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

November 14, 2007

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

Dear Mr. Miller:

On September 10, 2007, 44 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 7854_7857. 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: 7854_7857

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2073-ST	OH207-7854-01
SB-CZ-SS-2074-ST	OH207-7854-02
SB-CZ-SS-2075-ST	OH207-7854-03
SB-CZ-SS-2076-ST	OH207-7854-04
SB-CZ-SS-2077-ST	OH207-7854-05
SB-CZ-SS-2078-ST	OH207-7854-06
SB-CZ-SS-2079-ST	OH207-7854-07
SB-CZ-SS-2080-ST	OH207-7854-08
SB-CZ-SS-2081-ST	OH207-7854-09
SB-CZ-SS-2082-ST	OH207-7854-10
SB-CZ-SS-2083-ST	OH207-7854-11
SB-CZ-SS-2084-ST	OH207-7854-12
SB-CZ-SS-2085-ST	OH207-7854-13
SB-CZ-SS-2086-ST	OH207-7854-14
SB-CZ-SS-2087-ST	OH207-7854-15
SB-CZ-SS-2088-ST	OH207-7854-16
SB-CZ-SS-2089-ST	OH207-7854-17
SB-CZ-SS-2090-ST	OH207-7854-18
SB-CZ-SS-2091-ST	OH207-7854-19
SB-CZ-SS-2092-ST	OH207-7854-20
Preparation Blank (PB)	SCAQC-7854-PB1
Laboratory Control (LC)	SCAQC-7854-LC1
Laboratory Duplicate (LD)	SCAQC-7854-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: 7854_7857

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2093-ST	OH207-7855-01
SB-CZ-SS-2094-ST	OH207-7855-02
Preparation Blank (PB)	SCAQC-7855-PB1
Laboratory Control (LC)	SCAQC-7855-LC1
Laboratory Duplicate (LD)	SCAQC-7855-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: 7854_7857

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2073-SD	OH207-7856-01
SB-CZ-SS-2074-SD	OH207-7856-02
SB-CZ-SS-2075-SD	OH207-7856-03
SB-CZ-SS-2076-SD	OH207-7856-04
SB-CZ-SS-2077-SD	OH207-7856-05
SB-CZ-SS-2078-SD	OH207-7856-06
SB-CZ-SS-2079-SD	OH207-7856-07
SB-CZ-SS-2080-SD	OH207-7856-08
SB-CZ-SS-2081-SD	OH207-7856-09
SB-CZ-SS-2082-SD	OH207-7856-10
SB-CZ-SS-2083-SD	OH207-7856-11
SB-CZ-SS-2084-SD	OH207-7856-12
SB-CZ-SS-2085-SD	OH207-7856-13
SB-CZ-SS-2086-SD	OH207-7856-14
SB-CZ-SS-2087-SD	OH207-7856-15
SB-CZ-SS-2088-SD	OH207-7856-16
SB-CZ-SS-2089-SD	OH207-7856-17
SB-CZ-SS-2090-SD	OH207-7856-18
SB-CZ-SS-2091-SD	OH207-7856-19
SB-CZ-SS-2092-SD	OH207-7856-20
Preparation Blank (PB)	SCAQC-7856-PB1
Laboratory Control (LC)	SCAQC-7856-LC1
Laboratory Duplicate (LD)	SCAQC-7856-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: 7854_7857

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2093-SD	OH207-7857-01
SB-CZ-SS-2094-SD	OH207-7857-02
Preparation Blank (PB)	SCAQC-7857-PB1
Laboratory Control (LC)	SCAQC-7857-LC1
Laboratory Duplicate (LD)	SCAQC-7857-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	Laboratory Director	11/14/2007
Name	Title	Date

COVER PAGE

Lab Name: GPL LABORATORIES, LLLP Contract:

Lab Code: Case No.: NRAS No.: SDG No.: 709141

SOW No.: SW6010C

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2073-SD	S 709141-023-023-1/1
SB-CZ-SS-2073-ST	S 709141-001-001-1/1
SB-CZ-SS-2073-ST MS	SP709141-001-001-1/1
SB-CZ-SS-2073-ST MSD	SD709141-001-001-1/1
SB-CZ-SS-2074-SD	S 709141-024-024-1/1
SB-CZ-SS-2074-ST	S 709141-002-002-1/1
SB-CZ-SS-2075-SD	S 709141-025-025-1/1
SB-CZ-SS-2075-ST	S 709141-003-003-1/1
SB-CZ-SS-2076-SD	S 709141-026-026-1/1
SB-CZ-SS-2076-ST	S 709141-004-004-1/1
SB-CZ-SS-2077-SD	S 709141-027-027-1/1
SB-CZ-SS-2077-ST	S 709141-005-005-1/1
SB-CZ-SS-2078-SD	S 709141-028-028-1/1
SB-CZ-SS-2078-ST	S 709141-006-006-1/1
SB-CZ-SS-2079-SD	S 709141-029-029-1/1
SB-CZ-SS-2079-ST	S 709141-007-007-1/1
SB-CZ-SS-2080-SD	S 709141-030-030-1/1
SB-CZ-SS-2080-ST	S 709141-008-008-1/1
SB-CZ-SS-2081-SD	S 709141-031-031-1/1
SB-CZ-SS-2081-ST	S 709141-009-009-1/1
SB-CZ-SS-2082-SD	S 709141-032-032-1/1
SB-CZ-SS-2082-ST	S 709141-010-010-1/1
SB-CZ-SS2083-SD	S 709141-033-033-1/1
SB-CZ-SS2083-SD MS	SP709141-033-033-1/1
SB-CZ-SS2083-SD MSD	SD709141-033-033-1/1
SB-CZ-SS-2083-ST	S 709141-011-011-1/1
SB-CZ-SS-2084-SD	S 709141-034-034-1/1
SB-CZ-SS-2084-ST	S 709141-012-012-1/1
SB-CZ-SS-2085-SD	S 709141-035-035-1/1
SB-CZ-SS-2085-ST	S 709141-013-013-1/1
SB-CZ-SS-2085-ST MS	SP709141-013-013-1/1
SB-CZ-SS-2085-ST MSD	SD709141-013-013-1/1
SB-CZ-SS-2086-SD	S 709141-036-036-1/1
SB-CZ-SS-2086-ST	S 709141-014-014-1/1
SB-CZ-SS-2087-SD	S 709141-037-037-1/1

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2087-ST	S 709141-015-015-1/1
SB-CZ-SS-2088-SD	S 709141-038-038-1/1
SB-CZ-SS-2088-ST	S 709141-016-016-1/1
SB-CZ-SS-2089-SD	S 709141-039-039-1/1
SB-CZ-SS-2089-ST	S 709141-017-017-1/1
SB-CZ-SS-2090-SD	S 709141-040-040-1/1
SB-CZ-SS-2090-ST	S 709141-018-018-1/1
SB-CZ-SS-2091-SD	S 709141-041-041-1/1
SB-CZ-SS-2091-ST	S 709141-019-019-1/1
SB-CZ-SS-2092-SD	S 709141-042-042-1/1
SB-CZ-SS-2092-ST	S 709141-020-020-1/1
SB-CZ-SS-2093-SD	S 709141-043-043-1/1
SB-CZ-SS-2093-ST	S 709141-021-021-1/1
SB-CZ-SS-2094-SD	S 709141-044-044-1/1
SB-CZ-SS-2094-ST	S 709141-022-022-1/1

		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 Tavares

Date: 10/5/2007 Title: Production Manager

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

WORK ASSIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080-03	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 17

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					04261	7954	Laboratory	Comments
1	8/27/2007		Soil	SB-CZ-SS-2073-ST	1		X						01		
2	8/28/2007		Soil	SB-CZ-SS-2074-ST	1		X						02		
3	8/27/2007		Soil	SB-CZ-SS-2075-ST	1		X						03		
4	8/27/2007		Soil	SB-CZ-SS-2076-ST	1		X						04		
5	8/27/2007		Soil	SB-CZ-SS-2077-ST	1		X						05		
6	8/27/2007		Soil	SB-CZ-SS-2078-ST	1		X						06		
7	8/27/2007		Soil	SB-CZ-SS-2079-ST	1		X						07		
8	8/27/2007		Soil	SB-CZ-SS-2080-ST	1		X						08		
9	8/27/2007		Soil	SB-CZ-SS-2081-ST	1		X						09		
10	8/27/2007		Soil	SB-CZ-SS-2082-ST	1		X						10		
11	8/27/2007		Soil	SB-CZ-SS-2083-ST	1		X						11		
12	8/28/2007		Soil	SB-CZ-SS-2084-ST	1		X						12		
13	8/28/2007		Soil	SB-CZ-SS-2085-ST	1		X						13		
14	8/28/2007		Soil	SB-CZ-SS-2086-ST	1		X						14		

Sampled by and Title Alfred Craig FSP	Date/Time 9-7-07	Relinquished by: Alfred Craig FSP	Date/Time	QC Level 1 2 3	
Received by:	Date/Time	Relinquished by:	Date/Time	COC	ICE
Received by: SC&A	Date/Time 9/7/07 9:00	Relinquished by:	Date/Time	ANA REQ	TEMP
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust Seal	pH
				Sample	

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

WORK ASSIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080-05 9/10/07	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 17

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					01H167	7854	Laboratory	Comments
1	8/28/2007		Soil	SB-CZ-SS-2087-ST	1		X						15		
2	8/28/2007		Soil	SB-CZ-SS-2088-ST	1		X						16		
3	8/28/2007		Soil	SB-CZ-SS-2089-ST	1		X						17		
4	8/28/2007		Soil	SB-CZ-SS-2090-ST	1		X						18		
5	8/28/2007		Soil	SB-CZ-SS-2091-ST	1		X						19		
6	8/28/2007		Soil	SB-CZ-SS-2092-ST	1		X						20		
7	8/28/2007		Soil	SB-CZ-SS-2093-ST	1		X					04201	7855-01		
8	8/28/2007		Soil	SB-CZ-SS-2094-ST	1		X						02		
9															
10															
11															
12															
13															
14															

Study I.D.

Pg_____ of

Sampled by and Title Alfred Craig FSP	Date/Time 9-7-07	Relinquished by: Alfred Craig FSP	Date/Time
Received by:	Date/Time	Relinquished by:	Date/Time
Received by: C. Owens-SC&A	Date/Time 9/10/07 900	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

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

WORK ASIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 17

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					DH201	7856	Laboratory	Comments
1	8/27/2007		Soil	SB-CZ-SS-2073-SD	1		X						01		
2	8/28/2007		Soil	SB-CZ-SS-2074-SD	1		X						02		
3	8/27/2007		Soil	SB-CZ-SS-2075-SD	1		X						03		
4	8/27/2007		Soil	SB-CZ-SS-2076-SD	1		X						04		
5	8/27/2007		Soil	SB-CZ-SS-2077-SD	1		X						05		
6	8/27/2007		Soil	SB-CZ-SS-2078-SD	1		X						06		
7	8/27/2007		Soil	SB-CZ-SS-2079-SD	1		X						07		
8	8/27/2007		Soil	SB-CZ-SS-2080-SD	1		X						08		
9	8/27/2007		Soil	SB-CZ-SS-2081-SD	1		X						09		
10	8/27/2007		Soil	SB-CZ-SS-2082-SD	1		X						10		
11	8/27/2007		Soil	SB-CZ-SS-2083-SD	1		X						11		
12	8/28/2007		Soil	SB-CZ-SS-2084-SD	1		X						12		
13	8/28/2007		Soil	SB-CZ-SS-2085-SD	1		X						13		
14	8/28/2007		Soil	SB-CZ-SS-2086-SD	1		X						14		

Sampled by and Title Alfred Craig FSP	Date/Time 9-7-07	Relinquished by: Alfred Craig FSP	Date/Time	QC Level 1 2 3
Received by:	Date/Time	Relinquished by:	Date/Time	COC / ICE
Received by: C. Owens SC&A	Date/Time 9/7/07 9:00	Relinquished by:	Date/Time	ANA REQ / TEMP
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust Seal / pH / Sample

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

WORK ASIGNMENT #	PROJECT NAME:	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080 ~~03~~ 04 ex 9/4/07	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 17

Laboratory Prefix

Study I.D.

Pg_____ of

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					04287	7856	Laboratory	Comments
1	8/28/2007		Soil	SB-CZ-SS-2087-SD	1		X						15		
2	8/28/2007		Soil	SB-CZ-SS-2088-SD	1		X						16		
3	8/28/2007		Soil	SB-CZ-SS-2089-SD	1		X						17		
4	8/28/2007		Soil	SB-CZ-SS-2090-SD	1		X						18		
5	8/28/2007		Soil	SB-CZ-SS-2091-SD	1		X						19		
6	8/28/2007		Soil	SB-CZ-SS-2092-SD	1		X						20		
7	8/28/2007		Soil	SB-CZ-SS-2093-SD	1		X					04287	7857-01		
8	8/28/2007		Soil	SB-CZ-SS-2094-SD	1		X						02		
9															
10															
11															
12															
13															
14															

Sampled by and Title Alfred Craig FSP	Date/Time 9-7-07	Relinquished by: Alfred Craig FSP	Date/Time	QC Level 1 2 3	
Received by:	Date/Time	Relinquished by:	Date/Time	COC	ICE
Received by: C. Owens SC&A	Date/Time 9/10/07 9:00	Relinquished by:	Date/Time	ANA REQ	TEMP
Remarks:		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust Seal	pH
				Sample	

7842 - 45 7854 - 57 7864 7866
7846 - 49 7858 - 59 7865
7850 - 53 7860 - 63 7898 Soil

SAMPLE RECEIPT CHECKLIST

Receipt Date/Time: 9/10/07 9:00 # of Boxes in Shipment: 8

Client: OH207

Visible Inspection:

8592 3952 0266
8625 3505 8081
8574 3314 4484
8625 3505 8070
8625 3505 8060
8574 3314 4495
8592 3952 0277
8625 3505 8092

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:

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

External Smear: ☑Yes ☐No Contamination: ☑Yes ☐No
Batch 7865 Samp wab contained show high α/β

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

Internal Smear: ☑Yes ☐No Contamination: ☑Yes ☐No
Batch 7865 had high α/β.

If Contamination, Date/Time RSO contacted: 9/10/07

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 containers didn't have collection times. Per Al Craig collection times are not required for Chain of Custody
Work Assignment was changed per Nicole Phillips on 9/10/07. CW

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: 7854_7857

NELAC Certification ID: NLC070001 (AL001)

November 14, 2007

I. Introduction

On September 10, 2007, 44 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 all samples except SB-CZ-SS-2077-ST, SB-CZ-SS-2083-ST, SB-CZ-SS-2088-ST, SB-CZ-SS-2083-SD, SB-CZ-SS-2088-SD 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-7854-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7854-LC1	Laboratory Control
SB-CS-SS-2073-ST	SCAQC-7854-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7855-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7855-LC1	Laboratory Control
SB-CZ-SS-2093-ST	SCAQC-7855-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-7856-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7856-LC1	Laboratory Control
SB-CZ-SS-2073-SD	SCAQC-7856-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7857-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7857-LC1	Laboratory Control
SB-CZ-SS-2093-SD	SCAQC-7857-LD1	Laboratory Duplicate

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100660	Preparation Blank
NA	BKS100660	Laboratory Control
SB-CZ-SS-2073-ST	SP709141-001-001-1/1	MS/MSD

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100650	Preparation Blank
NA	BKS100650	Laboratory Control
SB-CZ-SS-2085-ST	SP709141-013-013-1/1	MS/MSD

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100668	Preparation Blank
NA	BKS100668	Laboratory Control
SB-CZ-SS-2083-SD	SP709141-033-033-1/1	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

11/14/2007
Date

SAMPLE AND QC RESULTS SUMMARY

SC&A, Inc.
Southeastern Environmental Laboratory

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2073-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-01	10/18/07 12:57	2.79	0.374	0.466	0.174
DOE 4.5.2.3	CO-60	OH207-7854-01	10/18/07 12:57	0.002	0.014	0.014	0.019
DOE 4.5.2.3	RH-101	OH207-7854-01	10/18/07 12:57	-0.009	0.014	0.014	0.022
DOE 4.5.2.3	SB-125	OH207-7854-01	10/18/07 12:57	-0.021	0.032	0.032	0.053
DOE 4.5.2.3	CS-137	OH207-7854-01	10/18/07 12:57	0.087	0.027	0.028	0.022
DOE 4.5.2.3	EU-155	OH207-7854-01	10/18/07 12:57	0.082	0.049	0.050	0.087
DOE 4.5.2.3	TL-208	OH207-7854-01	10/18/07 12:57	0.258	0.040	0.047	0.023
DOE 4.5.2.3	PO-209	OH207-7854-01	10/18/07 12:57	-1.03	2.03	2.03	3.42
DOE 4.5.2.3	BI-211	OH207-7854-01	10/18/07 12:57	0.223	0.368	0.368	0.607
DOE 4.5.2.3	BI-212	OH207-7854-01	10/18/07 12:57	0.603	0.195	0.204	0.155
DOE 4.5.2.3	PB-212	OH207-7854-01	10/18/07 12:57	0.697	0.069	0.098	0.035
DOE 4.5.2.3	BI-214	OH207-7854-01	10/18/07 12:57	0.464	0.080	0.092	0.041
DOE 4.5.2.3	PB-214	OH207-7854-01	10/18/07 12:57	0.529	0.064	0.083	0.040
DOE 4.5.2.3	RA-223	OH207-7854-01	10/18/07 12:57	0.231	0.105	0.108	0.111
DOE 4.5.2.3	AC-228	OH207-7854-01	10/18/07 12:57	0.876	0.112	0.142	0.065
DOE 4.5.2.3	PA-233	OH207-7854-01	10/18/07 12:57	0.003	0.023	0.023	0.040
DOE 4.5.2.3	PA-234M	OH207-7854-01	10/18/07 12:57	-0.043	1.39	1.39	2.44
DOE 4.5.2.3	TH-234	OH207-7854-01	10/18/07 12:57	0.409	0.319	0.322	0.485
DOE 4.5.2.3	U-235	OH207-7854-01	10/18/07 12:57	-0.012	0.083	0.083	0.138
DOE 4.5.2.3	NP-236	OH207-7854-01	10/18/07 12:57	0.054	0.038	0.038	0.046
DOE 4.5.2.3	NP-237	OH207-7854-01	10/18/07 12:57	0.352	0.151	0.155	0.201
DOE 4.5.2.3	NP-239	OH207-7854-01	10/18/07 12:57	0.037	0.086	0.086	0.143
DOE 4.5.2.3	AM-241	OH207-7854-01	10/18/07 12:57	0.012	0.077	0.077	0.136
DOE 4.5.2.3	AM-243	OH207-7854-01	10/18/07 12:57	0.141	0.045	0.048	0.042
DOE 4.5.2.3	CM-243	OH207-7854-01	10/18/07 12:57	-0.056	0.051	0.052	0.073
DOE 4.5.2.3	AM-246	OH207-7854-01	10/18/07 12:57	0.003	0.039	0.039	0.069
DOE 4.5.2.3	CF-249	OH207-7854-01	10/18/07 12:57	-0.003	0.014	0.014	0.025

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2074-ST

Other Sample ID: Collection Date: 8/27/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7854 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	OH207-7854-02	10/18/07 08:32	3.05	0.383	0.490	0.155
DOE 4.5.2.3	CO-60	OH207-7854-02	10/18/07 08:32	-0.003	0.012	0.012	0.020
DOE 4.5.2.3	RH-101	OH207-7854-02	10/18/07 08:32	0.001	0.013	0.013	0.022
DOE 4.5.2.3	SB-125	OH207-7854-02	10/18/07 08:32	0.007	0.032	0.032	0.056
DOE 4.5.2.3	CS-137	OH207-7854-02	10/18/07 08:32	0.148	0.030	0.034	0.026
DOE 4.5.2.3	EU-155	OH207-7854-02	10/18/07 08:32	0.031	0.046	0.047	0.081
DOE 4.5.2.3	TL-208	OH207-7854-02	10/18/07 08:32	0.240	0.037	0.044	0.021
DOE 4.5.2.3	PO-209	OH207-7854-02	10/18/07 08:32	0.132	2.38	2.38	4.21
DOE 4.5.2.3	BI-211	OH207-7854-02	10/18/07 08:32	-0.305	0.324	0.326	0.528
DOE 4.5.2.3	BI-212	OH207-7854-02	10/18/07 08:32	0.459	0.144	0.151	0.155
DOE 4.5.2.3	PB-212	OH207-7854-02	10/18/07 08:32	0.577	0.059	0.082	0.036
DOE 4.5.2.3	BI-214	OH207-7854-02	10/18/07 08:32	0.638	0.089	0.110	0.039
DOE 4.5.2.3	PB-214	OH207-7854-02	10/18/07 08:32	0.614	0.080	0.101	0.039
DOE 4.5.2.3	RA-223	OH207-7854-02	10/18/07 08:32	0.248	0.103	0.106	0.107
DOE 4.5.2.3	AC-228	OH207-7854-02	10/18/07 08:32	0.647	0.107	0.125	0.085
DOE 4.5.2.3	PA-233	OH207-7854-02	10/18/07 08:32	-0.011	0.022	0.022	0.038
DOE 4.5.2.3	PA-234M	OH207-7854-02	10/18/07 08:32	1.45	1.37	1.38	2.62
DOE 4.5.2.3	TH-234	OH207-7854-02	10/18/07 08:32	0.814	0.336	0.346	0.467
DOE 4.5.2.3	U-235	OH207-7854-02	10/18/07 08:32	0.018	0.085	0.085	0.143
DOE 4.5.2.3	NP-236	OH207-7854-02	10/18/07 08:32	0.010	0.029	0.029	0.046
DOE 4.5.2.3	NP-237	OH207-7854-02	10/18/07 08:32	0.504	0.154	0.162	0.186
DOE 4.5.2.3	NP-239	OH207-7854-02	10/18/07 08:32	-0.002	0.086	0.086	0.140
DOE 4.5.2.3	AM-241	OH207-7854-02	10/18/07 08:32	-2.9e-04	0.074	0.074	0.129
DOE 4.5.2.3	AM-243	OH207-7854-02	10/18/07 08:32	0.118	0.040	0.042	0.042
DOE 4.5.2.3	CM-243	OH207-7854-02	10/18/07 08:32	-0.026	0.042	0.042	0.069
DOE 4.5.2.3	AM-246	OH207-7854-02	10/18/07 08:32	0.002	0.040	0.040	0.071
DOE 4.5.2.3	CF-249	OH207-7854-02	10/18/07 08:32	-9.6e-04	0.014	0.014	0.024

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2075-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-03	10/18/07 08:33	2.98	0.375	0.479	0.204
DOE 4.5.2.3	CO-60	OH207-7854-03	10/18/07 08:33	0.008	0.012	0.012	0.020
DOE 4.5.2.3	RH-101	OH207-7854-03	10/18/07 08:33	-0.004	0.014	0.014	0.022
DOE 4.5.2.3	SB-125	OH207-7854-03	10/18/07 08:33	-1.7e-05	0.036	0.036	0.062
DOE 4.5.2.3	CS-137	OH207-7854-03	10/18/07 08:33	0.221	0.041	0.046	0.024
DOE 4.5.2.3	EU-155	OH207-7854-03	10/18/07 08:33	0.034	0.049	0.049	0.083
DOE 4.5.2.3	TL-208	OH207-7854-03	10/18/07 08:33	0.230	0.040	0.046	0.022
DOE 4.5.2.3	PO-209	OH207-7854-03	10/18/07 08:33	-0.509	2.39	2.39	4.13
DOE 4.5.2.3	BI-211	OH207-7854-03	10/18/07 08:33	-0.471	0.383	0.386	0.600
DOE 4.5.2.3	BI-212	OH207-7854-03	10/18/07 08:33	0.379	0.193	0.197	0.163
DOE 4.5.2.3	PB-212	OH207-7854-03	10/18/07 08:33	0.604	0.061	0.086	0.036
DOE 4.5.2.3	BI-214	OH207-7854-03	10/18/07 08:33	0.422	0.070	0.082	0.044
DOE 4.5.2.3	PB-214	OH207-7854-03	10/18/07 08:33	0.465	0.068	0.082	0.044
DOE 4.5.2.3	RA-223	OH207-7854-03	10/18/07 08:33	0.161	0.084	0.085	0.137
DOE 4.5.2.3	AC-228	OH207-7854-03	10/18/07 08:33	0.679	0.134	0.151	0.076
DOE 4.5.2.3	PA-233	OH207-7854-03	10/18/07 08:33	-0.001	0.024	0.024	0.041
DOE 4.5.2.3	PA-234M	OH207-7854-03	10/18/07 08:33	0.243	1.47	1.47	2.63
DOE 4.5.2.3	TH-234	OH207-7854-03	10/18/07 08:33	0.934	0.284	0.299	0.472
DOE 4.5.2.3	U-235	OH207-7854-03	10/18/07 08:33	0.003	0.086	0.086	0.141
DOE 4.5.2.3	NP-236	OH207-7854-03	10/18/07 08:33	0.019	0.028	0.028	0.046
DOE 4.5.2.3	NP-237	OH207-7854-03	10/18/07 08:33	0.156	0.143	0.144	0.194
DOE 4.5.2.3	NP-239	OH207-7854-03	10/18/07 08:33	0.066	0.084	0.084	0.150
DOE 4.5.2.3	AM-241	OH207-7854-03	10/18/07 08:33	0.020	0.068	0.068	0.118
DOE 4.5.2.3	AM-243	OH207-7854-03	10/18/07 08:33	0.126	0.041	0.043	0.039
DOE 4.5.2.3	CM-243	OH207-7854-03	10/18/07 08:33	-0.009	0.043	0.043	0.072
DOE 4.5.2.3	AM-246	OH207-7854-03	10/18/07 08:33	0.016	0.041	0.041	0.074
DOE 4.5.2.3	CF-249	OH207-7854-03	10/18/07 08:33	-0.006	0.015	0.015	0.025

