592876	9.512249	.2243942	.6757026	207.6773
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	63.59236	2.654496	34.80169	50886.63	14.11008	307.3177	134.2694
#1	64.02970	2.607585	35.13227	51160.16	14.67221	310.3810	135.1270
#2	63.15501	2.701406	34.47111	50613.11	13.54795	304.2545	133.4119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	17.79779	81.97363	6.042424	.6996670	-28.2951	1.225702	111.2846
#1	17.79345	78.47334	7.441021	.4239824	-52.1768	2.118905	111.9290
#2	17.80212	85.47392	4.643827	.9753516	-4.41351	.3324995	110.6402
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	46.62838	-.431172	1.433897	1.916277	7.732760	2676.874	12.77366
#1	47.41915	-1.03643	1.426688	1.705703	7.778720	2701.034	12.25145
#2	45.83761	.1740811	1.441106	2.126852	7.686801	2652.715	13.29588
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	14.77782	2.251593	7.937419	-1.30914	5.841132	259.6980
#1	15.88208	3.663173	9.329523	-5.49734	15.65954	259.8352
#2	13.67356	.8400142	6.545315	2.879049	-3.97728	259.5608
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/16/07 15:19:57
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50236.63	493.9083	491.6178	495.5661	48.05445	475.3267	94279.55
#1	50262.93	495.3490	494.5349	496.4225	48.26271	475.8877	94456.21
#2	50210.34	492.4676	488.7006	494.7097	47.84618	474.7658	94102.88
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	477.3451	475.8822	501.8982	47315.94	483.8201	95934.88	480.0247
#1	478.4013	477.3361	503.6590	47405.57	482.6073	96128.03	481.2072
#2	476.2889	474.4283	500.1374	47226.31	485.0329	95741.72	478.8421
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	476.0923	Q80404.92	495.8986	506.4870	98391.27	490.0758	485.9951
#1	477.1167	Q80214.91	493.8247	507.5086	98387.43	495.5320	488.2224
#2	475.0679	Q80594.93	497.9726	505.4655	98395.11	484.6196	483.7678
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	474.3522	501.3286	482.3992	487.7002	497.7359	489.9597	476.1288
#1	475.1896	501.1592	481.8552	490.0038	498.6285	491.0726	477.8171
#2	473.5148	501.4979	482.9432	485.3966	496.8432	488.8467	474.4406
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	487.6653	500.3163	493.6895	492.2797	493.6579	513.8256
#1	485.0020	500.7900	490.3417	491.2749	457.4350	515.0955
#2	490.3286	499.8426	497.0373	493.2846	529.8808	512.5555
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/16/07 15:29:28
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	6.758211	-1.05355	-2.30866	.1982594	.0554286	.3513363	21.05618
#1	2.468097	-.548742	-1.20273	.1631180	.0210003	.2358623	14.87073
#2	11.04833	-1.55835	-3.41459	.2334008	.0898570	.4668102	27.24162
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.0465844	-.005344	.2454954	19.50514	-.455708	28.13093	.1016673
#1	.3001714	.1075143	.1051504	20.54319	-1.04520	19.24176	.0746049
#2	-.207002	-.118202	.3858404	18.46709	.1337864	37.02010	.1287297
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.347838	26.81450	1.676933	.3624095	7.521537	1.604003	.2413604
#1	1.855418	18.57167	.2666874	.4159498	-7.07382	2.002043	.2102169
#2	.8402585	35.05732	3.087178	.3088691	22.11689	1.205963	.2725038
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.47550	.1502034	1.426093	.4024257	.1399586	.4306183	-1.46669
#1	-1.31072	.3909446	2.050132	2.250053	.1008232	.3783385	-3.29290
#2	-1.64028	-.090538	.8020552	-1.44520	.1790941	.4828982	.3595204
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.0492699	-.112811	2.571377	.5057131	-18.0367	-.328394
#1	.0781314	-2.84491	1.821973	4.265405	-21.4843	-.147588
#2	.0204085	2.619291	3.320781	-3.25398	-14.5890	-.509200
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710048-002-002-1/1 Operator: LCM
Run Time: 10/16/07 15:41:12
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	37286.62	-1.52718	9.213129	40.81390	.6555636	4.236142	881.8812
#1	38521.13	-2.43910	8.747601	42.16402	.6976780	4.533480	908.2490
#2	36052.11	-.615264	9.678657	39.46378	.6134492	3.938805	855.5134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	339.6794	12.37367	240.4778	249350.6	67.25603	1170.944	592.8331
#1	351.2038	12.85259	248.8966	257538.0	70.00293	1213.443	612.2877
#2	328.1551	11.89475	232.0590	241163.2	64.50912	1128.446	573.3785
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	76.12091	399.8424	9.788689	2.572466	-82.5467	-3.25256	528.3817
#1	78.70583	422.2423	12.07204	2.532274	3.250902	-2.48913	547.1918
#2	73.53599	377.4424	7.505341	2.612657	-168.344	-4.01599	509.5715
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	306.9810	-2.18689	3.892671	7.781752	35.51132	11500.84	60.41721
#1	314.9781	-2.18156	3.714251	8.098866	36.71071	11936.95	62.47452
#2	298.9840	-2.19223	4.071091	7.464638	34.31194	11064.72	58.35988
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	70.67505	-.312030	14.83861	-16.6018	110.5766	990.7870
#1	73.76674	.7367201	17.73934	-19.0524	108.5183	1027.547
#2	67.58335	-1.36078	11.93787	-14.1511	112.6349	954.0267
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-003-003-1/1 Operator: LCM
Run Time: 10/16/07 15:50:46
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	45223.80	-1.13853	6.404921	49.92943	.8164429	1.851126	499.0375
#1	45405.49	-2.08319	6.747527	50.12603	.7746614	1.911772	499.1902
#2	45042.11	-.193861	6.062314	49.73283	.8582243	1.790480	498.8847
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	415.2561	17.23180	127.2834	238650.0	28.26213	1250.149	592.3610
#1	415.8917	17.18323	128.6268	239352.4	28.63548	1255.841	594.3309
#2	414.6205	17.28037	125.9400	237947.6	27.88878	1244.457	590.3910
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	113.3393	361.8103	12.95453	.3146640	94.96493	-1.84878	566.9741
#1	114.4748	360.5457	13.38442	.1949850	19.46106	-2.34397	569.3817
#2	112.2038	363.0750	12.52464	.4343430	170.4688	-1.35359	564.5666
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	165.2471	-3.21230	2.500559	6.336154	43.36824	12316.98	24.23321
#1	164.6157	-3.28623	2.768240	4.512402	43.59657	12399.17	23.41784
#2	165.8784	-3.13837	2.232877	8.159906	43.13992	12234.80	25.04859
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	30.27612	5.763834	16.54945	-13.3917	142.6979	1333.831
#1	31.24387	6.554038	16.79919	-17.0376	139.6908	1343.212
#2	29.30836	4.973630	16.29971	-9.74577	145.7050	1324.450
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-004-004-1/1 Operator: LCM
Run Time: 10/16/07 16:00:02
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26441.60	1.443737	9.845566	107.9855	.7647147	3.737697	1050.420
#1	26458.74	1.112388	9.648249	108.0467	.7454705	3.849325	1054.120
#2	26424.47	1.775085	10.04288	107.9243	.7839589	3.626068	1046.721
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	448.6831	25.24592	143.1104	242218.8	54.36486	1986.601	957.9064
#1	449.2716	25.22709	142.5151	242483.4	55.51688	1990.455	958.8450
#2	448.0946	25.26476	143.7058	241954.1	53.21285	1982.747	956.9678
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	94.95937	478.2589	10.93951	1.284365	113.8268	-6.55846	664.7790
#1	94.90913	474.1239	10.15348	1.584916	100.6413	-6.13112	665.1810
#2	95.00960	482.3939	11.72553	.9838148	127.0124	-6.98580	664.3772
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	245.5906	-2.83032	4.592127	12.50771	71.47472	14837.32	53.91642
#1	246.1895	-2.93829	4.058929	12.72968	71.44949	14851.80	54.84877
#2	244.9918	-2.72236	5.125324	12.28573	71.49994	14822.84	52.98408
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	54.58863	6.368109	13.22471	-10.4461	110.2713	655.9757
#1	55.85041	3.261369	13.59901	-10.1049	103.9170	657.5306
#2	53.32685	9.474849	12.85040	-10.7873	116.6256	654.4208
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-005-005-1/1 Operator: LCM
Run Time: 10/16/07 16:09:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51388.94	-.113097	10.48674	73.50011	.8012418	1.883006	667.2529
#1	52917.05	-1.49248	10.66129	75.60226	.8858547	1.809277	681.4858
#2	49860.82	1.266286	10.31219	71.39797	.7166287	1.956736	653.0200
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	288.9929	10.77230	108.7213	196416.5	20.20637	1084.633	627.8478
#1	297.7339	11.18641	111.8215	202185.3	21.30279	1117.200	645.4094
#2	280.2520	10.35820	105.6211	190647.6	19.10994	1052.067	610.2861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	96.90440	746.3995	11.70651	.5378501	20.23854	.7627468	392.0526
#1	99.13532	772.8561	10.09471	.5747384	203.2896	4.182243	403.8118
#2	94.67350	719.9429	13.31832	.5009618	-162.813	-2.65675	380.2934
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	166.7760	-.775568	2.929166	7.627152	95.89915	8626.451	17.04039
#1	171.6051	-.911937	2.984493	6.501551	98.95567	8878.628	17.93340
#2	161.9469	-.639200	2.873839	8.752752	92.84264	8374.273	16.14739
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	21.78888	2.589214	16.26471	-15.9317	100.5538	659.2378
#1	22.98697	2.052024	14.11553	-15.0507	103.4322	684.2457
#2	20.59079	3.126404	18.41389	-16.8126	97.67540	634.2300
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-006-006-1/1 Operator: LCM
Run Time: 10/16/07 16:18:48
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	38163.11	.5460429	10.83767	97.56358	.7631177	2.341632	894.1724
#1	38005.25	2.214663	11.61233	97.31746	.8032405	2.137325	895.3803
#2	38320.96	-1.12258	10.06302	97.80970	.7229948	2.545939	892.9645
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	376.6934	16.82548	132.0136	217198.4	28.28079	1333.671	727.0397
#1	376.7071	16.83972	131.4895	216834.1	29.03168	1328.010	725.8427
#2	376.6796	16.81123	132.5376	217562.6	27.52990	1339.331	728.2368
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	84.74246	597.0718	8.223493	.2311162	169.4322	-5.25469	485.1556
#1	84.97389	598.5258	5.991231	.3381992	266.3019	-8.69011	484.5575
#2	84.51103	595.6179	10.45575	.1240333	72.56250	-1.81927	485.7537
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	196.1893	-.356564	2.751559	8.451528	123.1519	9867.772	26.12859
#1	196.1050	-1.24625	2.648527	10.15260	122.5986	9850.741	27.49872
#2	196.2737	.5331203	2.854591	6.750457	123.7051	9884.804	24.75846
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	29.35646	2.446971	11.11123	-11.1528	102.4164	718.3503
#1	29.79782	3.161576	7.405540	-9.46907	90.25771	712.2925
#2	28.91511	1.732367	14.81692	-12.8365	114.5751	724.4080
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-007-007-1/1 Operator: LCM
Run Time: 10/16/07 16:28:18
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	33932.14	1.615186	9.602987	112.6221	.9066088	3.585395	1417.039
#1	33968.63	2.478734	10.39325	112.8224	.8942665	3.852512	1420.378
#2	33895.64	.7516384	8.812731	112.4217	.9189510	3.318277	1413.700
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	399.6271	22.69447	156.9004	216347.5	59.83485	1943.556	891.6425
#1	400.6835	22.92772	156.9740	216686.3	59.80306	1949.065	893.2711
#2	398.5707	22.46122	156.8267	216008.7	59.86663	1938.047	890.0139
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	99.37759	692.8773	9.429308	.7192535	312.7067	-2.00701	527.7984
#1	99.94401	696.4719	10.04488	1.088573	395.9273	-2.27250	528.2007
#2	98.81119	689.2826	8.813738	.3499340	229.4860	-1.74151	527.3961
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	228.2059	-1.07541	3.122820	11.61748	124.8794	11922.35	55.88301
#1	228.0343	-.990352	3.070178	12.04241	125.0661	11937.71	56.82197
#2	228.3774	-1.16046	3.175463	11.19254	124.6927	11907.00	54.94405
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	61.81042	2.733719	12.77676	-9.16490	81.46507	795.0236
#1	61.29327	3.922318	13.10581	-9.68668	86.92651	795.7742
#2	62.32757	1.545121	12.44770	-8.64312	76.00364	794.2728
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-008-008-1/1 Operator: LCM
Run Time: 10/16/07 16:37:53
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	27770.85	1.164903	8.897342	51.90936	.7230383	2.506037	600.2151
#1	27792.50	1.338157	8.148645	51.98357	.7262985	2.512980	597.8262
#2	27749.21	.9916487	9.646038	51.83516	.7197782	2.499094	602.6041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	419.5296	20.25468	185.3186	238761.4	59.77711	1703.554	610.5017
#1	418.9002	20.14782	185.4224	238410.7	60.19698	1701.232	609.4696
#2	420.1591	20.36154	185.2147	239112.1	59.35723	1705.876	611.5337
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	89.34509	451.1968	11.87735	1.196732	315.3462	.1792278	595.3062
#1	89.21863	446.5763	11.95334	1.350456	360.0588	2.844730	593.9434
#2	89.47155	455.8173	11.80136	1.043009	270.6335	-2.48627	596.6689
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	192.6186	-1.09175	3.437743	8.364516	52.07611	13342.50	54.99101
#1	191.7875	-.321813	2.828094	7.984045	52.17808	13328.31	55.92789
#2	193.4497	-1.86168	4.047391	8.744988	51.97414	13356.68	54.05412
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	62.16971	.7094450	17.46090	-5.95490	74.09266	767.0695
#1	62.33115	1.901681	16.97878	-2.97420	75.77966	768.8793
#2	62.00827	-.482791	17.94301	-8.93561	72.40565	765.2595
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-009-009-1/1 Operator: LCM
Run Time: 10/16/07 16:47:08
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	18054.24	-.436130	8.011937	36.69659	.6406163	2.331580	363.3592
#1	18516.32	-.949962	8.699585	37.62296	.5877885	2.500036	376.7890
#2	17592.16	.0777025	7.324289	35.77021	.6934441	2.163124	349.9294
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	410.6030	24.30913	122.7092	236073.3	33.32062	1832.190	569.3805
#1	420.7904	24.76137	126.7822	242088.7	33.42635	1879.621	583.9208
#2	400.4155	23.85690	118.6362	230057.9	33.21488	1784.758	554.8402
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	86.58070	242.3971	10.99646	.4411299	-30.7870	-.430002	705.0971
#1	89.14563	244.7520	11.40085	.6659647	-205.346	3.720402	725.4456
#2	84.01578	240.0421	10.59208	.2162952	143.7714	-4.58041	684.7487
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	152.0152	-5.29338	4.129611	7.307080	21.61063	15696.05	29.80861
#1	155.4878	-6.12956	3.970768	4.786650	22.17336	16157.23	30.74971
#2	148.5427	-4.45720	4.288455	9.827511	21.04791	15234.87	28.86751
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	35.07616	-.492577	16.74057	-16.5531	78.02678	759.0386
#1	34.76424	-2.81212	18.50690	-15.9078	85.27149	776.2381
#2	35.38806	1.826970	14.97424	-17.1983	70.78207	741.8391
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-010-010-1/1 Operator: LCM
Run Time: 10/16/07 16:56:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	21530.66	1.494082	8.989356	56.80323	.7805523	3.807134	1592.574
#1	21493.96	1.889509	9.874133	56.66437	.7888017	3.756510	1590.842
#2	21567.36	1.098656	8.104579	56.94209	.7723030	3.857758	1594.306
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	413.5444	21.65426	122.6577	246364.9	55.51904	2001.623	711.3425
#1	413.4193	21.40838	122.7718	246072.2	54.83586	2000.852	710.4524
#2	413.6694	21.90014	122.5436	246657.5	56.20222	2002.396	712.2327
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	82.84558	430.9207	11.50885	1.108839	132.6067	-2.56277	638.8274
#1	82.71405	426.1324	12.84456	1.093955	145.9356	-3.87072	637.6585
#2	82.97712	435.7090	10.17314	1.123724	119.2778	-1.25483	639.9964
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	178.6009	-1.98381	5.597724	8.441491	65.02087	14157.47	50.72263
#1	179.1365	-1.61086	5.949338	8.642748	64.89365	14159.22	49.23320
#2	178.0652	-2.35676	5.246111	8.240234	65.14810	14155.72	52.21206
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	57.91676	4.890363	14.81770	-9.08257	87.94308	709.6190
#1	57.63674	4.148967	17.19196	-7.65398	88.16815	713.1715
#2	58.19678	5.631760	12.44344	-10.5112	87.71801	706.0666
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-011-011-1/1 Operator: LCM
Run Time: 10/16/07 17:05:39
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	31692.34	-1.36065	9.747973	34.42257	.9013637	2.360711	979.0205
#1	31863.34	.0613470	11.32025	34.57873	.9105539	2.366753	980.9412
#2	31521.35	-2.78264	8.175696	34.26642	.8921735	2.354670	977.0998
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	486.1964	15.06447	113.0107	273160.6	33.29902	1422.839	638.6689
#1	487.7834	14.78865	114.4552	274103.7	33.76250	1428.978	640.8968
#2	484.6094	15.34029	111.5662	272217.5	32.83554	1416.699	636.4411
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	85.40979	632.3710	11.55136	1.157819	3.091381	-1.61491	571.7997
#1	84.95989	633.1972	10.59157	.6585957	-86.5425	.3637581	577.0052
#2	85.85970	631.5449	12.51115	1.657043	92.72524	-3.59358	566.5942
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	159.1378	-1.97353	3.713164	6.607298	42.76897	11204.25	29.67666
#1	158.3251	-2.36795	3.525301	8.659931	43.08649	11327.07	27.15934
#2	159.9506	-1.57910	3.901028	4.554665	42.45145	11081.44	32.19399
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	35.10973	3.223943	15.71468	-14.4892	97.45067	689.0016
#1	37.06358	-.518681	16.14631	-18.9713	81.98717	690.6816
#2	33.15589	6.966566	15.28305	-10.0070	112.9142	687.3216
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/16/07 17:18:05
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50665.41	499.4529	495.5679	502.5675	49.01163	482.9644	96068.75
#1	50839.12	502.2896	490.6151	504.2678	49.06607	483.3776	96266.69
#2	50491.71	496.6161	500.5207	500.8673	48.95719	482.5512	95870.82
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	485.1052	483.1794	503.9485	47934.66	490.9191	97334.19	487.5540
#1	485.2485	484.2770	503.8706	48041.80	491.1519	97455.28	489.0119
#2	484.9618	482.0818	504.0264	47827.52	490.6863	97213.09	486.0960