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2076-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-04	10/18/07 09:45	1.83	0.316	0.365	0.206
DOE 4.5.2.3	CO-60	OH207-7854-04	10/18/07 09:45	0.006	0.012	0.012	0.023
DOE 4.5.2.3	RH-101	OH207-7854-04	10/18/07 09:45	-0.008	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7854-04	10/18/07 09:45	0.035	0.039	0.039	0.071
DOE 4.5.2.3	CS-137	OH207-7854-04	10/18/07 09:45	0.160	0.031	0.034	0.029
DOE 4.5.2.3	EU-155	OH207-7854-04	10/18/07 09:45	0.002	0.041	0.041	0.071
DOE 4.5.2.3	TL-208	OH207-7854-04	10/18/07 09:45	0.171	0.031	0.035	0.025
DOE 4.5.2.3	PO-209	OH207-7854-04	10/18/07 09:45	0.835	2.85	2.85	5.20
DOE 4.5.2.3	BI-211	OH207-7854-04	10/18/07 09:45	-0.007	0.400	0.400	0.690
DOE 4.5.2.3	BI-212	OH207-7854-04	10/18/07 09:45	0.403	0.295	0.298	0.191
DOE 4.5.2.3	PB-212	OH207-7854-04	10/18/07 09:45	0.521	0.059	0.079	0.040
DOE 4.5.2.3	BI-214	OH207-7854-04	10/18/07 09:45	0.461	0.073	0.087	0.044
DOE 4.5.2.3	PB-214	OH207-7854-04	10/18/07 09:45	0.507	0.072	0.088	0.049
DOE 4.5.2.3	RA-223	OH207-7854-04	10/18/07 09:45	0.173	0.082	0.084	0.147
DOE 4.5.2.3	AC-228	OH207-7854-04	10/18/07 09:45	0.570	0.119	0.132	0.078
DOE 4.5.2.3	PA-233	OH207-7854-04	10/18/07 09:45	-0.008	0.027	0.027	0.044
DOE 4.5.2.3	PA-234M	OH207-7854-04	10/18/07 09:45	0.584	1.70	1.70	3.08
DOE 4.5.2.3	TH-234	OH207-7854-04	10/18/07 09:45	0.589	0.292	0.298	0.293
DOE 4.5.2.3	U-235	OH207-7854-04	10/18/07 09:45	0.023	0.089	0.089	0.153
DOE 4.5.2.3	NP-236	OH207-7854-04	10/18/07 09:45	0.020	0.025	0.025	0.039
DOE 4.5.2.3	NP-237	OH207-7854-04	10/18/07 09:45	0.193	0.119	0.120	0.127
DOE 4.5.2.3	NP-239	OH207-7854-04	10/18/07 09:45	0.148	0.099	0.100	0.173
DOE 4.5.2.3	AM-241	OH207-7854-04	10/18/07 09:45	0.022	0.027	0.027	0.041
DOE 4.5.2.3	AM-243	OH207-7854-04	10/18/07 09:45	0.065	0.025	0.026	0.024
DOE 4.5.2.3	CM-243	OH207-7854-04	10/18/07 09:45	0.018	0.037	0.037	0.065
DOE 4.5.2.3	AM-246	OH207-7854-04	10/18/07 09:45	-0.019	0.049	0.049	0.083
DOE 4.5.2.3	CF-249	OH207-7854-04	10/18/07 09:45	0.024	0.017	0.017	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2077-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-05	10/18/07 12:58	1.70	0.314	0.357	0.143
DOE 4.5.2.3	CO-60	OH207-7854-05	10/18/07 12:58	0.001	0.014	0.014	0.026
DOE 4.5.2.3	RH-101	OH207-7854-05	10/18/07 12:58	-0.017	0.018	0.018	0.027
DOE 4.5.2.3	SB-125	OH207-7854-05	10/18/07 12:58	-0.012	0.043	0.043	0.073
DOE 4.5.2.3	CS-137	OH207-7854-05	10/18/07 12:58	0.005	0.018	0.018	0.032
DOE 4.5.2.3	EU-155	OH207-7854-05	10/18/07 12:58	0.108	0.085	0.085	0.103
DOE 4.5.2.3	TL-208	OH207-7854-05	10/18/07 12:58	0.338	0.053	0.062	0.028
DOE 4.5.2.3	PO-209	OH207-7854-05	10/18/07 12:58	-0.970	3.06	3.06	5.24
DOE 4.5.2.3	BI-211	OH207-7854-05	10/18/07 12:58	0.434	0.435	0.437	0.763
DOE 4.5.2.3	BI-212	OH207-7854-05	10/18/07 12:58	0.659	0.264	0.272	0.226
DOE 4.5.2.3	PB-212	OH207-7854-05	10/18/07 12:58	0.954	0.093	0.133	0.046
DOE 4.5.2.3	BI-214	OH207-7854-05	10/18/07 12:58	0.469	0.085	0.097	0.056
DOE 4.5.2.3	PB-214	OH207-7854-05	10/18/07 12:58	0.473	0.079	0.092	0.055
DOE 4.5.2.3	RA-223	OH207-7854-05	10/18/07 12:58	0.306	0.130	0.133	0.139
DOE 4.5.2.3	AC-228	OH207-7854-05	10/18/07 12:58	1.14	0.166	0.201	0.095
DOE 4.5.2.3	PA-233	OH207-7854-05	10/18/07 12:58	-0.003	0.030	0.030	0.052
DOE 4.5.2.3	PA-234M	OH207-7854-05	10/18/07 12:58	1.05	1.88	1.89	3.51
DOE 4.5.2.3	TH-234	OH207-7854-05	10/18/07 12:58	0.572	0.395	0.399	0.632
DOE 4.5.2.3	U-235	OH207-7854-05	10/18/07 12:58	0.009	0.112	0.113	0.185
DOE 4.5.2.3	NP-236	OH207-7854-05	10/18/07 12:58	0.042	0.039	0.039	0.061
DOE 4.5.2.3	NP-237	OH207-7854-05	10/18/07 12:58	0.441	0.174	0.179	0.256
DOE 4.5.2.3	NP-239	OH207-7854-05	10/18/07 12:58	-0.008	0.106	0.106	0.185
DOE 4.5.2.3	AM-241	OH207-7854-05	10/18/07 12:58	0.014	0.095	0.095	0.164
DOE 4.5.2.3	AM-243	OH207-7854-05	10/18/07 12:58	0.198	0.061	0.064	0.053
DOE 4.5.2.3	CM-243	OH207-7854-05	10/18/07 12:58	0.051	0.063	0.064	0.098
DOE 4.5.2.3	AM-246	OH207-7854-05	10/18/07 12:58	0.007	0.051	0.051	0.092
DOE 4.5.2.3	CF-249	OH207-7854-05	10/18/07 12:58	0.014	0.019	0.019	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2078-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-06	10/18/07 12:59	1.39	0.406	0.429	0.208
DOE 4.5.2.3	CO-60	OH207-7854-06	10/18/07 12:59	-0.012	0.013	0.013	0.021
DOE 4.5.2.3	RH-101	OH207-7854-06	10/18/07 12:59	-2.4e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7854-06	10/18/07 12:59	-0.015	0.040	0.040	0.069
DOE 4.5.2.3	CS-137	OH207-7854-06	10/18/07 12:59	0.125	0.031	0.034	0.027
DOE 4.5.2.3	EU-155	OH207-7854-06	10/18/07 12:59	-0.025	0.040	0.040	0.068
DOE 4.5.2.3	TL-208	OH207-7854-06	10/18/07 12:59	0.172	0.031	0.036	0.023
DOE 4.5.2.3	PO-209	OH207-7854-06	10/18/07 12:59	1.10	2.83	2.83	5.18
DOE 4.5.2.3	BI-211	OH207-7854-06	10/18/07 12:59	0.132	0.420	0.420	0.739
DOE 4.5.2.3	BI-212	OH207-7854-06	10/18/07 12:59	0.579	0.189	0.197	0.184
DOE 4.5.2.3	PB-212	OH207-7854-06	10/18/07 12:59	0.474	0.056	0.073	0.040
DOE 4.5.2.3	BI-214	OH207-7854-06	10/18/07 12:59	0.631	0.082	0.103	0.046
DOE 4.5.2.3	PB-214	OH207-7854-06	10/18/07 12:59	0.691	0.085	0.110	0.047
DOE 4.5.2.3	RA-223	OH207-7854-06	10/18/07 12:59	0.158	0.106	0.107	0.115
DOE 4.5.2.3	AC-228	OH207-7854-06	10/18/07 12:59	0.578	0.117	0.131	0.082
DOE 4.5.2.3	PA-233	OH207-7854-06	10/18/07 12:59	-0.006	0.028	0.028	0.046
DOE 4.5.2.3	PA-234M	OH207-7854-06	10/18/07 12:59	0.274	1.66	1.66	2.97
DOE 4.5.2.3	TH-234	OH207-7854-06	10/18/07 12:59	0.535	0.262	0.267	0.286
DOE 4.5.2.3	U-235	OH207-7854-06	10/18/07 12:59	-0.037	0.088	0.088	0.148
DOE 4.5.2.3	NP-236	OH207-7854-06	10/18/07 12:59	0.001	0.025	0.025	0.038
DOE 4.5.2.3	NP-237	OH207-7854-06	10/18/07 12:59	0.269	0.093	0.097	0.131
DOE 4.5.2.3	NP-239	OH207-7854-06	10/18/07 12:59	-0.043	0.096	0.096	0.159
DOE 4.5.2.3	AM-241	OH207-7854-06	10/18/07 12:59	0.035	0.026	0.026	0.040
DOE 4.5.2.3	AM-243	OH207-7854-06	10/18/07 12:59	0.098	0.028	0.030	0.023
DOE 4.5.2.3	CM-243	OH207-7854-06	10/18/07 12:59	-0.004	0.036	0.036	0.061
DOE 4.5.2.3	AM-246	OH207-7854-06	10/18/07 12:59	-0.013	0.043	0.043	0.074
DOE 4.5.2.3	CF-249	OH207-7854-06	10/18/07 12:59	0.026	0.016	0.016	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2079-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-07	10/18/07 16:09	3.46	0.424	0.547	0.151
DOE 4.5.2.3	CO-60	OH207-7854-07	10/18/07 16:09	0.005	0.014	0.014	0.022
DOE 4.5.2.3	RH-101	OH207-7854-07	10/18/07 16:09	-5.3e-04	0.014	0.014	0.024
DOE 4.5.2.3	SB-125	OH207-7854-07	10/18/07 16:09	0.003	0.039	0.039	0.068
DOE 4.5.2.3	CS-137	OH207-7854-07	10/18/07 16:09	0.262	0.046	0.053	0.026
DOE 4.5.2.3	EU-155	OH207-7854-07	10/18/07 16:09	0.037	0.050	0.050	0.086
DOE 4.5.2.3	TL-208	OH207-7854-07	10/18/07 16:09	0.222	0.037	0.043	0.021
DOE 4.5.2.3	PO-209	OH207-7854-07	10/18/07 16:09	0.039	2.46	2.46	4.38
DOE 4.5.2.3	BI-211	OH207-7854-07	10/18/07 16:09	-0.264	0.365	0.366	0.608
DOE 4.5.2.3	BI-212	OH207-7854-07	10/18/07 16:09	0.364	0.219	0.222	0.164
DOE 4.5.2.3	PB-212	OH207-7854-07	10/18/07 16:09	0.535	0.064	0.083	0.054
DOE 4.5.2.3	BI-214	OH207-7854-07	10/18/07 16:09	0.407	0.070	0.081	0.045
DOE 4.5.2.3	PB-214	OH207-7854-07	10/18/07 16:09	0.432	0.072	0.084	0.046
DOE 4.5.2.3	RA-223	OH207-7854-07	10/18/07 16:09	0.240	0.140	0.142	0.115
DOE 4.5.2.3	AC-228	OH207-7854-07	10/18/07 16:09	0.619	0.120	0.135	0.082
DOE 4.5.2.3	PA-233	OH207-7854-07	10/18/07 16:09	-0.002	0.024	0.024	0.042
DOE 4.5.2.3	PA-234M	OH207-7854-07	10/18/07 16:09	0.562	1.41	1.41	2.59
DOE 4.5.2.3	TH-234	OH207-7854-07	10/18/07 16:09	0.764	0.402	0.409	0.509
DOE 4.5.2.3	U-235	OH207-7854-07	10/18/07 16:09	-0.003	0.087	0.087	0.145
DOE 4.5.2.3	NP-236	OH207-7854-07	10/18/07 16:09	0.024	0.030	0.030	0.050
DOE 4.5.2.3	NP-237	OH207-7854-07	10/18/07 16:09	0.146	0.144	0.145	0.226
DOE 4.5.2.3	NP-239	OH207-7854-07	10/18/07 16:09	0.047	0.096	0.096	0.160
DOE 4.5.2.3	AM-241	OH207-7854-07	10/18/07 16:09	0.003	0.079	0.079	0.138
DOE 4.5.2.3	AM-243	OH207-7854-07	10/18/07 16:09	0.159	0.050	0.053	0.046
DOE 4.5.2.3	CM-243	OH207-7854-07	10/18/07 16:09	0.027	0.044	0.044	0.077
DOE 4.5.2.3	AM-246	OH207-7854-07	10/18/07 16:09	0.024	0.042	0.042	0.079
DOE 4.5.2.3	CF-249	OH207-7854-07	10/18/07 16:09	0.006	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2080-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-08	10/18/07 16:10	3.50	0.449	0.569	0.185
DOE 4.5.2.3	CO-60	OH207-7854-08	10/18/07 16:10	0.014	0.012	0.012	0.023
DOE 4.5.2.3	RH-101	OH207-7854-08	10/18/07 16:10	-0.016	0.014	0.015	0.022
DOE 4.5.2.3	SB-125	OH207-7854-08	10/18/07 16:10	-0.001	0.036	0.036	0.061
DOE 4.5.2.3	CS-137	OH207-7854-08	10/18/07 16:10	0.146	0.033	0.036	0.028
DOE 4.5.2.3	EU-155	OH207-7854-08	10/18/07 16:10	0.002	0.049	0.049	0.082
DOE 4.5.2.3	TL-208	OH207-7854-08	10/18/07 16:10	0.241	0.040	0.047	0.023
DOE 4.5.2.3	PO-209	OH207-7854-08	10/18/07 16:10	-0.163	2.28	2.28	4.00
DOE 4.5.2.3	BI-211	OH207-7854-08	10/18/07 16:10	-0.159	0.341	0.342	0.578
DOE 4.5.2.3	BI-212	OH207-7854-08	10/18/07 16:10	0.406	0.170	0.175	0.174
DOE 4.5.2.3	PB-212	OH207-7854-08	10/18/07 16:10	0.617	0.063	0.088	0.037
DOE 4.5.2.3	BI-214	OH207-7854-08	10/18/07 16:10	0.513	0.077	0.093	0.043
DOE 4.5.2.3	PB-214	OH207-7854-08	10/18/07 16:10	0.426	0.072	0.083	0.045
DOE 4.5.2.3	RA-223	OH207-7854-08	10/18/07 16:10	0.171	0.072	0.074	0.117
DOE 4.5.2.3	AC-228	OH207-7854-08	10/18/07 16:10	0.746	0.128	0.148	0.084
DOE 4.5.2.3	PA-233	OH207-7854-08	10/18/07 16:10	9.2e-04	0.024	0.024	0.041
DOE 4.5.2.3	PA-234M	OH207-7854-08	10/18/07 16:10	1.04	1.50	1.50	2.80
DOE 4.5.2.3	TH-234	OH207-7854-08	10/18/07 16:10	0.007	0.268	0.268	0.462
DOE 4.5.2.3	U-235	OH207-7854-08	10/18/07 16:10	0.060	0.091	0.091	0.152
DOE 4.5.2.3	NP-236	OH207-7854-08	10/18/07 16:10	0.009	0.028	0.028	0.048
DOE 4.5.2.3	NP-237	OH207-7854-08	10/18/07 16:10	0.145	0.137	0.137	0.211
DOE 4.5.2.3	NP-239	OH207-7854-08	10/18/07 16:10	-0.037	0.084	0.084	0.144
DOE 4.5.2.3	AM-241	OH207-7854-08	10/18/07 16:10	0.007	0.070	0.070	0.121
DOE 4.5.2.3	AM-243	OH207-7854-08	10/18/07 16:10	0.116	0.038	0.040	0.042
DOE 4.5.2.3	CM-243	OH207-7854-08	10/18/07 16:10	0.013	0.044	0.044	0.074
DOE 4.5.2.3	AM-246	OH207-7854-08	10/18/07 16:10	0.012	0.045	0.045	0.080
DOE 4.5.2.3	CF-249	OH207-7854-08	10/18/07 16:10	0.013	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2081-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-09	10/18/07 16:11	1.26	0.324	0.347	0.233
DOE 4.5.2.3	CO-60	OH207-7854-09	10/18/07 16:11	0.008	0.014	0.014	0.021
DOE 4.5.2.3	RH-101	OH207-7854-09	10/18/07 16:11	-0.011	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7854-09	10/18/07 16:11	-0.007	0.036	0.036	0.063
DOE 4.5.2.3	CS-137	OH207-7854-09	10/18/07 16:11	0.099	0.028	0.030	0.029
DOE 4.5.2.3	EU-155	OH207-7854-09	10/18/07 16:11	0.059	0.042	0.043	0.075
DOE 4.5.2.3	TL-208	OH207-7854-09	10/18/07 16:11	0.187	0.035	0.040	0.024
DOE 4.5.2.3	PO-209	OH207-7854-09	10/18/07 16:11	0.767	2.71	2.71	4.94
DOE 4.5.2.3	BI-211	OH207-7854-09	10/18/07 16:11	-0.271	0.437	0.438	0.712
DOE 4.5.2.3	BI-212	OH207-7854-09	10/18/07 16:11	0.261	0.192	0.194	0.167
DOE 4.5.2.3	PB-212	OH207-7854-09	10/18/07 16:11	0.591	0.062	0.086	0.037
DOE 4.5.2.3	BI-214	OH207-7854-09	10/18/07 16:11	0.607	0.081	0.101	0.048
DOE 4.5.2.3	PB-214	OH207-7854-09	10/18/07 16:11	0.625	0.083	0.104	0.049
DOE 4.5.2.3	RA-223	OH207-7854-09	10/18/07 16:11	0.240	0.120	0.122	0.125
DOE 4.5.2.3	AC-228	OH207-7854-09	10/18/07 16:11	0.607	0.122	0.137	0.092
DOE 4.5.2.3	PA-233	OH207-7854-09	10/18/07 16:11	0.028	0.027	0.027	0.047
DOE 4.5.2.3	PA-234M	OH207-7854-09	10/18/07 16:11	0.267	1.52	1.52	2.74
DOE 4.5.2.3	TH-234	OH207-7854-09	10/18/07 16:11	0.593	0.285	0.291	0.322
DOE 4.5.2.3	U-235	OH207-7854-09	10/18/07 16:11	0.060	0.091	0.091	0.157
DOE 4.5.2.3	NP-236	OH207-7854-09	10/18/07 16:11	0.013	0.026	0.026	0.040
DOE 4.5.2.3	NP-237	OH207-7854-09	10/18/07 16:11	0.151	0.131	0.132	0.146
DOE 4.5.2.3	NP-239	OH207-7854-09	10/18/07 16:11	0.066	0.094	0.095	0.163
DOE 4.5.2.3	AM-241	OH207-7854-09	10/18/07 16:11	0.008	0.029	0.029	0.042
DOE 4.5.2.3	AM-243	OH207-7854-09	10/18/07 16:11	0.111	0.032	0.034	0.023
DOE 4.5.2.3	CM-243	OH207-7854-09	10/18/07 16:11	0.024	0.038	0.038	0.066
DOE 4.5.2.3	AM-246	OH207-7854-09	10/18/07 16:11	0.047	0.047	0.047	0.091
DOE 4.5.2.3	CF-249	OH207-7854-09	10/18/07 16:11	0.010	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2082-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-10	10/18/07 19:18	1.89	0.263	0.324	0.147
DOE 4.5.2.3	CO-60	OH207-7854-10	10/18/07 19:18	2.7e-04	0.011	0.011	0.019
DOE 4.5.2.3	RH-101	OH207-7854-10	10/18/07 19:18	0.002	0.013	0.013	0.022
DOE 4.5.2.3	SB-125	OH207-7854-10	10/18/07 19:18	0.029	0.032	0.033	0.058
DOE 4.5.2.3	CS-137	OH207-7854-10	10/18/07 19:18	0.103	0.025	0.027	0.026
DOE 4.5.2.3	EU-155	OH207-7854-10	10/18/07 19:18	0.044	0.046	0.046	0.080
DOE 4.5.2.3	TL-208	OH207-7854-10	10/18/07 19:18	0.231	0.039	0.045	0.020
DOE 4.5.2.3	PO-209	OH207-7854-10	10/18/07 19:18	2.04	2.44	2.45	4.50
DOE 4.5.2.3	BI-211	OH207-7854-10	10/18/07 19:18	0.100	0.356	0.357	0.638
DOE 4.5.2.3	BI-212	OH207-7854-10	10/18/07 19:18	0.239	0.237	0.238	0.170
DOE 4.5.2.3	PB-212	OH207-7854-10	10/18/07 19:18	0.654	0.064	0.092	0.036
DOE 4.5.2.3	BI-214	OH207-7854-10	10/18/07 19:18	0.634	0.091	0.111	0.040
DOE 4.5.2.3	PB-214	OH207-7854-10	10/18/07 19:18	0.692	0.083	0.108	0.041
DOE 4.5.2.3	RA-223	OH207-7854-10	10/18/07 19:18	0.223	0.141	0.142	0.111
DOE 4.5.2.3	AC-228	OH207-7854-10	10/18/07 19:18	0.748	0.120	0.141	0.070
DOE 4.5.2.3	PA-233	OH207-7854-10	10/18/07 19:18	-0.001	0.022	0.022	0.039
DOE 4.5.2.3	PA-234M	OH207-7854-10	10/18/07 19:18	-0.201	1.36	1.36	2.35
DOE 4.5.2.3	TH-234	OH207-7854-10	10/18/07 19:18	1.17	0.407	0.423	0.474
DOE 4.5.2.3	U-235	OH207-7854-10	10/18/07 19:18	0.138	0.087	0.088	0.150
DOE 4.5.2.3	NP-236	OH207-7854-10	10/18/07 19:18	0.027	0.030	0.030	0.047
DOE 4.5.2.3	NP-237	OH207-7854-10	10/18/07 19:18	0.394	0.122	0.128	0.193
DOE 4.5.2.3	NP-239	OH207-7854-10	10/18/07 19:18	-0.043	0.087	0.088	0.140
DOE 4.5.2.3	AM-241	OH207-7854-10	10/18/07 19:18	0.006	0.074	0.074	0.129
DOE 4.5.2.3	AM-243	OH207-7854-10	10/18/07 19:18	0.114	0.040	0.041	0.042
DOE 4.5.2.3	CM-243	OH207-7854-10	10/18/07 19:18	-0.005	0.042	0.042	0.072
DOE 4.5.2.3	AM-246	OH207-7854-10	10/18/07 19:18	0.012	0.036	0.036	0.065
DOE 4.5.2.3	CF-249	OH207-7854-10	10/18/07 19:18	0.009	0.014	0.014	0.025

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2083-ST				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-11	10/18/07 19:20	1.73	0.313	0.357	0.228
DOE 4.5.2.3	CO-60	OH207-7854-11	10/18/07 19:20	-1.9e-05	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7854-11	10/18/07 19:20	-0.014	0.017	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7854-11	10/18/07 19:20	0.024	0.043	0.043	0.075
DOE 4.5.2.3	CS-137	OH207-7854-11	10/18/07 19:20	0.107	0.028	0.030	0.032
DOE 4.5.2.3	EU-155	OH207-7854-11	10/18/07 19:20	0.034	0.060	0.060	0.102
DOE 4.5.2.3	TL-208	OH207-7854-11	10/18/07 19:20	0.421	0.060	0.073	0.026
DOE 4.5.2.3	PO-209	OH207-7854-11	10/18/07 19:20	0.729	2.95	2.95	5.27
DOE 4.5.2.3	BI-211	OH207-7854-11	10/18/07 19:20	-0.347	0.458	0.460	0.754
DOE 4.5.2.3	BI-212	OH207-7854-11	10/18/07 19:20	0.890	0.238	0.254	0.200
DOE 4.5.2.3	PB-212	OH207-7854-11	10/18/07 19:20	1.16	0.104	0.156	0.044
DOE 4.5.2.3	BI-214	OH207-7854-11	10/18/07 19:20	0.608	0.098	0.115	0.053
DOE 4.5.2.3	PB-214	OH207-7854-11	10/18/07 19:20	0.680	0.085	0.109	0.052
DOE 4.5.2.3	RA-223	OH207-7854-11	10/18/07 19:20	0.161	0.133	0.134	0.139
DOE 4.5.2.3	AC-228	OH207-7854-11	10/18/07 19:20	1.38	0.179	0.226	0.085
DOE 4.5.2.3	PA-233	OH207-7854-11	10/18/07 19:20	0.015	0.029	0.029	0.051
DOE 4.5.2.3	PA-234M	OH207-7854-11	10/18/07 19:20	1.65	1.69	1.70	3.22
DOE 4.5.2.3	TH-234	OH207-7854-11	10/18/07 19:20	1.77	0.512	0.541	0.608
DOE 4.5.2.3	U-235	OH207-7854-11	10/18/07 19:20	0.003	0.104	0.104	0.171
DOE 4.5.2.3	NP-236	OH207-7854-11	10/18/07 19:20	0.015	0.039	0.039	0.059
DOE 4.5.2.3	NP-237	OH207-7854-11	10/18/07 19:20	0.581	0.155	0.165	0.236
DOE 4.5.2.3	NP-239	OH207-7854-11	10/18/07 19:20	0.039	0.103	0.103	0.181
DOE 4.5.2.3	AM-241	OH207-7854-11	10/18/07 19:20	0.016	0.090	0.090	0.154
DOE 4.5.2.3	AM-243	OH207-7854-11	10/18/07 19:20	0.234	0.062	0.066	0.053
DOE 4.5.2.3	CM-243	OH207-7854-11	10/18/07 19:20	-0.024	0.055	0.056	0.091
DOE 4.5.2.3	AM-246	OH207-7854-11	10/18/07 19:20	0.057	0.047	0.048	0.092
DOE 4.5.2.3	CF-249	OH207-7854-11	10/18/07 19:20	0.008	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2084-ST				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-12	10/18/07 19:21	2.70	0.436	0.512	0.227
DOE 4.5.2.3	CO-60	OH207-7854-12	10/18/07 19:21	0.007	0.017	0.017	0.026
DOE 4.5.2.3	RH-101	OH207-7854-12	10/18/07 19:21	-0.006	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7854-12	10/18/07 19:21	-0.012	0.044	0.044	0.076
DOE 4.5.2.3	CS-137	OH207-7854-12	10/18/07 19:21	-0.002	0.018	0.018	0.031
DOE 4.5.2.3	EU-155	OH207-7854-12	10/18/07 19:21	0.064	0.050	0.050	0.088
DOE 4.5.2.3	TL-208	OH207-7854-12	10/18/07 19:21	0.377	0.052	0.065	0.029
DOE 4.5.2.3	PO-209	OH207-7854-12	10/18/07 19:21	1.54	3.12	3.12	5.72
DOE 4.5.2.3	BI-211	OH207-7854-12	10/18/07 19:21	0.029	0.525	0.525	0.774
DOE 4.5.2.3	BI-212	OH207-7854-12	10/18/07 19:21	0.852	0.219	0.235	0.233
DOE 4.5.2.3	PB-212	OH207-7854-12	10/18/07 19:21	1.17	0.106	0.158	0.048
DOE 4.5.2.3	BI-214	OH207-7854-12	10/18/07 19:21	0.625	0.088	0.108	0.051
DOE 4.5.2.3	PB-214	OH207-7854-12	10/18/07 19:21	0.717	0.092	0.117	0.056
DOE 4.5.2.3	RA-223	OH207-7854-12	10/18/07 19:21	0.291	0.123	0.126	0.148
DOE 4.5.2.3	AC-228	OH207-7854-12	10/18/07 19:21	1.21	0.161	0.201	0.109
DOE 4.5.2.3	PA-233	OH207-7854-12	10/18/07 19:21	-0.014	0.030	0.030	0.049
DOE 4.5.2.3	PA-234M	OH207-7854-12	10/18/07 19:21	0.692	1.86	1.87	3.37
DOE 4.5.2.3	TH-234	OH207-7854-12	10/18/07 19:21	1.35	0.355	0.380	0.471
DOE 4.5.2.3	U-235	OH207-7854-12	10/18/07 19:21	0.128	0.107	0.108	0.187
DOE 4.5.2.3	NP-236	OH207-7854-12	10/18/07 19:21	0.044	0.032	0.033	0.048
DOE 4.5.2.3	NP-237	OH207-7854-12	10/18/07 19:21	0.631	0.148	0.161	0.145
DOE 4.5.2.3	NP-239	OH207-7854-12	10/18/07 19:21	0.023	0.112	0.112	0.190
DOE 4.5.2.3	AM-241	OH207-7854-12	10/18/07 19:21	-0.102	0.035	0.036	0.052
DOE 4.5.2.3	AM-243	OH207-7854-12	10/18/07 19:21	0.190	0.048	0.052	0.029
DOE 4.5.2.3	CM-243	OH207-7854-12	10/18/07 19:21	-0.054	0.045	0.046	0.075
DOE 4.5.2.3	AM-246	OH207-7854-12	10/18/07 19:21	-0.035	0.056	0.056	0.093
DOE 4.5.2.3	CF-249	OH207-7854-12	10/18/07 19:21	0.017	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2085-ST
Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7854 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	OH207-7854-13	10/18/07 23:22	1.90	0.339	0.388	0.208
DOE 4.5.2.3	CO-60	OH207-7854-13	10/18/07 23:22	-9.8e-05	0.014	0.014	0.019
DOE 4.5.2.3	RH-101	OH207-7854-13	10/18/07 23:22	-0.012	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7854-13	10/18/07 23:22	0.014	0.038	0.038	0.067
DOE 4.5.2.3	CS-137	OH207-7854-13	10/18/07 23:22	0.217	0.045	0.050	0.025
DOE 4.5.2.3	EU-155	OH207-7854-13	10/18/07 23:22	0.052	0.055	0.055	0.096
DOE 4.5.2.3	TL-208	OH207-7854-13	10/18/07 23:22	0.288	0.047	0.055	0.024
DOE 4.5.2.3	PO-209	OH207-7854-13	10/18/07 23:22	-2.32	2.77	2.78	4.49
DOE 4.5.2.3	BI-211	OH207-7854-13	10/18/07 23:22	-0.329	0.386	0.387	0.635
DOE 4.5.2.3	BI-212	OH207-7854-13	10/18/07 23:22	0.454	0.221	0.225	0.188
DOE 4.5.2.3	PB-212	OH207-7854-13	10/18/07 23:22	0.787	0.077	0.110	0.040
DOE 4.5.2.3	BI-214	OH207-7854-13	10/18/07 23:22	0.650	0.091	0.112	0.045
DOE 4.5.2.3	PB-214	OH207-7854-13	10/18/07 23:22	0.617	0.082	0.103	0.048
DOE 4.5.2.3	RA-223	OH207-7854-13	10/18/07 23:22	0.360	0.142	0.147	0.118
DOE 4.5.2.3	AC-228	OH207-7854-13	10/18/07 23:22	0.906	0.131	0.159	0.081
DOE 4.5.2.3	PA-233	OH207-7854-13	10/18/07 23:22	0.012	0.025	0.025	0.045
DOE 4.5.2.3	PA-234M	OH207-7854-13	10/18/07 23:22	1.32	1.57	1.57	2.96
DOE 4.5.2.3	TH-234	OH207-7854-13	10/18/07 23:22	1.17	0.406	0.422	0.560
DOE 4.5.2.3	U-235	OH207-7854-13	10/18/07 23:22	0.048	0.096	0.096	0.163
DOE 4.5.2.3	NP-236	OH207-7854-13	10/18/07 23:22	0.048	0.035	0.035	0.056
DOE 4.5.2.3	NP-237	OH207-7854-13	10/18/07 23:22	0.465	0.172	0.178	0.230
DOE 4.5.2.3	NP-239	OH207-7854-13	10/18/07 23:22	-0.096	0.101	0.101	0.156
DOE 4.5.2.3	AM-241	OH207-7854-13	10/18/07 23:22	0.074	0.084	0.085	0.152
DOE 4.5.2.3	AM-243	OH207-7854-13	10/18/07 23:22	0.143	0.048	0.050	0.049
DOE 4.5.2.3	CM-243	OH207-7854-13	10/18/07 23:22	0.025	0.050	0.050	0.086
DOE 4.5.2.3	AM-246	OH207-7854-13	10/18/07 23:22	0.025	0.042	0.042	0.079
DOE 4.5.2.3	CF-249	OH207-7854-13	10/18/07 23:22	0.018	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2086-ST
Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7854 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	OH207-7854-14	10/18/07 23:24	2.50	0.346	0.427	0.147
DOE 4.5.2.3	CO-60	OH207-7854-14	10/18/07 23:24	-0.006	0.012	0.012	0.019
DOE 4.5.2.3	RH-101	OH207-7854-14	10/18/07 23:24	0.006	0.014	0.014	0.022
DOE 4.5.2.3	SB-125	OH207-7854-14	10/18/07 23:24	0.008	0.035	0.035	0.061
DOE 4.5.2.3	CS-137	OH207-7854-14	10/18/07 23:24	0.182	0.030	0.035	0.022
DOE 4.5.2.3	EU-155	OH207-7854-14	10/18/07 23:24	0.071	0.048	0.048	0.083
DOE 4.5.2.3	TL-208	OH207-7854-14	10/18/07 23:24	0.264	0.039	0.047	0.022
DOE 4.5.2.3	PO-209	OH207-7854-14	10/18/07 23:24	0.229	2.14	2.14	3.80
DOE 4.5.2.3	BI-211	OH207-7854-14	10/18/07 23:24	-0.138	0.368	0.368	0.624
DOE 4.5.2.3	BI-212	OH207-7854-14	10/18/07 23:24	0.644	0.198	0.209	0.152
DOE 4.5.2.3	PB-212	OH207-7854-14	10/18/07 23:24	0.725	0.069	0.100	0.037
DOE 4.5.2.3	BI-214	OH207-7854-14	10/18/07 23:24	0.639	0.090	0.111	0.040
DOE 4.5.2.3	PB-214	OH207-7854-14	10/18/07 23:24	0.708	0.081	0.108	0.041
DOE 4.5.2.3	RA-223	OH207-7854-14	10/18/07 23:24	0.123	0.091	0.092	0.114
DOE 4.5.2.3	AC-228	OH207-7854-14	10/18/07 23:24	0.844	0.132	0.157	0.079
DOE 4.5.2.3	PA-233	OH207-7854-14	10/18/07 23:24	0.009	0.024	0.024	0.042
DOE 4.5.2.3	PA-234M	OH207-7854-14	10/18/07 23:24	-0.168	1.44	1.44	2.50
DOE 4.5.2.3	TH-234	OH207-7854-14	10/18/07 23:24	0.720	0.440	0.446	0.464
DOE 4.5.2.3	U-235	OH207-7854-14	10/18/07 23:24	0.044	0.088	0.088	0.146
DOE 4.5.2.3	NP-236	OH207-7854-14	10/18/07 23:24	0.041	0.029	0.029	0.048
DOE 4.5.2.3	NP-237	OH207-7854-14	10/18/07 23:24	0.190	0.144	0.145	0.189
DOE 4.5.2.3	NP-239	OH207-7854-14	10/18/07 23:24	-0.077	0.084	0.084	0.140
DOE 4.5.2.3	AM-241	OH207-7854-14	10/18/07 23:24	-0.069	0.070	0.071	0.117
DOE 4.5.2.3	AM-243	OH207-7854-14	10/18/07 23:24	0.139	0.043	0.045	0.040
DOE 4.5.2.3	CM-243	OH207-7854-14	10/18/07 23:24	-0.003	0.043	0.043	0.073
DOE 4.5.2.3	AM-246	OH207-7854-14	10/18/07 23:24	0.014	0.037	0.037	0.068
DOE 4.5.2.3	CF-249	OH207-7854-14	10/18/07 23:24	-0.002	0.015	0.015	0.025

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2087-ST				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-15	10/18/07 23:26	2.78	0.460	0.537	0.290
DOE 4.5.2.3	CO-60	OH207-7854-15	10/18/07 23:26	0.002	0.017	0.017	0.031
DOE 4.5.2.3	RH-101	OH207-7854-15	10/18/07 23:26	-0.004	0.019	0.019	0.031
DOE 4.5.2.3	SB-125	OH207-7854-15	10/18/07 23:26	-0.008	0.049	0.049	0.085
DOE 4.5.2.3	CS-137	OH207-7854-15	10/18/07 23:26	0.429	0.054	0.069	0.032
DOE 4.5.2.3	EU-155	OH207-7854-15	10/18/07 23:26	0.045	0.053	0.054	0.094
DOE 4.5.2.3	TL-208	OH207-7854-15	10/18/07 23:26	0.336	0.053	0.063	0.031
DOE 4.5.2.3	PO-209	OH207-7854-15	10/18/07 23:26	2.94	3.53	3.55	6.65
DOE 4.5.2.3	BI-211	OH207-7854-15	10/18/07 23:26	-0.114	0.511	0.511	0.864
DOE 4.5.2.3	BI-212	OH207-7854-15	10/18/07 23:26	0.805	0.226	0.239	0.239
DOE 4.5.2.3	PB-212	OH207-7854-15	10/18/07 23:26	0.992	0.098	0.139	0.049
DOE 4.5.2.3	BI-214	OH207-7854-15	10/18/07 23:26	0.481	0.090	0.102	0.059
DOE 4.5.2.3	PB-214	OH207-7854-15	10/18/07 23:26	0.508	0.079	0.094	0.062
DOE 4.5.2.3	RA-223	OH207-7854-15	10/18/07 23:26	0.295	0.140	0.143	0.167
DOE 4.5.2.3	AC-228	OH207-7854-15	10/18/07 23:26	0.885	0.150	0.174	0.118
DOE 4.5.2.3	PA-233	OH207-7854-15	10/18/07 23:26	-0.029	0.035	0.035	0.056
DOE 4.5.2.3	PA-234M	OH207-7854-15	10/18/07 23:26	2.12	2.02	2.03	3.88
DOE 4.5.2.3	TH-234	OH207-7854-15	10/18/07 23:26	1.09	0.358	0.374	0.364
DOE 4.5.2.3	U-235	OH207-7854-15	10/18/07 23:26	0.007	0.110	0.110	0.189
DOE 4.5.2.3	NP-236	OH207-7854-15	10/18/07 23:26	0.031	0.035	0.035	0.051
DOE 4.5.2.3	NP-237	OH207-7854-15	10/18/07 23:26	0.474	0.150	0.157	0.158
DOE 4.5.2.3	NP-239	OH207-7854-15	10/18/07 23:26	-0.073	0.123	0.123	0.202
DOE 4.5.2.3	AM-241	OH207-7854-15	10/18/07 23:26	0.026	0.037	0.037	0.056
DOE 4.5.2.3	AM-243	OH207-7854-15	10/18/07 23:26	0.173	0.047	0.050	0.031
DOE 4.5.2.3	CM-243	OH207-7854-15	10/18/07 23:26	-0.006	0.049	0.049	0.084
DOE 4.5.2.3	AM-246	OH207-7854-15	10/18/07 23:26	0.041	0.064	0.064	0.119
DOE 4.5.2.3	CF-249	OH207-7854-15	10/18/07 23:26	0.003	0.021	0.021	0.037

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2088-ST				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-16	10/19/07 02:37	1.26	0.372	0.393	0.220
DOE 4.5.2.3	CO-60	OH207-7854-16	10/19/07 02:37	-0.004	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7854-16	10/19/07 02:37	-0.005	0.017	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7854-16	10/19/07 02:37	0.004	0.042	0.042	0.073
DOE 4.5.2.3	CS-137	OH207-7854-16	10/19/07 02:37	0.163	0.038	0.041	0.032
DOE 4.5.2.3	EU-155	OH207-7854-16	10/19/07 02:37	0.056	0.061	0.062	0.107
DOE 4.5.2.3	TL-208	OH207-7854-16	10/19/07 02:37	0.304	0.046	0.056	0.029
DOE 4.5.2.3	PO-209	OH207-7854-16	10/19/07 02:37	-0.470	2.80	2.80	4.91
DOE 4.5.2.3	BI-211	OH207-7854-16	10/19/07 02:37	-0.103	0.468	0.468	0.812
DOE 4.5.2.3	BI-212	OH207-7854-16	10/19/07 02:37	0.667	0.247	0.256	0.202
DOE 4.5.2.3	PB-212	OH207-7854-16	10/19/07 02:37	0.928	0.091	0.130	0.045
DOE 4.5.2.3	BI-214	OH207-7854-16	10/19/07 02:37	0.648	0.102	0.120	0.054
DOE 4.5.2.3	PB-214	OH207-7854-16	10/19/07 02:37	0.616	0.087	0.107	0.053
DOE 4.5.2.3	RA-223	OH207-7854-16	10/19/07 02:37	0.257	0.122	0.124	0.137
DOE 4.5.2.3	AC-228	OH207-7854-16	10/19/07 02:37	0.956	0.138	0.168	0.092
DOE 4.5.2.3	PA-233	OH207-7854-16	10/19/07 02:37	0.001	0.030	0.030	0.052
DOE 4.5.2.3	PA-234M	OH207-7854-16	10/19/07 02:37	0.752	1.75	1.75	3.21
DOE 4.5.2.3	TH-234	OH207-7854-16	10/19/07 02:37	0.619	0.450	0.454	0.645
DOE 4.5.2.3	U-235	OH207-7854-16	10/19/07 02:37	0.078	0.107	0.107	0.183
DOE 4.5.2.3	NP-236	OH207-7854-16	10/19/07 02:37	0.017	0.038	0.038	0.059
DOE 4.5.2.3	NP-237	OH207-7854-16	10/19/07 02:37	0.434	0.222	0.226	0.270
DOE 4.5.2.3	NP-239	OH207-7854-16	10/19/07 02:37	0.074	0.109	0.109	0.183
DOE 4.5.2.3	AM-241	OH207-7854-16	10/19/07 02:37	-0.002	0.099	0.099	0.173
DOE 4.5.2.3	AM-243	OH207-7854-16	10/19/07 02:37	0.215	0.066	0.070	0.054
DOE 4.5.2.3	CM-243	OH207-7854-16	10/19/07 02:37	0.007	0.054	0.054	0.093
DOE 4.5.2.3	AM-246	OH207-7854-16	10/19/07 02:37	0.042	0.047	0.047	0.091
DOE 4.5.2.3	CF-249	OH207-7854-16	10/19/07 02:37	0.019	0.020	0.020	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2089-ST				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-17	10/19/07 02:38	1.84	0.381	0.423	0.206
DOE 4.5.2.3	CO-60	OH207-7854-17	10/19/07 02:38	-0.004	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7854-17	10/19/07 02:38	-0.002	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7854-17	10/19/07 02:38	0.026	0.040	0.040	0.071
DOE 4.5.2.3	CS-137	OH207-7854-17	10/19/07 02:38	0.084	0.027	0.029	0.030
DOE 4.5.2.3	EU-155	OH207-7854-17	10/19/07 02:38	0.039	0.056	0.056	0.096
DOE 4.5.2.3	TL-208	OH207-7854-17	10/19/07 02:38	0.338	0.048	0.059	0.025
DOE 4.5.2.3	PO-209	OH207-7854-17	10/19/07 02:38	-0.568	2.96	2.96	5.09
DOE 4.5.2.3	BI-211	OH207-7854-17	10/19/07 02:38	-0.386	0.471	0.473	0.770
DOE 4.5.2.3	BI-212	OH207-7854-17	10/19/07 02:38	0.580	0.247	0.254	0.205
DOE 4.5.2.3	PB-212	OH207-7854-17	10/19/07 02:38	0.943	0.088	0.129	0.042
DOE 4.5.2.3	BI-214	OH207-7854-17	10/19/07 02:38	0.621	0.093	0.112	0.050
DOE 4.5.2.3	PB-214	OH207-7854-17	10/19/07 02:38	0.696	0.091	0.115	0.048
DOE 4.5.2.3	RA-223	OH207-7854-17	10/19/07 02:38	0.203	0.122	0.124	0.135
DOE 4.5.2.3	AC-228	OH207-7854-17	10/19/07 02:38	1.11	0.164	0.198	0.081
DOE 4.5.2.3	PA-233	OH207-7854-17	10/19/07 02:38	0.029	0.027	0.027	0.048
DOE 4.5.2.3	PA-234M	OH207-7854-17	10/19/07 02:38	0.594	1.57	1.57	2.88
DOE 4.5.2.3	TH-234	OH207-7854-17	10/19/07 02:38	1.26	0.399	0.418	0.562
DOE 4.5.2.3	U-235	OH207-7854-17	10/19/07 02:38	0.080	0.101	0.101	0.169
DOE 4.5.2.3	NP-236	OH207-7854-17	10/19/07 02:38	0.025	0.033	0.033	0.055
DOE 4.5.2.3	NP-237	OH207-7854-17	10/19/07 02:38	0.255	0.189	0.191	0.236
DOE 4.5.2.3	NP-239	OH207-7854-17	10/19/07 02:38	0.003	0.094	0.094	0.163
DOE 4.5.2.3	AM-241	OH207-7854-17	10/19/07 02:38	1.3e-04	0.082	0.082	0.140
DOE 4.5.2.3	AM-243	OH207-7854-17	10/19/07 02:38	0.145	0.047	0.049	0.049
DOE 4.5.2.3	CM-243	OH207-7854-17	10/19/07 02:38	2.5e-04	0.051	0.051	0.086
DOE 4.5.2.3	AM-246	OH207-7854-17	10/19/07 02:38	0.001	0.049	0.049	0.085
DOE 4.5.2.3	CF-249	OH207-7854-17	10/19/07 02:38	0.012	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2090-ST				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-18	10/19/07 02:39	0.939	0.361	0.373	0.258
DOE 4.5.2.3	CO-60	OH207-7854-18	10/19/07 02:39	-0.005	0.016	0.016	0.027
DOE 4.5.2.3	RH-101	OH207-7854-18	10/19/07 02:39	0.002	0.019	0.019	0.032
DOE 4.5.2.3	SB-125	OH207-7854-18	10/19/07 02:39	-0.006	0.052	0.052	0.091
DOE 4.5.2.3	CS-137	OH207-7854-18	10/19/07 02:39	0.101	0.047	0.048	0.035
DOE 4.5.2.3	EU-155	OH207-7854-18	10/19/07 02:39	0.053	0.054	0.054	0.095
DOE 4.5.2.3	TL-208	OH207-7854-18	10/19/07 02:39	0.244	0.043	0.050	0.030
DOE 4.5.2.3	PO-209	OH207-7854-18	10/19/07 02:39	-0.378	3.64	3.64	6.50
DOE 4.5.2.3	BI-211	OH207-7854-18	10/19/07 02:39	-0.070	0.548	0.548	0.937
DOE 4.5.2.3	BI-212	OH207-7854-18	10/19/07 02:39	0.572	0.207	0.215	0.245
DOE 4.5.2.3	PB-212	OH207-7854-18	10/19/07 02:39	0.678	0.092	0.115	0.056
DOE 4.5.2.3	BI-214	OH207-7854-18	10/19/07 02:39	0.466	0.080	0.093	0.063
DOE 4.5.2.3	PB-214	OH207-7854-18	10/19/07 02:39	0.518	0.084	0.098	0.065
DOE 4.5.2.3	RA-223	OH207-7854-18	10/19/07 02:39	0.200	0.119	0.121	0.189
DOE 4.5.2.3	AC-228	OH207-7854-18	10/19/07 02:39	0.757	0.136	0.156	0.103
DOE 4.5.2.3	PA-233	OH207-7854-18	10/19/07 02:39	0.018	0.034	0.034	0.059
DOE 4.5.2.3	PA-234M	OH207-7854-18	10/19/07 02:39	1.87	2.14	2.15	4.09
DOE 4.5.2.3	TH-234	OH207-7854-18	10/19/07 02:39	0.980	0.377	0.390	0.460
DOE 4.5.2.3	U-235	OH207-7854-18	10/19/07 02:39	0.007	0.111	0.111	0.191
DOE 4.5.2.3	NP-236	OH207-7854-18	10/19/07 02:39	0.041	0.033	0.033	0.052
DOE 4.5.2.3	NP-237	OH207-7854-18	10/19/07 02:39	0.263	0.138	0.140	0.183
DOE 4.5.2.3	NP-239	OH207-7854-18	10/19/07 02:39	-0.063	0.119	0.119	0.196
DOE 4.5.2.3	AM-241	OH207-7854-18	10/19/07 02:39	0.060	0.039	0.040	0.061
DOE 4.5.2.3	AM-243	OH207-7854-18	10/19/07 02:39	0.148	0.043	0.045	0.032
DOE 4.5.2.3	CM-243	OH207-7854-18	10/19/07 02:39	0.024	0.048	0.048	0.085
DOE 4.5.2.3	AM-246	OH207-7854-18	10/19/07 02:39	0.095	0.066	0.067	0.132
DOE 4.5.2.3	CF-249	OH207-7854-18	10/19/07 02:39	0.017	0.021	0.021	0.039

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2091-ST				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7854	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	OH207-7854-19	10/19/07 07:25	1.14	0.312	0.332	0.179
DOE 4.5.2.3	CO-60	OH207-7854-19	10/19/07 07:25	-0.011	0.010	0.011	0.016
DOE 4.5.2.3	RH-101	OH207-7854-19	10/19/07 07:25	-0.001	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7854-19	10/19/07 07:25	-0.035	0.038	0.038	0.061
DOE 4.5.2.3	CS-137	OH207-7854-19	10/19/07 07:25	0.334	0.049	0.059	0.026
DOE 4.5.2.3	EU-155	OH207-7854-19	10/19/07 07:25	0.044	0.051	0.052	0.089
DOE 4.5.2.3	TL-208	OH207-7854-19	10/19/07 07:25	0.251	0.039	0.047	0.023
DOE 4.5.2.3	PO-209	OH207-7854-19	10/19/07 07:25	-0.931	2.28	2.29	3.90
DOE 4.5.2.3	BI-211	OH207-7854-19	10/19/07 07:25	-0.051	0.360	0.360	0.630
DOE 4.5.2.3	BI-212	OH207-7854-19	10/19/07 07:25	0.552	0.195	0.203	0.162
DOE 4.5.2.3	PB-212	OH207-7854-19	10/19/07 07:25	0.728	0.072	0.102	0.038
DOE 4.5.2.3	BI-214	OH207-7854-19	10/19/07 07:25	0.646	0.093	0.113	0.044
DOE 4.5.2.3	PB-214	OH207-7854-19	10/19/07 07:25	0.648	0.087	0.108	0.047
DOE 4.5.2.3	RA-223	OH207-7854-19	10/19/07 07:25	0.238	0.129	0.131	0.122
DOE 4.5.2.3	AC-228	OH207-7854-19	10/19/07 07:25	0.769	0.132	0.152	0.077
DOE 4.5.2.3	PA-233	OH207-7854-19	10/19/07 07:25	-0.011	0.025	0.025	0.042
DOE 4.5.2.3	PA-234M	OH207-7854-19	10/19/07 07:25	-0.125	1.47	1.47	2.56
DOE 4.5.2.3	TH-234	OH207-7854-19	10/19/07 07:25	0.923	0.374	0.386	0.516
DOE 4.5.2.3	U-235	OH207-7854-19	10/19/07 07:25	0.109	0.091	0.092	0.157
DOE 4.5.2.3	NP-236	OH207-7854-19	10/19/07 07:25	0.035	0.031	0.031	0.051
DOE 4.5.2.3	NP-237	OH207-7854-19	10/19/07 07:25	0.500	0.181	0.187	0.179
DOE 4.5.2.3	NP-239	OH207-7854-19	10/19/07 07:25	-0.019	0.090	0.091	0.147
DOE 4.5.2.3	AM-241	OH207-7854-19	10/19/07 07:25	0.028	0.082	0.082	0.145
DOE 4.5.2.3	AM-243	OH207-7854-19	10/19/07 07:25	0.133	0.047	0.049	0.045
DOE 4.5.2.3	CM-243	OH207-7854-19	10/19/07 07:25	0.005	0.046	0.046	0.079
DOE 4.5.2.3	AM-246	OH207-7854-19	10/19/07 07:25	0.016	0.039	0.039	0.072
DOE 4.5.2.3	CF-249	OH207-7854-19	10/19/07 07:25	0.020	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2092-ST

Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7854 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	OH207-7854-20	10/19/07 07:27	1.61	0.290	0.332	0.221
DOE 4.5.2.3	CO-60	OH207-7854-20	10/19/07 07:27	0.008	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7854-20	10/19/07 07:27	-0.002	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7854-20	10/19/07 07:27	0.006	0.037	0.037	0.065
DOE 4.5.2.3	CS-137	OH207-7854-20	10/19/07 07:27	0.071	0.031	0.032	0.026
DOE 4.5.2.3	EU-155	OH207-7854-20	10/19/07 07:27	0.039	0.043	0.043	0.076
DOE 4.5.2.3	TL-208	OH207-7854-20	10/19/07 07:27	0.178	0.040	0.044	0.022
DOE 4.5.2.3	PO-209	OH207-7854-20	10/19/07 07:27	0.944	2.62	2.62	4.81
DOE 4.5.2.3	BI-211	OH207-7854-20	10/19/07 07:27	-0.504	0.442	0.444	0.687
DOE 4.5.2.3	BI-212	OH207-7854-20	10/19/07 07:27	0.459	0.168	0.174	0.175
DOE 4.5.2.3	PB-212	OH207-7854-20	10/19/07 07:27	0.639	0.066	0.092	0.038
DOE 4.5.2.3	BI-214	OH207-7854-20	10/19/07 07:27	0.648	0.084	0.106	0.045
DOE 4.5.2.3	PB-214	OH207-7854-20	10/19/07 07:27	0.676	0.084	0.108	0.049
DOE 4.5.2.3	RA-223	OH207-7854-20	10/19/07 07:27	0.274	0.116	0.119	0.122
DOE 4.5.2.3	AC-228	OH207-7854-20	10/19/07 07:27	0.652	0.115	0.132	0.094
DOE 4.5.2.3	PA-233	OH207-7854-20	10/19/07 07:27	-0.014	0.026	0.026	0.043
DOE 4.5.2.3	PA-234M	OH207-7854-20	10/19/07 07:27	2.02	1.59	1.60	3.08
DOE 4.5.2.3	TH-234	OH207-7854-20	10/19/07 07:27	0.685	0.304	0.312	0.323
DOE 4.5.2.3	U-235	OH207-7854-20	10/19/07 07:27	-0.021	0.091	0.091	0.154
DOE 4.5.2.3	NP-236	OH207-7854-20	10/19/07 07:27	0.016	0.028	0.028	0.041
DOE 4.5.2.3	NP-237	OH207-7854-20	10/19/07 07:27	0.274	0.092	0.096	0.144
DOE 4.5.2.3	NP-239	OH207-7854-20	10/19/07 07:27	-0.052	0.096	0.097	0.159
DOE 4.5.2.3	AM-241	OH207-7854-20	10/19/07 07:27	0.032	0.028	0.028	0.042
DOE 4.5.2.3	AM-243	OH207-7854-20	10/19/07 07:27	0.107	0.029	0.031	0.024
DOE 4.5.2.3	CM-243	OH207-7854-20	10/19/07 07:27	0.019	0.039	0.039	0.068
DOE 4.5.2.3	AM-246	OH207-7854-20	10/19/07 07:27	0.009	0.048	0.048	0.087
DOE 4.5.2.3	CF-249	OH207-7854-20	10/19/07 07:27	0.001	0.016	0.016	0.027

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2093-ST

Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7855 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	OH207-7855-01	10/19/07 13:44	1.66	0.363	0.399	0.284
DOE 4.5.2.3	CO-60	OH207-7855-01	10/19/07 13:44	0.003	0.016	0.016	0.029
DOE 4.5.2.3	RH-101	OH207-7855-01	10/19/07 13:44	-0.012	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7855-01	10/19/07 13:44	-1.5e-04	0.045	0.045	0.079
DOE 4.5.2.3	CS-137	OH207-7855-01	10/19/07 13:44	0.257	0.038	0.046	0.030
DOE 4.5.2.3	EU-155	OH207-7855-01	10/19/07 13:44	0.001	0.049	0.049	0.084
DOE 4.5.2.3	TL-208	OH207-7855-01	10/19/07 13:44	0.251	0.043	0.050	0.028
DOE 4.5.2.3	PO-209	OH207-7855-01	10/19/07 13:44	1.41	3.19	3.19	5.84
DOE 4.5.2.3	BI-211	OH207-7855-01	10/19/07 13:44	-0.106	0.487	0.487	0.819
DOE 4.5.2.3	BI-212	OH207-7855-01	10/19/07 13:44	0.543	0.194	0.201	0.233
DOE 4.5.2.3	PB-212	OH207-7855-01	10/19/07 13:44	0.844	0.084	0.119	0.046
DOE 4.5.2.3	BI-214	OH207-7855-01	10/19/07 13:44	0.718	0.087	0.113	0.053
DOE 4.5.2.3	PB-214	OH207-7855-01	10/19/07 13:44	0.755	0.097	0.123	0.056
DOE 4.5.2.3	RA-223	OH207-7855-01	10/19/07 13:44	0.205	0.130	0.132	0.150
DOE 4.5.2.3	AC-228	OH207-7855-01	10/19/07 13:44	0.867	0.130	0.156	0.102
DOE 4.5.2.3	PA-233	OH207-7855-01	10/19/07 13:44	-0.032	0.031	0.031	0.049
DOE 4.5.2.3	PA-234M	OH207-7855-01	10/19/07 13:44	0.488	1.86	1.86	3.34
DOE 4.5.2.3	TH-234	OH207-7855-01	10/19/07 13:44	1.07	0.338	0.354	0.325
DOE 4.5.2.3	U-235	OH207-7855-01	10/19/07 13:44	0.090	0.106	0.107	0.185
DOE 4.5.2.3	NP-236	OH207-7855-01	10/19/07 13:44	0.042	0.032	0.032	0.047
DOE 4.5.2.3	NP-237	OH207-7855-01	10/19/07 13:44	0.523	0.137	0.147	0.141
DOE 4.5.2.3	NP-239	OH207-7855-01	10/19/07 13:44	0.079	0.110	0.111	0.190
DOE 4.5.2.3	AM-241	OH207-7855-01	10/19/07 13:44	0.042	0.032	0.033	0.050
DOE 4.5.2.3	AM-243	OH207-7855-01	10/19/07 13:44	0.152	0.042	0.045	0.027
DOE 4.5.2.3	CM-243	OH207-7855-01	10/19/07 13:44	-0.024	0.044	0.044	0.075
DOE 4.5.2.3	AM-246	OH207-7855-01	10/19/07 13:44	-0.022	0.051	0.051	0.087
DOE 4.5.2.3	CF-249	OH207-7855-01	10/19/07 13:44	0.010	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7855-LC1	SCAQC-7855-LD1		SCAQC-7855-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2094-ST

Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7855 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	OH207-7855-02	10/19/07 10:36	2.95	0.430	0.521	0.199
DOE 4.5.2.3	CO-60	OH207-7855-02	10/19/07 10:36	-0.002	0.017	0.017	0.023
DOE 4.5.2.3	RH-101	OH207-7855-02	10/19/07 10:36	-0.009	0.016	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7855-02	10/19/07 10:36	-0.005	0.042	0.042	0.073
DOE 4.5.2.3	CS-137	OH207-7855-02	10/19/07 10:36	0.010	0.019	0.019	0.033
DOE 4.5.2.3	EU-155	OH207-7855-02	10/19/07 10:36	0.075	0.049	0.050	0.083
DOE 4.5.2.3	TL-208	OH207-7855-02	10/19/07 10:36	0.306	0.045	0.054	0.025
DOE 4.5.2.3	PO-209	OH207-7855-02	10/19/07 10:36	-1.82	3.16	3.16	5.35
DOE 4.5.2.3	BI-211	OH207-7855-02	10/19/07 10:36	-0.166	0.455	0.455	0.756
DOE 4.5.2.3	BI-212	OH207-7855-02	10/19/07 10:36	0.655	0.258	0.266	0.211
DOE 4.5.2.3	PB-212	OH207-7855-02	10/19/07 10:36	0.879	0.084	0.122	0.043
DOE 4.5.2.3	BI-214	OH207-7855-02	10/19/07 10:36	0.694	0.091	0.115	0.051
DOE 4.5.2.3	PB-214	OH207-7855-02	10/19/07 10:36	0.660	0.098	0.118	0.052
DOE 4.5.2.3	RA-223	OH207-7855-02	10/19/07 10:36	0.402	0.135	0.141	0.132
DOE 4.5.2.3	AC-228	OH207-7855-02	10/19/07 10:36	0.943	0.153	0.180	0.102
DOE 4.5.2.3	PA-233	OH207-7855-02	10/19/07 10:36	0.009	0.029	0.029	0.049
DOE 4.5.2.3	PA-234M	OH207-7855-02	10/19/07 10:36	2.82	1.88	1.90	3.63
DOE 4.5.2.3	TH-234	OH207-7855-02	10/19/07 10:36	1.12	0.345	0.362	0.311
DOE 4.5.2.3	U-235	OH207-7855-02	10/19/07 10:36	0.036	0.098	0.098	0.168
DOE 4.5.2.3	NP-236	OH207-7855-02	10/19/07 10:36	0.036	0.034	0.034	0.037
DOE 4.5.2.3	NP-237	OH207-7855-02	10/19/07 10:36	0.316	0.098	0.103	0.135
DOE 4.5.2.3	NP-239	OH207-7855-02	10/19/07 10:36	0.028	0.105	0.105	0.178
DOE 4.5.2.3	AM-241	OH207-7855-02	10/19/07 10:36	0.025	0.030	0.030	0.045
DOE 4.5.2.3	AM-243	OH207-7855-02	10/19/07 10:36	0.117	0.031	0.033	0.026
DOE 4.5.2.3	CM-243	OH207-7855-02	10/19/07 10:36	0.018	0.047	0.048	0.072
DOE 4.5.2.3	AM-246	OH207-7855-02	10/19/07 10:36	0.051	0.049	0.049	0.094
DOE 4.5.2.3	CF-249	OH207-7855-02	10/19/07 10:36	0.021	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7855-LC1	SCAQC-7855-LD1		SCAQC-7855-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2073-SD
Other Sample ID: Collection Date: 8/27/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7856 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	OH207-7856-01	10/19/07 16:47	3.47	0.440	0.561	0.201
DOE 4.5.2.3	CO-60	OH207-7856-01	10/19/07 16:47	0.002	0.018	0.018	0.029
DOE 4.5.2.3	RH-101	OH207-7856-01	10/19/07 16:47	0.006	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7856-01	10/19/07 16:47	0.015	0.043	0.043	0.076
DOE 4.5.2.3	CS-137	OH207-7856-01	10/19/07 16:47	0.011	0.018	0.018	0.032
DOE 4.5.2.3	EU-155	OH207-7856-01	10/19/07 16:47	6.9e-04	0.045	0.045	0.078
DOE 4.5.2.3	TL-208	OH207-7856-01	10/19/07 16:47	0.204	0.043	0.048	0.029
DOE 4.5.2.3	PO-209	OH207-7856-01	10/19/07 16:47	0.790	2.89	2.90	5.32
DOE 4.5.2.3	BI-211	OH207-7856-01	10/19/07 16:47	-0.094	0.469	0.469	0.793
DOE 4.5.2.3	BI-212	OH207-7856-01	10/19/07 16:47	0.462	0.215	0.220	0.225
DOE 4.5.2.3	PB-212	OH207-7856-01	10/19/07 16:47	0.727	0.076	0.105	0.046
DOE 4.5.2.3	BI-214	OH207-7856-01	10/19/07 16:47	0.357	0.078	0.086	0.054
DOE 4.5.2.3	PB-214	OH207-7856-01	10/19/07 16:47	0.390	0.077	0.086	0.053
DOE 4.5.2.3	RA-223	OH207-7856-01	10/19/07 16:47	0.212	0.124	0.126	0.136
DOE 4.5.2.3	AC-228	OH207-7856-01	10/19/07 16:47	0.857	0.140	0.164	0.080
DOE 4.5.2.3	PA-233	OH207-7856-01	10/19/07 16:47	0.011	0.028	0.028	0.048
DOE 4.5.2.3	PA-234M	OH207-7856-01	10/19/07 16:47	2.41	1.89	1.91	3.66
DOE 4.5.2.3	TH-234	OH207-7856-01	10/19/07 16:47	0.912	0.338	0.350	0.370
DOE 4.5.2.3	U-235	OH207-7856-01	10/19/07 16:47	-0.022	0.102	0.102	0.173
DOE 4.5.2.3	NP-236	OH207-7856-01	10/19/07 16:47	0.057	0.030	0.031	0.046
DOE 4.5.2.3	NP-237	OH207-7856-01	10/19/07 16:47	0.233	0.105	0.108	0.163
DOE 4.5.2.3	NP-239	OH207-7856-01	10/19/07 16:47	-0.072	0.102	0.102	0.167
DOE 4.5.2.3	AM-241	OH207-7856-01	10/19/07 16:47	0.028	0.032	0.032	0.048
DOE 4.5.2.3	AM-243	OH207-7856-01	10/19/07 16:47	0.144	0.040	0.043	0.027
DOE 4.5.2.3	CM-243	OH207-7856-01	10/19/07 16:47	-0.044	0.041	0.042	0.069
DOE 4.5.2.3	AM-246	OH207-7856-01	10/19/07 16:47	0.028	0.055	0.055	0.102
DOE 4.5.2.3	CF-249	OH207-7856-01	10/19/07 16:47	0.001	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2074-SD

Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7856 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	OH207-7856-02	10/19/07 16:32	3.36	0.419	0.537	0.192
DOE 4.5.2.3	CO-60	OH207-7856-02	10/19/07 16:32	0.008	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7856-02	10/19/07 16:32	-0.007	0.014	0.014	0.022
DOE 4.5.2.3	SB-125	OH207-7856-02	10/19/07 16:32	0.016	0.036	0.036	0.063
DOE 4.5.2.3	CS-137	OH207-7856-02	10/19/07 16:32	0.025	0.015	0.015	0.028
DOE 4.5.2.3	EU-155	OH207-7856-02	10/19/07 16:32	0.061	0.047	0.047	0.081
DOE 4.5.2.3	TL-208	OH207-7856-02	10/19/07 16:32	0.201	0.038	0.043	0.021
DOE 4.5.2.3	PO-209	OH207-7856-02	10/19/07 16:32	-1.16	2.26	2.27	3.78
DOE 4.5.2.3	BI-211	OH207-7856-02	10/19/07 16:32	-0.554	0.379	0.383	0.580
DOE 4.5.2.3	BI-212	OH207-7856-02	10/19/07 16:32	0.348	0.146	0.150	0.158
DOE 4.5.2.3	PB-212	OH207-7856-02	10/19/07 16:32	0.581	0.058	0.082	0.036
DOE 4.5.2.3	BI-214	OH207-7856-02	10/19/07 16:32	0.543	0.078	0.095	0.038
DOE 4.5.2.3	PB-214	OH207-7856-02	10/19/07 16:32	0.568	0.078	0.096	0.042
DOE 4.5.2.3	RA-223	OH207-7856-02	10/19/07 16:32	0.216	0.109	0.111	0.107
DOE 4.5.2.3	AC-228	OH207-7856-02	10/19/07 16:32	0.651	0.119	0.136	0.081
DOE 4.5.2.3	PA-233	OH207-7856-02	10/19/07 16:32	-0.022	0.023	0.023	0.038
DOE 4.5.2.3	PA-234M	OH207-7856-02	10/19/07 16:32	0.206	1.44	1.44	2.56
DOE 4.5.2.3	TH-234	OH207-7856-02	10/19/07 16:32	0.979	0.350	0.363	0.453
DOE 4.5.2.3	U-235	OH207-7856-02	10/19/07 16:32	0.065	0.086	0.086	0.143
DOE 4.5.2.3	NP-236	OH207-7856-02	10/19/07 16:32	0.028	0.027	0.028	0.047
DOE 4.5.2.3	NP-237	OH207-7856-02	10/19/07 16:32	0.403	0.165	0.169	0.166
DOE 4.5.2.3	NP-239	OH207-7856-02	10/19/07 16:32	-0.004	0.085	0.085	0.147
DOE 4.5.2.3	AM-241	OH207-7856-02	10/19/07 16:32	0.007	0.069	0.069	0.118
DOE 4.5.2.3	AM-243	OH207-7856-02	10/19/07 16:32	0.132	0.039	0.042	0.040
DOE 4.5.2.3	CM-243	OH207-7856-02	10/19/07 16:32	-0.005	0.043	0.043	0.071
DOE 4.5.2.3	AM-246	OH207-7856-02	10/19/07 16:32	0.007	0.045	0.045	0.080
DOE 4.5.2.3	CF-249	OH207-7856-02	10/19/07 16:32	0.003	0.014	0.014	0.025

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2075-SD
Other Sample ID: Collection Date: 8/27/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7856 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	OH207-7856-03	10/19/07 16:46	3.62	0.437	0.567	0.176
DOE 4.5.2.3	CO-60	OH207-7856-03	10/19/07 16:46	-0.005	0.012	0.012	0.020
DOE 4.5.2.3	RH-101	OH207-7856-03	10/19/07 16:46	0.002	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7856-03	10/19/07 16:46	0.003	0.035	0.035	0.061
DOE 4.5.2.3	CS-137	OH207-7856-03	10/19/07 16:46	0.084	0.023	0.025	0.025
DOE 4.5.2.3	EU-155	OH207-7856-03	10/19/07 16:46	0.056	0.050	0.050	0.087
DOE 4.5.2.3	TL-208	OH207-7856-03	10/19/07 16:46	0.261	0.039	0.047	0.022
DOE 4.5.2.3	PO-209	OH207-7856-03	10/19/07 16:46	2.60	2.52	2.53	4.73
DOE 4.5.2.3	BI-211	OH207-7856-03	10/19/07 16:46	-0.024	0.353	0.353	0.620
DOE 4.5.2.3	BI-212	OH207-7856-03	10/19/07 16:46	0.653	0.173	0.185	0.175
DOE 4.5.2.3	PB-212	OH207-7856-03	10/19/07 16:46	0.777	0.075	0.108	0.036
DOE 4.5.2.3	BI-214	OH207-7856-03	10/19/07 16:46	0.414	0.070	0.081	0.044
DOE 4.5.2.3	PB-214	OH207-7856-03	10/19/07 16:46	0.454	0.063	0.078	0.046
DOE 4.5.2.3	RA-223	OH207-7856-03	10/19/07 16:46	0.274	0.133	0.136	0.110
DOE 4.5.2.3	AC-228	OH207-7856-03	10/19/07 16:46	0.886	0.122	0.151	0.068
DOE 4.5.2.3	PA-233	OH207-7856-03	10/19/07 16:46	0.002	0.023	0.023	0.040
DOE 4.5.2.3	PA-234M	OH207-7856-03	10/19/07 16:46	0.494	1.44	1.44	2.60
DOE 4.5.2.3	TH-234	OH207-7856-03	10/19/07 16:46	0.656	0.329	0.335	0.504
DOE 4.5.2.3	U-235	OH207-7856-03	10/19/07 16:46	-0.024	0.088	0.088	0.145
DOE 4.5.2.3	NP-236	OH207-7856-03	10/19/07 16:46	0.006	0.030	0.030	0.049
DOE 4.5.2.3	NP-237	OH207-7856-03	10/19/07 16:46	0.382	0.142	0.147	0.208
DOE 4.5.2.3	NP-239	OH207-7856-03	10/19/07 16:46	-0.051	0.090	0.091	0.144
DOE 4.5.2.3	AM-241	OH207-7856-03	10/19/07 16:46	-0.014	0.082	0.082	0.141
DOE 4.5.2.3	AM-243	OH207-7856-03	10/19/07 16:46	0.153	0.055	0.057	0.043
DOE 4.5.2.3	CM-243	OH207-7856-03	10/19/07 16:46	5.3e-04	0.045	0.045	0.077
DOE 4.5.2.3	AM-246	OH207-7856-03	10/19/07 16:46	0.002	0.045	0.045	0.078
DOE 4.5.2.3	CF-249	OH207-7856-03	10/19/07 16:46	3.1e-04	0.015	0.015	0.026