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	480.7798	Q81315.66	503.0541	512.2908	99203.45	494.7109	492.0053
#1	481.3691	Q81645.80	502.6350	513.8081	99672.33	494.6702	491.9852
#2	480.1904	Q80985.52	503.4731	510.7734	98734.57	494.7517	492.0254
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	481.0198	504.7086	488.7910	497.9221	503.5073	495.0309	485.2090
#1	480.9199	504.2315	488.9148	499.0554	503.9694	495.0425	486.2486
#2	481.1198	505.1858	488.6672	496.7888	503.0452	495.0193	484.1694
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	493.7738	501.5849	503.7882	498.5048	479.9452	519.7147
#1	493.6031	503.1121	502.3959	498.1398	469.1858	521.9339
#2	493.9445	500.0577	505.1805	498.8699	490.7047	517.4955
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/16/07 17:27:39
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	8.385675	-1.13133	-.685563	.1983873	.0824701	.2859364	23.98071
#1	8.361611	-1.06172	-.632352	.2081590	.0271936	.3204794	18.90879
#2	8.409740	-1.20093	-.738775	.1886157	.1377466	.2513934	29.05263
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.029354	.0618340	.2669954	29.24272	.2517055	30.09340	.1495635
#1	-.135434	.0759982	.4644704	31.59848	.3464151	24.69445	.1285785
#2	.0767264	.0476698	.0695204	26.88697	.1569959	35.49236	.1705486
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.432106	16.67443	1.252219	.3023330	-144.636	3.167242	.3363790
#1	1.810443	7.876155	3.061723	-.008351	-339.263	1.510411	.0113291
#2	1.053769	25.47271	-.557286	.6130169	49.99203	4.824072	.6614288
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.13045	.3380839	1.148286	-.033628	.1516424	.6581298	-1.66522
#1	-1.05613	.8672321	1.163999	-1.16416	.1303282	.7484492	-1.34405
#2	-1.20478	-.191064	1.132572	1.096907	.1729565	.5678104	-1.98640
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1.209660	-.012551	1.884199	1.128240	-15.2323	.4413653
#1	1.191136	2.075805	3.554171	-2.74357	-6.99997	1.664070
#2	1.228183	-2.10091	.2142266	5.000051	-23.4647	-.781339
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710048-012-012-1/1 Operator: LCM
Run Time: 10/16/07 17:36:55
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24780.62	-.590136	8.170138	42.66186	.9387904	2.531812	1340.121
#1	24692.96	.7335148	7.590182	42.51049	.9591007	2.215761	1337.159
#2	24868.27	-1.91379	8.750094	42.81323	.9184800	2.847862	1343.082
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	538.7026	28.90287	145.4661	253208.0	31.26884	2386.386	824.2415
#1	538.2162	29.25912	145.4431	252721.0	30.42458	2385.423	822.5207
#2	539.1890	28.54663	145.4891	253695.0	32.11310	2387.350	825.9623
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	113.3438	614.5948	8.974685	1.218499	312.0956	-5.44854	695.7911
#1	113.2327	612.8106	7.567066	.9268104	339.6807	-7.16496	693.8618
#2	113.4549	616.3791	10.38230	1.510189	284.5106	-3.73212	697.7205
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	240.6440	-2.56514	3.670411	8.215793	46.94131	15173.09	29.13200
#1	240.3488	-2.86273	3.264617	6.093786	46.91933	15170.23	29.41132
#2	240.9392	-2.26754	4.076205	10.33780	46.96328	15175.95	28.85268
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	32.33683	-3.32530	15.12431	-8.92425	101.5619	659.9157
#1	30.93069	-2.77561	12.73805	-7.62431	120.0536	657.8905
#2	33.74297	-3.87500	17.51056	-10.2242	83.07019	661.9407
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-013-013-1/1 Operator: LCM
Run Time: 10/16/07 17:46:10
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	14666.82	-.129663	5.123527	46.15070	.4994835	2.252843	926.4641
#1	15181.34	-.591219	5.023715	47.77499	.4997166	2.599344	957.2010
#2	14152.31	.3318930	5.223340	44.52640	.4992503	1.906342	895.7273
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	428.9209	29.19652	136.3824	199995.2	24.63876	2256.151	911.3469
#1	442.8974	29.62246	142.9735	206760.0	25.79885	2333.936	941.6627
#2	414.9444	28.77059	129.7912	193230.4	23.47867	2178.365	881.0311
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	96.50017	414.0989	8.390892	.4622370	19.56074	.8417320	636.6812
#1	99.28378	426.9159	8.541353	.8054152	-162.812	4.125591	662.7874
#2	93.71654	401.2819	8.240432	.1190587	201.9338	-2.44213	610.5749
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	212.0114	-4.19362	2.716442	6.148449	35.39102	14474.30	20.37701
#1	217.4923	-4.97457	2.530045	6.115665	36.69769	15069.16	21.99202
#2	206.5306	-3.41267	2.902839	6.181233	34.08435	13879.43	18.76200
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	26.76920	-2.94835	14.06006	-11.8465	56.86738	603.6241
#1	27.70183	-3.87485	14.74906	-14.9160	68.69922	631.0075
#2	25.83657	-2.02185	13.37106	-8.77687	45.03554	576.2407
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-014-014-1/1 Operator: LCM
Run Time: 10/16/07 17:55:26
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	16837.79	-.572018	7.717242	52.34003	.6224447	2.868031	1320.436
#1	16997.01	.0224314	5.701592	52.68704	.6141956	2.597847	1333.612
#2	16678.57	-1.16647	9.732892	51.99303	.6306938	3.138216	1307.261
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	505.9022	28.43346	125.4756	257003.6	30.18084	2127.923	802.9904
#1	511.8735	28.49532	128.2885	259948.9	29.67874	2152.472	811.1654
#2	499.9308	28.37159	122.6628	254058.3	30.68294	2103.374	794.8153
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	85.46265	529.3647	12.38477	.9524009	125.4765	.1673222	819.1732
#1	86.24853	536.9554	11.28317	.8067014	50.12917	.8806458	830.8024
#2	84.67676	521.7739	13.48638	1.098100	200.8237	-.546001	807.5441
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	212.7580	-5.25744	3.059038	6.785147	48.10525	18365.87	25.08379
#1	213.9916	-5.16237	3.157141	6.330490	48.53875	18639.60	24.95991
#2	211.5245	-5.35252	2.960936	7.239803	47.67176	18092.13	25.20767
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	32.72903	-.531686	18.84259	-16.3128	102.2814	633.2876
#1	32.03782	-2.67979	18.26421	-21.2157	100.4591	640.9422
#2	33.42023	1.616418	19.42096	-11.4100	104.1037	625.6331
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-015-015-1/1 Operator: LCM
Run Time: 10/16/07 18:05:00
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	47992.85	.5767374	14.71325	38.16775	.8722726	3.240623	521.9769
#1	47960.62	.5433350	13.56071	38.30889	.8191503	3.585705	526.8525
#2	48025.07	.6101399	15.86580	38.02661	.9253948	2.895542	517.1013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	355.2363	8.672011	99.55118	296378.2	58.83209	744.8237	453.6783
#1	356.1668	9.194332	99.34804	297518.7	59.92672	748.6571	455.1323
#2	354.3059	8.149691	99.75431	295237.8	57.73747	740.9904	452.2244
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	58.02198	394.5903	20.91954	.8078407	-24.6019	-5.50360	581.1564
#1	58.14661	395.8748	21.61558	.5739063	118.9785	-4.29668	580.2396
#2	57.89735	393.3058	20.22350	1.041775	-168.182	-6.71053	582.0732
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	107.7794	-2.17966	5.506846	7.417307	35.69095	12984.78	54.42067
#1	107.9074	-1.85941	5.427879	8.735853	35.75961	12961.36	54.34153
#2	107.6513	-2.49991	5.585813	6.098761	35.62229	13008.20	54.49981
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	61.03727	13.76340	24.49710	-11.8769	142.5992	1149.684
#1	62.71863	11.99362	26.42604	-12.6088	127.7588	1146.411
#2	59.35591	15.53317	22.56815	-11.1450	157.4395	1152.957
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-016-016-1/1 Operator: LCM
Run Time: 10/16/07 18:14:16
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42930.19	-.423602	10.27639	39.41573	.8940804	4.082386	484.5631
#1	41541.82	.2838688	10.79903	38.25263	.8991666	3.908955	473.3134
#2	44318.56	-1.13107	9.753744	40.57884	.8889942	4.255817	495.8128
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	403.5397	10.56493	123.1176	308797.9	38.88505	841.0218	476.5134
#1	390.5306	10.03978	120.4172	299495.5	38.21381	814.6247	461.7531
#2	416.5487	11.09008	125.8181	318100.4	39.55629	867.4189	491.2736
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	65.88043	402.6398	14.64063	1.296789	-19.2636	-4.67021	605.4825
#1	63.56485	390.9060	14.77288	1.193596	-136.628	-5.60489	591.7466
#2	68.19601	414.3737	14.50839	1.399983	98.10097	-3.73553	619.2185
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	152.7642	-2.31331	3.714707	8.896000	36.84543	12605.21	34.40741
#1	148.6397	-2.86326	3.289139	6.864542	35.68391	12323.12	33.29445
#2	156.8886	-1.76336	4.140276	10.92746	38.00695	12887.31	35.52037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	41.12336	6.886517	18.51735	-12.0499	73.86266	752.9629
#1	40.67316	5.205146	19.55641	-11.3187	10.55772	729.3915
#2	41.57356	8.567888	17.47829	-12.7811	137.1676	776.5343
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-017-017-1/1 Operator: LCM
Run Time: 10/16/07 18:23:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	48387.78	-1.15679	7.804926	54.44563	.9003994	2.372644	525.3220
#1	48510.15	-3.06560	7.546782	54.45566	.9172549	2.252672	520.7576
#2	48265.41	.7520285	8.063070	54.43560	.8835440	2.492617	529.8865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	411.6525	16.88671	135.0878	239095.0	35.99182	1246.064	622.9060
#1	412.1839	16.54443	135.2910	239308.0	35.69415	1251.233	623.3537
#2	411.1211	17.22899	134.8846	238882.0	36.28948	1240.896	622.4583
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	112.8418	368.8488	13.29795	1.128586	203.6863	-3.62439	554.2009
#1	113.6692	370.2756	15.57375	.8835785	158.0391	-4.71708	554.9470
#2	112.0144	367.4221	11.02214	1.373595	249.3335	-2.53171	553.4549
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	172.0915	-2.59549	3.165853	7.452000	48.25669	12029.74	32.28728
#1	171.6469	-2.95179	2.711516	7.804148	48.46388	12054.65	32.09546
#2	172.5361	-2.23919	3.620191	7.099852	48.04950	12004.83	32.47910
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	37.84370	4.820310	17.53633	-7.39602	144.4579	1226.742
#1	37.49312	10.09128	18.31455	-12.1166	135.6906	1229.465
#2	38.19429	-.450665	16.75811	-2.67548	153.2252	1224.019
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-018-018-1/1 Operator: LCM
Run Time: 10/16/07 18:32:47
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	23168.25	-1.95090	4.757632	76.03351	.8431444	2.987972	486.2741
#1	24275.51	-1.56832	6.317086	79.56986	.7485868	3.275310	510.2050
#2	22061.00	-2.33348	3.198179	72.49716	.9377021	2.700634	462.3432
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	410.4111	23.84491	104.9755	218516.6	24.92954	1729.901	814.0308
#1	429.6539	25.35774	109.2135	228849.9	25.48126	1804.963	852.3991
#2	391.1684	22.33208	100.7375	208183.2	24.37783	1654.839	775.6625
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	85.97232	364.9152	7.707506	.5643270	114.3948	-3.46168	632.7170
#1	88.95429	374.8109	7.587884	.2596957	22.99743	-2.62257	653.9607
#2	82.99034	355.0196	7.827127	.8689583	205.7923	-4.30079	611.4734
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	189.1600	-4.81351	3.226466	8.093139	61.12241	14244.68	22.74892
#1	195.8115	-4.20028	3.332367	9.686552	63.82630	14726.33	23.21718
#2	182.5085	-5.42673	3.120564	6.499725	58.41853	13763.02	22.28065
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	26.01945	.5227764	11.29945	-8.67889	-20.4581	631.8265
#1	26.61296	-.998788	11.88078	-12.0666	70.58244	670.0898
#2	25.42593	2.044341	10.71812	-5.29120	-111.499	593.5632
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-019-019-1/1 Operator: LCM
Run Time: 10/16/07 18:42:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	49699.86	-.053507	11.31580	84.87830	.9620786	2.427293	905.0580
#1	50260.93	1.303489	10.51532	85.71542	.9129705	2.454174	908.5825
#2	49138.79	-1.41050	12.11628	84.04119	1.011187	2.400412	901.5336
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	333.1749	12.34624	138.7269	203694.7	40.05737	1291.715	681.0107
#1	336.5659	12.78665	139.6476	205459.5	40.51671	1302.530	686.4841
#2	329.7839	11.90582	137.8061	201929.9	39.59803	1280.900	675.5374
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	102.7173	805.9713	10.90355	.6103695	154.0126	-3.13586	409.7389
#1	103.1754	811.4833	9.948475	.5587506	131.3061	-5.47351	410.2925
#2	102.2592	800.4593	11.85862	.6619884	176.7190	-.798218	409.1852
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	204.6571	-1.04290	3.033245	6.844379	104.1891	8487.828	36.52923
#1	205.2866	-.664748	3.364012	6.993999	105.3849	8524.163	38.77287
#2	204.0276	-1.42105	2.702478	6.694759	102.9933	8451.494	34.28560
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	41.82101	2.733445	14.98822	-6.62685	76.48398	764.3298
#1	41.38821	5.305470	12.26959	-8.51072	145.1171	774.9824
#2	42.25383	.1614194	17.70684	-4.74299	7.850881	753.6774
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-020-020-1/1 Operator: LCM
Run Time: 10/16/07 18:51:38
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	39614.05	-.330806	11.04207	106.6778	.9584599	2.871004	996.5159
#1	39574.29	.2431335	12.23951	106.5803	.9211000	2.962040	999.9350
#2	39653.81	-.904745	9.844637	106.7751	.9958197	2.779968	993.0969
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	415.6263	19.49256	139.6135	233428.5	31.22161	1485.894	790.4921
#1	416.3927	19.41514	139.9512	233847.8	31.48449	1490.439	791.8416
#2	414.8599	19.56998	139.2758	233009.1	30.95872	1481.348	789.1426
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	93.70184	658.2486	9.900501	.6085622	114.6718	-4.53572	538.7976
#1	93.75670	655.3652	10.68052	-.126016	80.88886	-4.21015	539.8750
#2	93.64697	661.1320	9.120483	1.343140	148.4548	-4.86129	537.7202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	211.9578	-2.43119	3.245662	6.704978	133.5239	11082.24	26.18111
#1	212.6436	-1.71374	3.034610	6.904506	133.3354	11088.88	27.24097
#2	211.2720	-3.14864	3.456713	6.505449	133.7125	11075.60	25.12125
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	33.74142	1.969756	13.86544	-10.2477	115.5834	722.6784
#1	33.60591	4.970636	13.53503	-11.6082	111.9333	721.2222
#2	33.87694	-1.03112	14.19585	-8.88725	119.2336	724.1346
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/16/07 19:03:47
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50900.08	503.4951	501.7778	506.3889	49.00452	486.2816	96881.84
#1	50739.36	501.0765	501.0348	504.7393	48.92176	485.6194	96703.29
#2	51060.79	505.9137	502.5208	508.0386	49.08728	486.9437	97060.39
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	488.3931	486.5083	504.4575	48254.91	491.0934	97941.64	491.0990
#1	487.9148	485.1382	504.4018	48104.59	490.1889	97783.84	489.2538
#2	488.8715	487.8784	504.5131	48405.23	491.9980	98099.45	492.9442
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	485.7679	Q81514.45	507.4550	512.4285	99628.22	500.3409	495.1886
#1	484.2412	Q81236.02	506.2169	511.4037	99329.36	496.7778	494.0820
#2	487.2946	Q81792.89	508.6932	513.4533	99927.07	503.9040	496.2952
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	481.6103	504.4230	492.7207	502.8151	505.6219	495.3376	487.1892
#1	479.2907	503.1019	489.8700	500.1714	505.3094	494.4245	487.8493
#2	483.9300	505.7440	495.5714	505.4589	505.9343	496.2507	486.5291
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	493.0451	507.0116	507.6764	492.2930	479.1042	522.7010
#1	491.3582	508.4467	505.1017	490.5922	474.1629	522.9322
#2	494.7321	505.5765	510.2511	493.9937	484.0456	522.4698
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/16/07 19:13:02
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	16.24631	-.172239	-1.09232	.3271584	.1406507	.2462059	37.45459
#1	22.30512	-1.12611	-.823790	.3857936	.1443872	.3411325	43.33891
#2	10.18750	.7816323	-1.36085	.2685231	.1369143	.1512793	31.57028
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.131035	.2916826	.8769168	34.65717	.2120343	42.57967	.1861526
#1	-.026071	.4468652	.9714423	39.04451	.0243390	52.68059	.2389086
#2	-.235999	.1365000	.7823912	30.26983	.3997296	32.47875	.1333966
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.866551	29.06716	.0760760	.4475421	108.9485	3.556784	.4651923
#1	1.690613	33.11431	-.747525	.1248308	121.2494	4.624397	.6000355
#2	2.042489	25.02001	.8996768	.7702534	96.64769	2.489171	.3303491
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.53101	.4264261	1.138446	-1.33991	.2054916	.6152180	.5438976
#1	-1.34786	.6009017	.7761536	-1.94252	.2545027	.7737342	-1.80357
#2	-1.71415	.2519505	1.500738	-.737302	.1564806	.4567018	2.891361
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.0455963	1.060817	-.416715	1.426646	-26.4432	2.399923
#1	.9377790	-1.25609	-.493582	-.690370	-21.4483	4.037616
#2	-.846586	3.377728	-.339849	3.543662	-31.4380	.7622295
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: BLK100883 Operator: LCM
Run Time: 10/16/07 19:22:18
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	H131.1009	1.465437	-1.85080	H10.24321	.1664412	-.132298	H541.8293
#1	H130.3170	4.013321	-.994213	H10.15246	.2480835	-.083787	H539.7701
#2	H131.8848	-1.08245	-2.70738	H10.33396	.0847989	-.180809	H543.8885
Errors	LC High	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC High
High	100.0000	10.00000	10.00000	2.500000	1.000000	3.000000	500.0000
Low	-100.000	-10.0000	-10.0000	-2.50000	-1.00000	-3.00000	-500.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.946016	-.958861	1.036215	52.72564	.9962621	87.07536	.8187821
#1	2.189237	-.547807	.9857944	49.90551	.6970051	85.04791	.7857802
#2	1.702795	-1.36991	1.086635	55.54576	1.295519	89.10281	.8517841
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.500000	2.500000	5.000000	75.00000	5.000000	125.0000	2.500000
Low	-2.50000	-2.50000	-5.00000	-75.0000	-5.00000	-125.000	-2.50000