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2076-SD				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-04	10/19/07 19:43	2.27	0.324	0.396	0.152
DOE 4.5.2.3	CO-60	OH207-7856-04	10/19/07 19:43	0.010	0.010	0.010	0.020
DOE 4.5.2.3	RH-101	OH207-7856-04	10/19/07 19:43	-0.009	0.012	0.012	0.019
DOE 4.5.2.3	SB-125	OH207-7856-04	10/19/07 19:43	0.004	0.031	0.031	0.054
DOE 4.5.2.3	CS-137	OH207-7856-04	10/19/07 19:43	0.021	0.015	0.015	0.022
DOE 4.5.2.3	EU-155	OH207-7856-04	10/19/07 19:43	0.070	0.044	0.045	0.077
DOE 4.5.2.3	TL-208	OH207-7856-04	10/19/07 19:43	0.182	0.033	0.038	0.018
DOE 4.5.2.3	PO-209	OH207-7856-04	10/19/07 19:43	2.05	2.29	2.30	4.26
DOE 4.5.2.3	BI-211	OH207-7856-04	10/19/07 19:43	0.198	0.317	0.318	0.585
DOE 4.5.2.3	BI-212	OH207-7856-04	10/19/07 19:43	0.357	0.169	0.173	0.146
DOE 4.5.2.3	PB-212	OH207-7856-04	10/19/07 19:43	0.511	0.054	0.074	0.033
DOE 4.5.2.3	BI-214	OH207-7856-04	10/19/07 19:43	0.459	0.074	0.087	0.035
DOE 4.5.2.3	PB-214	OH207-7856-04	10/19/07 19:43	0.434	0.060	0.074	0.041
DOE 4.5.2.3	RA-223	OH207-7856-04	10/19/07 19:43	0.140	0.096	0.097	0.095
DOE 4.5.2.3	AC-228	OH207-7856-04	10/19/07 19:43	0.623	0.112	0.128	0.076
DOE 4.5.2.3	PA-233	OH207-7856-04	10/19/07 19:43	0.010	0.020	0.020	0.036
DOE 4.5.2.3	PA-234M	OH207-7856-04	10/19/07 19:43	1.15	1.40	1.41	2.62
DOE 4.5.2.3	TH-234	OH207-7856-04	10/19/07 19:43	0.377	0.233	0.236	0.415
DOE 4.5.2.3	U-235	OH207-7856-04	10/19/07 19:43	0.037	0.078	0.078	0.130
DOE 4.5.2.3	NP-236	OH207-7856-04	10/19/07 19:43	0.020	0.025	0.025	0.043
DOE 4.5.2.3	NP-237	OH207-7856-04	10/19/07 19:43	0.245	0.131	0.133	0.162
DOE 4.5.2.3	NP-239	OH207-7856-04	10/19/07 19:43	-0.033	0.075	0.075	0.129
DOE 4.5.2.3	AM-241	OH207-7856-04	10/19/07 19:43	-0.040	0.060	0.060	0.100
DOE 4.5.2.3	AM-243	OH207-7856-04	10/19/07 19:43	0.109	0.034	0.036	0.035
DOE 4.5.2.3	CM-243	OH207-7856-04	10/19/07 19:43	0.007	0.039	0.039	0.066
DOE 4.5.2.3	AM-246	OH207-7856-04	10/19/07 19:43	-0.027	0.040	0.040	0.064
DOE 4.5.2.3	CF-249	OH207-7856-04	10/19/07 19:43	0.003	0.014	0.014	0.024

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2077-SD

Other Sample ID: Collection Date: 8/27/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7856 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	OH207-7856-05	10/19/07 19:48	2.36	0.360	0.430	0.233
DOE 4.5.2.3	CO-60	OH207-7856-05	10/19/07 19:48	6.0e-04	0.012	0.012	0.022
DOE 4.5.2.3	RH-101	OH207-7856-05	10/19/07 19:48	0.002	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7856-05	10/19/07 19:48	0.016	0.039	0.039	0.069
DOE 4.5.2.3	CS-137	OH207-7856-05	10/19/07 19:48	0.100	0.032	0.033	0.029
DOE 4.5.2.3	EU-155	OH207-7856-05	10/19/07 19:48	0.030	0.056	0.056	0.097
DOE 4.5.2.3	TL-208	OH207-7856-05	10/19/07 19:48	0.300	0.050	0.059	0.026
DOE 4.5.2.3	PO-209	OH207-7856-05	10/19/07 19:48	0.800	2.88	2.88	5.20
DOE 4.5.2.3	BI-211	OH207-7856-05	10/19/07 19:48	0.269	0.421	0.422	0.779
DOE 4.5.2.3	BI-212	OH207-7856-05	10/19/07 19:48	0.604	0.219	0.227	0.187
DOE 4.5.2.3	PB-212	OH207-7856-05	10/19/07 19:48	0.845	0.083	0.118	0.041
DOE 4.5.2.3	BI-214	OH207-7856-05	10/19/07 19:48	0.516	0.089	0.103	0.053
DOE 4.5.2.3	PB-214	OH207-7856-05	10/19/07 19:48	0.553	0.085	0.101	0.045
DOE 4.5.2.3	RA-223	OH207-7856-05	10/19/07 19:48	0.271	0.126	0.129	0.130
DOE 4.5.2.3	AC-228	OH207-7856-05	10/19/07 19:48	1.07	0.144	0.180	0.085
DOE 4.5.2.3	PA-233	OH207-7856-05	10/19/07 19:48	-0.001	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7856-05	10/19/07 19:48	1.16	1.64	1.64	3.07
DOE 4.5.2.3	TH-234	OH207-7856-05	10/19/07 19:48	1.43	0.492	0.512	0.583
DOE 4.5.2.3	U-235	OH207-7856-05	10/19/07 19:48	0.061	0.098	0.099	0.167
DOE 4.5.2.3	NP-236	OH207-7856-05	10/19/07 19:48	0.026	0.035	0.036	0.056
DOE 4.5.2.3	NP-237	OH207-7856-05	10/19/07 19:48	0.719	0.203	0.215	0.243
DOE 4.5.2.3	NP-239	OH207-7856-05	10/19/07 19:48	-0.035	0.103	0.103	0.166
DOE 4.5.2.3	AM-241	OH207-7856-05	10/19/07 19:48	-0.037	0.093	0.093	0.160
DOE 4.5.2.3	AM-243	OH207-7856-05	10/19/07 19:48	0.206	0.059	0.062	0.051
DOE 4.5.2.3	CM-243	OH207-7856-05	10/19/07 19:48	0.022	0.050	0.050	0.086
DOE 4.5.2.3	AM-246	OH207-7856-05	10/19/07 19:48	0.032	0.047	0.047	0.088
DOE 4.5.2.3	CF-249	OH207-7856-05	10/19/07 19:48	-0.001	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2078-SD				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-06	10/19/07 19:49	1.96	0.300	0.358	0.194
DOE 4.5.2.3	CO-60	OH207-7856-06	10/19/07 19:49	-0.005	0.016	0.016	0.023
DOE 4.5.2.3	RH-101	OH207-7856-06	10/19/07 19:49	7.8e-04	0.014	0.014	0.024
DOE 4.5.2.3	SB-125	OH207-7856-06	10/19/07 19:49	-0.006	0.037	0.037	0.065
DOE 4.5.2.3	CS-137	OH207-7856-06	10/19/07 19:49	0.043	0.025	0.025	0.026
DOE 4.5.2.3	EU-155	OH207-7856-06	10/19/07 19:49	0.002	0.040	0.040	0.070
DOE 4.5.2.3	TL-208	OH207-7856-06	10/19/07 19:49	0.174	0.033	0.037	0.024
DOE 4.5.2.3	PO-209	OH207-7856-06	10/19/07 19:49	2.59	2.82	2.83	5.32
DOE 4.5.2.3	BI-211	OH207-7856-06	10/19/07 19:49	-0.065	0.420	0.420	0.712
DOE 4.5.2.3	BI-212	OH207-7856-06	10/19/07 19:49	0.389	0.142	0.147	0.182
DOE 4.5.2.3	PB-212	OH207-7856-06	10/19/07 19:49	0.485	0.058	0.075	0.040
DOE 4.5.2.3	BI-214	OH207-7856-06	10/19/07 19:49	0.559	0.074	0.092	0.046
DOE 4.5.2.3	PB-214	OH207-7856-06	10/19/07 19:49	0.597	0.086	0.105	0.047
DOE 4.5.2.3	RA-223	OH207-7856-06	10/19/07 19:49	0.157	0.104	0.105	0.129
DOE 4.5.2.3	AC-228	OH207-7856-06	10/19/07 19:49	0.624	0.107	0.124	0.091
DOE 4.5.2.3	PA-233	OH207-7856-06	10/19/07 19:49	0.011	0.025	0.025	0.043
DOE 4.5.2.3	PA-234M	OH207-7856-06	10/19/07 19:49	1.25	1.66	1.66	3.11
DOE 4.5.2.3	TH-234	OH207-7856-06	10/19/07 19:49	0.346	0.234	0.236	0.377
DOE 4.5.2.3	U-235	OH207-7856-06	10/19/07 19:49	0.047	0.086	0.086	0.149
DOE 4.5.2.3	NP-236	OH207-7856-06	10/19/07 19:49	-0.014	0.024	0.024	0.037
DOE 4.5.2.3	NP-237	OH207-7856-06	10/19/07 19:49	0.135	0.127	0.128	0.130
DOE 4.5.2.3	NP-239	OH207-7856-06	10/19/07 19:49	-0.024	0.091	0.091	0.153
DOE 4.5.2.3	AM-241	OH207-7856-06	10/19/07 19:49	0.009	0.027	0.027	0.040
DOE 4.5.2.3	AM-243	OH207-7856-06	10/19/07 19:49	0.074	0.023	0.024	0.023
DOE 4.5.2.3	CM-243	OH207-7856-06	10/19/07 19:49	0.021	0.036	0.036	0.063
DOE 4.5.2.3	AM-246	OH207-7856-06	10/19/07 19:49	-0.013	0.049	0.049	0.086
DOE 4.5.2.3	CF-249	OH207-7856-06	10/19/07 19:49	0.009	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2079-SD				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-07	10/19/07 23:22	3.41	0.462	0.574	0.202
DOE 4.5.2.3	CO-60	OH207-7856-07	10/19/07 23:22	-0.008	0.014	0.014	0.021
DOE 4.5.2.3	RH-101	OH207-7856-07	10/19/07 23:22	-0.010	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7856-07	10/19/07 23:22	3.2e-05	0.036	0.036	0.063
DOE 4.5.2.3	CS-137	OH207-7856-07	10/19/07 23:22	0.070	0.030	0.031	0.025
DOE 4.5.2.3	EU-155	OH207-7856-07	10/19/07 23:22	0.099	0.055	0.056	0.098
DOE 4.5.2.3	TL-208	OH207-7856-07	10/19/07 23:22	0.226	0.040	0.046	0.026
DOE 4.5.2.3	PO-209	OH207-7856-07	10/19/07 23:22	0.652	2.76	2.76	5.00
DOE 4.5.2.3	BI-211	OH207-7856-07	10/19/07 23:22	-0.278	0.458	0.458	0.651
DOE 4.5.2.3	BI-212	OH207-7856-07	10/19/07 23:22	0.487	0.179	0.186	0.181
DOE 4.5.2.3	PB-212	OH207-7856-07	10/19/07 23:22	0.655	0.075	0.099	0.059
DOE 4.5.2.3	BI-214	OH207-7856-07	10/19/07 23:22	0.430	0.074	0.086	0.046
DOE 4.5.2.3	PB-214	OH207-7856-07	10/19/07 23:22	0.430	0.072	0.084	0.048
DOE 4.5.2.3	RA-223	OH207-7856-07	10/19/07 23:22	0.229	0.131	0.133	0.121
DOE 4.5.2.3	AC-228	OH207-7856-07	10/19/07 23:22	0.751	0.125	0.146	0.084
DOE 4.5.2.3	PA-233	OH207-7856-07	10/19/07 23:22	-4.2e-04	0.025	0.025	0.043
DOE 4.5.2.3	PA-234M	OH207-7856-07	10/19/07 23:22	0.210	1.48	1.48	2.67
DOE 4.5.2.3	TH-234	OH207-7856-07	10/19/07 23:22	0.894	0.443	0.452	0.463
DOE 4.5.2.3	U-235	OH207-7856-07	10/19/07 23:22	0.090	0.100	0.100	0.149
DOE 4.5.2.3	NP-236	OH207-7856-07	10/19/07 23:22	0.015	0.033	0.033	0.055
DOE 4.5.2.3	NP-237	OH207-7856-07	10/19/07 23:22	0.402	0.143	0.149	0.231
DOE 4.5.2.3	NP-239	OH207-7856-07	10/19/07 23:22	0.019	0.092	0.092	0.154
DOE 4.5.2.3	AM-241	OH207-7856-07	10/19/07 23:22	0.111	0.090	0.091	0.151
DOE 4.5.2.3	AM-243	OH207-7856-07	10/19/07 23:22	0.141	0.052	0.054	0.049
DOE 4.5.2.3	CM-243	OH207-7856-07	10/19/07 23:22	-0.072	0.050	0.051	0.079
DOE 4.5.2.3	AM-246	OH207-7856-07	10/19/07 23:22	-0.026	0.040	0.040	0.065
DOE 4.5.2.3	CF-249	OH207-7856-07	10/19/07 23:22	0.006	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2080-SD				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-08	10/19/07 23:22	4.42	0.522	0.684	0.185
DOE 4.5.2.3	CO-60	OH207-7856-08	10/19/07 23:22	0.008	0.013	0.013	0.020
DOE 4.5.2.3	RH-101	OH207-7856-08	10/19/07 23:22	-0.006	0.014	0.014	0.022
DOE 4.5.2.3	SB-125	OH207-7856-08	10/19/07 23:22	0.006	0.035	0.035	0.061
DOE 4.5.2.3	CS-137	OH207-7856-08	10/19/07 23:22	0.022	0.016	0.016	0.030
DOE 4.5.2.3	EU-155	OH207-7856-08	10/19/07 23:22	0.051	0.050	0.050	0.086
DOE 4.5.2.3	TL-208	OH207-7856-08	10/19/07 23:22	0.244	0.039	0.046	0.023
DOE 4.5.2.3	PO-209	OH207-7856-08	10/19/07 23:22	0.393	2.47	2.47	4.42
DOE 4.5.2.3	BI-211	OH207-7856-08	10/19/07 23:22	-0.085	0.374	0.374	0.644
DOE 4.5.2.3	BI-212	OH207-7856-08	10/19/07 23:22	0.323	0.173	0.176	0.178
DOE 4.5.2.3	PB-212	OH207-7856-08	10/19/07 23:22	0.643	0.065	0.091	0.036
DOE 4.5.2.3	BI-214	OH207-7856-08	10/19/07 23:22	0.475	0.078	0.092	0.044
DOE 4.5.2.3	PB-214	OH207-7856-08	10/19/07 23:22	0.459	0.065	0.080	0.046
DOE 4.5.2.3	RA-223	OH207-7856-08	10/19/07 23:22	0.148	0.121	0.122	0.120
DOE 4.5.2.3	AC-228	OH207-7856-08	10/19/07 23:22	0.797	0.139	0.160	0.083
DOE 4.5.2.3	PA-233	OH207-7856-08	10/19/07 23:22	5.4e-04	0.024	0.024	0.042
DOE 4.5.2.3	PA-234M	OH207-7856-08	10/19/07 23:22	0.695	1.62	1.62	2.94
DOE 4.5.2.3	TH-234	OH207-7856-08	10/19/07 23:22	0.524	0.467	0.470	0.496
DOE 4.5.2.3	U-235	OH207-7856-08	10/19/07 23:22	0.090	0.092	0.092	0.155
DOE 4.5.2.3	NP-236	OH207-7856-08	10/19/07 23:22	0.010	0.030	0.030	0.049
DOE 4.5.2.3	NP-237	OH207-7856-08	10/19/07 23:22	0.352	0.151	0.155	0.193
DOE 4.5.2.3	NP-239	OH207-7856-08	10/19/07 23:22	-0.001	0.088	0.088	0.152
DOE 4.5.2.3	AM-241	OH207-7856-08	10/19/07 23:22	-0.015	0.072	0.072	0.123
DOE 4.5.2.3	AM-243	OH207-7856-08	10/19/07 23:22	0.141	0.042	0.044	0.042
DOE 4.5.2.3	CM-243	OH207-7856-08	10/19/07 23:22	-0.026	0.046	0.046	0.075
DOE 4.5.2.3	AM-246	OH207-7856-08	10/19/07 23:22	0.021	0.043	0.043	0.079
DOE 4.5.2.3	CF-249	OH207-7856-08	10/19/07 23:22	0.012	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2081-SD				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-09	10/19/07 23:23	2.66	0.355	0.444	0.194
DOE 4.5.2.3	CO-60	OH207-7856-09	10/19/07 23:23	-0.003	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7856-09	10/19/07 23:23	0.006	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7856-09	10/19/07 23:23	0.013	0.036	0.036	0.064
DOE 4.5.2.3	CS-137	OH207-7856-09	10/19/07 23:23	-0.012	0.015	0.015	0.025
DOE 4.5.2.3	EU-155	OH207-7856-09	10/19/07 23:23	0.015	0.042	0.042	0.073
DOE 4.5.2.3	TL-208	OH207-7856-09	10/19/07 23:23	0.236	0.035	0.042	0.023
DOE 4.5.2.3	PO-209	OH207-7856-09	10/19/07 23:23	-0.564	2.82	2.82	4.93
DOE 4.5.2.3	BI-211	OH207-7856-09	10/19/07 23:23	-0.172	0.416	0.417	0.690
DOE 4.5.2.3	BI-212	OH207-7856-09	10/19/07 23:23	0.493	0.202	0.208	0.185
DOE 4.5.2.3	PB-212	OH207-7856-09	10/19/07 23:23	0.686	0.068	0.097	0.039
DOE 4.5.2.3	BI-214	OH207-7856-09	10/19/07 23:23	0.589	0.082	0.101	0.047
DOE 4.5.2.3	PB-214	OH207-7856-09	10/19/07 23:23	0.590	0.077	0.097	0.050
DOE 4.5.2.3	RA-223	OH207-7856-09	10/19/07 23:23	0.203	0.109	0.111	0.123
DOE 4.5.2.3	AC-228	OH207-7856-09	10/19/07 23:23	0.754	0.116	0.139	0.083
DOE 4.5.2.3	PA-233	OH207-7856-09	10/19/07 23:23	0.017	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7856-09	10/19/07 23:23	1.33	1.69	1.69	3.14
DOE 4.5.2.3	TH-234	OH207-7856-09	10/19/07 23:23	0.606	0.325	0.331	0.299
DOE 4.5.2.3	U-235	OH207-7856-09	10/19/07 23:23	-0.027	0.092	0.092	0.155
DOE 4.5.2.3	NP-236	OH207-7856-09	10/19/07 23:23	0.029	0.028	0.028	0.041
DOE 4.5.2.3	NP-237	OH207-7856-09	10/19/07 23:23	0.204	0.102	0.104	0.138
DOE 4.5.2.3	NP-239	OH207-7856-09	10/19/07 23:23	0.037	0.098	0.098	0.166
DOE 4.5.2.3	AM-241	OH207-7856-09	10/19/07 23:23	0.021	0.027	0.027	0.040
DOE 4.5.2.3	AM-243	OH207-7856-09	10/19/07 23:23	0.101	0.030	0.031	0.023
DOE 4.5.2.3	CM-243	OH207-7856-09	10/19/07 23:23	0.021	0.038	0.038	0.066
DOE 4.5.2.3	AM-246	OH207-7856-09	10/19/07 23:23	-0.014	0.049	0.049	0.085
DOE 4.5.2.3	CF-249	OH207-7856-09	10/19/07 23:23	0.011	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2082-SD				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-10	10/20/07 04:47	1.95	0.299	0.357	0.169
DOE 4.5.2.3	CO-60	OH207-7856-10	10/20/07 04:47	4.1e-04	0.009	0.009	0.016
DOE 4.5.2.3	RH-101	OH207-7856-10	10/20/07 04:47	0.003	0.012	0.012	0.020
DOE 4.5.2.3	SB-125	OH207-7856-10	10/20/07 04:47	0.010	0.032	0.032	0.055
DOE 4.5.2.3	CS-137	OH207-7856-10	10/20/07 04:47	-0.012	0.012	0.012	0.019
DOE 4.5.2.3	EU-155	OH207-7856-10	10/20/07 04:47	0.041	0.044	0.045	0.077
DOE 4.5.2.3	TL-208	OH207-7856-10	10/20/07 04:47	0.226	0.035	0.042	0.019
DOE 4.5.2.3	PO-209	OH207-7856-10	10/20/07 04:47	1.92	2.07	2.08	3.85
DOE 4.5.2.3	BI-211	OH207-7856-10	10/20/07 04:47	0.036	0.335	0.335	0.518
DOE 4.5.2.3	BI-212	OH207-7856-10	10/20/07 04:47	0.406	0.134	0.140	0.137
DOE 4.5.2.3	PB-212	OH207-7856-10	10/20/07 04:47	0.681	0.064	0.094	0.033
DOE 4.5.2.3	BI-214	OH207-7856-10	10/20/07 04:47	0.578	0.079	0.098	0.037
DOE 4.5.2.3	PB-214	OH207-7856-10	10/20/07 04:47	0.647	0.075	0.099	0.036
DOE 4.5.2.3	RA-223	OH207-7856-10	10/20/07 04:47	0.224	0.092	0.094	0.105
DOE 4.5.2.3	AC-228	OH207-7856-10	10/20/07 04:47	0.822	0.111	0.138	0.066
DOE 4.5.2.3	PA-233	OH207-7856-10	10/20/07 04:47	-0.004	0.021	0.021	0.036
DOE 4.5.2.3	PA-234M	OH207-7856-10	10/20/07 04:47	-0.159	1.16	1.16	2.01
DOE 4.5.2.3	TH-234	OH207-7856-10	10/20/07 04:47	0.895	0.378	0.389	0.428
DOE 4.5.2.3	U-235	OH207-7856-10	10/20/07 04:47	-0.007	0.078	0.078	0.129
DOE 4.5.2.3	NP-236	OH207-7856-10	10/20/07 04:47	0.026	0.029	0.029	0.045
DOE 4.5.2.3	NP-237	OH207-7856-10	10/20/07 04:47	0.315	0.113	0.117	0.178
DOE 4.5.2.3	NP-239	OH207-7856-10	10/20/07 04:47	-0.044	0.081	0.081	0.130
DOE 4.5.2.3	AM-241	OH207-7856-10	10/20/07 04:47	0.020	0.067	0.067	0.118
DOE 4.5.2.3	AM-243	OH207-7856-10	10/20/07 04:47	0.137	0.045	0.047	0.037
DOE 4.5.2.3	CM-243	OH207-7856-10	10/20/07 04:47	0.006	0.040	0.040	0.068
DOE 4.5.2.3	AM-246	OH207-7856-10	10/20/07 04:47	0.017	0.033	0.033	0.061
DOE 4.5.2.3	CF-249	OH207-7856-10	10/20/07 04:47	0.009	0.013	0.013	0.024

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2083-SD				
Other Sample ID:		Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-11	10/20/07 04:48	0.782	0.252	0.264	0.186
DOE 4.5.2.3	CO-60	OH207-7856-11	10/20/07 04:48	0.007	0.012	0.012	0.024
DOE 4.5.2.3	RH-101	OH207-7856-11	10/20/07 04:48	-0.004	0.017	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7856-11	10/20/07 04:48	0.005	0.042	0.042	0.073
DOE 4.5.2.3	CS-137	OH207-7856-11	10/20/07 04:48	0.008	0.017	0.017	0.031
DOE 4.5.2.3	EU-155	OH207-7856-11	10/20/07 04:48	0.083	0.061	0.062	0.106
DOE 4.5.2.3	TL-208	OH207-7856-11	10/20/07 04:48	0.345	0.053	0.063	0.026
DOE 4.5.2.3	PO-209	OH207-7856-11	10/20/07 04:48	0.193	2.69	2.69	4.80
DOE 4.5.2.3	BI-211	OH207-7856-11	10/20/07 04:48	0.457	0.414	0.417	0.724
DOE 4.5.2.3	BI-212	OH207-7856-11	10/20/07 04:48	0.846	0.245	0.260	0.212
DOE 4.5.2.3	PB-212	OH207-7856-11	10/20/07 04:48	1.03	0.095	0.140	0.043
DOE 4.5.2.3	BI-214	OH207-7856-11	10/20/07 04:48	0.463	0.085	0.096	0.052
DOE 4.5.2.3	PB-214	OH207-7856-11	10/20/07 04:48	0.495	0.078	0.093	0.052
DOE 4.5.2.3	RA-223	OH207-7856-11	10/20/07 04:48	0.305	0.118	0.122	0.137
DOE 4.5.2.3	AC-228	OH207-7856-11	10/20/07 04:48	1.26	0.177	0.217	0.089
DOE 4.5.2.3	PA-233	OH207-7856-11	10/20/07 04:48	0.015	0.029	0.029	0.050
DOE 4.5.2.3	PA-234M	OH207-7856-11	10/20/07 04:48	1.18	1.66	1.66	3.13
DOE 4.5.2.3	TH-234	OH207-7856-11	10/20/07 04:48	1.59	0.482	0.508	0.632
DOE 4.5.2.3	U-235	OH207-7856-11	10/20/07 04:48	0.058	0.104	0.104	0.173
DOE 4.5.2.3	NP-236	OH207-7856-11	10/20/07 04:48	0.048	0.037	0.037	0.061
DOE 4.5.2.3	NP-237	OH207-7856-11	10/20/07 04:48	0.544	0.195	0.202	0.230
DOE 4.5.2.3	NP-239	OH207-7856-11	10/20/07 04:48	-0.070	0.104	0.104	0.176
DOE 4.5.2.3	AM-241	OH207-7856-11	10/20/07 04:48	-0.051	0.095	0.095	0.159
DOE 4.5.2.3	AM-243	OH207-7856-11	10/20/07 04:48	0.193	0.056	0.059	0.054
DOE 4.5.2.3	CM-243	OH207-7856-11	10/20/07 04:48	-0.020	0.055	0.055	0.090
DOE 4.5.2.3	AM-246	OH207-7856-11	10/20/07 04:48	0.018	0.047	0.047	0.085
DOE 4.5.2.3	CF-249	OH207-7856-11	10/20/07 04:48	-0.002	0.018	0.018	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2084-SD				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-12	10/20/07 04:49	1.66	0.447	0.477	0.277
DOE 4.5.2.3	CO-60	OH207-7856-12	10/20/07 04:49	0.003	0.017	0.017	0.030
DOE 4.5.2.3	RH-101	OH207-7856-12	10/20/07 04:49	-0.008	0.019	0.019	0.032
DOE 4.5.2.3	SB-125	OH207-7856-12	10/20/07 04:49	0.045	0.050	0.050	0.090
DOE 4.5.2.3	CS-137	OH207-7856-12	10/20/07 04:49	-0.015	0.021	0.021	0.034
DOE 4.5.2.3	EU-155	OH207-7856-12	10/20/07 04:49	0.020	0.056	0.056	0.097
DOE 4.5.2.3	TL-208	OH207-7856-12	10/20/07 04:49	0.386	0.056	0.068	0.032
DOE 4.5.2.3	PO-209	OH207-7856-12	10/20/07 04:49	1.78	3.11	3.12	5.79
DOE 4.5.2.3	BI-211	OH207-7856-12	10/20/07 04:49	-0.461	0.545	0.547	0.872
DOE 4.5.2.3	BI-212	OH207-7856-12	10/20/07 04:49	0.826	0.259	0.272	0.223
DOE 4.5.2.3	PB-212	OH207-7856-12	10/20/07 04:49	1.24	0.113	0.168	0.051
DOE 4.5.2.3	BI-214	OH207-7856-12	10/20/07 04:49	0.772	0.102	0.128	0.058
DOE 4.5.2.3	PB-214	OH207-7856-12	10/20/07 04:49	0.811	0.106	0.133	0.059
DOE 4.5.2.3	RA-223	OH207-7856-12	10/20/07 04:49	0.448	0.163	0.169	0.153
DOE 4.5.2.3	AC-228	OH207-7856-12	10/20/07 04:49	1.31	0.177	0.220	0.108
DOE 4.5.2.3	PA-233	OH207-7856-12	10/20/07 04:49	-0.001	0.034	0.034	0.057
DOE 4.5.2.3	PA-234M	OH207-7856-12	10/20/07 04:49	3.06	2.11	2.13	4.07
DOE 4.5.2.3	TH-234	OH207-7856-12	10/20/07 04:49	1.02	0.368	0.382	0.530
DOE 4.5.2.3	U-235	OH207-7856-12	10/20/07 04:49	0.154	0.120	0.121	0.209
DOE 4.5.2.3	NP-236	OH207-7856-12	10/20/07 04:49	-0.010	0.033	0.033	0.052
DOE 4.5.2.3	NP-237	OH207-7856-12	10/20/07 04:49	0.410	0.132	0.139	0.190
DOE 4.5.2.3	NP-239	OH207-7856-12	10/20/07 04:49	0.114	0.124	0.124	0.212
DOE 4.5.2.3	AM-241	OH207-7856-12	10/20/07 04:49	-0.099	0.039	0.040	0.059
DOE 4.5.2.3	AM-243	OH207-7856-12	10/20/07 04:49	0.220	0.053	0.057	0.033
DOE 4.5.2.3	CM-243	OH207-7856-12	10/20/07 04:49	-0.025	0.050	0.050	0.085
DOE 4.5.2.3	AM-246	OH207-7856-12	10/20/07 04:49	0.017	0.062	0.062	0.112
DOE 4.5.2.3	CF-249	OH207-7856-12	10/20/07 04:49	-0.004	0.021	0.021	0.037