Elem	NI	K	SE	AG	NA	TL	V
Avge	-1.62839	31.88833	-.250562	.1870305	625.9020	-4.41218	.8644863
#1	-1.75907	44.93502	1.324707	.7512428	815.3146	-5.47163	1.713117
#2	-1.49771	18.84164	-1.82583	-.377182	436.4894	-3.35273	.0158557
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000
Low	-5.00000	-125.000	-10.0000	-2.50000	-1250.00	-15.0000	-5.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	H16.49210	H19.87594	.5282849	H24.98881	H6.328434	1.363907	2.022796
#1	H16.41838	H20.63154	.2304462	H24.60057	H6.288568	1.472625	2.333937
#2	H16.56583	H19.12034	.8261235	H25.37704	H6.368300	1.255190	1.711655
Errors	LC High	LC High	LC Pass	LC High	LC High	LC Pass	NOCHECK
High	10.00000	7.500000	2.500000	12.50000	5.000000	12.50000	
Low	-10.0000	-7.50000	-2.50000	-12.5000	-5.00000	-12.5000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.4824860	-16.5987	7.923053	-22.9879	-27.9710	19.77551
#1	-.121969	-12.3653	8.169297	-20.5191	-45.0574	20.54908
#2	1.086941	-20.8320	7.676808	-25.4567	-10.8845	19.00194
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACE1 Sample Name: BKS100883 Operator: LCM
Run Time: 10/16/07 19:31:52
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	10172.85	101.6020	96.81895	1046.084	50.85839	100.4326	9989.715
#1	10173.89	102.0287	96.04279	1045.949	50.99933	101.0906	10025.68
#2	10171.80	101.1753	97.59512	1046.219	50.71744	99.77459	9953.745
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	12000.00	120.0000	120.0000	1200.000	60.00000	120.0000	12000.00
Low	8000.000	80.00000	80.00000	800.0000	40.00000	80.00000	8000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	514.3072	493.9769	518.7407	10006.02	987.2089	9649.902	1013.655
#1	515.8113	496.2925	519.8719	10031.11	989.4448	9681.632	1015.266
#2	512.8031	491.6612	517.6096	9980.927	984.9730	9618.173	1012.044
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	600.0000	600.0000	12000.00	1200.000	12000.00	1200.000
Low	400.0000	400.0000	400.0000	8000.000	800.0000	8000.000	800.0000

Elem	NI	K	SE	AG	NA	TL	V
Avge	496.5304	9503.076	93.54382	101.8920	10214.60	95.68445	521.9003
#1	498.1661	9529.110	94.72405	102.5919	10478.84	97.94793	523.9967
#2	494.8947	9477.041	92.36359	101.1920	9950.357	93.42097	519.8040
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0000	12000.00	120.0000	120.0000	12000.00	120.0000	600.0000
Low	400.0000	8000.000	80.00000	80.00000	8000.000	80.00000	400.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	1015.137	949.1608	508.7592	525.6768	1038.823	2027.513	981.6766
#1	1020.058	951.4951	509.5630	525.7515	1040.008	2032.110	990.9784
#2	1010.216	946.8266	507.9554	525.6020	1037.639	2022.917	972.3749
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	1200.000	1200.000	600.0000	600.0000	1200.000	2400.000	
Low	800.0000	800.0000	400.0000	400.0000	800.0000	1600.000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	989.9746	77.44512	101.5927	331.9421	397.5587	L7784.355
#1	988.6775	78.40873	102.8813	336.1660	411.5816	L7797.657
#2	991.2716	76.48151	100.3042	327.7183	383.5357	L7771.053
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Low
High						12000.00
Low						8000.000

Method: TRACE1 Sample Name: S 710048-021-021-1/1 Operator: LCM
Run Time: 10/16/07 19:41:07
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	29245.46	1.999532	8.353571	128.4188	.9377650	3.191881	1474.913
#1	29294.81	1.925421	4.751435	128.5213	.9334484	3.188507	1476.695
#2	29196.10	2.073643	11.95571	128.3163	.9420816	3.195255	1473.132
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	431.9649	23.84408	147.4453	228233.8	71.79410	1996.441	895.8029
#1	433.4570	24.07612	148.2387	228763.7	72.49182	2005.620	897.7459
#2	430.4728	23.61204	146.6519	227703.9	71.09637	1987.263	893.8599
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	101.2905	744.6420	9.652172	1.318441	91.81393	-2.71569	587.2659
#1	100.7664	747.1326	10.17373	.9611343	118.0454	-3.51956	588.7687
#2	101.8146	742.1514	9.130614	1.675747	65.58244	-1.91182	585.7631
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	236.0875	-.120049	3.589200	8.722794	129.7411	13087.18	68.80212
#1	236.4357	.0973210	3.715308	7.887140	129.7925	13147.99	68.32411
#2	235.7393	-.337420	3.463093	9.558449	129.6897	13026.37	69.28012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	73.28954	2.608265	13.17366	-14.3436	84.39159	521.4197
#1	74.57501	3.904514	13.30787	-12.5153	94.90159	525.0352
#2	72.00407	1.312016	13.03944	-16.1719	73.88158	517.8043
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SP710048-021-021-1/1 Operator: LCM
Run Time: 10/16/07 19:50:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	38582.25	6.713119	18.69637	321.1551	5.756134	12.45575	2539.340
#1	38650.64	7.285626	19.37116	321.9364	5.706285	12.41168	2547.646
#2	38513.86	6.140612	18.02158	320.3737	5.805983	12.49982	2531.034
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	500.7553	73.37616	215.9681	236579.8	176.2640	3205.982	1038.105
#1	500.8677	73.29422	217.5398	237139.8	177.4298	3214.115	1040.313
#2	500.6430	73.45810	214.3963	236019.8	175.0983	3197.849	1035.898
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	164.8173	1856.164	17.36549	10.83673	1072.971	4.649277	673.8158
#1	165.1779	1862.572	16.90616	10.58950	1128.798	3.197655	676.8296
#2	164.4567	1849.755	17.82483	11.08397	1017.144	6.100899	670.8021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	354.6417	90.48660	44.62779	58.12727	372.5075	14462.44	170.7887
#1	354.7578	90.65232	44.32458	59.59630	372.8045	14542.08	169.2995
#2	354.5255	90.32088	44.93100	56.65823	372.2105	14382.82	172.2779
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	179.0012	10.77604	20.65984	19.94882	148.1048	900.0165
#1	181.4944	6.989263	21.86422	17.12205	153.3458	901.2613
#2	176.5081	14.56281	19.45546	22.77559	142.8637	898.7717
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SD710048-021-021-1/1 Operator: LCM
Run Time: 10/16/07 19:59:38
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	39908.88	6.771478	21.08728	330.0309	5.861721	13.70222	2624.687
#1	39935.44	5.553710	20.87624	330.2136	5.928712	13.63290	2627.486
#2	39882.32	7.989245	21.29832	329.8483	5.794730	13.77153	2621.888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	510.7998	74.91220	237.6307	244122.1	179.8875	3283.814	1078.948
#1	512.2225	75.23163	237.6547	244447.1	179.4238	3292.119	1080.396
#2	509.3771	74.59277	237.6067	243797.1	180.3513	3275.509	1077.501
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	169.8319	1906.341	16.85063	11.24355	1254.828	2.490204	686.4279
#1	170.3304	1906.578	15.67988	10.60220	1260.962	4.175827	687.0975
#2	169.3334	1906.104	18.02137	11.88490	1248.693	.8045807	685.7582
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	364.0410	90.37204	45.46345	57.45695	380.8098	14579.47	174.5398
#1	363.6123	89.93191	45.48600	59.28651	381.1002	14602.44	173.9690
#2	364.4697	90.81217	45.44089	55.62740	380.5194	14556.50	175.1106
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	182.5609	8.549070	21.00097	24.63535	141.9802	849.7478
#1	182.1507	7.289372	19.87470	25.73624	146.3594	850.1205
#2	182.9712	9.808767	22.12723	23.53447	137.6010	849.3751
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: PS710048-021-021-1/1 Operator: LCM
Run Time: 10/16/07 20:09:14
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	30329.00	80.29536	87.43907	148.6048	10.59751	22.50588	6133.239
#1	30327.26	81.06585	90.84862	149.0171	10.67773	22.55587	6144.096
#2	30330.73	79.52487	84.02952	148.1925	10.51728	22.45589	6122.383
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	452.3041	51.93507	178.6346	229718.1	150.1603	6777.565	971.7428
#1	453.5756	52.04412	179.0564	230098.6	151.6709	6777.455	973.8027
#2	451.0327	51.82602	178.2129	229337.5	148.6496	6777.675	969.6830
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	140.5295	5667.626	79.51244	49.75006	4945.815	94.31493	608.0430
#1	140.0969	5675.084	79.90775	50.26392	5026.183	94.85003	610.2949
#2	140.9621	5660.167	79.11713	49.23620	4865.448	93.77984	605.7912
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	314.3685	67.57295	33.39888	108.1414	150.2322	13159.33	147.5343
#1	315.7201	68.14778	33.43806	108.4712	150.3339	13194.17	149.7208
#2	313.0168	66.99811	33.35971	107.8117	150.1305	13124.48	145.3477
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	151.4729	71.03995	83.74828	468.0717	595.2340	5412.337
#1	152.6456	70.61148	84.55549	468.9896	596.9767	5414.745
#2	150.3002	71.46841	82.94106	467.1537	593.4913	5409.930
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: SE710048-021-021-1/1 Operator: LCM
Run Time: 10/16/07 20:18:30
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	5983.242	.2641275	.7316285	25.99311	.2921292	.5298510	290.3284
#1	5980.457	-1.06035	1.940046	25.94638	.2992533	.6194959	290.6884
#2	5986.028	1.588609	-.476789	26.03985	.2850052	.4402061	289.9685
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	89.03108	4.786983	30.48202	46634.88	15.09495	421.4666	183.8753
#1	88.87419	4.616477	30.33046	46554.21	15.87769	416.7132	183.6748
#2	89.18797	4.957490	30.63358	46715.54	14.31222	426.2201	184.0757
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	22.66671	141.8307	.4218597	.1218179	-21.0024	-2.08997	120.5502
#1	22.20235	140.2026	-.278172	.1473819	-7.38113	-6.15778	119.9240
#2	23.13107	143.4589	1.121892	.0962539	-34.6238	1.977845	121.1765
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	49.75486	-.806381	.5769815	.5487431	26.51456	2713.001	14.88446
#1	49.44727	-.605912	.4093126	-.463233	26.53468	2708.738	15.52303
#2	50.06246	-1.00685	.7446504	1.560719	26.49444	2717.263	14.24590
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	15.19978	-2.35609	1.810474	-4.02849	25.22981	107.4777
#1	16.05451	-4.27595	1.720377	-4.72846	29.18509	104.8812
#2	14.34504	-.436231	1.900572	-3.32851	21.27453	110.0743
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/16/07 20:30:39
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	488364.9	-.653791	1.261638	.9504025	.6089020	4.595533	492237.9
#1	488727.0	.2310667	-2.13638	.9949857	.5547951	4.602858	495781.7
#2	488002.8	-1.53865	4.659656	.9058193	.6630088	4.588209	488694.2
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.704710	2.454251	2.099462	186448.2	4.256778	488078.0	Q11.66708
#1	1.982832	2.450977	1.962907	186982.6	3.841910	490207.4	Q11.64838
#2	1.426589	2.457524	2.236017	185913.8	4.671645	485948.6	Q11.68578
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	4.246658	-9.32307	6.713660	.2814840	-9.23584	-7.65416	.8302288
#1	4.581185	-7.16616	3.882631	.2584887	27.77805	-9.96842	1.219865
#2	3.912131	-11.4800	9.544688	.3044793	-46.2497	-5.33989	.4405927
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q23.08881	2.239211	-.359353	3.399424	Q4.268475	2.010572	-13.4158
#1	Q23.67776	2.761944	.4173656	2.628194	Q4.287062	2.146964	-8.74846
#2	Q22.49986	1.716477	-1.13607	4.170654	Q4.249888	1.874179	-18.0831
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	13.09261	14.63794	2.751183	-17.3458	-13.3792	Q37.04789
#1	10.13667	10.39623	.6254730	-19.3073	-5.18169	Q37.59834
#2	16.04854	18.87966	4.876892	-15.3843	-21.5768	Q36.49744
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/16/07 20:39:56
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	483735.6	603.7883	96.62239	512.3193	468.6115	913.8401	483284.6
#1	484181.7	603.1954	98.94658	513.5009	468.0694	913.9725	483635.5
#2	483289.5	604.3811	94.29821	511.1378	469.1536	913.7076	482933.8
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	468.0580	456.6681	526.2058	184500.5	50.61749	482353.1	483.9013
#1	468.2290	457.6035	524.7700	184671.7	50.95257	482697.9	484.2525
#2	467.8871	455.7328	527.6416	184329.3	50.28240	482008.2	483.5502
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	910.6124	5552.965	53.90894	211.4948	10577.88	91.90402	480.3412
#1	911.5352	5564.176	52.63631	211.5803	10642.32	90.49039	479.5466
#2	909.6897	5541.754	55.18156	211.4093	10513.44	93.31767	481.1358
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	917.3823	1011.346	957.2922	982.9513	508.6785	957.8972	33.36416
#1	914.9163	1010.847	956.6914	984.7494	509.2075	956.3112	26.66084
#2	919.8483	1011.846	957.8931	981.1532	508.1494	959.4831	40.06747
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	59.24371	57.27706	52.22434	179.8721	Q182.4890	Q1335.200
#1	63.09796	47.18483	55.36151	176.5431	Q164.1558	Q1335.008
#2	55.38945	67.36929	49.08717	183.2011	Q200.8223	Q1335.392
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: CVCCV3 Operator: LCM
Run Time: 10/16/07 20:49:11
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50728.34	498.6641	499.0173	500.8815	48.74694	484.8366	95501.34
#1	51083.56	502.5199	504.5769	504.9852	49.01389	488.5444	96207.92
#2	50373.12	494.8082	493.4576	496.7778	48.47999	481.1288	94794.76
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	485.7206	484.1487	505.1452	47989.69	492.8258	97159.47	487.4169
#1	489.7623	488.2355	506.7090	48428.23	497.8024	97893.03	491.2229
#2	481.6788	480.0620	503.5814	47551.16	487.8492	96425.91	483.6109
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	482.6035	Q80730.42	505.4411	510.2237	98957.55	491.7943	492.1763
#1	487.6618	Q81101.14	508.3305	510.5571	99491.18	493.7597	495.1730
#2	477.5452	Q80359.70	502.5517	509.8904	98423.93	489.8289	489.1795
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	480.0677	506.3043	491.1999	497.4728	503.3115	494.3008	481.5428
#1	482.6648	509.8036	494.4401	504.2316	507.2153	496.8129	482.3700
#2	477.4706	502.8050	487.9597	490.7141	499.4078	491.7888	480.7157
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	498.4668	503.3429	506.4898	492.6168	488.2396	523.0308
#1	505.5181	505.0254	509.9826	494.6152	474.7061	526.7819
#2	491.4154	501.6604	502.9970	490.6184	501.7732	519.2797
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB3 Operator: LCM
Run Time: 10/16/07 20:58:47
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	38.98557	-1.52033	-2.40656	.1708998	.0969804	.1433361	39.42784
#1	57.07000	-1.67616	-1.59006	.2902202	.0874518	.2613072	57.02351
#2	20.90113	-1.36450	-3.22306	.0515795	.1065090	.0253650	21.83218
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.286727	-.226035	.2196177	20.19722	.5843364	55.02338	.0968391
#1	-.216679	.0238264	.0694499	34.04104	.5357283	76.70280	.1884328
#2	-.356775	-.475896	.3697855	6.353392	.6329446	33.34395	.0052455
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	.8699691	20.27710	-.248273	-.336217	-107.229	1.250580	.1713089
#1	1.269658	32.44135	.3183489	-.053191	24.67945	2.466010	.0743220
#2	.4702807	8.112851	-.814895	-.619244	-239.137	.0351493	.2682958
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.53382	.3699343	1.456315	.7418573	.1438427	.2680790	-2.55970
#1	-1.39012	1.067746	1.811128	.6954679	.2058323	.2910671	-1.61664
#2	-1.67753	-.327877	1.101503	.7882466	.0818532	.2450909	-3.50276
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	2.155849	.2006170	-.473138	-3.89603	-1.39411	-1.62977
#1	1.611408	1.667009	-.356316	-2.38293	-10.0016	.0913703
#2	2.700290	-1.26578	-.589961	-5.40913	7.213388	-3.35091
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710048-022-022-1/1 Operator: LCM
Run Time: 10/16/07 21:08:03
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	46831.13	-1.92492	14.71418	49.08617	.8010914	2.340444	193.3191
#1	46991.68	-2.09443	13.45143	49.26653	.8535795	2.337988	194.7068
#2	46670.58	-1.75540	15.97693	48.90580	.7486033	2.342899	191.9313
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	429.3106	14.13852	111.8808	259340.8	27.52371	1019.405	510.4434
#1	430.3092	13.96978	112.5700	260124.6	28.14618	1023.156	512.2957
#2	428.3120	14.30726	111.1917	258557.0	26.90123	1015.653	508.5912
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	93.41278	466.5195	14.01164	.7223005	108.2726	-2.80397	562.2969
#1	93.84981	469.4399	14.08095	1.008778	205.3732	.0565720	565.9155
#2	92.97575	463.5991	13.94234	.4358233	11.17196	-5.66451	558.6783
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	134.0281	-1.58768	3.568433	6.949236	45.30014	12175.46	22.11697
#1	134.9862	-1.26116	4.261150	4.600466	45.47445	12251.86	19.78801
#2	133.0700	-1.91420	2.875715	9.298006	45.12583	12099.05	24.44593
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	30.22667	2.498895	19.76759	-9.97028	139.5002	637.9324
#1	32.32488	2.803062	19.71946	-10.5862	147.9151	643.8571
#2	28.12845	2.194728	19.81571	-9.35434	131.0854	632.0076
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-023-023-1/1 Operator: LCM
Run Time: 10/16/07 21:17:19
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	16132.64	-.475147	8.762897	23.01272	.7394621	2.009751	122.5432
#1	16145.26	.7061634	10.64588	23.02807	.8013254	2.010672	123.5343
#2	16120.03	-1.65646	6.879908	22.99737	.6775988	2.008831	121.5521
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	421.3432	23.86583	102.4949	247358.8	13.06042	1593.433	529.1023
#1	422.7188	24.05458	102.8400	247890.6	13.57525	1598.191	530.3130
#2	419.9675	23.67708	102.1498	246827.0	12.54558	1588.674	527.8916
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	85.64630	231.5390	11.11782	.7577837	112.3361	-2.50589	726.3261
#1	85.46896	236.8666	12.35990	.9857865	202.8518	-2.36912	727.5971
#2	85.82365	226.2113	9.875747	.5297809	21.82044	-2.64265	725.0549
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	149.8143	-3.38829	4.226674	9.804886	16.39215	16258.37	11.35359
#1	149.9359	-3.03923	5.026306	11.52365	16.38171	16293.27	11.98002
#2	149.6928	-3.73734	3.427043	8.086121	16.40260	16223.47	10.72716
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	13.91348	2.893277	15.22975	-8.82478	96.62744	705.3821
#1	14.37252	1.920728	17.57914	-7.14359	100.0617	707.4838
#2	13.45443	3.865826	12.88036	-10.5060	93.19319	703.2803
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-024-024-1/1 Operator: LCM
Run Time: 10/16/07 21:26:35
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24150.97	-.144045	10.72306	45.89990	.8140925	2.814533	433.5797
#1	24164.06	-.056346	11.53387	45.94975	.8468417	2.434904	430.2971
#2	24137.88	-.231744	9.912247	45.85004	.7813432	3.194162	436.8621