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2085-SD				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-13	10/20/07 07:52	2.08	0.318	0.380	0.189
DOE 4.5.2.3	CO-60	OH207-7856-13	10/20/07 07:52	0.001	0.012	0.012	0.019
DOE 4.5.2.3	RH-101	OH207-7856-13	10/20/07 07:52	6.2e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7856-13	10/20/07 07:52	0.021	0.039	0.039	0.068
DOE 4.5.2.3	CS-137	OH207-7856-13	10/20/07 07:52	0.209	0.041	0.046	0.027
DOE 4.5.2.3	EU-155	OH207-7856-13	10/20/07 07:52	-0.017	0.052	0.052	0.087
DOE 4.5.2.3	TL-208	OH207-7856-13	10/20/07 07:52	0.263	0.041	0.048	0.026
DOE 4.5.2.3	PO-209	OH207-7856-13	10/20/07 07:52	1.08	2.32	2.32	4.30
DOE 4.5.2.3	BI-211	OH207-7856-13	10/20/07 07:52	-0.116	0.382	0.382	0.659
DOE 4.5.2.3	BI-212	OH207-7856-13	10/20/07 07:52	0.557	0.234	0.241	0.187
DOE 4.5.2.3	PB-212	OH207-7856-13	10/20/07 07:52	0.768	0.075	0.107	0.038
DOE 4.5.2.3	BI-214	OH207-7856-13	10/20/07 07:52	0.614	0.088	0.107	0.044
DOE 4.5.2.3	PB-214	OH207-7856-13	10/20/07 07:52	0.677	0.089	0.111	0.049
DOE 4.5.2.3	RA-223	OH207-7856-13	10/20/07 07:52	0.213	0.129	0.131	0.127
DOE 4.5.2.3	AC-228	OH207-7856-13	10/20/07 07:52	0.896	0.149	0.174	0.090
DOE 4.5.2.3	PA-233	OH207-7856-13	10/20/07 07:52	-0.004	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7856-13	10/20/07 07:52	-0.226	1.68	1.68	2.90
DOE 4.5.2.3	TH-234	OH207-7856-13	10/20/07 07:52	1.10	0.373	0.389	0.550
DOE 4.5.2.3	U-235	OH207-7856-13	10/20/07 07:52	0.088	0.096	0.097	0.164
DOE 4.5.2.3	NP-236	OH207-7856-13	10/20/07 07:52	1.9e-04	0.035	0.035	0.053
DOE 4.5.2.3	NP-237	OH207-7856-13	10/20/07 07:52	0.370	0.153	0.157	0.221
DOE 4.5.2.3	NP-239	OH207-7856-13	10/20/07 07:52	0.021	0.097	0.097	0.160
DOE 4.5.2.3	AM-241	OH207-7856-13	10/20/07 07:52	0.025	0.083	0.083	0.146
DOE 4.5.2.3	AM-243	OH207-7856-13	10/20/07 07:52	0.160	0.052	0.054	0.047
DOE 4.5.2.3	CM-243	OH207-7856-13	10/20/07 07:52	-0.024	0.047	0.047	0.079
DOE 4.5.2.3	AM-246	OH207-7856-13	10/20/07 07:52	0.033	0.042	0.042	0.080
DOE 4.5.2.3	CF-249	OH207-7856-13	10/20/07 07:52	0.003	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2086-SD				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-14	10/20/07 07:56	3.09	0.423	0.524	0.177
DOE 4.5.2.3	CO-60	OH207-7856-14	10/20/07 07:56	-6.8e-04	0.012	0.012	0.022
DOE 4.5.2.3	RH-101	OH207-7856-14	10/20/07 07:56	8.4e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7856-14	10/20/07 07:56	0.018	0.038	0.038	0.067
DOE 4.5.2.3	CS-137	OH207-7856-14	10/20/07 07:56	0.056	0.027	0.028	0.026
DOE 4.5.2.3	EU-155	OH207-7856-14	10/20/07 07:56	0.061	0.056	0.056	0.096
DOE 4.5.2.3	TL-208	OH207-7856-14	10/20/07 07:56	0.402	0.055	0.068	0.025
DOE 4.5.2.3	PO-209	OH207-7856-14	10/20/07 07:56	-1.64	2.62	2.63	4.31
DOE 4.5.2.3	BI-211	OH207-7856-14	10/20/07 07:56	0.286	0.440	0.441	0.708
DOE 4.5.2.3	BI-212	OH207-7856-14	10/20/07 07:56	0.748	0.204	0.217	0.199
DOE 4.5.2.3	PB-212	OH207-7856-14	10/20/07 07:56	1.06	0.095	0.143	0.041
DOE 4.5.2.3	BI-214	OH207-7856-14	10/20/07 07:56	0.567	0.093	0.109	0.047
DOE 4.5.2.3	PB-214	OH207-7856-14	10/20/07 07:56	0.566	0.071	0.091	0.045
DOE 4.5.2.3	RA-223	OH207-7856-14	10/20/07 07:56	0.292	0.111	0.114	0.128
DOE 4.5.2.3	AC-228	OH207-7856-14	10/20/07 07:56	1.37	0.183	0.228	0.084
DOE 4.5.2.3	PA-233	OH207-7856-14	10/20/07 07:56	0.001	0.026	0.026	0.044
DOE 4.5.2.3	PA-234M	OH207-7856-14	10/20/07 07:56	0.954	1.59	1.60	2.91
DOE 4.5.2.3	TH-234	OH207-7856-14	10/20/07 07:56	1.20	0.370	0.389	0.545
DOE 4.5.2.3	U-235	OH207-7856-14	10/20/07 07:56	0.020	0.100	0.100	0.164
DOE 4.5.2.3	NP-236	OH207-7856-14	10/20/07 07:56	0.018	0.034	0.034	0.055
DOE 4.5.2.3	NP-237	OH207-7856-14	10/20/07 07:56	0.472	0.170	0.176	0.194
DOE 4.5.2.3	NP-239	OH207-7856-14	10/20/07 07:56	-0.084	0.096	0.096	0.160
DOE 4.5.2.3	AM-241	OH207-7856-14	10/20/07 07:56	-0.052	0.079	0.079	0.132
DOE 4.5.2.3	AM-243	OH207-7856-14	10/20/07 07:56	0.202	0.053	0.057	0.046
DOE 4.5.2.3	CM-243	OH207-7856-14	10/20/07 07:56	0.060	0.051	0.051	0.087
DOE 4.5.2.3	AM-246	OH207-7856-14	10/20/07 07:56	0.041	0.043	0.043	0.080
DOE 4.5.2.3	CF-249	OH207-7856-14	10/20/07 07:56	-0.007	0.017	0.017	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2087-SD				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-15	10/20/07 07:58	1.52	0.440	0.465	0.287
DOE 4.5.2.3	CO-60	OH207-7856-15	10/20/07 07:58	0.002	0.020	0.020	0.036
DOE 4.5.2.3	RH-101	OH207-7856-15	10/20/07 07:58	0.015	0.020	0.020	0.035
DOE 4.5.2.3	SB-125	OH207-7856-15	10/20/07 07:58	0.035	0.051	0.051	0.093
DOE 4.5.2.3	CS-137	OH207-7856-15	10/20/07 07:58	0.052	0.049	0.049	0.038
DOE 4.5.2.3	EU-155	OH207-7856-15	10/20/07 07:58	0.031	0.058	0.058	0.101
DOE 4.5.2.3	TL-208	OH207-7856-15	10/20/07 07:58	0.323	0.055	0.064	0.034
DOE 4.5.2.3	PO-209	OH207-7856-15	10/20/07 07:58	3.23	3.82	3.84	7.26
DOE 4.5.2.3	BI-211	OH207-7856-15	10/20/07 07:58	-0.376	0.628	0.629	1.02
DOE 4.5.2.3	BI-212	OH207-7856-15	10/20/07 07:58	0.492	0.331	0.335	0.248
DOE 4.5.2.3	PB-212	OH207-7856-15	10/20/07 07:58	1.03	0.102	0.145	0.055
DOE 4.5.2.3	BI-214	OH207-7856-15	10/20/07 07:58	0.389	0.082	0.091	0.061
DOE 4.5.2.3	PB-214	OH207-7856-15	10/20/07 07:58	0.500	0.082	0.096	0.059
DOE 4.5.2.3	RA-223	OH207-7856-15	10/20/07 07:58	0.454	0.205	0.210	0.156
DOE 4.5.2.3	AC-228	OH207-7856-15	10/20/07 07:58	1.03	0.167	0.196	0.120
DOE 4.5.2.3	PA-233	OH207-7856-15	10/20/07 07:58	0.043	0.037	0.037	0.066
DOE 4.5.2.3	PA-234M	OH207-7856-15	10/20/07 07:58	0.525	2.38	2.38	4.30
DOE 4.5.2.3	TH-234	OH207-7856-15	10/20/07 07:58	1.60	0.424	0.453	0.589
DOE 4.5.2.3	U-235	OH207-7856-15	10/20/07 07:58	0.036	0.119	0.119	0.206
DOE 4.5.2.3	NP-236	OH207-7856-15	10/20/07 07:58	0.021	0.037	0.037	0.054
DOE 4.5.2.3	NP-237	OH207-7856-15	10/20/07 07:58	0.465	0.180	0.186	0.168
DOE 4.5.2.3	NP-239	OH207-7856-15	10/20/07 07:58	-0.002	0.130	0.130	0.221
DOE 4.5.2.3	AM-241	OH207-7856-15	10/20/07 07:58	-0.133	0.043	0.045	0.063
DOE 4.5.2.3	AM-243	OH207-7856-15	10/20/07 07:58	0.194	0.051	0.055	0.033
DOE 4.5.2.3	CM-243	OH207-7856-15	10/20/07 07:58	0.015	0.052	0.052	0.090
DOE 4.5.2.3	AM-246	OH207-7856-15	10/20/07 07:58	0.039	0.063	0.064	0.121
DOE 4.5.2.3	CF-249	OH207-7856-15	10/20/07 07:58	0.011	0.022	0.022	0.040

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2088-SD

Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7856 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	OH207-7856-16	10/20/07 11:00	1.79	0.341	0.385	0.244
DOE 4.5.2.3	CO-60	OH207-7856-16	10/20/07 11:00	-0.009	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7856-16	10/20/07 11:00	-0.001	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7856-16	10/20/07 11:00	0.011	0.044	0.044	0.076
DOE 4.5.2.3	CS-137	OH207-7856-16	10/20/07 11:00	-0.014	0.017	0.017	0.029
DOE 4.5.2.3	EU-155	OH207-7856-16	10/20/07 11:00	0.095	0.065	0.066	0.114
DOE 4.5.2.3	TL-208	OH207-7856-16	10/20/07 11:00	0.365	0.056	0.067	0.029
DOE 4.5.2.3	PO-209	OH207-7856-16	10/20/07 11:00	-1.66	3.02	3.02	5.05
DOE 4.5.2.3	BI-211	OH207-7856-16	10/20/07 11:00	-0.604	0.452	0.457	0.712
DOE 4.5.2.3	BI-212	OH207-7856-16	10/20/07 11:00	0.906	0.237	0.254	0.182
DOE 4.5.2.3	PB-212	OH207-7856-16	10/20/07 11:00	1.19	0.109	0.161	0.046
DOE 4.5.2.3	BI-214	OH207-7856-16	10/20/07 11:00	0.748	0.115	0.137	0.055
DOE 4.5.2.3	PB-214	OH207-7856-16	10/20/07 11:00	0.823	0.099	0.128	0.053
DOE 4.5.2.3	RA-223	OH207-7856-16	10/20/07 11:00	0.324	0.145	0.149	0.139
DOE 4.5.2.3	AC-228	OH207-7856-16	10/20/07 11:00	1.38	0.176	0.224	0.091
DOE 4.5.2.3	PA-233	OH207-7856-16	10/20/07 11:00	-0.019	0.029	0.029	0.049
DOE 4.5.2.3	PA-234M	OH207-7856-16	10/20/07 11:00	0.482	1.71	1.71	3.07
DOE 4.5.2.3	TH-234	OH207-7856-16	10/20/07 11:00	1.50	0.460	0.484	0.657
DOE 4.5.2.3	U-235	OH207-7856-16	10/20/07 11:00	0.045	0.109	0.109	0.184
DOE 4.5.2.3	NP-236	OH207-7856-16	10/20/07 11:00	0.034	0.038	0.038	0.063
DOE 4.5.2.3	NP-237	OH207-7856-16	10/20/07 11:00	0.375	0.162	0.166	0.268
DOE 4.5.2.3	NP-239	OH207-7856-16	10/20/07 11:00	0.058	0.111	0.111	0.185
DOE 4.5.2.3	AM-241	OH207-7856-16	10/20/07 11:00	-0.058	0.100	0.100	0.170
DOE 4.5.2.3	AM-243	OH207-7856-16	10/20/07 11:00	0.209	0.060	0.064	0.059
DOE 4.5.2.3	CM-243	OH207-7856-16	10/20/07 11:00	-0.007	0.058	0.058	0.098
DOE 4.5.2.3	AM-246	OH207-7856-16	10/20/07 11:00	1.4e-04	0.048	0.048	0.084
DOE 4.5.2.3	CF-249	OH207-7856-16	10/20/07 11:00	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-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2089-SD				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-17	10/20/07 11:04	2.01	0.335	0.391	0.180
DOE 4.5.2.3	CO-60	OH207-7856-17	10/20/07 11:04	0.004	0.012	0.012	0.023
DOE 4.5.2.3	RH-101	OH207-7856-17	10/20/07 11:04	-0.013	0.016	0.016	0.024
DOE 4.5.2.3	SB-125	OH207-7856-17	10/20/07 11:04	0.019	0.039	0.039	0.067
DOE 4.5.2.3	CS-137	OH207-7856-17	10/20/07 11:04	-6.0e-04	0.016	0.016	0.027
DOE 4.5.2.3	EU-155	OH207-7856-17	10/20/07 11:04	0.055	0.043	0.043	0.090
DOE 4.5.2.3	TL-208	OH207-7856-17	10/20/07 11:04	0.351	0.053	0.064	0.024
DOE 4.5.2.3	PO-209	OH207-7856-17	10/20/07 11:04	-1.67	2.75	2.75	4.53
DOE 4.5.2.3	BI-211	OH207-7856-17	10/20/07 11:04	0.401	0.419	0.421	0.704
DOE 4.5.2.3	BI-212	OH207-7856-17	10/20/07 11:04	0.666	0.229	0.239	0.195
DOE 4.5.2.3	PB-212	OH207-7856-17	10/20/07 11:04	0.940	0.087	0.128	0.040
DOE 4.5.2.3	BI-214	OH207-7856-17	10/20/07 11:04	0.584	0.090	0.107	0.047
DOE 4.5.2.3	PB-214	OH207-7856-17	10/20/07 11:04	0.632	0.078	0.101	0.051
DOE 4.5.2.3	RA-223	OH207-7856-17	10/20/07 11:04	0.337	0.140	0.144	0.122
DOE 4.5.2.3	AC-228	OH207-7856-17	10/20/07 11:04	1.13	0.173	0.206	0.085
DOE 4.5.2.3	PA-233	OH207-7856-17	10/20/07 11:04	-0.003	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7856-17	10/20/07 11:04	1.22	1.46	1.47	2.78
DOE 4.5.2.3	TH-234	OH207-7856-17	10/20/07 11:04	1.58	0.462	0.488	0.552
DOE 4.5.2.3	U-235	OH207-7856-17	10/20/07 11:04	0.044	0.098	0.098	0.162
DOE 4.5.2.3	NP-236	OH207-7856-17	10/20/07 11:04	-0.002	0.033	0.033	0.052
DOE 4.5.2.3	NP-237	OH207-7856-17	10/20/07 11:04	0.638	0.188	0.198	0.188
DOE 4.5.2.3	NP-239	OH207-7856-17	10/20/07 11:04	-0.005	0.095	0.095	0.164
DOE 4.5.2.3	AM-241	OH207-7856-17	10/20/07 11:04	0.011	0.080	0.080	0.138
DOE 4.5.2.3	AM-243	OH207-7856-17	10/20/07 11:04	0.186	0.054	0.057	0.046
DOE 4.5.2.3	CM-243	OH207-7856-17	10/20/07 11:04	0.051	0.040	0.040	0.082
DOE 4.5.2.3	AM-246	OH207-7856-17	10/20/07 11:04	0.031	0.044	0.044	0.081
DOE 4.5.2.3	CF-249	OH207-7856-17	10/20/07 11:04	0.010	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2090-SD				
Other Sample ID:		Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7856	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	OH207-7856-18	10/20/07 11:07	1.62	0.390	0.422	0.283
DOE 4.5.2.3	CO-60	OH207-7856-18	10/20/07 11:07	0.005	0.018	0.018	0.022
DOE 4.5.2.3	RH-101	OH207-7856-18	10/20/07 11:07	0.004	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7856-18	10/20/07 11:07	-0.002	0.044	0.044	0.077
DOE 4.5.2.3	CS-137	OH207-7856-18	10/20/07 11:07	0.037	0.021	0.021	0.039
DOE 4.5.2.3	EU-155	OH207-7856-18	10/20/07 11:07	0.045	0.049	0.049	0.087
DOE 4.5.2.3	TL-208	OH207-7856-18	10/20/07 11:07	0.181	0.038	0.042	0.029
DOE 4.5.2.3	PO-209	OH207-7856-18	10/20/07 11:07	0.931	3.09	3.09	5.73
DOE 4.5.2.3	BI-211	OH207-7856-18	10/20/07 11:07	-0.219	0.440	0.440	0.729
DOE 4.5.2.3	BI-212	OH207-7856-18	10/20/07 11:07	0.339	0.233	0.235	0.212
DOE 4.5.2.3	PB-212	OH207-7856-18	10/20/07 11:07	0.505	0.070	0.086	0.055
DOE 4.5.2.3	BI-214	OH207-7856-18	10/20/07 11:07	0.305	0.077	0.083	0.052
DOE 4.5.2.3	PB-214	OH207-7856-18	10/20/07 11:07	0.380	0.071	0.080	0.053
DOE 4.5.2.3	RA-223	OH207-7856-18	10/20/07 11:07	0.263	0.095	0.099	0.174
DOE 4.5.2.3	AC-228	OH207-7856-18	10/20/07 11:07	0.692	0.137	0.153	0.097
DOE 4.5.2.3	PA-233	OH207-7856-18	10/20/07 11:07	-0.003	0.030	0.030	0.051
DOE 4.5.2.3	PA-234M	OH207-7856-18	10/20/07 11:07	2.72	2.09	2.11	4.09
DOE 4.5.2.3	TH-234	OH207-7856-18	10/20/07 11:07	0.871	0.359	0.370	0.396
DOE 4.5.2.3	U-235	OH207-7856-18	10/20/07 11:07	-0.009	0.104	0.104	0.177
DOE 4.5.2.3	NP-236	OH207-7856-18	10/20/07 11:07	0.040	0.031	0.031	0.046
DOE 4.5.2.3	NP-237	OH207-7856-18	10/20/07 11:07	0.082	0.106	0.107	0.177
DOE 4.5.2.3	NP-239	OH207-7856-18	10/20/07 11:07	0.030	0.102	0.102	0.175
DOE 4.5.2.3	AM-241	OH207-7856-18	10/20/07 11:07	0.031	0.037	0.037	0.056
DOE 4.5.2.3	AM-243	OH207-7856-18	10/20/07 11:07	0.117	0.036	0.038	0.029
DOE 4.5.2.3	CM-243	OH207-7856-18	10/20/07 11:07	0.009	0.044	0.044	0.077
DOE 4.5.2.3	AM-246	OH207-7856-18	10/20/07 11:07	0.029	0.055	0.055	0.104
DOE 4.5.2.3	CF-249	OH207-7856-18	10/20/07 11:07	0.037	0.020	0.020	0.037

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2091-SD
Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7856 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	OH207-7856-19	10/20/07 14:11	0.963	0.275	0.292	0.177
DOE 4.5.2.3	CO-60	OH207-7856-19	10/20/07 14:11	-0.004	0.011	0.011	0.019
DOE 4.5.2.3	RH-101	OH207-7856-19	10/20/07 14:11	-0.010	0.014	0.014	0.022
DOE 4.5.2.3	SB-125	OH207-7856-19	10/20/07 14:11	0.006	0.034	0.034	0.059
DOE 4.5.2.3	CS-137	OH207-7856-19	10/20/07 14:11	-0.001	0.014	0.014	0.026
DOE 4.5.2.3	EU-155	OH207-7856-19	10/20/07 14:11	0.067	0.050	0.050	0.088
DOE 4.5.2.3	TL-208	OH207-7856-19	10/20/07 14:11	0.247	0.038	0.045	0.025
DOE 4.5.2.3	PO-209	OH207-7856-19	10/20/07 14:11	0.963	2.26	2.26	4.15
DOE 4.5.2.3	BI-211	OH207-7856-19	10/20/07 14:11	-0.183	0.359	0.359	0.608
DOE 4.5.2.3	BI-212	OH207-7856-19	10/20/07 14:11	0.507	0.165	0.173	0.148
DOE 4.5.2.3	PB-212	OH207-7856-19	10/20/07 14:11	0.695	0.069	0.098	0.036
DOE 4.5.2.3	BI-214	OH207-7856-19	10/20/07 14:11	0.641	0.091	0.111	0.045
DOE 4.5.2.3	PB-214	OH207-7856-19	10/20/07 14:11	0.670	0.077	0.102	0.042
DOE 4.5.2.3	RA-223	OH207-7856-19	10/20/07 14:11	0.274	0.111	0.114	0.116
DOE 4.5.2.3	AC-228	OH207-7856-19	10/20/07 14:11	0.759	0.126	0.147	0.078
DOE 4.5.2.3	PA-233	OH207-7856-19	10/20/07 14:11	-0.018	0.023	0.023	0.039
DOE 4.5.2.3	PA-234M	OH207-7856-19	10/20/07 14:11	0.789	1.48	1.49	2.71
DOE 4.5.2.3	TH-234	OH207-7856-19	10/20/07 14:11	1.36	0.365	0.390	0.356
DOE 4.5.2.3	U-235	OH207-7856-19	10/20/07 14:11	0.056	0.088	0.088	0.149
DOE 4.5.2.3	NP-236	OH207-7856-19	10/20/07 14:11	0.019	0.030	0.030	0.047
DOE 4.5.2.3	NP-237	OH207-7856-19	10/20/07 14:11	0.568	0.170	0.179	0.170
DOE 4.5.2.3	NP-239	OH207-7856-19	10/20/07 14:11	0.030	0.091	0.091	0.151
DOE 4.5.2.3	AM-241	OH207-7856-19	10/20/07 14:11	0.049	0.085	0.085	0.136
DOE 4.5.2.3	AM-243	OH207-7856-19	10/20/07 14:11	0.155	0.048	0.051	0.041
DOE 4.5.2.3	CM-243	OH207-7856-19	10/20/07 14:11	0.018	0.045	0.045	0.077
DOE 4.5.2.3	AM-246	OH207-7856-19	10/20/07 14:11	0.010	0.038	0.038	0.069
DOE 4.5.2.3	CF-249	OH207-7856-19	10/20/07 14:11	0.010	0.015	0.015	0.027

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2092-SD
Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7856 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	OH207-7856-20	10/20/07 14:14	2.19	0.323	0.391	0.173
DOE 4.5.2.3	CO-60	OH207-7856-20	10/20/07 14:14	-0.002	0.010	0.010	0.017
DOE 4.5.2.3	RH-101	OH207-7856-20	10/20/07 14:14	0.006	0.012	0.012	0.020
DOE 4.5.2.3	SB-125	OH207-7856-20	10/20/07 14:14	0.023	0.028	0.029	0.050
DOE 4.5.2.3	CS-137	OH207-7856-20	10/20/07 14:14	-0.006	0.012	0.012	0.021
DOE 4.5.2.3	EU-155	OH207-7856-20	10/20/07 14:14	0.039	0.043	0.043	0.074
DOE 4.5.2.3	TL-208	OH207-7856-20	10/20/07 14:14	0.259	0.040	0.047	0.019
DOE 4.5.2.3	PO-209	OH207-7856-20	10/20/07 14:14	0.380	2.03	2.03	3.59
DOE 4.5.2.3	BI-211	OH207-7856-20	10/20/07 14:14	-0.073	0.321	0.321	0.548
DOE 4.5.2.3	BI-212	OH207-7856-20	10/20/07 14:14	0.552	0.151	0.161	0.139
DOE 4.5.2.3	PB-212	OH207-7856-20	10/20/07 14:14	0.790	0.071	0.106	0.031
DOE 4.5.2.3	BI-214	OH207-7856-20	10/20/07 14:14	0.544	0.077	0.094	0.034
DOE 4.5.2.3	PB-214	OH207-7856-20	10/20/07 14:14	0.503	0.060	0.078	0.038
DOE 4.5.2.3	RA-223	OH207-7856-20	10/20/07 14:14	0.175	0.102	0.104	0.097
DOE 4.5.2.3	AC-228	OH207-7856-20	10/20/07 14:14	0.891	0.119	0.149	0.066
DOE 4.5.2.3	PA-233	OH207-7856-20	10/20/07 14:14	-0.010	0.020	0.020	0.033
DOE 4.5.2.3	PA-234M	OH207-7856-20	10/20/07 14:14	1.00	1.20	1.20	2.22
DOE 4.5.2.3	TH-234	OH207-7856-20	10/20/07 14:14	0.903	0.348	0.360	0.398
DOE 4.5.2.3	U-235	OH207-7856-20	10/20/07 14:14	0.035	0.079	0.079	0.130
DOE 4.5.2.3	NP-236	OH207-7856-20	10/20/07 14:14	-0.017	0.027	0.027	0.040
DOE 4.5.2.3	NP-237	OH207-7856-20	10/20/07 14:14	0.365	0.127	0.133	0.143
DOE 4.5.2.3	NP-239	OH207-7856-20	10/20/07 14:14	-0.011	0.073	0.073	0.126
DOE 4.5.2.3	AM-241	OH207-7856-20	10/20/07 14:14	-0.013	0.061	0.061	0.103
DOE 4.5.2.3	AM-243	OH207-7856-20	10/20/07 14:14	0.118	0.035	0.037	0.035
DOE 4.5.2.3	CM-243	OH207-7856-20	10/20/07 14:14	0.030	0.039	0.039	0.066
DOE 4.5.2.3	AM-246	OH207-7856-20	10/20/07 14:14	0.027	0.035	0.035	0.065
DOE 4.5.2.3	CF-249	OH207-7856-20	10/20/07 14:14	0.003	0.013	0.013	0.022

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2093-SD

Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7857 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	OH207-7857-01	10/20/07 21:00	2.02	0.354	0.407	0.213
DOE 4.5.2.3	CO-60	OH207-7857-01	10/20/07 21:00	-0.004	0.010	0.010	0.017
DOE 4.5.2.3	RH-101	OH207-7857-01	10/20/07 21:00	-0.004	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7857-01	10/20/07 21:00	0.013	0.035	0.035	0.062
DOE 4.5.2.3	CS-137	OH207-7857-01	10/20/07 21:00	0.155	0.029	0.033	0.025
DOE 4.5.2.3	EU-155	OH207-7857-01	10/20/07 21:00	0.087	0.050	0.051	0.089
DOE 4.5.2.3	TL-208	OH207-7857-01	10/20/07 21:00	0.278	0.043	0.052	0.021
DOE 4.5.2.3	PO-209	OH207-7857-01	10/20/07 21:00	-0.189	2.39	2.39	4.18
DOE 4.5.2.3	BI-211	OH207-7857-01	10/20/07 21:00	-0.449	0.377	0.379	0.602
DOE 4.5.2.3	BI-212	OH207-7857-01	10/20/07 21:00	0.604	0.184	0.194	0.153
DOE 4.5.2.3	PB-212	OH207-7857-01	10/20/07 21:00	0.741	0.073	0.104	0.038
DOE 4.5.2.3	BI-214	OH207-7857-01	10/20/07 21:00	0.691	0.093	0.116	0.046
DOE 4.5.2.3	PB-214	OH207-7857-01	10/20/07 21:00	0.769	0.090	0.119	0.043
DOE 4.5.2.3	RA-223	OH207-7857-01	10/20/07 21:00	0.307	0.127	0.130	0.116
DOE 4.5.2.3	AC-228	OH207-7857-01	10/20/07 21:00	0.954	0.122	0.155	0.072
DOE 4.5.2.3	PA-233	OH207-7857-01	10/20/07 21:00	0.006	0.023	0.023	0.041
DOE 4.5.2.3	PA-234M	OH207-7857-01	10/20/07 21:00	0.849	1.46	1.46	2.67
DOE 4.5.2.3	TH-234	OH207-7857-01	10/20/07 21:00	0.836	0.310	0.322	0.504
DOE 4.5.2.3	U-235	OH207-7857-01	10/20/07 21:00	-0.035	0.093	0.093	0.152
DOE 4.5.2.3	NP-236	OH207-7857-01	10/20/07 21:00	-0.005	0.029	0.029	0.049
DOE 4.5.2.3	NP-237	OH207-7857-01	10/20/07 21:00	0.241	0.157	0.159	0.211
DOE 4.5.2.3	NP-239	OH207-7857-01	10/20/07 21:00	-0.019	0.091	0.091	0.148
DOE 4.5.2.3	AM-241	OH207-7857-01	10/20/07 21:00	-0.056	0.078	0.079	0.133
DOE 4.5.2.3	AM-243	OH207-7857-01	10/20/07 21:00	0.187	0.059	0.062	0.042
DOE 4.5.2.3	CM-243	OH207-7857-01	10/20/07 21:00	-0.052	0.046	0.047	0.075
DOE 4.5.2.3	AM-246	OH207-7857-01	10/20/07 21:00	7.7e-06	0.040	0.040	0.070
DOE 4.5.2.3	CF-249	OH207-7857-01	10/20/07 21:00	0.003	0.016	0.016	0.027

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7857-LC1	SCAQC-7857-LD1		SCAQC-7857-PB1

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Radioanalytical Results

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2094-SD

Other Sample ID: Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7857 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	OH207-7857-02	10/20/07 21:01	3.54	0.438	0.563	0.193
DOE 4.5.2.3	CO-60	OH207-7857-02	10/20/07 21:01	-7.7e-04	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7857-02	10/20/07 21:01	-3.1e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7857-02	10/20/07 21:01	-0.003	0.036	0.036	0.061
DOE 4.5.2.3	CS-137	OH207-7857-02	10/20/07 21:01	0.015	0.015	0.015	0.028
DOE 4.5.2.3	EU-155	OH207-7857-02	10/20/07 21:01	0.094	0.072	0.073	0.087
DOE 4.5.2.3	TL-208	OH207-7857-02	10/20/07 21:01	0.419	0.057	0.071	0.023
DOE 4.5.2.3	PO-209	OH207-7857-02	10/20/07 21:01	-0.024	2.44	2.44	4.26
DOE 4.5.2.3	BI-211	OH207-7857-02	10/20/07 21:01	0.581	0.395	0.399	0.683
DOE 4.5.2.3	BI-212	OH207-7857-02	10/20/07 21:01	0.798	0.221	0.235	0.178
DOE 4.5.2.3	PB-212	OH207-7857-02	10/20/07 21:01	1.06	0.095	0.142	0.039
DOE 4.5.2.3	BI-214	OH207-7857-02	10/20/07 21:01	0.589	0.089	0.107	0.047
DOE 4.5.2.3	PB-214	OH207-7857-02	10/20/07 21:01	0.576	0.070	0.090	0.048
DOE 4.5.2.3	RA-223	OH207-7857-02	10/20/07 21:01	0.336	0.124	0.128	0.126
DOE 4.5.2.3	AC-228	OH207-7857-02	10/20/07 21:01	1.34	0.169	0.215	0.075
DOE 4.5.2.3	PA-233	OH207-7857-02	10/20/07 21:01	-0.007	0.025	0.025	0.042
DOE 4.5.2.3	PA-234M	OH207-7857-02	10/20/07 21:01	0.971	1.57	1.57	2.85
DOE 4.5.2.3	TH-234	OH207-7857-02	10/20/07 21:01	1.58	0.432	0.460	0.504
DOE 4.5.2.3	U-235	OH207-7857-02	10/20/07 21:01	0.087	0.095	0.095	0.158
DOE 4.5.2.3	NP-236	OH207-7857-02	10/20/07 21:01	0.040	0.034	0.034	0.053
DOE 4.5.2.3	NP-237	OH207-7857-02	10/20/07 21:01	0.789	0.202	0.217	0.184
DOE 4.5.2.3	NP-239	OH207-7857-02	10/20/07 21:01	0.015	0.092	0.092	0.160
DOE 4.5.2.3	AM-241	OH207-7857-02	10/20/07 21:01	0.016	0.075	0.075	0.129
DOE 4.5.2.3	AM-243	OH207-7857-02	10/20/07 21:01	0.199	0.052	0.056	0.044
DOE 4.5.2.3	CM-243	OH207-7857-02	10/20/07 21:01	0.033	0.054	0.054	0.082
DOE 4.5.2.3	AM-246	OH207-7857-02	10/20/07 21:01	-0.010	0.045	0.045	0.076
DOE 4.5.2.3	CF-249	OH207-7857-02	10/20/07 21:01	0.009	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7857-LC1	SCAQC-7857-LD1		SCAQC-7857-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				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-7854-LC1	10/18/07 05:32	32.0	2.02	3.78	0.098
DOE 4.5.2.3	CS-137	SCAQC-7854-LC1	10/18/07 05:32	30.2	2.22	3.75	0.188
DOE 4.5.2.3	AM-241	SCAQC-7854-LC1	10/18/07 05:32	77.2	4.92	9.15	0.330

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: LC1 Collection Date: 9/10/2007 9:00:00 AM Date Received: 9/10/2007 9:00:00
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-7855-LC1	10/19/07 07:51	31.7	1.82	3.66	0.090
DOE 4.5.2.3	CS-137	SCAQC-7855-LC1	10/19/07 07:51	30.5	3.49	4.64	0.165
DOE 4.5.2.3	AM-241	SCAQC-7855-LC1	10/19/07 07:51	76.1	5.12	9.17	0.981

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7855-LC1	SCAQC-7855-LD1		SCAQC-7855-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				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-7856-LC1	10/19/07 09:13	31.6	1.81	3.64	0.105
DOE 4.5.2.3	CS-137	SCAQC-7856-LC1	10/19/07 09:13	30.5	3.50	4.64	0.165
DOE 4.5.2.3	AM-241	SCAQC-7856-LC1	10/19/07 09:13	73.7	4.98	8.89	1.00

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				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-7857-LC1	10/20/07 17:39	31.3	1.97	3.70	0.092
DOE 4.5.2.3	CS-137	SCAQC-7857-LC1	10/20/07 17:39	30.6	3.32	4.51	0.159
DOE 4.5.2.3	AM-241	SCAQC-7857-LC1	10/20/07 17:39	70.2	5.71	9.05	1.00

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7857-LC1	SCAQC-7857-LD1		SCAQC-7857-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2073-ST

Other Sample ID: LD1 Collection Date: 8/27/2007 Date Received: 9/10/2007 9:00:00

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-7854-LD1	10/18/07 06:34	3.04	0.411	0.511	0.204
DOE 4.5.2.3	CO-60	SCAQC-7854-LD1	10/18/07 06:34	-6.7e-05	0.014	0.014	0.026
DOE 4.5.2.3	RH-101	SCAQC-7854-LD1	10/18/07 06:34	8.8e-04	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	SCAQC-7854-LD1	10/18/07 06:34	-7.2e-04	0.041	0.041	0.071
DOE 4.5.2.3	CS-137	SCAQC-7854-LD1	10/18/07 06:34	0.092	0.031	0.032	0.029
DOE 4.5.2.3	EU-155	SCAQC-7854-LD1	10/18/07 06:34	0.044	0.046	0.047	0.082
DOE 4.5.2.3	TL-208	SCAQC-7854-LD1	10/18/07 06:34	0.242	0.038	0.045	0.028
DOE 4.5.2.3	PO-209	SCAQC-7854-LD1	10/18/07 06:34	1.42	2.87	2.87	5.32
DOE 4.5.2.3	BI-211	SCAQC-7854-LD1	10/18/07 06:34	0.091	0.465	0.465	0.809
DOE 4.5.2.3	BI-212	SCAQC-7854-LD1	10/18/07 06:34	0.494	0.198	0.204	0.195
DOE 4.5.2.3	PB-212	SCAQC-7854-LD1	10/18/07 06:34	0.725	0.074	0.103	0.042
DOE 4.5.2.3	BI-214	SCAQC-7854-LD1	10/18/07 06:34	0.462	0.083	0.095	0.053
DOE 4.5.2.3	PB-214	SCAQC-7854-LD1	10/18/07 06:34	0.432	0.079	0.090	0.055
DOE 4.5.2.3	RA-223	SCAQC-7854-LD1	10/18/07 06:34	0.338	0.149	0.153	0.130
DOE 4.5.2.3	AC-228	SCAQC-7854-LD1	10/18/07 06:34	0.724	0.139	0.156	0.088
DOE 4.5.2.3	PA-233	SCAQC-7854-LD1	10/18/07 06:34	-0.003	0.028	0.028	0.047
DOE 4.5.2.3	PA-234M	SCAQC-7854-LD1	10/18/07 06:34	2.00	1.93	1.94	3.65
DOE 4.5.2.3	TH-234	SCAQC-7854-LD1	10/18/07 06:34	1.02	0.323	0.339	0.441
DOE 4.5.2.3	U-235	SCAQC-7854-LD1	10/18/07 06:34	0.020	0.095	0.095	0.163
DOE 4.5.2.3	NP-236	SCAQC-7854-LD1	10/18/07 06:34	0.036	0.029	0.029	0.044
DOE 4.5.2.3	NP-237	SCAQC-7854-LD1	10/18/07 06:34	0.437	0.128	0.135	0.128
DOE 4.5.2.3	NP-239	SCAQC-7854-LD1	10/18/07 06:34	-0.006	0.101	0.101	0.171
DOE 4.5.2.3	AM-241	SCAQC-7854-LD1	10/18/07 06:34	-0.079	0.031	0.032	0.047
DOE 4.5.2.3	AM-243	SCAQC-7854-LD1	10/18/07 06:34	0.134	0.039	0.041	0.026
DOE 4.5.2.3	CM-243	SCAQC-7854-LD1	10/18/07 06:34	0.015	0.041	0.041	0.071
DOE 4.5.2.3	AM-246	SCAQC-7854-LD1	10/18/07 06:34	-0.019	0.052	0.052	0.089
DOE 4.5.2.3	CF-249	SCAQC-7854-LD1	10/18/07 06:34	0.013	0.018	0.018	0.032