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	440.9094	19.62895	105.2287	264500.8	23.06035	1397.536	599.7017
#1	442.0685	19.82258	106.2065	265169.0	22.84511	1401.250	600.6885
#2	439.7503	19.43532	104.2509	263832.7	23.27560	1393.822	598.7149
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	84.01650	384.5678	12.45431	.7863142	212.4148	-6.29843	663.0092
#1	84.43456	390.5423	14.19682	1.136057	286.5663	-5.43303	665.9437
#2	83.59844	378.5933	10.71180	.4365714	138.2634	-7.16383	660.0746
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	157.2435	-2.12182	4.009400	7.435557	40.16900	13909.82	19.62361
#1	157.9656	-2.08905	4.202608	8.959171	40.31132	13991.06	22.26420
#2	156.5214	-2.15459	3.816192	5.911943	40.02668	13828.59	16.98301
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	24.77825	.8196375	18.27112	-9.16821	97.63879	534.9305
#1	23.13513	5.949875	18.31976	-6.67133	110.7077	539.2686
#2	26.42137	-4.31060	18.22247	-11.6651	84.56991	530.5925
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-025-025-1/1 Operator: LCM
Run Time: 10/16/07 21:36:10
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	34990.46	-1.21014	11.37700	28.79927	.9963958	3.164368	478.4112
#1	34977.43	-1.64705	10.60291	28.79044	1.028902	3.086023	479.8582
#2	35003.49	-.773226	12.15110	28.80811	.9638891	3.242712	476.9643
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	504.5237	13.16662	97.40480	281204.9	24.93302	996.9443	579.4633
#1	504.8633	13.35327	97.75800	281243.2	25.39377	996.3862	579.5123
#2	504.1841	12.97996	97.05160	281166.7	24.47227	997.5025	579.4143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	80.16305	568.7991	14.97405	1.018116	78.81742	-6.69857	566.7261
#1	79.78907	571.2095	13.88073	.7696965	148.3011	-6.45706	567.0131
#2	80.53702	566.3887	16.06737	1.266536	9.333713	-6.94009	566.4390
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	142.3133	-1.04094	3.253460	7.156676	32.65843	10995.00	20.58364
#1	142.0732	-.212931	3.124586	6.746582	32.64413	11003.59	21.11140
#2	142.5533	-1.86896	3.382333	7.566771	32.67274	10986.41	20.05587
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	27.10729	1.601346	21.65992	-8.99224	127.3217	447.2256
#1	27.53444	-3.10940	22.37527	-7.20572	108.2196	446.6115
#2	26.68013	6.312091	20.94457	-10.7788	146.4238	447.8396
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-026-026-1/1 Operator: LCM
Run Time: 10/16/07 21:45:26
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	35892.12	-.989296	9.437792	33.81296	.9314349	2.338162	342.4496
#1	35921.61	-.817672	8.760154	33.85932	.8955240	2.440330	344.4026
#2	35862.63	-1.16092	10.11543	33.76660	.9673458	2.235992	340.4966
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	508.2062	19.24132	116.8619	257366.4	23.60997	1320.171	686.6627
#1	506.7806	19.33611	116.9498	257105.7	23.07727	1317.365	686.1978
#2	509.6318	19.14653	116.7741	257627.1	24.14267	1322.977	687.1277
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	94.06952	606.2671	11.50958	.8073602	98.93285	-3.17703	600.4981
#1	93.67649	606.4617	9.834602	1.041769	-11.4810	-3.75871	599.1548
#2	94.46255	606.0725	13.18457	.5729510	209.3467	-2.59536	601.8413
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	176.0481	-1.77585	3.100546	7.622109	29.87056	12083.72	20.07992
#1	175.8222	-1.75559	3.719203	7.995113	29.88586	12071.10	20.86669
#2	176.2740	-1.79611	2.481888	7.249105	29.85527	12096.33	19.29315
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	25.37448	2.622125	15.95297	-9.40803	114.8124	533.7852
#1	24.18222	-.313152	14.90813	-12.4071	112.3256	532.3776
#2	26.56675	5.557402	16.99780	-6.40895	117.2992	535.1928
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-027-027-1/1 Operator: LCM
Run Time: 10/16/07 21:54:42
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	19007.75	.2138658	5.101200	36.89437	.7100086	2.008395	305.5909
#1	19028.28	.3501911	4.636392	36.89656	.8122885	2.056070	307.0255
#2	18987.23	.0775404	5.566008	36.89217	.6077287	1.960720	304.1564
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	477.5342	25.96976	121.3344	221477.3	17.09590	1678.056	853.6751
#1	478.2134	25.83217	120.6683	221550.9	16.87328	1678.981	853.9166
#2	476.8551	26.10735	122.0006	221403.7	17.31851	1677.132	853.4336
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	95.05075	454.8167	10.71073	.6486924	179.2713	-3.99645	638.2711
#1	95.31473	461.4373	13.04656	1.121177	218.9139	-4.33787	638.4834
#2	94.78676	448.1961	8.374903	.1762077	139.6288	-3.65503	638.0589
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	197.2507	-3.35298	3.434375	7.393052	27.58432	13259.93	14.88620
#1	197.9001	-2.98741	3.993669	7.363882	27.67210	13254.84	16.11898
#2	196.6013	-3.71855	2.875080	7.422222	27.49654	13265.03	13.65341
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	18.20028	3.912176	14.10958	-10.7845	73.40942	510.1631
#1	17.25001	7.570906	15.78397	-7.82481	66.53758	511.2502
#2	19.15055	.2534456	12.43520	-13.7442	80.28127	509.0761
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-028-028-1/1 Operator: LCM
Run Time: 10/16/07 22:04:07
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	29333.67	-.465983	9.796780	43.66037	.7005869	3.368383	983.8049
#1	29281.05	-.061229	10.80315	43.62266	.7368395	3.411005	981.5555
#2	29386.30	-.870738	8.790412	43.69808	.6643342	3.325760	986.0543
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	457.8456	11.92846	88.28415	285554.3	24.42920	971.7036	511.7847
#1	457.2343	11.83306	88.13577	285324.0	24.11225	969.9328	511.1802
#2	458.4568	12.02386	88.43253	285784.6	24.74615	973.4744	512.3891
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	62.78140	667.5300	12.42303	1.201457	161.0805	-5.65645	639.6733
#1	62.82153	669.2504	10.66116	1.378825	275.6066	-5.94759	638.3066
#2	62.74128	665.8096	14.18491	1.024089	46.55436	-5.36531	641.0400
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	134.1010	-1.24791	4.280347	7.004679	45.09834	12572.35	21.69126
#1	133.8386	-.387411	4.230999	5.173313	45.09078	12542.31	20.75883
#2	134.3634	-2.10842	4.329696	8.836044	45.10590	12602.39	22.62368
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	25.79774	6.906968	15.18055	-7.35822	134.3910	524.5927
#1	25.78861	3.687767	14.14734	-7.99791	123.5153	520.4651
#2	25.80687	10.12617	16.21376	-6.71852	145.2667	528.7203
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-029-029-1/1 Operator: LCM
Run Time: 10/16/07 22:13:36
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	45173.75	1.549789	5.507633	146.2969	.7142717	3.137036	1833.112
#1	45188.90	2.968655	4.998020	146.5012	.7457649	3.213673	1833.236
#2	45158.60	.1309223	6.017246	146.0925	.6827785	3.060400	1832.987
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	306.5125	31.49929	130.3270	178608.2	63.43098	3816.413	1622.530
#1	306.5878	31.54122	130.0091	178591.7	62.44505	3820.202	1623.058
#2	306.4371	31.45736	130.6449	178624.6	64.41690	3812.624	1622.003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	134.4867	842.9882	7.835599	1.520724	209.6662	-5.10032	461.7598
#1	135.1866	844.1940	6.696099	1.626844	187.0871	-3.21685	462.6330
#2	133.7867	841.7823	8.975099	1.414604	232.2454	-6.98380	460.8867
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	193.8403	-1.69430	2.332168	10.31184	35.87561	13304.42	60.73020
#1	194.5173	-1.63284	1.907577	8.273411	35.92099	13317.35	59.01446
#2	193.1633	-1.75576	2.756758	12.35027	35.83024	13291.50	62.44594
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	64.78102	3.568710	9.968616	-5.06720	185.2904	597.6808
#1	64.16000	.8355188	9.625961	-4.34794	174.0740	596.2768
#2	65.40205	6.301901	10.31127	-5.78645	196.5068	599.0847
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-030-030-1/1 Operator: LCM
Run Time: 10/16/07 22:23:11
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	40868.09	2.427054	9.854994	255.0197	1.033259	3.281660	3107.148
#1	41050.44	2.791393	9.410512	256.1610	.9475656	3.367559	3115.505
#2	40685.73	2.062715	10.29948	253.8784	1.118952	3.195761	3098.790
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	312.2176	50.19477	160.8392	201029.3	69.40315	3812.816	4725.836
#1	313.3421	50.48704	161.5343	201749.3	67.82055	3824.882	4742.230
#2	311.0931	49.90250	160.1441	200309.4	70.98576	3800.750	4709.443
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	141.0648	1344.329	6.347616	2.154901	254.2859	-5.45896	530.3966
#1	140.4566	1351.066	5.983414	1.824924	236.5753	-7.05082	531.1019
#2	141.6730	1337.591	6.711818	2.484878	271.9964	-3.86710	529.6913
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	319.4463	-.211886	3.187906	4.830517	56.33474	14234.51	66.25492
#1	319.5172	.3856428	3.695076	6.593870	56.54412	14260.05	66.34731
#2	319.3756	-.809414	2.680737	3.067163	56.12536	14208.98	66.16254
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	70.97676	-2.51468	10.77825	-9.56765	153.7977	532.9072
#1	68.55667	-6.89036	12.41978	-8.03323	149.2980	533.9626
#2	73.39686	1.860989	9.136726	-11.1021	158.2975	531.8519
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/16/07 22:35:39
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51288.10	505.8346	507.8111	510.9022	49.36447	487.6454	96844.41
#1	51537.73	506.0548	511.8422	514.1940	49.28928	488.7131	96983.46
#2	51038.47	505.6144	503.7799	507.6105	49.43966	486.5778	96705.36
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	490.6451	489.1453	509.5356	48509.30	496.4395	98114.38	494.4434
#1	491.2019	490.2824	510.9705	48648.11	495.5064	98357.21	495.5924
#2	490.0883	488.0083	508.1007	48370.49	497.3727	97871.53	493.2943
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	486.4460	Q81953.58	512.2527	516.5862	100382.3	504.7419	498.5776
#1	487.2050	Q82358.44	513.0905	517.3063	100516.6	504.9712	498.8178
#2	485.6871	Q81548.72	511.4149	515.8661	100248.0	504.5126	498.3374
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	485.1176	505.9572	498.8100	504.7925	509.6478	498.8012	491.0570
#1	485.5417	507.3371	498.7595	508.0658	513.1352	499.3752	491.2924
#2	484.6935	504.5772	498.8605	501.5193	506.1603	498.2271	490.8215
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	499.1304	515.4242	510.6666	500.9246	529.2139	524.5231
#1	497.6129	513.9664	512.6523	498.9928	519.6378	525.8168
#2	500.6478	516.8820	508.6810	502.8564	538.7900	523.2294
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/16/07 22:44:55
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	21.54667	1.447801	.5734454	.3557641	.0771629	.4517627	57.82584
#1	38.18702	1.758096	-.914635	.5049446	.0906759	.6199602	86.19270
#2	4.906325	1.137507	2.061526	.2065836	.0636499	.2835653	29.45897
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	.2337602	.5208824	.6706529	37.07948	-.460393	59.43053	.3536966
#1	.3557085	1.057489	.7064460	48.32193	-.268974	93.57644	.4935904
#2	.1118119	-.015724	.6348597	25.83703	-.651812	25.28463	.2138029
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.579861	59.31690	1.580396	.3708993	96.77603	3.408044	.4968125
#1	1.528685	95.27384	.2812737	.3655862	180.3072	4.228841	.6576341
#2	1.631038	23.35995	2.879517	.3762123	13.24490	2.587248	.3359909
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.60472	.6974115	1.550500	-.399451	.2900321	.7004889	-1.71699
#1	-1.78628	1.300530	2.020983	.8172892	.4513142	.9059443	-.412385
#2	-1.42315	.0942930	1.080016	-1.61619	.1287500	.4950336	-3.02160
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.1673997	-1.17015	2.955204	3.412504	-16.2130	2.760399
#1	-.197773	-1.53632	1.189649	4.502451	-14.4474	1.348241
#2	.5325728	-.803988	4.720759	2.322557	-17.9785	4.172557
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACE1 Sample Name: S 710048-031-031-1/1 Operator: LCM
Run Time: 10/16/07 22:54:12
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	59770.23	-1.00194	5.419456	377.8008	1.264258	14.73259	2141.936
#1	60107.23	-.395919	6.335066	380.1537	1.208121	14.61683	2154.928
#2	59433.24	-1.60797	4.503846	375.4481	1.320396	14.84835	2128.943
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	251.1391	51.62463	293.2110	139401.9	45.18803	5619.322	4400.812
#1	253.4103	52.40120	293.7451	140329.8	46.18662	5653.385	4429.162
#2	248.8680	50.84807	292.6770	138474.1	44.18944	5585.260	4372.463
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	215.0929	1291.954	4.638755	1.241391	291.4007	-2.96468	355.4742
#1	215.9570	1300.147	4.126141	1.042405	308.5360	-1.39256	356.7998
#2	214.2287	1283.761	5.151369	1.440377	274.2654	-4.53679	354.1486
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	464.8977	.5360518	1.294107	7.008048	41.30203	9125.927	39.44554
#1	465.2319	1.830893	1.029743	6.960280	41.57423	9146.277	37.41350
#2	464.5635	-.758789	1.558471	7.055816	41.02982	9105.576	41.47759
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	48.05887	-1.78359	7.849522	-4.45555	82.47234	571.4968
#1	50.57275	-5.69905	9.038307	-2.87990	85.06087	575.5901
#2	45.54499	2.131874	6.660736	-6.03120	79.88379	567.4034
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-032-032-1/1 Operator: LCM
Run Time: 10/16/07 23:03:27
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	62086.82	-1.39458	1.580618	186.6821	.6381096	1.889862	940.1669
#1	62615.60	-1.49265	1.097520	188.1880	.6114752	2.171143	948.4239
#2	61558.04	-1.29650	2.063715	185.1762	.6647440	1.608582	931.9099
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	276.2385	16.86097	77.08528	147082.6	10.41067	2659.415	635.3296
#1	278.5486	16.96651	78.13093	148207.0	11.27629	2681.579	640.1790
#2	273.9285	16.75544	76.03964	145958.1	9.545054	2637.252	630.4802
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	138.6329	533.6132	8.840355	.8565738	182.7478	-.863874	353.1043
#1	139.3121	538.7263	10.38309	1.003862	162.2895	-1.84272	356.3346
#2	137.9537	528.5000	7.297624	.7092853	203.2062	.1149712	349.8741
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	115.2945	-2.33540	1.172525	4.902936	35.90597	10303.74	5.527159
#1	116.3925	-2.04568	1.090736	6.235014	36.17095	10413.20	5.692005
#2	114.1966	-2.62511	1.254314	3.570858	35.64100	10194.29	5.362312
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	12.85200	.8623881	12.82893	-9.72437	226.1471	609.6324
#1	14.06800	.6986904	15.22485	-9.69946	249.7983	616.0179
#2	11.63600	1.026086	10.43301	-9.74928	202.4958	603.2469
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-033-033-1/1 Operator: LCM
Run Time: 10/16/07 23:13:03
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50593.44	-.627580	6.764220	355.6910	1.022183	2.549953	2111.097
#1	50203.89	-1.87381	5.184607	352.7206	1.103886	2.415093	2081.192
#2	50982.98	.6186485	8.343834	358.6615	.9404798	2.684814	2141.001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	302.3609	58.93113	153.1487	186816.8	21.56444	3987.021	6464.070
#1	298.3284	57.54956	152.4774	184731.2	22.02208	3940.934	6392.183
#2	306.3934	60.31271	153.8199	188902.5	21.10679	4033.109	6535.957
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	173.7977	1460.764	7.510277	.8606465	204.6397	-2.60793	503.0363
#1	171.2726	1451.784	7.313726	.8104923	200.0451	-4.21648	500.9178
#2	176.3229	1469.745	7.706828	.9108006	209.2342	-.999374	505.1549
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	300.3911	-.987896	2.425570	5.202048	42.83217	13298.40	15.03555
#1	296.2061	-1.46318	2.176596	4.058615	42.45758	13237.76	13.94106
#2	304.5761	-.512610	2.674543	6.345482	43.20676	13359.05	16.13004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	24.82841	-1.37072	11.95036	-14.7980	132.5601	577.4433
#1	26.06217	-6.75307	14.34682	-17.7234	112.9526	573.0637
#2	23.59465	4.011641	9.553902	-11.8725	152.1677	581.8229
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: S 710048-034-034-1/1 Operator: LCM
Run Time: 10/16/07 23:22:19
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	59274.69	.5550089	10.55374	495.0374	1.528731	8.246645	2059.905
#1	59137.66	-.845677	11.73300	494.7003	1.572465	7.982056	2054.481
#2	59411.72	1.955695	9.374487	495.3746	1.484997	8.511234	2065.330
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	525000.0	5250.000	2100.000	10500.00	525.0000	2100.000	525000.0
Low	-200.000	-20.0000	-20.0000	-5.00000	-2.00000	-6.00000	-1000.00