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7854-LD1	OH207-7854-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2073-ST				
Other Sample ID:	LD1	Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2093-ST
Other Sample ID: LD1 Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00
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-7855-LD1	10/19/07 10:35	2.01	0.308	0.367	0.192
DOE 4.5.2.3	CO-60	SCAQC-7855-LD1	10/19/07 10:35	-0.002	0.013	0.013	0.021
DOE 4.5.2.3	RH-101	SCAQC-7855-LD1	10/19/07 10:35	-0.002	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	SCAQC-7855-LD1	10/19/07 10:35	-0.006	0.040	0.040	0.068
DOE 4.5.2.3	CS-137	SCAQC-7855-LD1	10/19/07 10:35	0.269	0.043	0.050	0.027
DOE 4.5.2.3	EU-155	SCAQC-7855-LD1	10/19/07 10:35	0.089	0.065	0.066	0.087
DOE 4.5.2.3	TL-208	SCAQC-7855-LD1	10/19/07 10:35	0.259	0.042	0.049	0.023
DOE 4.5.2.3	PO-209	SCAQC-7855-LD1	10/19/07 10:35	0.746	2.35	2.35	4.26
DOE 4.5.2.3	BI-211	SCAQC-7855-LD1	10/19/07 10:35	-0.227	0.374	0.374	0.627
DOE 4.5.2.3	BI-212	SCAQC-7855-LD1	10/19/07 10:35	0.621	0.191	0.201	0.172
DOE 4.5.2.3	PB-212	SCAQC-7855-LD1	10/19/07 10:35	0.734	0.072	0.103	0.038
DOE 4.5.2.3	BI-214	SCAQC-7855-LD1	10/19/07 10:35	0.775	0.105	0.130	0.043
DOE 4.5.2.3	PB-214	SCAQC-7855-LD1	10/19/07 10:35	0.701	0.085	0.110	0.046
DOE 4.5.2.3	RA-223	SCAQC-7855-LD1	10/19/07 10:35	0.301	0.114	0.118	0.119
DOE 4.5.2.3	AC-228	SCAQC-7855-LD1	10/19/07 10:35	0.840	0.124	0.149	0.076
DOE 4.5.2.3	PA-233	SCAQC-7855-LD1	10/19/07 10:35	-0.020	0.025	0.025	0.042
DOE 4.5.2.3	PA-234M	SCAQC-7855-LD1	10/19/07 10:35	3.35	2.41	2.43	2.20
DOE 4.5.2.3	TH-234	SCAQC-7855-LD1	10/19/07 10:35	1.08	0.494	0.506	0.531
DOE 4.5.2.3	U-235	SCAQC-7855-LD1	10/19/07 10:35	0.128	0.094	0.095	0.161
DOE 4.5.2.3	NP-236	SCAQC-7855-LD1	10/19/07 10:35	-4.7e-04	0.034	0.034	0.052
DOE 4.5.2.3	NP-237	SCAQC-7855-LD1	10/19/07 10:35	0.415	0.168	0.173	0.214
DOE 4.5.2.3	NP-239	SCAQC-7855-LD1	10/19/07 10:35	0.072	0.093	0.093	0.155
DOE 4.5.2.3	AM-241	SCAQC-7855-LD1	10/19/07 10:35	-0.053	0.084	0.084	0.142
DOE 4.5.2.3	AM-243	SCAQC-7855-LD1	10/19/07 10:35	0.164	0.051	0.054	0.045
DOE 4.5.2.3	CM-243	SCAQC-7855-LD1	10/19/07 10:35	0.025	0.054	0.054	0.083
DOE 4.5.2.3	AM-246	SCAQC-7855-LD1	10/19/07 10:35	-0.002	0.041	0.041	0.072
DOE 4.5.2.3	CF-249	SCAQC-7855-LD1	10/19/07 10:35	0.005	0.015	0.015	0.027

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7855-LD1	OH207-7855-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2093-ST				
Other Sample ID:	LD1	Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

	Quality Control Samples			
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7855-LC1	SCAQC-7855-LD1		SCAQC-7855-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2073-SD
Other Sample ID: LD1 Collection Date: 8/27/2007 Date Received: 9/10/2007 9:00:00
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-7856-LD1	10/19/07 13:44	2.79	0.421	0.506	0.178
DOE 4.5.2.3	CO-60	SCAQC-7856-LD1	10/19/07 13:44	0.011	0.012	0.012	0.020
DOE 4.5.2.3	RH-101	SCAQC-7856-LD1	10/19/07 13:44	0.004	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	SCAQC-7856-LD1	10/19/07 13:44	-0.012	0.036	0.036	0.060
DOE 4.5.2.3	CS-137	SCAQC-7856-LD1	10/19/07 13:44	-0.002	0.014	0.014	0.024
DOE 4.5.2.3	EU-155	SCAQC-7856-LD1	10/19/07 13:44	0.052	0.050	0.050	0.087
DOE 4.5.2.3	TL-208	SCAQC-7856-LD1	10/19/07 13:44	0.248	0.041	0.048	0.022
DOE 4.5.2.3	PO-209	SCAQC-7856-LD1	10/19/07 13:44	1.10	2.53	2.53	4.62
DOE 4.5.2.3	BI-211	SCAQC-7856-LD1	10/19/07 13:44	-0.055	0.358	0.358	0.626
DOE 4.5.2.3	BI-212	SCAQC-7856-LD1	10/19/07 13:44	0.627	0.163	0.175	0.175
DOE 4.5.2.3	PB-212	SCAQC-7856-LD1	10/19/07 13:44	0.732	0.073	0.103	0.034
DOE 4.5.2.3	BI-214	SCAQC-7856-LD1	10/19/07 13:44	0.423	0.073	0.084	0.043
DOE 4.5.2.3	PB-214	SCAQC-7856-LD1	10/19/07 13:44	0.453	0.073	0.086	0.043
DOE 4.5.2.3	RA-223	SCAQC-7856-LD1	10/19/07 13:44	0.202	0.087	0.090	0.108
DOE 4.5.2.3	AC-228	SCAQC-7856-LD1	10/19/07 13:44	0.802	0.126	0.150	0.078
DOE 4.5.2.3	PA-233	SCAQC-7856-LD1	10/19/07 13:44	0.008	0.023	0.023	0.040
DOE 4.5.2.3	PA-234M	SCAQC-7856-LD1	10/19/07 13:44	1.11	1.42	1.42	2.68
DOE 4.5.2.3	TH-234	SCAQC-7856-LD1	10/19/07 13:44	0.589	0.374	0.378	0.506
DOE 4.5.2.3	U-235	SCAQC-7856-LD1	10/19/07 13:44	0.126	0.110	0.111	0.135
DOE 4.5.2.3	NP-236	SCAQC-7856-LD1	10/19/07 13:44	0.008	0.029	0.029	0.049
DOE 4.5.2.3	NP-237	SCAQC-7856-LD1	10/19/07 13:44	0.442	0.215	0.220	0.194
DOE 4.5.2.3	NP-239	SCAQC-7856-LD1	10/19/07 13:44	0.045	0.089	0.090	0.150
DOE 4.5.2.3	AM-241	SCAQC-7856-LD1	10/19/07 13:44	0.014	0.075	0.075	0.132
DOE 4.5.2.3	AM-243	SCAQC-7856-LD1	10/19/07 13:44	0.142	0.049	0.051	0.045
DOE 4.5.2.3	CM-243	SCAQC-7856-LD1	10/19/07 13:44	-0.018	0.045	0.045	0.076
DOE 4.5.2.3	AM-246	SCAQC-7856-LD1	10/19/07 13:44	0.023	0.044	0.045	0.082
DOE 4.5.2.3	CF-249	SCAQC-7856-LD1	10/19/07 13:44	-0.001	0.014	0.014	0.025

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7856-LD1	OH207-7856-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2073-SD				
Other Sample ID:	LD1	Collection Date:	8/27/2007	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #17/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2093-SD

Other Sample ID: LD1 Collection Date: 8/28/2007 Date Received: 9/10/2007 9:00:00

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-7857-LD1	10/20/07 17:40	2.24	0.333	0.401	0.199
DOE 4.5.2.3	CO-60	SCAQC-7857-LD1	10/20/07 17:40	7.7e-04	0.012	0.012	0.021
DOE 4.5.2.3	RH-101	SCAQC-7857-LD1	10/20/07 17:40	-0.008	0.015	0.015	0.023
DOE 4.5.2.3	SB-125	SCAQC-7857-LD1	10/20/07 17:40	0.005	0.034	0.034	0.059
DOE 4.5.2.3	CS-137	SCAQC-7857-LD1	10/20/07 17:40	0.178	0.032	0.036	0.022
DOE 4.5.2.3	EU-155	SCAQC-7857-LD1	10/20/07 17:40	0.093	0.051	0.052	0.088
DOE 4.5.2.3	TL-208	SCAQC-7857-LD1	10/20/07 17:40	0.234	0.038	0.045	0.022
DOE 4.5.2.3	PO-209	SCAQC-7857-LD1	10/20/07 17:40	-0.040	2.42	2.42	4.24
DOE 4.5.2.3	BI-211	SCAQC-7857-LD1	10/20/07 17:40	-0.072	0.340	0.340	0.586
DOE 4.5.2.3	BI-212	SCAQC-7857-LD1	10/20/07 17:40	0.467	0.203	0.208	0.166
DOE 4.5.2.3	PB-212	SCAQC-7857-LD1	10/20/07 17:40	0.691	0.067	0.096	0.037
DOE 4.5.2.3	BI-214	SCAQC-7857-LD1	10/20/07 17:40	0.727	0.101	0.124	0.043
DOE 4.5.2.3	PB-214	SCAQC-7857-LD1	10/20/07 17:40	0.737	0.089	0.115	0.044
DOE 4.5.2.3	RA-223	SCAQC-7857-LD1	10/20/07 17:40	0.154	0.103	0.104	0.115
DOE 4.5.2.3	AC-228	SCAQC-7857-LD1	10/20/07 17:40	0.844	0.132	0.157	0.071
DOE 4.5.2.3	PA-233	SCAQC-7857-LD1	10/20/07 17:40	-0.006	0.024	0.024	0.041
DOE 4.5.2.3	PA-234M	SCAQC-7857-LD1	10/20/07 17:40	0.586	1.49	1.49	2.69
DOE 4.5.2.3	TH-234	SCAQC-7857-LD1	10/20/07 17:40	1.32	0.432	0.452	0.484
DOE 4.5.2.3	U-235	SCAQC-7857-LD1	10/20/07 17:40	0.105	0.092	0.092	0.154
DOE 4.5.2.3	NP-236	SCAQC-7857-LD1	10/20/07 17:40	0.042	0.031	0.031	0.048
DOE 4.5.2.3	NP-237	SCAQC-7857-LD1	10/20/07 17:40	0.352	0.136	0.140	0.196
DOE 4.5.2.3	NP-239	SCAQC-7857-LD1	10/20/07 17:40	0.035	0.087	0.087	0.152
DOE 4.5.2.3	AM-241	SCAQC-7857-LD1	10/20/07 17:40	0.080	0.073	0.073	0.128
DOE 4.5.2.3	AM-243	SCAQC-7857-LD1	10/20/07 17:40	0.154	0.044	0.046	0.041
DOE 4.5.2.3	CM-243	SCAQC-7857-LD1	10/20/07 17:40	0.024	0.045	0.045	0.077
DOE 4.5.2.3	AM-246	SCAQC-7857-LD1	10/20/07 17:40	-0.005	0.040	0.040	0.070
DOE 4.5.2.3	CF-249	SCAQC-7857-LD1	10/20/07 17:40	0.007	0.015	0.015	0.027

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7857-LD1	OH207-7857-01

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #17/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2093-SD				
Other Sample ID:	LD1	Collection Date:	8/28/2007	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7857-LC1	SCAQC-7857-LD1		SCAQC-7857-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah	Chain-of-Custody Number: None		Matrix: Soil
Site Sample ID: N/A			
Other Sample ID: PB	Collection Date: 9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
		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-7854-PB1	10/18/07 05:31	-0.061	0.128	0.128	0.252
DOE 4.5.2.3	CO-60	SCAQC-7854-PB1	10/18/07 05:31	-0.002	0.008	0.008	0.014
DOE 4.5.2.3	RH-101	SCAQC-7854-PB1	10/18/07 05:31	-0.007	0.011	0.011	0.017
DOE 4.5.2.3	SB-125	SCAQC-7854-PB1	10/18/07 05:31	-0.007	0.029	0.029	0.049
DOE 4.5.2.3	CS-137	SCAQC-7854-PB1	10/18/07 05:31	7.9e-04	0.010	0.010	0.018
DOE 4.5.2.3	EU-155	SCAQC-7854-PB1	10/18/07 05:31	-0.016	0.032	0.032	0.054
DOE 4.5.2.3	TL-208	SCAQC-7854-PB1	10/18/07 05:31	0.012	0.011	0.011	0.021
DOE 4.5.2.3	PO-209	SCAQC-7854-PB1	10/18/07 05:31	-0.716	1.98	1.98	3.43
DOE 4.5.2.3	BI-211	SCAQC-7854-PB1	10/18/07 05:31	-0.224	0.285	0.286	0.466
DOE 4.5.2.3	BI-212	SCAQC-7854-PB1	10/18/07 05:31	0.052	0.074	0.075	0.146
DOE 4.5.2.3	PB-212	SCAQC-7854-PB1	10/18/07 05:31	0.018	0.019	0.019	0.035
DOE 4.5.2.3	BI-214	SCAQC-7854-PB1	10/18/07 05:31	0.056	0.037	0.037	0.051
DOE 4.5.2.3	PB-214	SCAQC-7854-PB1	10/18/07 05:31	0.028	0.028	0.029	0.043
DOE 4.5.2.3	RA-223	SCAQC-7854-PB1	10/18/07 05:31	-0.045	0.057	0.057	0.093
DOE 4.5.2.3	AC-228	SCAQC-7854-PB1	10/18/07 05:31	-0.021	0.037	0.037	0.066
DOE 4.5.2.3	PA-233	SCAQC-7854-PB1	10/18/07 05:31	-0.007	0.019	0.019	0.032
DOE 4.5.2.3	PA-234M	SCAQC-7854-PB1	10/18/07 05:31	0.611	1.29	1.29	2.50
DOE 4.5.2.3	TH-234	SCAQC-7854-PB1	10/18/07 05:31	-0.076	0.188	0.188	0.342
DOE 4.5.2.3	U-235	SCAQC-7854-PB1	10/18/07 05:31	0.006	0.066	0.066	0.109
DOE 4.5.2.3	NP-236	SCAQC-7854-PB1	10/18/07 05:31	0.003	0.019	0.019	0.033
DOE 4.5.2.3	NP-237	SCAQC-7854-PB1	10/18/07 05:31	0.038	0.076	0.076	0.130
DOE 4.5.2.3	NP-239	SCAQC-7854-PB1	10/18/07 05:31	-0.012	0.064	0.064	0.112
DOE 4.5.2.3	AM-241	SCAQC-7854-PB1	10/18/07 05:31	0.016	0.050	0.050	0.089
DOE 4.5.2.3	AM-243	SCAQC-7854-PB1	10/18/07 05:31	-0.003	0.017	0.017	0.029
DOE 4.5.2.3	CM-243	SCAQC-7854-PB1	10/18/07 05:31	-0.007	0.030	0.030	0.050
DOE 4.5.2.3	AM-246	SCAQC-7854-PB1	10/18/07 05:31	0.025	0.033	0.034	0.067
DOE 4.5.2.3	CF-249	SCAQC-7854-PB1	10/18/07 05:31	-0.003	0.012	0.012	0.020

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7854-LC1	SCAQC-7854-LD1		SCAQC-7854-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name: Cabrera Services-Oah Chain-of-Custody Number: None Matrix: Soil
Site Sample ID: N/A
Other Sample ID: PB Collection Date: 9/10/2007 9:00:00 AM Date Received: 9/10/2007 9:00:00
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-7855-PB1	10/19/07 10:18	-0.008	0.131	0.131	0.266
DOE 4.5.2.3	CO-60	SCAQC-7855-PB1	10/19/07 10:18	-0.001	0.009	0.009	0.017
DOE 4.5.2.3	RH-101	SCAQC-7855-PB1	10/19/07 10:18	-0.007	0.011	0.011	0.017
DOE 4.5.2.3	SB-125	SCAQC-7855-PB1	10/19/07 10:18	-0.008	0.028	0.028	0.047
DOE 4.5.2.3	CS-137	SCAQC-7855-PB1	10/19/07 10:18	-0.003	0.010	0.010	0.017
DOE 4.5.2.3	EU-155	SCAQC-7855-PB1	10/19/07 10:18	-0.010	0.034	0.034	0.057
DOE 4.5.2.3	TL-208	SCAQC-7855-PB1	10/19/07 10:18	0.008	0.012	0.012	0.022
DOE 4.5.2.3	PO-209	SCAQC-7855-PB1	10/19/07 10:18	0.329	1.79	1.79	3.38
DOE 4.5.2.3	BI-211	SCAQC-7855-PB1	10/19/07 10:18	-0.112	0.274	0.275	0.475
DOE 4.5.2.3	BI-212	SCAQC-7855-PB1	10/19/07 10:18	0.030	0.075	0.075	0.142
DOE 4.5.2.3	PB-212	SCAQC-7855-PB1	10/19/07 10:18	0.018	0.018	0.019	0.031
DOE 4.5.2.3	BI-214	SCAQC-7855-PB1	10/19/07 10:18	0.007	0.023	0.023	0.043
DOE 4.5.2.3	PB-214	SCAQC-7855-PB1	10/19/07 10:18	-0.019	0.023	0.023	0.038
DOE 4.5.2.3	RA-223	SCAQC-7855-PB1	10/19/07 10:18	0.036	0.052	0.052	0.094
DOE 4.5.2.3	AC-228	SCAQC-7855-PB1	10/19/07 10:18	0.005	0.044	0.044	0.082
DOE 4.5.2.3	PA-233	SCAQC-7855-PB1	10/19/07 10:18	-0.006	0.018	0.018	0.030
DOE 4.5.2.3	PA-234M	SCAQC-7855-PB1	10/19/07 10:18	-0.920	1.16	1.16	1.91
DOE 4.5.2.3	TH-234	SCAQC-7855-PB1	10/19/07 10:18	-0.084	0.176	0.176	0.322
DOE 4.5.2.3	U-235	SCAQC-7855-PB1	10/19/07 10:18	0.036	0.064	0.064	0.108
DOE 4.5.2.3	NP-236	SCAQC-7855-PB1	10/19/07 10:18	0.020	0.019	0.019	0.034
DOE 4.5.2.3	NP-237	SCAQC-7855-PB1	10/19/07 10:18	-0.009	0.071	0.071	0.118
DOE 4.5.2.3	NP-239	SCAQC-7855-PB1	10/19/07 10:18	-0.001	0.063	0.063	0.112
DOE 4.5.2.3	AM-241	SCAQC-7855-PB1	10/19/07 10:18	0.012	0.049	0.049	0.087
DOE 4.5.2.3	AM-243	SCAQC-7855-PB1	10/19/07 10:18	0.006	0.016	0.016	0.029
DOE 4.5.2.3	CM-243	SCAQC-7855-PB1	10/19/07 10:18	0.015	0.030	0.030	0.052
DOE 4.5.2.3	AM-246	SCAQC-7855-PB1	10/19/07 10:18	0.001	0.030	0.030	0.057
DOE 4.5.2.3	CF-249	SCAQC-7855-PB1	10/19/07 10:18	-0.012	0.011	0.011	0.018

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7855-LC1	SCAQC-7855-LD1		SCAQC-7855-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				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-7856-PB1	10/19/07 13:26	-0.026	0.118	0.118	0.245
DOE 4.5.2.3	CO-60	SCAQC-7856-PB1	10/19/07 13:26	0.008	0.008	0.008	0.018
DOE 4.5.2.3	RH-101	SCAQC-7856-PB1	10/19/07 13:26	-0.001	0.011	0.011	0.017
DOE 4.5.2.3	SB-125	SCAQC-7856-PB1	10/19/07 13:26	0.002	0.027	0.027	0.048
DOE 4.5.2.3	CS-137	SCAQC-7856-PB1	10/19/07 13:26	0.006	0.010	0.010	0.020
DOE 4.5.2.3	EU-155	SCAQC-7856-PB1	10/19/07 13:26	-0.002	0.033	0.033	0.057
DOE 4.5.2.3	TL-208	SCAQC-7856-PB1	10/19/07 13:26	0.018	0.016	0.017	0.021
DOE 4.5.2.3	PO-209	SCAQC-7856-PB1	10/19/07 13:26	0.023	1.74	1.74	3.23
DOE 4.5.2.3	BI-211	SCAQC-7856-PB1	10/19/07 13:26	-0.186	0.259	0.260	0.429
DOE 4.5.2.3	BI-212	SCAQC-7856-PB1	10/19/07 13:26	1.1e-05	0.072	0.072	0.132
DOE 4.5.2.3	PB-212	SCAQC-7856-PB1	10/19/07 13:26	-0.007	0.018	0.018	0.031
DOE 4.5.2.3	BI-214	SCAQC-7856-PB1	10/19/07 13:26	-0.014	0.020	0.020	0.036
DOE 4.5.2.3	PB-214	SCAQC-7856-PB1	10/19/07 13:26	-0.020	0.022	0.022	0.037
DOE 4.5.2.3	RA-223	SCAQC-7856-PB1	10/19/07 13:26	-0.021	0.051	0.051	0.086
DOE 4.5.2.3	AC-228	SCAQC-7856-PB1	10/19/07 13:26	0.018	0.041	0.041	0.080
DOE 4.5.2.3	PA-233	SCAQC-7856-PB1	10/19/07 13:26	-0.004	0.019	0.019	0.033
DOE 4.5.2.3	PA-234M	SCAQC-7856-PB1	10/19/07 13:26	-0.048	1.30	1.30	2.37
DOE 4.5.2.3	TH-234	SCAQC-7856-PB1	10/19/07 13:26	0.031	0.176	0.176	0.331
DOE 4.5.2.3	U-235	SCAQC-7856-PB1	10/19/07 13:26	5.1e-04	0.065	0.065	0.106
DOE 4.5.2.3	NP-236	SCAQC-7856-PB1	10/19/07 13:26	0.012	0.019	0.019	0.034
DOE 4.5.2.3	NP-237	SCAQC-7856-PB1	10/19/07 13:26	-0.019	0.074	0.074	0.123
DOE 4.5.2.3	NP-239	SCAQC-7856-PB1	10/19/07 13:26	0.014	0.063	0.063	0.113
DOE 4.5.2.3	AM-241	SCAQC-7856-PB1	10/19/07 13:26	0.091	0.051	0.052	0.091
DOE 4.5.2.3	AM-243	SCAQC-7856-PB1	10/19/07 13:26	0.009	0.016	0.016	0.028
DOE 4.5.2.3	CM-243	SCAQC-7856-PB1	10/19/07 13:26	0.007	0.030	0.030	0.052
DOE 4.5.2.3	AM-246	SCAQC-7856-PB1	10/19/07 13:26	0.004	0.034	0.034	0.063
DOE 4.5.2.3	CF-249	SCAQC-7856-PB1	10/19/07 13:26	-0.002	0.012	0.012	0.020

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7856-LC1	SCAQC-7856-LD1		SCAQC-7856-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				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-7857-PB1	10/20/07 17:41	-0.020	0.156	0.156	0.304
DOE 4.5.2.3	CO-60	SCAQC-7857-PB1	10/20/07 17:41	8.6e-04	0.013	0.013	0.024
DOE 4.5.2.3	RH-101	SCAQC-7857-PB1	10/20/07 17:41	-0.011	0.013	0.013	0.020
DOE 4.5.2.3	SB-125	SCAQC-7857-PB1	10/20/07 17:41	0.009	0.032	0.032	0.058
DOE 4.5.2.3	CS-137	SCAQC-7857-PB1	10/20/07 17:41	0.017	0.014	0.014	0.028
DOE 4.5.2.3	EU-155	SCAQC-7857-PB1	10/20/07 17:41	0.002	0.032	0.032	0.057
DOE 4.5.2.3	TL-208	SCAQC-7857-PB1	10/20/07 17:41	0.009	0.015	0.015	0.028
DOE 4.5.2.3	PO-209	SCAQC-7857-PB1	10/20/07 17:41	-1.10	2.56	2.56	4.47
DOE 4.5.2.3	BI-211	SCAQC-7857-PB1	10/20/07 17:41	0.012	0.354	0.354	0.633
DOE 4.5.2.3	BI-212	SCAQC-7857-PB1	10/20/07 17:41	0.129	0.100	0.101	0.200
DOE 4.5.2.3	PB-212	SCAQC-7857-PB1	10/20/07 17:41	-0.007	0.023	0.023	0.039
DOE 4.5.2.3	BI-214	SCAQC-7857-PB1	10/20/07 17:41	0.059	0.036	0.036	0.054
DOE 4.5.2.3	PB-214	SCAQC-7857-PB1	10/20/07 17:41	-0.005	0.027	0.027	0.046
DOE 4.5.2.3	RA-223	SCAQC-7857-PB1	10/20/07 17:41	-0.016	0.066	0.066	0.111
DOE 4.5.2.3	AC-228	SCAQC-7857-PB1	10/20/07 17:41	-0.006	0.052	0.052	0.096
DOE 4.5.2.3	PA-233	SCAQC-7857-PB1	10/20/07 17:41	0.008	0.023	0.023	0.040
DOE 4.5.2.3	PA-234M	SCAQC-7857-PB1	10/20/07 17:41	0.977	1.76	1.76	3.33
DOE 4.5.2.3	TH-234	SCAQC-7857-PB1	10/20/07 17:41	0.297	0.263	0.264	0.234
DOE 4.5.2.3	U-235	SCAQC-7857-PB1	10/20/07 17:41	-0.033	0.073	0.073	0.125
DOE 4.5.2.3	NP-236	SCAQC-7857-PB1	10/20/07 17:41	0.009	0.022	0.022	0.033
DOE 4.5.2.3	NP-237	SCAQC-7857-PB1	10/20/07 17:41	0.051	0.065	0.066	0.105
DOE 4.5.2.3	NP-239	SCAQC-7857-PB1	10/20/07 17:41	-0.041	0.083	0.083	0.138
DOE 4.5.2.3	AM-241	SCAQC-7857-PB1	10/20/07 17:41	0.005	0.022	0.022	0.033
DOE 4.5.2.3	AM-243	SCAQC-7857-PB1	10/20/07 17:41	-0.001	0.012	0.012	0.020
DOE 4.5.2.3	CM-243	SCAQC-7857-PB1	10/20/07 17:41	0.006	0.029	0.029	0.052
DOE 4.5.2.3	AM-246	SCAQC-7857-PB1	10/20/07 17:41	0.006	0.041	0.041	0.078
DOE 4.5.2.3	CF-249	SCAQC-7857-PB1	10/20/07 17:41	0.001	0.014	0.014	0.026

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7854_7857

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	None	Matrix:	Soil
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	9/10/2007 9:00:00 AM	Date Received:	9/10/2007 9:00:00
				Laboratory Code:	SCA

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7857-LC1	SCAQC-7857-LD1		SCAQC-7857-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7854_7857

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-7857-LC1	31.3 ± 0.845	31.3 ± 3.70	100	0.004
DOE 4.5.2.3	CO-60	SCAQC-7856-LC1	31.3 ± 0.845	31.6 ± 3.64	101	0.129
DOE 4.5.2.3	CO-60	SCAQC-7855-LC1	31.3 ± 0.845	31.7 ± 3.66	101	0.171
DOE 4.5.2.3	CO-60	SCAQC-7854-LC1	31.3 ± 0.845	32.0 ± 3.78	102	0.260
DOE 4.5.2.3	CS-137	SCAQC-7857-LC1	28.8 ± 0.865	30.6 ± 4.51	106	0.620
DOE 4.5.2.3	CS-137	SCAQC-7856-LC1	28.8 ± 0.865	30.5 ± 4.64	106	0.582
DOE 4.5.2.3	CS-137	SCAQC-7855-LC1	28.8 ± 0.865	30.5 ± 4.64	106	0.569
DOE 4.5.2.3	CS-137	SCAQC-7854-LC1	28.8 ± 0.865	30.2 ± 3.75	105	0.534
DOE 4.5.2.3	AM-241	SCAQC-7857-LC1	77.0 ± 2.31	70.2 ± 9.05	91.2	1.09
DOE 4.5.2.3	AM-241	SCAQC-7856-LC1	77.0 ± 2.31	73.7 ± 8.89	95.8	0.526
DOE 4.5.2.3	AM-241	SCAQC-7855-LC1	77.0 ± 2.31	76.1 ± 9.17	98.8	0.146
DOE 4.5.2.3	AM-241	SCAQC-7854-LC1	77.0 ± 2.31	77.2 ± 9.15	100	0.029

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-7854-LD1	2.79 ± 0.466	3.04 ± 0.511	0.249	0.720
DOE 4.5.2.3	K-40	SCAQC-7855-LD1	1.66 ± 0.399	2.01 ± 0.367	0.344	1.27
DOE 4.5.2.3	K-40	SCAQC-7856-LD1	3.47 ± 0.561	2.79 ± 0.506	0.682	1.81
DOE 4.5.2.3	K-40	SCAQC-7857-LD1	2.02 ± 0.407	2.24 ± 0.401	0.227	0.794
DOE 4.5.2.3	CO-60	SCAQC-7856-LD1	0.002 ± 0.018	0.011 ± 0.012	0.009	0.866
DOE 4.5.2.3	CO-60	SCAQC-7854-LD1	0.002 ± 0.014	-6.7e-05 ± 0.014	0.002	0.162
DOE 4.5.2.3	CO-60	SCAQC-7857-LD1	-0.004 ± 0.010	7.7e-04 ± 0.012	0.005	0.634
DOE 4.5.2.3	CO-60	SCAQC-7855-LD1	0.003 ± 0.016	-0.002 ± 0.013	0.005	0.477
DOE 4.5.2.3	RH-101	SCAQC-7857-LD1	-0.004 ± 0.014	-0.008 ± 0.015	0.004	0.405
DOE 4.5.2.3	RH-101	SCAQC-7855-LD1	-0.012 ± 0.017	-0.002 ± 0.015	0.010	0.870
DOE 4.5.2.3	RH-101	SCAQC-7854-LD1	-0.009 ± 0.014	8.8e-04 ± 0.016	0.010	0.942
DOE 4.5.2.3	RH-101	SCAQC-7856-LD1	0.006 ± 0.016	0.004 ± 0.014	0.002	0.181
DOE 4.5.2.3	SB-125	SCAQC-7856-LD1	0.015 ± 0.043	-0.012 ± 0.036	0.027	0.971

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Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7854_7857