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	277.5389	61.86023	186.1500	157962.7	22.21078	5788.257	5327.744
#1	277.1795	61.84914	186.8833	157689.1	22.39560	5781.185	5316.344
#2	277.8982	61.87131	185.4168	158236.3	22.02596	5795.330	5339.145
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	210.6939	1194.684	7.204855	.7192939	280.5233	-1.14316	405.6984
#1	210.4276	1197.095	7.258887	.5760342	306.7176	-3.35337	406.3998
#2	210.9603	1192.272	7.150822	.8625537	254.3290	1.067051	404.9970
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	362.3804	-.916293	1.342521	5.952017	44.67133	10396.46	15.62150
#1	363.0351	-1.14047	1.620035	8.182431	44.60222	10416.36	14.73389
#2	361.7257	-.692117	1.065008	3.721602	44.74045	10376.56	16.50911
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	25.50500	1.364757	10.12448	-7.00184	176.5691	544.6287
#1	26.22612	-1.31580	11.54581	-5.73573	188.2153	544.5950
#2	24.78388	4.045311	8.703159	-8.26796	164.9228	544.6625
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACE1 Sample Name: IAICSAI Operator: LCM
Run Time: 10/16/07 23:37:42
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	488683.8	-1.62926	1.429799	.9307367	.5377431	Q5.347439	487936.9
#1	487178.8	-1.36691	2.059305	.9002988	.5854577	Q5.332584	486405.5
#2	490188.7	-1.89160	.8002944	.9611747	.4900285	Q5.362293	489468.4
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.674565	2.469379	1.922582	186609.9	Q5.895282	484520.4	Q11.73818
#1	2.022020	2.292210	1.788588	185943.2	Q5.655489	482520.9	Q11.75375
#2	1.327110	Q2.646548	2.056575	187276.6	Q6.135075	486519.8	Q11.72260
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail
Value	.0000000	.0000000	.0000000	200000.0	.0000000	500000.0	.0000000
Range	2.500000	2.500000	5.000000	40000.00	5.000000	100000.0	2.500000