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

DOE 4.5.2.3	SB-125	SCAQC-7855-LD1	-1.5e-04	± 0.045	-0.006	± 0.040	0.006	0.202
DOE 4.5.2.3	SB-125	SCAQC-7857-LD1	0.013	± 0.035	0.005	± 0.034	0.007	0.300
DOE 4.5.2.3	SB-125	SCAQC-7854-LD1	-0.021	± 0.032	-7.2e-04	± 0.041	0.021	0.796
DOE 4.5.2.3	CS-137	SCAQC-7857-LD1	0.155	± 0.033	0.178	± 0.036	0.023	0.941
DOE 4.5.2.3	CS-137	SCAQC-7854-LD1	0.087	± 0.028	0.092	± 0.032	0.005	0.224
DOE 4.5.2.3	CS-137	SCAQC-7856-LD1	0.011	± 0.018	-0.002	± 0.014	0.013	1.18
DOE 4.5.2.3	CS-137	SCAQC-7855-LD1	0.257	± 0.046	0.269	± 0.050	0.012	0.359
DOE 4.5.2.3	EU-155	SCAQC-7857-LD1	0.087	± 0.051	0.093	± 0.052	0.007	0.181
DOE 4.5.2.3	EU-155	SCAQC-7856-LD1	6.9e-04	± 0.045	0.052	± 0.050	0.051	1.52
DOE 4.5.2.3	EU-155	SCAQC-7855-LD1	0.001	± 0.049	0.089	± 0.066	0.088	2.15
DOE 4.5.2.3	EU-155	SCAQC-7854-LD1	0.082	± 0.050	0.044	± 0.047	0.038	1.11
DOE 4.5.2.3	TL-208	SCAQC-7856-LD1	0.204	± 0.048	0.248	± 0.048	0.043	1.28
DOE 4.5.2.3	TL-208	SCAQC-7855-LD1	0.251	± 0.050	0.259	± 0.049	0.008	0.220
DOE 4.5.2.3	TL-208	SCAQC-7857-LD1	0.278	± 0.052	0.234	± 0.045	0.043	1.27
DOE 4.5.2.3	TL-208	SCAQC-7854-LD1	0.258	± 0.047	0.242	± 0.045	0.016	0.490
DOE 4.5.2.3	PO-209	SCAQC-7856-LD1	0.790	± 2.90	1.10	± 2.53	0.314	0.163
DOE 4.5.2.3	PO-209	SCAQC-7854-LD1	-1.03	± 2.03	1.42	± 2.87	2.45	1.39
DOE 4.5.2.3	PO-209	SCAQC-7857-LD1	-0.189	± 2.39	-0.040	± 2.42	0.148	0.087
DOE 4.5.2.3	PO-209	SCAQC-7855-LD1	1.41	± 3.19	0.746	± 2.35	0.665	0.335
DOE 4.5.2.3	BI-211	SCAQC-7855-LD1	-0.106	± 0.487	-0.227	± 0.374	0.121	0.394
DOE 4.5.2.3	BI-211	SCAQC-7854-LD1	0.223	± 0.368	0.091	± 0.465	0.132	0.444
DOE 4.5.2.3	BI-211	SCAQC-7857-LD1	-0.449	± 0.379	-0.072	± 0.340	0.377	1.48
DOE 4.5.2.3	BI-211	SCAQC-7856-LD1	-0.094	± 0.469	-0.055	± 0.358	0.038	0.130
DOE 4.5.2.3	BI-212	SCAQC-7854-LD1	0.603	± 0.204	0.494	± 0.204	0.109	0.754
DOE 4.5.2.3	BI-212	SCAQC-7856-LD1	0.462	± 0.220	0.627	± 0.175	0.165	1.18
DOE 4.5.2.3	BI-212	SCAQC-7857-LD1	0.604	± 0.194	0.467	± 0.208	0.137	0.963
DOE 4.5.2.3	BI-212	SCAQC-7855-LD1	0.543	± 0.201	0.621	± 0.201	0.079	0.553
DOE 4.5.2.3	PB-212	SCAQC-7855-LD1	0.844	± 0.119	0.734	± 0.103	0.110	1.40
DOE 4.5.2.3	PB-212	SCAQC-7857-LD1	0.741	± 0.104	0.691	± 0.096	0.050	0.706
DOE 4.5.2.3	PB-212	SCAQC-7854-LD1	0.697	± 0.098	0.725	± 0.103	0.028	0.394
DOE 4.5.2.3	PB-212	SCAQC-7856-LD1	0.727	± 0.105	0.732	± 0.103	0.006	0.075
DOE 4.5.2.3	BI-214	SCAQC-7855-LD1	0.718	± 0.113	0.775	± 0.130	0.057	0.659
DOE 4.5.2.3	BI-214	SCAQC-7856-LD1	0.357	± 0.086	0.423	± 0.084	0.066	1.10
DOE 4.5.2.3	BI-214	SCAQC-7857-LD1	0.691	± 0.116	0.727	± 0.124	0.036	0.425
DOE 4.5.2.3	BI-214	SCAQC-7854-LD1	0.464	± 0.092	0.462	± 0.095	0.002	0.032
DOE 4.5.2.3	PB-214	SCAQC-7857-LD1	0.769	± 0.119	0.737	± 0.115	0.032	0.390
DOE 4.5.2.3	PB-214	SCAQC-7856-LD1	0.390	± 0.086	0.453	± 0.086	0.063	1.03
DOE 4.5.2.3	PB-214	SCAQC-7855-LD1	0.755	± 0.123	0.701	± 0.110	0.054	0.649
DOE 4.5.2.3	PB-214	SCAQC-7854-LD1	0.529	± 0.083	0.432	± 0.090	0.097	1.58
DOE 4.5.2.3	RA-223	SCAQC-7854-LD1	0.231	± 0.108	0.338	± 0.153	0.107	1.14
DOE 4.5.2.3	RA-223	SCAQC-7857-LD1	0.307	± 0.130	0.154	± 0.104	0.153	1.84
DOE 4.5.2.3	RA-223	SCAQC-7856-LD1	0.212	± 0.126	0.202	± 0.090	0.010	0.136
DOE 4.5.2.3	RA-223	SCAQC-7855-LD1	0.205	± 0.132	0.301	± 0.118	0.096	1.09
DOE 4.5.2.3	AC-228	SCAQC-7855-LD1	0.867	± 0.156	0.840	± 0.149	0.027	0.247
DOE 4.5.2.3	AC-228	SCAQC-7854-LD1	0.876	± 0.142	0.724	± 0.156	0.152	1.44

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7854_7857

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

DOE 4.5.2.3	AC-228	SCAQC-7856-LD1	0.857	± 0.164	0.802	± 0.150	0.056	0.500
DOE 4.5.2.3	AC-228	SCAQC-7857-LD1	0.954	± 0.155	0.844	± 0.157	0.110	1.00
DOE 4.5.2.3	PA-233	SCAQC-7857-LD1	0.006	± 0.023	-0.006	± 0.024	0.011	0.676
DOE 4.5.2.3	PA-233	SCAQC-7855-LD1	-0.032	± 0.031	-0.020	± 0.025	0.012	0.627
DOE 4.5.2.3	PA-233	SCAQC-7854-LD1	0.003	± 0.023	-0.003	± 0.028	0.006	0.331
DOE 4.5.2.3	PA-233	SCAQC-7856-LD1	0.011	± 0.028	0.008	± 0.023	0.003	0.171
DOE 4.5.2.3	PA-234M	SCAQC-7857-LD1	0.849	± 1.46	0.586	± 1.49	0.263	0.253
DOE 4.5.2.3	PA-234M	SCAQC-7855-LD1	0.488	± 1.86	3.35	± 2.43	2.86	1.87
DOE 4.5.2.3	PA-234M	SCAQC-7854-LD1	-0.043	± 1.39	2.00	± 1.94	2.05	1.72
DOE 4.5.2.3	PA-234M	SCAQC-7856-LD1	2.41	± 1.91	1.11	± 1.42	1.29	1.09
DOE 4.5.2.3	TH-234	SCAQC-7856-LD1	0.912	± 0.350	0.589	± 0.378	0.323	1.26
DOE 4.5.2.3	TH-234	SCAQC-7857-LD1	0.836	± 0.322	1.32	± 0.452	0.488	1.76
DOE 4.5.2.3	TH-234	SCAQC-7854-LD1	0.409	± 0.322	1.02	± 0.339	0.612	2.62
DOE 4.5.2.3	TH-234	SCAQC-7855-LD1	1.07	± 0.354	1.08	± 0.506	0.009	0.029
DOE 4.5.2.3	U-235	SCAQC-7857-LD1	-0.035	± 0.093	0.105	± 0.092	0.139	2.13
DOE 4.5.2.3	U-235	SCAQC-7854-LD1	-0.012	± 0.083	0.020	± 0.095	0.033	0.521
DOE 4.5.2.3	U-235	SCAQC-7855-LD1	0.090	± 0.107	0.128	± 0.095	0.037	0.525
DOE 4.5.2.3	U-235	SCAQC-7856-LD1	-0.022	± 0.102	0.126	± 0.111	0.148	1.97
DOE 4.5.2.3	NP-236	SCAQC-7856-LD1	0.057	± 0.031	0.008	± 0.029	0.050	2.35
DOE 4.5.2.3	NP-236	SCAQC-7857-LD1	-0.005	± 0.029	0.042	± 0.031	0.047	2.20
DOE 4.5.2.3	NP-236	SCAQC-7854-LD1	0.054	± 0.038	0.036	± 0.029	0.017	0.710
DOE 4.5.2.3	NP-236	SCAQC-7855-LD1	0.042	± 0.032	-4.7e-04	± 0.034	0.043	1.83
DOE 4.5.2.3	NP-237	SCAQC-7855-LD1	0.523	± 0.147	0.415	± 0.173	0.108	0.948
DOE 4.5.2.3	NP-237	SCAQC-7856-LD1	0.233	± 0.108	0.442	± 0.220	0.210	1.72
DOE 4.5.2.3	NP-237	SCAQC-7857-LD1	0.241	± 0.159	0.352	± 0.140	0.110	1.04
DOE 4.5.2.3	NP-237	SCAQC-7854-LD1	0.352	± 0.155	0.437	± 0.135	0.085	0.828
DOE 4.5.2.3	NP-239	SCAQC-7857-LD1	-0.019	± 0.091	0.035	± 0.087	0.054	0.855
DOE 4.5.2.3	NP-239	SCAQC-7854-LD1	0.037	± 0.086	-0.006	± 0.101	0.044	0.658
DOE 4.5.2.3	NP-239	SCAQC-7855-LD1	0.079	± 0.111	0.072	± 0.093	0.007	0.092
DOE 4.5.2.3	NP-239	SCAQC-7856-LD1	-0.072	± 0.102	0.045	± 0.090	0.117	1.73
DOE 4.5.2.3	AM-241	SCAQC-7854-LD1	0.012	± 0.077	-0.079	± 0.032	0.091	2.18
DOE 4.5.2.3	AM-241	SCAQC-7857-LD1	-0.056	± 0.079	0.080	± 0.073	0.136	2.53
DOE 4.5.2.3	AM-241	SCAQC-7856-LD1	0.028	± 0.032	0.014	± 0.075	0.013	0.325
DOE 4.5.2.3	AM-241	SCAQC-7855-LD1	0.042	± 0.033	-0.053	± 0.084	0.096	2.12
DOE 4.5.2.3	AM-243	SCAQC-7854-LD1	0.141	± 0.048	0.134	± 0.041	0.008	0.245
DOE 4.5.2.3	AM-243	SCAQC-7856-LD1	0.144	± 0.043	0.142	± 0.051	0.002	0.060
DOE 4.5.2.3	AM-243	SCAQC-7855-LD1	0.152	± 0.045	0.164	± 0.054	0.012	0.331
DOE 4.5.2.3	AM-243	SCAQC-7857-LD1	0.187	± 0.062	0.154	± 0.046	0.033	0.844
DOE 4.5.2.3	CM-243	SCAQC-7857-LD1	-0.052	± 0.047	0.024	± 0.045	0.076	2.32
DOE 4.5.2.3	CM-243	SCAQC-7856-LD1	-0.044	± 0.042	-0.018	± 0.045	0.026	0.863
DOE 4.5.2.3	CM-243	SCAQC-7854-LD1	-0.056	± 0.052	0.015	± 0.041	0.072	2.18
DOE 4.5.2.3	CM-243	SCAQC-7855-LD1	-0.024	± 0.044	0.025	± 0.054	0.049	1.40
DOE 4.5.2.3	AM-246	SCAQC-7856-LD1	0.028	± 0.055	0.023	± 0.045	0.006	0.160
DOE 4.5.2.3	AM-246	SCAQC-7854-LD1	0.003	± 0.039	-0.019	± 0.052	0.023	0.693
DOE 4.5.2.3	AM-246	SCAQC-7857-LD1	7.7e-06	± 0.040	-0.005	± 0.040	0.005	0.163

Sanford Cohen & Associates
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Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7854_7857

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

DOE 4.5.2.3	AM-246	SCAQC-7855-LD1	-0.022	± 0.051	-0.002	± 0.041	0.020	0.616
DOE 4.5.2.3	CF-249	SCAQC-7857-LD1	0.003	± 0.016	0.007	± 0.015	0.004	0.403
DOE 4.5.2.3	CF-249	SCAQC-7854-LD1	-0.003	± 0.014	0.013	± 0.018	0.016	1.42
DOE 4.5.2.3	CF-249	SCAQC-7856-LD1	0.001	± 0.018	-0.001	± 0.014	0.003	0.237
DOE 4.5.2.3	CF-249	SCAQC-7855-LD1	0.010	± 0.019	0.005	± 0.015	0.005	0.403

SAMPLE AND QC RESULTS SUMMARY

GPL Laboratories, LLLP
Frederick, MD

Analytical Report For 709141

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 Hubschman

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

Forty-four soil samples were received on 09/25/2007. 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

Forty-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-2073-ST, SB-CZ-SS-2085-ST, and SB-CZ-SS-2083-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.

Pat Huckshorn
Reviewed By,
Project Manager

Approved By,
Laboratory Director

Sample Summary Report

SC&A, Inc.

Work Order: 709141

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2073-SD	709141-023-023-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2073-ST	709141-001-001-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2074-SD	709141-024-024-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2074-ST	709141-002-002-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2075-SD	709141-025-025-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2075-ST	709141-003-003-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2076-SD	709141-026-026-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2076-ST	709141-004-004-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2077-SD	709141-027-027-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2077-ST	709141-005-005-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2078-SD	709141-028-028-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2078-ST	709141-006-006-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2079-SD	709141-029-029-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2079-ST	709141-007-007-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2080-SD	709141-030-030-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2080-ST	709141-008-008-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2081-SD	709141-031-031-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2081-ST	709141-009-009-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2082-SD	709141-032-032-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2082-ST	709141-010-010-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2083-ST	709141-011-011-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS-2084-SD	709141-034-034-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2084-ST	709141-012-012-1/1	SW6010C	SOIL	08/28/2007	09/25/2007

Sample Summary Report

SC&A, Inc.

Work Order: 709141

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2085-SD	709141-035-035-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2085-ST	709141-013-013-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2086-SD	709141-036-036-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2086-ST	709141-014-014-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2087-SD	709141-037-037-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2087-ST	709141-015-015-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2088-SD	709141-038-038-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2088-ST	709141-016-016-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2089-SD	709141-039-039-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2089-ST	709141-017-017-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2090-SD	709141-040-040-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2090-ST	709141-018-018-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2091-SD	709141-041-041-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2091-ST	709141-019-019-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2092-SD	709141-042-042-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2092-ST	709141-020-020-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2093-SD	709141-043-043-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2093-ST	709141-021-021-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2094-SD	709141-044-044-1/1	SW6010C	SOIL	08/28/2007	09/25/2007
SB-CZ-SS-2094-ST	709141-022-022-1/1	SW6010C	SOIL	08/27/2007	09/25/2007
SB-CZ-SS2083-SD	709141-033-033-1/1	SW6010C	SOIL	08/27/2007	09/25/2007

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2073-ST	Lab Sample ID:	709141-001-001-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.8**	**D**	**8.3**	**10**	**mg/kg**	**10/02/07**	**04:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2074-ST	Lab Sample ID:	709141-002-002-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**19.8**	**D**	**8.4**	**10**	**mg/kg**	**10/02/07**	**04:46**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2075-ST	Lab Sample ID:	709141-003-003-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**129**	**D**	**7.4**	**10**	**mg/kg**	**10/02/07**	**04:55**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2076-ST	Lab Sample ID:	709141-004-004-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**28.4**	**D**	**7.9**	**10**	**mg/kg**	**10/02/07**	**05:03**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2077-ST	Lab Sample ID:	709141-005-005-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.1**	**D**	**8**	**10**	**mg/kg**	**10/02/07**	**05:11**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2078-ST	Lab Sample ID:	709141-006-006-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	Lead	8.3	D	8.3	10	mg/kg	10/02/07 05:42

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2079-ST	Lab Sample ID:	709141-007-007-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**52.2**	**D**	**8.1**	**10**	**mg/kg**	**10/02/07**	**05:51**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2080-ST	Lab Sample ID:	709141-008-008-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**52.4**	**D**	**7.9**	**10**	**mg/kg**	**10/02/07**	**05:59**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2081-ST	Lab Sample ID:	709141-009-009-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.2**	**D**	**7.8**	**10**	**mg/kg**	**10/02/07**	**06:07**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2082-ST	Lab Sample ID:	709141-010-010-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.9**	**D**	**8.3**	**10**	**mg/kg**	**10/02/07**	**06:16**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2083-ST	Lab Sample ID:	709141-011-011-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**24.8**	**D**	**8.4**	**10**	**mg/kg**	**10/02/07**	**06:24**

Analytical Summary Report

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2084-ST	Lab Sample ID:	709141-012-012-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.4**	**D**	**8.5**	**10**	**mg/kg**	**10/02/07**	**06:32**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2085-ST	Lab Sample ID:	709141-013-013-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**27.2**	**D**	**7.9**	**10**	**mg/kg**	**10/04/07**	**13:53**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2086-ST	Lab Sample ID:	709141-014-014-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**32.0**	**D**	**8.4**	**10**	**mg/kg**	**10/04/07**	**14:39**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2087-ST	Lab Sample ID:	709141-015-015-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**19.0**	**D**	**8.6**	**10**	**mg/kg**	**10/04/07**	**14:49**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2088-ST	Lab Sample ID:	709141-016-016-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**18.0**	**D**	**8.5**	**10**	**mg/kg**	**10/04/07**	**14:58**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2089-ST	Lab Sample ID:	709141-017-017-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**28.3**	**D**	**8.1**	**10**	**mg/kg**	**10/04/07**	**15:29**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2090-ST	Lab Sample ID:	709141-018-018-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**20.5**	**D**	**8.3**	**10**	**mg/kg**	**10/04/07**	**15:38**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2091-ST	Lab Sample ID:	709141-019-019-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**75.3**	**D**	**8.3**	**10**	**mg/kg**	**10/04/07**	**15:48**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2092-ST	Lab Sample ID:	709141-020-020-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**62.3**	**D**	**8.3**	**10**	**mg/kg**	**10/04/07**	**15:57**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2093-ST	Lab Sample ID:	709141-021-021-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**118**	**D**	**8.3**	**10**	**mg/kg**	**10/04/07**	**16:06**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2094-ST	Lab Sample ID:	709141-022-022-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**24.8**	**D**	**8**	**10**	**mg/kg**	**10/04/07**	**16:16**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2073-SD	Lab Sample ID:	709141-023-023-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.8**	**D**	**8.3**	**10**	**mg/kg**	**10/04/07**	**16:25**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2074-SD	Lab Sample ID:	709141-024-024-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.8**	**D**	**8.9**	**10**	**mg/kg**	**10/04/07**	**16:34**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2075-SD	Lab Sample ID:	709141-025-025-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**34.8**	**D**	**8.2**	**10**	**mg/kg**	**10/04/07**	**16:44**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2076-SD	Lab Sample ID:	709141-026-026-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.7**	**D**	**8.4**	**10**	**mg/kg**	**10/04/07**	**16:53**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2077-SD	Lab Sample ID:	709141-027-027-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**22.1**	**D**	**8.5**	**10**	**mg/kg**	**10/04/07**	**17:24**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2078-SD	Lab Sample ID:	709141-028-028-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**10.2**	**D**	**8.1**	**10**	**mg/kg**	**10/04/07**	**17:33**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2079-SD	Lab Sample ID:	709141-029-029-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**19.1**	**D**	**8**	**10**	**mg/kg**	**10/04/07**	**17:43**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2080-SD	Lab Sample ID:	709141-030-030-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**16.7**	**D**	**8.5**	**10**	**mg/kg**	**10/04/07**	**17:52**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2081-SD	Lab Sample ID:	709141-031-031-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**9.9**	**D**	**8.5**	**10**	**mg/kg**	**10/04/07**	**18:02**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2082-SD	Lab Sample ID:	709141-032-032-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/26/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**13.0**	**D**	**8.3**	**10**	**mg/kg**	**10/04/07**	**18:11**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS2083-SD	Lab Sample ID:	709141-033-033-1/1
Sample Date/Time:	08/27/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**9.1**	**D**	**8.3**	**10**	**mg/kg**	**10/04/07**	**19:26**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2084-SD	Lab Sample ID:	709141-034-034-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**17.4**	**D**	**8.5**	**10**	**mg/kg**	**10/04/07**	**20:12**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2085-SD	Lab Sample ID:	709141-035-035-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**31.2**	**D**	**8.7**	**10**	**mg/kg**	**10/04/07**	**20:22**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2086-SD	Lab Sample ID:	709141-036-036-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**21.4**	**D**	**8**	**10**	**mg/kg**	**10/04/07**	**20:31**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2087-SD	Lab Sample ID:	709141-037-037-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**16.7**	**D**	**8.5**	**10**	**mg/kg**	**10/04/07**	**21:02**

Analytical Summary Report

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2088-SD	Lab Sample ID:	709141-038-038-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**32.4**	**D**	**8**	**10**	**mg/kg**	**10/04/07**	**21:12**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2089-SD	Lab Sample ID:	709141-039-039-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**18.4**	**D**	**8.8**	**10**	**mg/kg**	**10/04/07**	**21:21**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2090-SD	Lab Sample ID:	709141-040-040-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.6**	**D**	**8.7**	**10**	**mg/kg**	**10/04/07**	**21:30**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2091-SD	Lab Sample ID:	709141-041-041-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.8**	**D**	**7.6**	**10**	**mg/kg**	**10/04/07**	**21:39**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2092-SD	Lab Sample ID:	709141-042-042-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**23.1**	**D**	**8**	**10**	**mg/kg**	**10/04/07**	**21:49**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2093-SD	Lab Sample ID:	709141-043-043-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**112**	**D**	**7.7**	**10**	**mg/kg**	**10/04/07**	**21:58**

Analytical Summary Report

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2094-SD	Lab Sample ID:	709141-044-044-1/1
Sample Date/Time:	08/28/2007 16:57	Percent Moisture:	NA
Receipt Date/Time:	09/25/2007 16:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/27/2007 11:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**25.7**	**D**	**7.9**	**10**	**mg/kg**	**10/04/07**	**22:07**

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Preparation Blank Results

Project:	709141	Matrix:	Soil
Lab Sample ID:	BLK100660	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100660
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	0.16	1.0	0.16	U	1	10/02/07 3:31

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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SW6010C

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Preparation Blank Results

Project:	709141	Matrix:	Soil
Lab Sample ID:	BLK100650	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100650
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	0.20	J	1	10/04/07 13:34

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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Preparation Blank Results

Project:	709141	Matrix:	Soil
Lab Sample ID:	BLK100668	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100668
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	10/04/07 19:07

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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Matrix Spike Recovery

Client ID:	SB-CZ-SS-2073-ST MS	Lab Sample ID:	SP709141-001-001-1/1
Project:	709141	Instrument:	V3050
Units:	mg/kg	Data File Name:	071001V.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/02/07 04:13	Sample Result 10/02/07 04:04	Spike Added	%R
Lead	92.96	11.78	83.33	97

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Matrix Spike Recovery

Client ID:	SB-CZ-SS-2085-ST MS	Lab Sample ID:	SP709141-013-013-1/1
Project:	709141	Instrument:	P3050
Units:	mg/kg	Data File Name:	071004.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/04/07 14:02	Sample Result 10/04/07 13:53	Spike Added	%R
Lead	108.35	27.20	81.30	100

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Matrix Spike Recovery

Client ID:	SB-CZ-SS2083-SD MS	Lab Sample ID:	SP709141-033-033-1/1
Project:	709141	Instrument:	P3050
Units:	mg/kg	Data File Name:	071004.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/04/07 19:35	Sample Result 10/04/07 19:26	Spike Added	%R
Lead	87.55	9.06	80.65	97

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Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2073-ST MSD	Lab Sample ID:	SD709141-001-001-1/1
Project:	709141	Instrument:	V3050
Units:	mg/kg	Data File Name:	071001V.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/02/07 04:21	Sample Result 10/02/07 04:04	Spike Added	%R
Lead	94.09	11.78	82.64	100

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Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2085-ST MSD	Lab Sample ID:	SD709141-013-013-1/1
Project:	709141	Instrument:	P3050
Units:	mg/kg	Data File Name:	071004.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/04/07 14:12	Sample Result 10/04/07 13:53	Spike Added	%R
Lead	110.61	27.20	82.64	101

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Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS2083-SD MSD	Lab Sample ID:	SD709141-033-033-1/1
Project:	709141	Instrument:	P3050
Units:	mg/kg	Data File Name:	071004.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/04/07 19:45	Sample Result 10/04/07 19:26	Spike Added	%R
Lead	85.76	9.06	78.74	97

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Duplicates RPD

Client ID:	SB-CZ-SS-2073-ST MSD	Lab Sample ID:	SD709141-001-001-1/1
Project:	709141	Instrument:	V3050
Units:	mg/kg	Data File Name:	071001V.ARC

Analyte	Matrix spike ~~Original~~ Sample Results		Matrix spike Duplicate Sample Results		RPD	Control Limit	Q
Lead	92.96		94.09		1	20	D

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Duplicates RPD

Client ID:	SB-CZ-SS-2085-ST MSD	Lab Sample ID:	SD709141-013-013-1/1
Project:	709141	Instrument:	P3050
Units:	mg/kg	Data File Name:	071004.ARC

Analyte	Matrix Spike Original Sample Results	Matrix Spike Duplicate Sample Results	RPD	Control Limit	Q
Lead	108.35	110.61	2	20	D

GPL Laboratories, LLLP

Duplicates RPD

Client ID:	SB-CZ-SS2083-SD MSD	Lab Sample ID:	SD709141-033-033-1/1
Project:	709141	Instrument:	P3050
Units:	mg/kg	Data File Name:	071004.ARC

Analyte	Matrix Spike Original Sample Results	Matrix Spike Duplicate Sample Results	RPD	Control Limit	Q
Lead	87.55	85.76	2	20	D

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	709141	Lab Sample ID:	BKS100660
Units:	mg/kg	Instrument:	V3050
		Data File Name:	071001V.ARC
Standard Source:	HIGH P	Standard ID:	

Analyte	Spiked Sample Result 10/02/07 03:56	Spike Added	%R
Lead	94.78	100.00	95

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	709141	Lab Sample ID:	BKS100650
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071004.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/04/07 13:44	Spike Added	%R
Lead	96.07	100.00	96

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	709141	Lab Sample ID:	BKS100668
Units:	mg/kg	Instrument:	P3050
		Data File Name:	071004.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 10/04/07 19:17	Spike Added	%R
Lead	98.96	100.00	99

Qualifier Definitions

SC&A, Inc.

Work Order: 709141

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

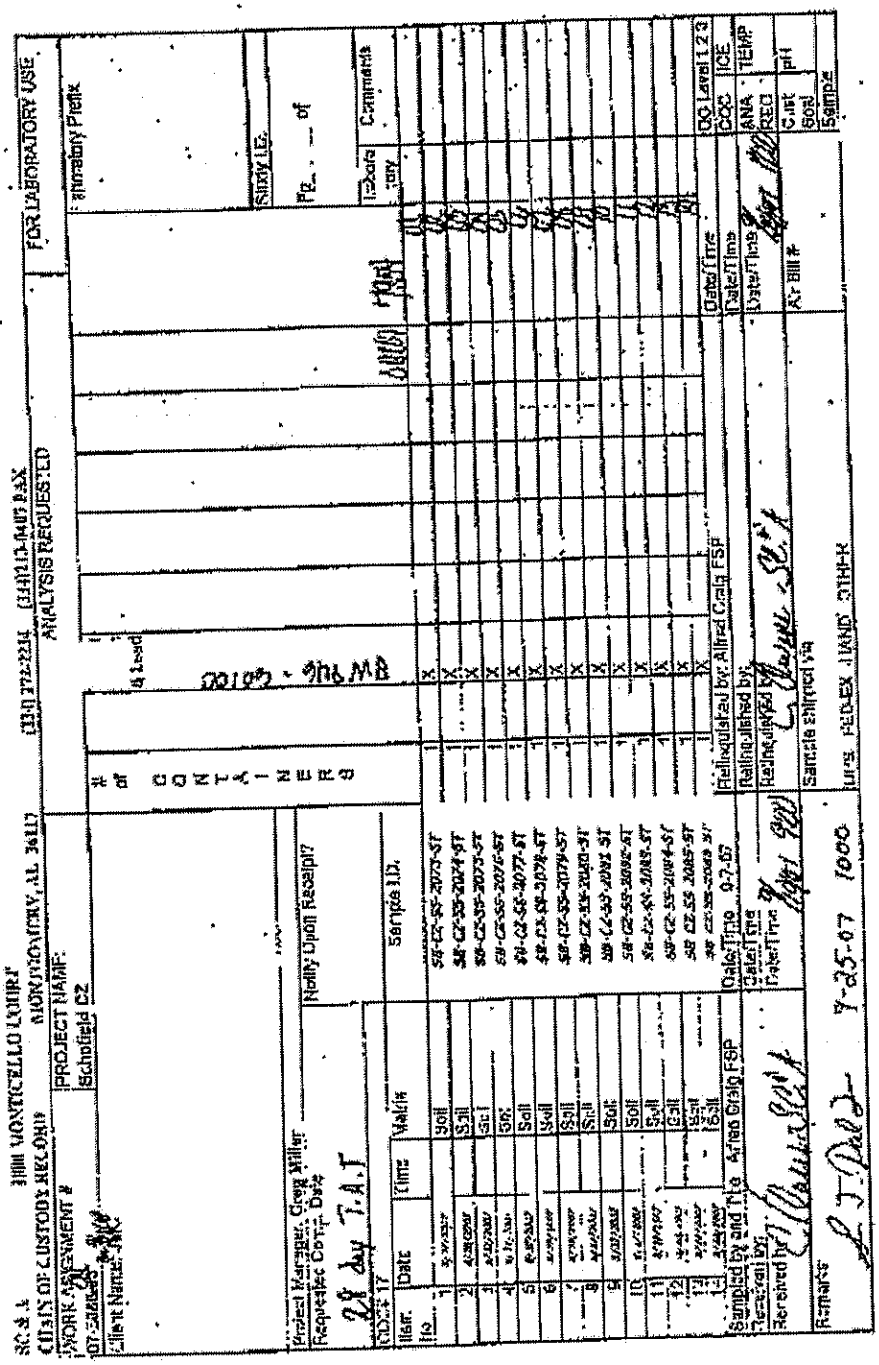
E Indicates that the reported value is estimated because of the possible presence of interference (i.e. the serial dilution not within control limits)

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



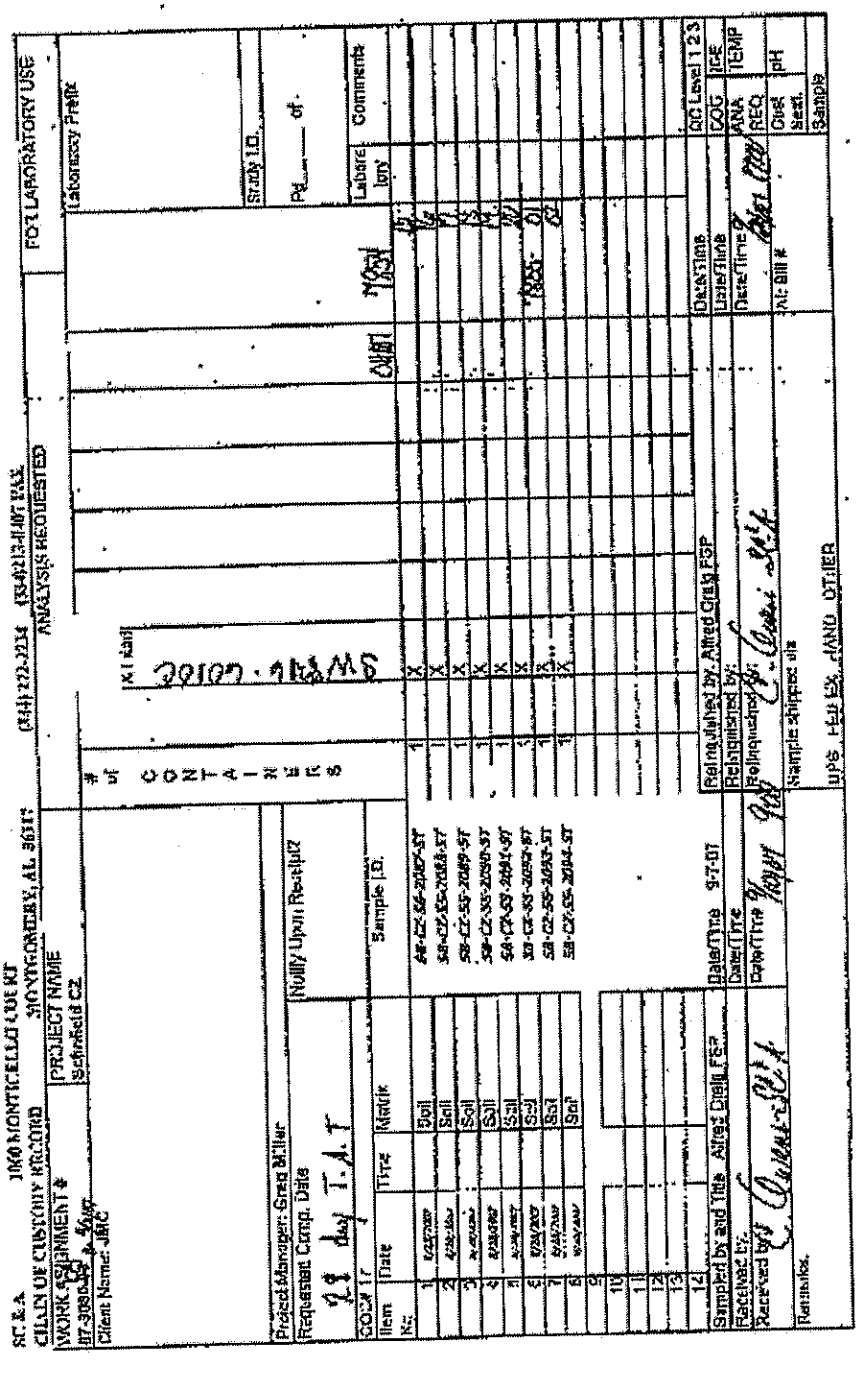
WO # 709141

GPL Laboratories, LLLP

Chain of Custody

SC&A, Inc.