Elem	NI	K	SE	AG	NA	TL	V
Avge	3.908541	-7.52019	6.052512	.2608638	53.72827	-7.32828	1.172789
#1	4.036030	-6.72333	3.365496	.3542460	3.208451	-9.11329	1.414218
#2	3.781052	-8.31704	8.739528	.1674815	104.2481	-5.54327	.9313604
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q22.53397	2.371661	-.555110	-.449744	Q4.254359	2.078719	-17.0716
#1	Q22.36433	3.147460	-.249188	2.962046	Q4.247452	2.261598	-17.9805
#2	Q22.70361	1.595862	-.861032	-3.86153	Q4.261267	1.895839	-16.1626
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	7.500000	2.500000	12.50000	2.500000	12.50000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	17.37822	9.207626	4.474640	-20.1199	26.20465	Q35.94289
#1	17.47295	5.088016	2.503922	-15.3997	3.327352	Q34.93266
#2	17.28349	13.32724	6.445358	-24.8401	49.08195	Q36.95311

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACE1 Sample Name: IBICSABI Operator: LCM
Run Time: 10/16/07 23:46:58
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	479601.7	599.6353	97.24285	511.2461	465.5233	902.6859	473812.9
#1	478821.9	598.4949	98.52337	510.4490	465.9625	902.0809	473304.4
#2	480381.5	600.7757	95.96233	512.0433	465.0842	903.2909	474321.3
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	600.0000	100.0000	500.0000	500.0000	1000.000	500000.0
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	461.6091	453.2216	518.9031	183081.0	50.66607	473952.6	480.1723
#1	461.3806	452.9826	519.3603	182915.6	51.45892	473641.5	479.9312
#2	461.8376	453.4606	518.4458	183246.4	49.87322	474263.7	480.4135
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	200000.0	50.00000	500000.0	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	901.3126	5481.945	52.63202	207.3987	10477.91	91.79723	476.7584
#1	899.5021	5453.565	54.08345	207.8048	10482.29	93.26993	476.5344
#2	903.1231	5510.325	51.18058	206.9927	10473.53	90.32452	476.9824
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1000.000	5000.000	50.00000	200.0000	10000.00	100.0000	500.0000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	900.7992	991.8802	957.0891	973.5864	503.6339	947.1724	33.33025
#1	899.5752	991.2035	954.8309	969.6880	501.8697	948.0563	35.06180
#2	902.0232	992.5569	959.3472	977.4849	505.3980	946.2885	31.59871
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	1000.000	1000.000	1000.000	1000.000	500.0000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	59.33352	56.19414	50.85056	168.3108	Q179.4609	Q1317.455
#1	59.65703	55.59440	53.32754	168.7222	Q159.8232	Q1314.121
#2	59.01001	56.79388	48.37359	167.8994	Q199.0987	Q1320.790
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Fail	QC Fail
Value				200.0000	400.0000	1000.000
Range				20.00000	20.00000	20.00000

Method: TRACE1 Sample Name: CVCCV4 Operator: LCM
Run Time: 10/16/07 23:56:14
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51668.96	509.7294	511.6196	514.1124	49.76160	491.7672	96514.04
#1	51578.83	506.0494	507.2763	513.2261	49.86861	488.8688	95875.42
#2	51759.09	513.4094	515.9628	514.9987	49.65459	494.6656	97152.66
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50000.00	500.0000	500.0000	500.0000	50.00000	500.0000	100000.0
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	492.3380	493.3687	511.7799	49007.68	499.7262	98213.48	497.7634
#1	489.0136	491.2790	512.1207	48734.51	496.9973	97653.27	495.0538
#2	495.6624	495.4583	511.4391	49280.85	502.4551	98773.70	500.4730
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	500.0000	500.0000	50000.00	500.0000	100000.0	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	492.5152	Q82010.50	514.2916	517.5538	100933.3	512.3976	502.2483
#1	490.5852	Q81970.17	513.1436	514.1317	100695.4	508.9499	502.5941
#2	494.4452	Q82050.84	515.4398	520.9760	101171.2	515.8455	501.9025
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	488.3519	509.7724	506.1935	508.8059	510.7886	501.4581	492.0088
#1	485.8402	507.5606	503.8965	504.9479	509.9275	501.4869	491.5937
#2	490.8637	511.9842	508.4905	512.6639	511.6496	501.4294	492.4239
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	503.5845	514.2228	514.3256	500.8137	503.9979	530.6667
#1	499.6987	518.2186	510.6054	496.6325	510.5649	528.3761
#2	507.4703	510.2271	518.0457	504.9950	497.4309	532.9574
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACE1 Sample Name: BCCCB4 Operator: LCM
Run Time: 10/17/07 00:05:31
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	26.93284	-.912086	-1.89876	.2811297	.0960966	.3126820	38.58143
#1	38.75003	-.531592	-3.89134	.3493673	.1435131	.2468285	49.37617
#2	15.11565	-1.29258	.0938181	.2128922	.0486801	.3785354	27.78669
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	200.0000	20.00000	20.00000	5.000000	2.000000	3.000000	1000.000

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	-.423179	.0182621	.2243009	23.76087	.0228154	54.12323	.1705545
#1	-.202295	.2174771	.1628600	23.69494	.2907238	69.72224	.2078010
#2	-.644063	-.180953	.2857418	23.82679	-.245093	38.52423	.1333080
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	5.000000	10.00000	100.0000	3.000000	250.0000	5.000000

Elem	NI	K	SE	AG	NA	TL	V
Avge	1.107883	30.70558	1.041345	.5745034	-22.5333	3.753472	.6502659
#1	1.567335	40.11699	-.115170	.5071166	-99.0433	3.304315	.5219258
#2	.6484299	21.29416	2.197860	.6418901	53.97668	4.202629	.7786061
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	10.00000	250.0000	5.000000	5.000000	2500.000	30.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	-1.44522	.3818078	1.472839	.7431217	.2194335	.3688102	-.758492
#1	-1.39188	.7186481	1.954280	-.703236	.2741867	.4631689	-1.83550
#2	-1.49856	.0449675	.9913989	2.189480	.1646804	.2744515	.3185156
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	20.00000	15.00000	5.000000	25.00000	5.000000	25.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	.4129673	.9641869	1.079506	-.564707	-16.5309	1.829086
#1	1.353334	-2.88513	1.269471	-.583201	-18.9812	1.915808
#2	-.527399	4.813499	.8895408	-.546212	-14.0806	1.742363
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Metals Preparation & Sample Description Log

Date: 10-10-07 Prep: 200.7 / 3005A / 3020A (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198185

Analyst: MH Comments: HotD BLOCK DIGESTION(Soil)

Reviewed by: RA Date: 10-15-07 Spike Witness: Pep. Seq: 100882

	GPL Work Order No.	Sample	Frac	Size mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	185		1.00	100	S				Clear	
2	BKS	185		1.00							
3	710048	001	-001-↑	1.11		Soil	Brown	Yellow	Mud		
4	↓	MS	↓	1.17			↓	↓	↓	↓	↓
5		MSD		1.20							
6		002	-002-↑	1.12							
7		003	-003-↑	1.25							
8		004	-004-↑	1.22							
9		005	-005-↑	1.17							
10		006	-006-↑	1.13							
11		007	-007-↑	1.14							
12		008	-008-↑	1.11							
13		009	-009-↑	1.17							
14		010	-010-↑	1.16							
15		011	-011-↑	1.22							
16		012	-012-↑	1.27							
17		013	-013-↑	1.12							
18		014	-014-↑	1.26							
19		015	-015-↑	1.13							
20		016	-016-↑	1.24							
21		017	-017-↑	1.24							
22		018	-018-↑	1.12							
23		019	-019-↑	1.17							
24	↓	020	-020-↑	1.25	↓	↓	↓	↓	↓	↓	↓

LCS ID/ Amt. Added (ml,g): 0.2 ml / 40827, 40828, 40829	HNO3(1+1) ID: GP-057, 157-10
Spiking ID / Amt. Added (ml): 0.2 ml / 40827, 40828, 40829	HNO3(conc) ID: GP-129-11-08
	HCl(conc) ID: GP-129-11-07
Temperature C: 9 | 14	HCl(1+1) ID: -
	Peroxide ID: GP-129-10-17

Metals Preparation & Sample Description Log

Date: 10-10-2007 Prep: 200.7 / 3005A / 3020A / (3050B) 3010A / ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198 -186

Analyst: D.S.S. Comments: MoD BLOCK DIGESTION (SOIL)

Reviewed by: RA Date: 10-18-07 Spike Witness: MM Pep. Seq: 100880 9/32

GPL Work Order No.	Sample	Frac	Size mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1 BLK	186		1.00	100	S				Clear	—
2 BKS	186		1.00							—
3 710048	021	021-1/4	1.17		SOIL	Brown	Yellow	Medium		—
4	MS		1.19							
5	MSD	↓	1.21							
6	022	022-1/4	1.19							
7	023	023-1/4	1.21							
8	024	024-1/4	1.20							
9	025	025-1/4	1.15							
10	026	026-1/4	1.15							
11	027	027-1/4	1.16							
12	028	028-1/4	1.15							
13	029	029-1/4	1.21							
14	030	030-1/4	1.25							
15	031	031-1/4	1.15							
16	032	032-1/4	1.19							
17	033	033-1/4	1.24							
18 ↓	034	034-1/4	1.25	↓	↓	↓	↓	↓	↓	↓
19										
20										
21										
22										
23										
24										

D.S.S. - 10-10-2007

LCS ID/ Amt. Added (ml,g): 0.2ml (40827, 40828, 40829) HNO3(1+1) ID: GP-057-157-10

Spiking ID / Amt. Added (ml): 0.2ml (40827, 40828, 40829) HNO3(conc) ID: GP-129-11-08

10 ml 1:1 HNO_3, 10 ml HNO_3 conc, 7 ml H_2O_2, 10 ml HCl conc HCl(conc) ID: GP-129-11-07

Temperature C: 95°C HCl(1+1) ID: —

Peroxide ID: GP-129-10-12