SDG: 709141



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

WORK ASSIGNMENT # 07-3080-[illegible]
PROJECT NAME Schofield CZ
Client Name: JMC
Project Manager: Greg Miller
Requested Comp. Date 28 day T.A.T
Notify Upon Receipt?
COC# 1r

ANALYSIS REQUESTED

FOR LABORATORY USE
Laboratory Prefix
Study I.D.
Pg ___ of

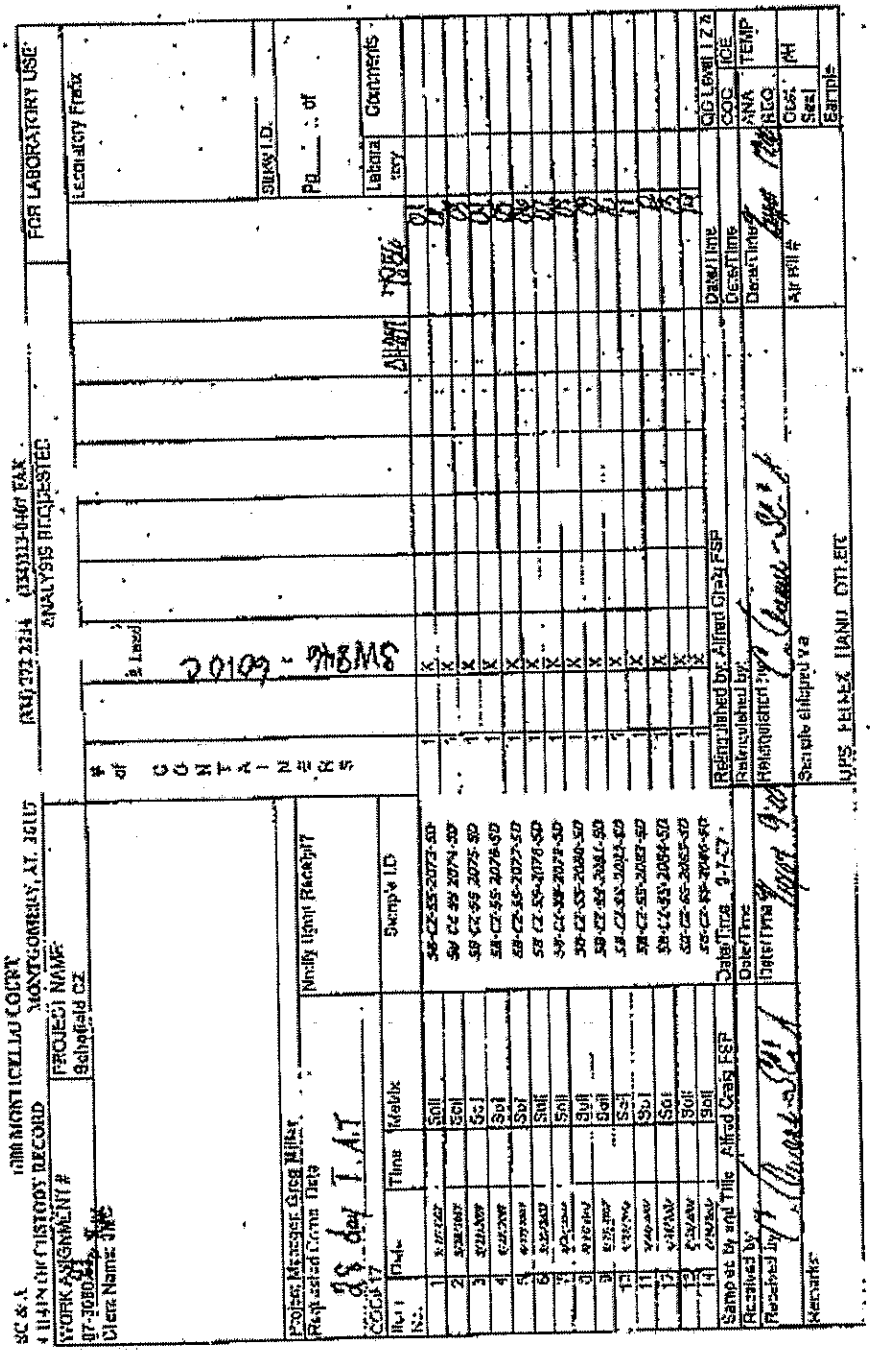
Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS	X 1 kind SW8[illegible] 6010C					0407	7854	Laboratory	Comments
1	[illegible]		Soil	SB-CZ-SS-2087-ST	1	X						[illegible]		
2	[illegible]		Soil	SB-CZ-SS-2088-ST	1	X						[illegible]		
3	[illegible]		Soil	SB-CZ-SS-2089-ST	1	X						[illegible]		
4	[illegible]		Soil	SB-CZ-SS-2090-ST	1	X						[illegible]		
5	[illegible]		Soil	SB-CZ-SS-2091-ST	1	X						[illegible]		
6	[illegible]		Soil	SB-CZ-SS-2092-ST	1	X						[illegible]		
7	[illegible]		Soil	SB-CZ-SS-2093-ST	1	X						[illegible]		
8	[illegible]		Soil	SB-CZ-SS-2094-ST	1	X						[illegible]		
9														
10														
11														
12														
13														
14														

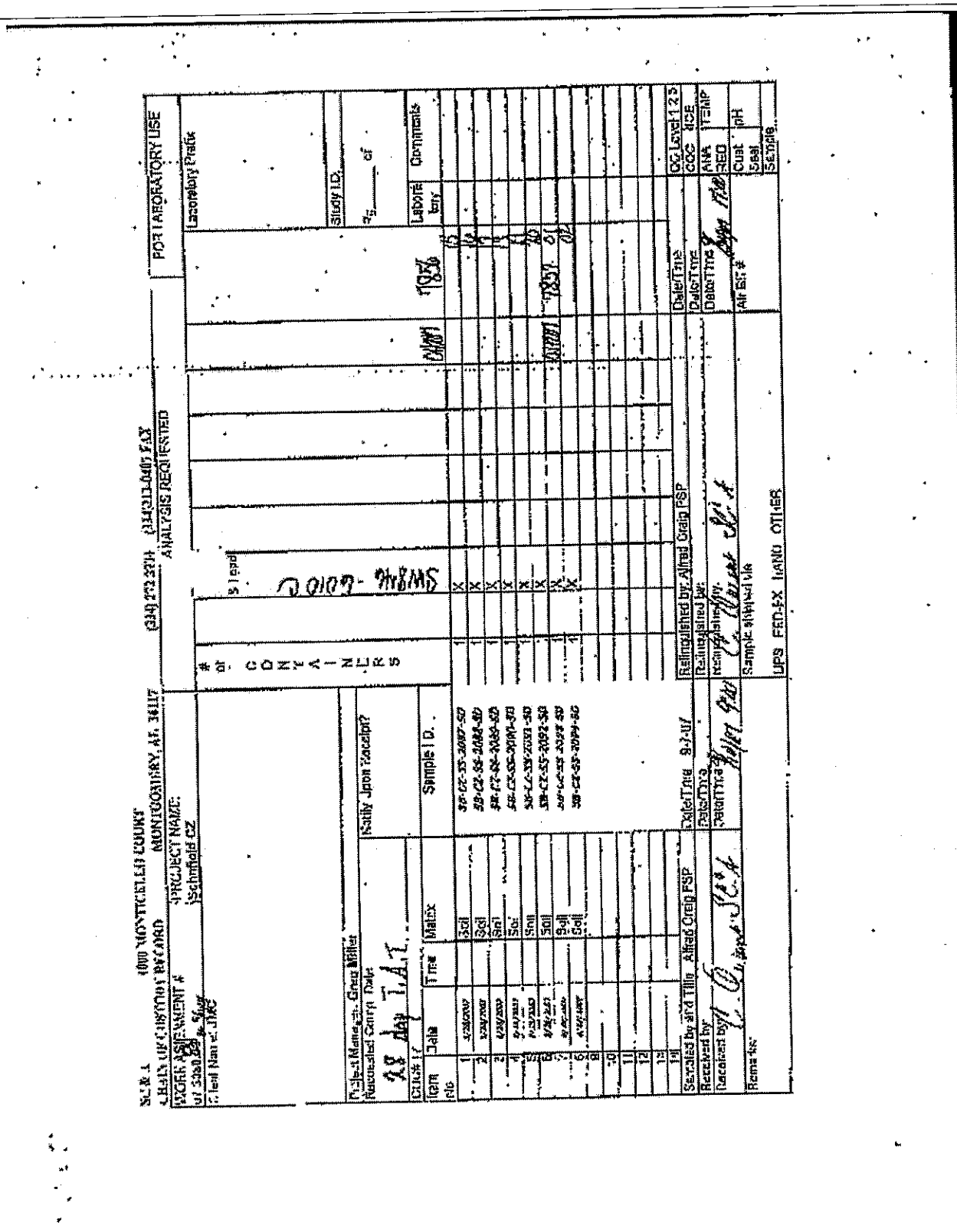
Sampled by and Title Alfred Craig FSP
Received by:
Received by: C. Owens SC&A
Date/Time 9-7-07
Date/Time
Date/Time 9/10/07 9:00
Remarks.

Relinquished by: Alfred Craig FSP
Relinquished by:
Relinquished by: C. Owens SC&A
Sample shipped via
UPS FED EX HAND OTHER

Date/Time
Date/Time
Date/Time 9/10/07 [illegible]
AI: Bill #

QC Level 1 2 3
COC ICE
ANA REQ TEMP
Cust Seal pH
Sample





FedEx | Ship Manager | Label 798270874221

Page 1 of 1

From: Origin ID: MGMA (334)272-2234
Angie Lewis
SC&A, Inc.
1000 Northside Dr.

Montgomery, AL 36117

FedEx Express

Ship Date: 24SEP07
Acctg: 3LB
System#: [illegible]
Account: [illegible]

Delivery Address Bar Code

SHIP TO: (301)694-5310 BILL SENDER

Pat Huebschman
GPL Laboratories
7210A Corporate Court

Frederick, MD 21703

Ref #
Invoice #
PO #
Dept #

TUE - 25SEP A2

TRK# 0201 7982 7087 4221

PRIORITY OVERNIGHT

XC-FDKA

IAD
MD-US
21703

Shipping Label: Your shipment is complete.

1. Use the 'Print' feature from your browser to send the 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 9/24/2007

GPL Laboratories, LLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 709141
Client Name: SC&A
Date Received: 10-25-07
Time Received: 0930
Received By: SLG

Carrier Name: Fed-ex
Prepared (Logged In) By: LJG / 10-25-07 (Initials Date)
Project:
Site:
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present? No. 7982 7067 4221	—	—
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 Type	—	✓
Chain-of-Custody Present?	✓	—
Chain-of-Custody Agrees with Sample Labels?	✓	—
Chain-of-Custody Signed?	✓	—
Packing Present in Shipping Container? Type of Packing Zip loc	✓	—
Custody seals on Sample Bottles? Condition: Good ___ Broken ___	—	✓
Total Number of Sample Bottles 44		
Total Number of Samples 44		
Samples Intact?	✓	—
Sufficient Sample Volume for Indicated Test?	✓	—

	YES	NO
Trip Blanks: No. of Sets ___	—	✓
Field Blanks: No. of Sets ___	—	✓
Equip. Blank 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: PAT
Date Contacted: 10-25-07

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A

COMMENTS:

Checklist Completed By: L J. Pal
Date: 10-25-07

SOP No: F.2V18

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: 7854

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-dry	Initials Date
01	1197.4	CD 9/10/01
02	1276.8	
03	1230.2	
04	1328.8	
05	946.5	
06	1187.6	
07	1075.8	
08	1145.5	
09	1265.2	
10	1282.4	
11	1120.3	
12	1209.2	
13	1139.9	
14	1286.5	
15	975.1	
16	1040.9	
17	1213.6	
18	979.7	
19	1121.3	
20	1335.3	"

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

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH201 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7855

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-dry	Initials Date
01	1280.8	CO 9/10/07
02	1346.3	"

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

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH201 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7856

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet or L) ~~g-dry~~	Initials Date
01	1192.8	CD 9/10/07
02	1248.8	
03	1248.5	
04	1430.6	
05	1014.3	
06	1275.8	
07	1261.3	
08	1196.2	
09	1471.8	
10	1515.1	
11	942.6	
12	1042.6	
13	1207.5	
14	1197.4	
15	897.5	
16	1058.7	
17	1114.4	
18	1060.1	
19	1326.0	
20	1127.4	

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

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH257 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7857

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-dry	Initials Date
01	1433.5	CD 9/10/07
02	1272.8	V

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

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 0H207
Sample Batch Number: 7854
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400ml

SOP No.: 302
Date: 9-23-07 sealed

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	499.1	CW 9/23/07
02	522.1	
03	486.0	
04	523.0	
05	361.7	
06	539.1	
07	449.0	
08	486.7	
09	545.4	
10	550.9	
11	435.3	
12	520.8	
13	438.5	
14	553.4	
15	418.6	
16	380.2	
17	444.0	
18	375.5	
19	483.9	
20	563.5	

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

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 011207
Sample Batch Number: 7855 thru 7855
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 480 ml

SOP No.: 302
Date: 9-23-07

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	500.2	CW 9/23/07
02	542.2	√

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: 7956
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 9.24.01 [illegible]

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	470.5	[illegible] 9/24/01
02	509.8	
03	498.9	
04	542.7	
05	413.4	
06	534.6	
07	405.7	
08	477.2	
09	577.0	
10	609.2	
11	409.7	
12	441.5	
13	456.9	
14	508.6	
15	362.0	
16	421.9	
17	475.9	
18	410.5	
19	506.1	
20	699.1	

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: 7857
Balance I.D.: 138

Sample Matrix: Soil
Sample Geometry: 400 mL

SOP No.: 302
Date: 9-24-01

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	522.0	CW 9/24/01
02	542.8	V

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

PREPARATION LOGS

GPL Laboratories, LLLP
Frederick, MD

GPL Laboratories, LLLP

Preparation Log

Project: 709141 Instrument: V3050

Prep Method: Batch Number: 100660

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100660	BLK100660	09/26/2007	1.00	100
BKS100660	BKS100660	09/26/2007	1.00	100
S 709141-001-001-1/1	SB-CZ-SS-2073-ST	09/26/2007	1.20	100
SP709141-001-001-1/1	SB-CZ-SS-2073-ST MS	09/26/2007	1.20	100
S 709141-002-002-1/1	SB-CZ-SS-2074-ST	09/26/2007	1.19	100
S 709141-003-003-1/1	SB-CZ-SS-2075-ST	09/26/2007	1.35	100
S 709141-004-004-1/1	SB-CZ-SS-2076-ST	09/26/2007	1.26	100
S 709141-005-005-1/1	SB-CZ-SS-2077-ST	09/26/2007	1.25	100
S 709141-006-006-1/1	SB-CZ-SS-2078-ST	09/26/2007	1.21	100
S 709141-007-007-1/1	SB-CZ-SS-2079-ST	09/26/2007	1.23	100
S 709141-008-008-1/1	SB-CZ-SS-2080-ST	09/26/2007	1.27	100
S 709141-009-009-1/1	SB-CZ-SS-2081-ST	09/26/2007	1.29	100
S 709141-010-010-1/1	SB-CZ-SS-2082-ST	09/26/2007	1.20	100
S 709141-011-011-1/1	SB-CZ-SS-2083-ST	09/26/2007	1.19	100
S 709141-012-012-1/1	SB-CZ-SS-2084-ST	09/26/2007	1.18	100
SD709141-001-001-1/1	SB-CZ-SS-2073-ST MSD	09/26/2007	1.21	100

GPL Laboratories, LLLP

Preparation Log

Project:	709141	Instrument:	P3050
Prep Method:	Preparation for the Manual Cold	Batch Number:	100650

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100650	BLK100650	09/26/2007	1.00	100
BKS100650	BKS100650	09/26/2007	1.00	100
S 709141-023-023-1/1	SB-CZ-SS-2073-SD	09/26/2007	1.20	100
S 709141-024-024-1/1	SB-CZ-SS-2074-SD	09/26/2007	1.12	100
S 709141-025-025-1/1	SB-CZ-SS-2075-SD	09/26/2007	1.22	100
S 709141-026-026-1/1	SB-CZ-SS-2076-SD	09/26/2007	1.19	100
S 709141-027-027-1/1	SB-CZ-SS-2077-SD	09/26/2007	1.17	100
S 709141-028-028-1/1	SB-CZ-SS-2078-SD	09/26/2007	1.24	100
S 709141-029-029-1/1	SB-CZ-SS-2079-SD	09/26/2007	1.25	100
S 709141-030-030-1/1	SB-CZ-SS-2080-SD	09/26/2007	1.18	100
S 709141-031-031-1/1	SB-CZ-SS-2081-SD	09/26/2007	1.17	100
S 709141-032-032-1/1	SB-CZ-SS-2082-SD	09/26/2007	1.21	100
S 709141-013-013-1/1	SB-CZ-SS-2085-ST	09/26/2007	1.27	100
SP709141-013-013-1/1	SB-CZ-SS-2085-ST MS	09/26/2007	1.23	100
S 709141-014-014-1/1	SB-CZ-SS-2086-ST	09/26/2007	1.19	100
S 709141-015-015-1/1	SB-CZ-SS-2087-ST	09/26/2007	1.16	100
S 709141-016-016-1/1	SB-CZ-SS-2088-ST	09/26/2007	1.17	100
S 709141-017-017-1/1	SB-CZ-SS-2089-ST	09/26/2007	1.23	100
S 709141-018-018-1/1	SB-CZ-SS-2090-ST	09/26/2007	1.20	100
S 709141-019-019-1/1	SB-CZ-SS-2091-ST	09/26/2007	1.20	100
S 709141-020-020-1/1	SB-CZ-SS-2092-ST	09/26/2007	1.20	100
S 709141-021-021-1/1	SB-CZ-SS-2093-ST	09/26/2007	1.21	100
S 709141-022-022-1/1	SB-CZ-SS-2094-ST	09/26/2007	1.25	100
SD709141-013-013-1/1	SB-CZ-SS-2085-ST MSD	09/26/2007	1.21	100

GPL Laboratories, LLLP

Preparation Log

Project: 709141 Instrument: P3050

Prep Method: Batch Number: 100668

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100668	BLK100668	09/27/2007	1.00	100
BKS100668	BKS100668	09/27/2007	1.00	100
S 709141-033-033-1/1	SB-CZ-SS2083-SD	09/27/2007	1.20	100
SP709141-033-033-1/1	SB-CZ-SS2083-SD MS	09/27/2007	1.24	100
S 709141-034-034-1/1	SB-CZ-SS-2084-SD	09/27/2007	1.18	100
S 709141-035-035-1/1	SB-CZ-SS-2085-SD	09/27/2007	1.15	100
S 709141-036-036-1/1	SB-CZ-SS-2086-SD	09/27/2007	1.25	100
S 709141-037-037-1/1	SB-CZ-SS-2087-SD	09/27/2007	1.18	100
S 709141-038-038-1/1	SB-CZ-SS-2088-SD	09/27/2007	1.25	100
S 709141-039-039-1/1	SB-CZ-SS-2089-SD	09/27/2007	1.13	100
S 709141-040-040-1/1	SB-CZ-SS-2090-SD	09/27/2007	1.15	100
S 709141-041-041-1/1	SB-CZ-SS-2091-SD	09/27/2007	1.32	100
S 709141-042-042-1/1	SB-CZ-SS-2092-SD	09/27/2007	1.25	100
S 709141-043-043-1/1	SB-CZ-SS-2093-SD	09/27/2007	1.30	100
S 709141-044-044-1/1	SB-CZ-SS-2094-SD	09/27/2007	1.27	100
SD709141-033-033-1/1	SB-CZ-SS2083-SD MSD	09/27/2007	1.27	100

Metals Preparation & Sample Description Log

Date: 9/26/07 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A/ ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198-142

Analyst: ST. Comments: MOD BLOCK Digestion (SOIL)

Reviewed by: RA Date: 10-2-07 Spike Witness: Pep. Seq: 100660

	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	142		1.00	100	S				Clear	—
2	BKS	142		1.00							—
3	709141	001	001-1/1	1.20		Soil	Brown	Yellow	MED.		—
4		001MS		1.20							
5		MSD		1.21							
6		002	002-1/1	1.19							
7		003	003-1/1	1.35							
8		004	004-1/1	1.26							
9		005	005-1/1	1.25							
10		006	006-1/1	1.21							
11		007	007-1/1	1.23							
12		008	008-1/1	1.27							
13		009	009-1/1	1.29							
14		010	010-1/1	1.20							
15		011	011-1/1	1.19							
16	↓	012	012-1/1	1.18							
17	709137	041	041-1/1	1.27							
18		042	042-1/1	1.25							
19		043	043-1/1	1.23							
20		044	044-1/1	1.18							
21		45	045-1/1	1.24							
22		046	046-1/1	1.25							
23		047	047-1/1	1.15							
24	↓	048	048-1/1	1.23	↓	↓	↓	↓	↓	↓	↓

LCS ID/ Amt. Added (ml,g): 0.2ml (40827, 40828, 40829)

Spiking ID / Amt. Added (ml): 0.2ml (40827, 40828, 40829)

10ml 1:1 HNO3 10 ml HNO3 Conc, 7mL H2O2, 10ml HCl Conc

Temperature C: 94°C

HNO3(1+1) ID: GP 057157-07

HNO3(conc) ID: GP 129-11-03

HCl(conc) ID: GP 129-11-04

HCl(1+1) ID: —

Peroxide ID: GP-129-10-12

Metals Preparation & Sample Description Log

Date: 9/26/07 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198-143

Analyst: ST. Comments: MOD Block Digestion (Soil)

Reviewed by: [illegible] Date: 9/29/7 Spike Witness: Pep. Seq: 100650

	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	143		1.00	100	S				Clear	—
2	BKS	143		1.00							—
3	709141	013	013 1/1	1.27			Brown	Yellow	MED		—
4		MS	1/	1.23							
5		MSD	↓	1.21							
6		014	014-1/1	1.19							
7		015	015-1/1	1.16							
8		016	016-1/1	1.17							
9		017	017-1/1	1.23							
10		018	018-1/1	1.20							
11		019	019 1/1	1.20							
12		020	020-1/1	1.20							
13		021	021-1/1	1.21							
14		022	022 1/1	1.25							
15		023	023-1/1	1.20							
16		024	024-1/1	1.120							
17		025	025 1/1	1.227							
18		026	026-1/1	1.19							
19		027	027 1/1	1.17							
20		028	028-1/1	1.24							
21		029	029 1/1	1.25							
22		030	030 1/1	1.18							
23		031	031 1/1	1.17							
24	↓	032	032 1/1	1.21	↓	↓	↓	↓	↓	↓	↓

LCS ID/ Amt. Added (ml ,g): 0.2 ml (40827, 40828, 40829)

Spiking ID / Amt. Added (ml): 0.2 ml (40827, 40828, 40829)

10ml 1:1 HNO_3, 10ml HNO_3 conc, 7ml H_2O_2, 10ml HCl conc.

Temperature C: 94°C

HNO3(1+1) ID: GP-057-157-07

HNO3(conc) ID: GP-129-11-03

HCl(conc) ID: GP-129-11-04

HCl(1+1) ID: —

Peroxide ID: GP-129-10-12

Metals Preparation & Sample Description Log

Date: 9-27-07 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198 144

Analyst: MM Comments: MoD BLOCK DIGESTION (Soil)

Reviewed by: M Date: 10/9/07 Spike Witness: Pep. Seq: 100668

	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	144		1.00	100	S				Clear	~
2	BKS	144		1.00							~
3	709141	033	-033	1.20		Soil	Brown	yellow	Medium		
4		MS		1.24							
5		MSD		1.27							
6		034	-034	1.18							
7		035	-035	1.15							
8		036	-036	1.25							
9		037	-037	1.18							
10		038	-038	1.25							
11		039	-039	1.13							
12		040	-040	1.15							
13		041	-041	1.32							
14		042	-042	1.25							
15		043	-043	1.30							
16		044	044	1.27							
17											
18											
19											
20											
21											
22											
23											
24											

MM 9-27-07

LCS ID/ Amt. Added (ml,g): 0.2 ml (40827, 40828, 40829)

Spiking ID / Amt. Added (ml): 0.2 ml (40827, 40828, 40829)

Temperature C: 95°C

HNO3(1+1) ID: GA-05 - 157-07

HNO3(conc) ID: GA-129-11-03

HCl(conc) ID: GA-129-11-09

HCl(1+1) ID: ~

Peroxide ID: GA-129-10-12

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

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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

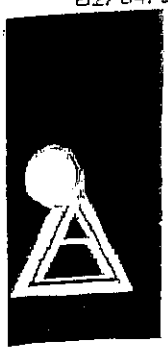
ISOTOPE	GAMMA-RAY ENERGY	HALF-LIFE		GAMMA-RAYS PER SECOND	TOTAL UNCERTAINTY %
Am-241	59.5	432	y	658.4	3.0
Cd-109	88	462.6	d	934.5	3.3
Co-57	122	271.79	d	543.4	3.0
Ce-139	166	137.6	d	734.4	2.8
Hg-203	279	46.61	d	1645	2.7
Sn-113	392	115.1	d	959.6	2.6
Cs-137	662	30.07	y	632.3	3.0
Y-88	898	106.6	d	2461	2.6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



ANALYTICS

SH2-150

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: 640g

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

EXP. DATE: ~~01-01-2005~~ 4-1-05
2-5-05
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. S 142 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 pCi/~~dpm/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 pCi/~~dpm/ml~~Sample) 9.0%

Two Standard Deviations (2σ) = 1,900 pCi/~~dpm/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:	9/10/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7854 7857			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7854-PB ✓		9/10/2007 9:00:00 AM	
SCAQC	7854-LD1 ✓ OH207-7854-01	SB-CZ-SS-2073-ST	8/27/2007	
SCAQC	7854-LC1 ✓		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7854-01 ✓	SB-CZ-SS-2073-ST	8/27/2007	
OH207	7854-02 ✓	SB-CZ-SS-2074-ST	8/27/2007	
OH207	7854-03 ✓	SB-CZ-SS-2075-ST	8/27/2007	
OH207	7854-04 ✓	SB-CZ-SS-2076-ST	8/27/2007	
OH207	7854-05 ✓	SB-CZ-SS-2077-ST	8/27/2007	
OH207	7854-06 ✓	SB-CZ-SS-2078-ST	8/27/2007	
OH207	7854-07 ✓	SB-CZ-SS-2079-ST	8/27/2007	
OH207	7854-08 ✓	SB-CZ-SS-2080-ST	8/27/2007	
OH207	7854-09 ✓	SB-CZ-SS-2081-ST	8/27/2007	
OH207	7854-10 ✓	SB-CZ-SS-2082-ST	8/27/2007	
OH207	7854-11 ✓	SB-CZ-SS-2083-ST	8/27/2007	
OH207	7854-12 ✓	SB-CZ-SS-2084-ST	8/28/2007	
OH207	7854-13 ✓	SB-CZ-SS-2085-ST	8/28/2007	
OH207	7854-14 ✓	SB-CZ-SS-2086-ST	8/28/2007	
OH207	7854-15 ✓	SB-CZ-SS-2087-ST	8/28/2007	
OH207	7854-16 ✓	SB-CZ-SS-2088-ST	8/28/2007	
OH207	7854-17 ✓	SB-CZ-SS-2089-ST	8/28/2007	
OH207	7854-18 ✓	SB-CZ-SS-2090-ST	8/28/2007	
OH207	7854-19 ✓	SB-CZ-SS-2091-ST	8/28/2007	
OH207	7854-20 ✓	SB-CZ-SS-2092-ST	8/28/2007	

Radiochemistry Reviewer 10/25/07 Date

QA Reviewer 10/25/2007 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
10-17-07 1414 G1	60	SCAQC	8008	LD1	—	NOW	Dup-8008-LC1	Liquid	1L	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ Ra-224 planchet 10 mL Sand ☐ 200 mL Sand ☐
10-16-07 1841 G2	240 K 500 10-16-07	MTL07	8008	01	—	10-15-07 1020	Well 16A Waste	Liquid	5L	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ Ra-224 planchet 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 0529 G2K	180	SCAQC	7854	PB1	—	9-10-07 0900	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 ☐
10-18-07 0530 G3K	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 ☐
10-18-07 0633 G3K	180	↓	↓	LD1	—	8-27-07	DUP 7854-01	SOIL	499.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 1257 1445 G1	↓	OH207	↓	01	—	↓	SB-C2-SS-2073-ST	↓	499.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 0832 G1	↓	↓	↓	02	—	↓	2074-ST	↓	522.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 0833 G2	↓	↓	↓	03	—	↓	2075-ST	↓	486.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 0941 G1K	↓	↓	↓	04	—	↓	2076-ST	↓	523.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 1258 G2	↓	↓	↓	05	—	↓	2077-ST	↓	361.7 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

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
10-18-07 1254 G3	180	OH207	7854	06	-	8-27-07	SB-CZ-SS-2078-ST	Soil	539.1 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 1604 G1				07	-		2079-ST		449.0 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 1610 G2				08	-		2080-ST		486.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 1611 G3				09	-		2081-ST		545.4 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 19:18 G1 MW				10	-		2082-ST		550.9 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 19:20 G2 MW				11	-		2083-ST		435.3 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 19:21 G3 MW				12	-	8-28-07	2084-ST		520.8 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 23:22 G1 MW				13	-		2085-ST		438.5 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 23:24 G2 MW				14	-		2086-ST		553.4 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-18-07 23:26 G3 MW				15	-		2087-ST		418.6 g dry	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
10-19-07 02:37 G1 MW	180	OH207	7854	16	-	8-28-07	SB-CZ-SS-2088-ST	SOIL	380.2 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 02:38 G2 MW				17	-		2089-ST		444.0 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 02:39 G3 MW				18	-		2090-ST		375.5 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 0724 G1 LCW				19	-		2091-ST		483.9 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 0724 G3 LCW				20	-		2092-ST		563.5 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 10:18 0904 G2	180	SCAQC	7855	PB1	-	9-10-07 0900	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 ☐
10-19-07 0750 G2 LCW	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 ☐
10-19-07 1035 G1 MW 4344	180			LD1	-	8-28-07	DUP 7855-01		500.2 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 G3 9/	180	OH207		01	-		SB-CZ-SS-2093-ST			400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1036 G3	180			02	-		SB-CZ-SS-2094-ST		542.2 g dry	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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SC&A - Southeastern Environmental Laboratory
SCA-Form 012 Rev. 1

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 08:37:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7854PB1_GAMMA2_400MLLI_16578.CNF

---- Sample Information ----

Sample ID	: SCAQC-7854-PB1		
Sample Title	: PREP BLANK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16578		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 18-OCT-2007 05:31:10
Decay time	: 37 20:31:10.71	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.58

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	352.46*	35	70	1.43	702.23	698	9101.9	0.00E+00		
0	609.93*	53	41	1.70	1215.48	1209	15	64.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	352.46	35	70	1.43	702.23	698	9	3.22E-03	****	2.07E+00	T
0	609.93	53	41	1.70	1215.48	1209	15	4.95E-03	64.8	1.30E+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	-6.125E-02		1.280E-01	2.516E-01	1.620E-02	-0.243
CO-60	-2.195E-03		7.570E-03	1.410E-02	7.790E-04	-0.156
RH-101	-7.238E-03		1.104E-02	1.735E-02	2.709E-03	-0.417
SB-125	-7.286E-03		2.853E-02	4.863E-02	3.987E-03	-0.150
CS-137	7.867E-04		9.900E-03	1.832E-02	2.084E-03	0.043
EU-155	-1.597E-02		3.240E-02	5.374E-02	5.032E-03	-0.297
TL-208	1.208E-02		1.071E-02	2.086E-02	2.172E-03	0.579
PO-209	-7.163E-01		1.980E+00	3.428E+00	6.572E-01	-0.209
BI-211	-2.242E-01		2.851E-01	4.662E-01	4.564E-02	-0.481
BI-212	5.240E-02		7.436E-02	1.459E-01	1.595E-02	0.359
PB-212	1.811E-02		1.913E-02	3.492E-02	2.668E-03	0.519
BI-214	5.579E-02	+	3.666E-02	5.056E-02	5.384E-03	1.103
PB-214	2.788E-02	+	2.848E-02	4.345E-02	3.332E-03	0.642
RA-223	-4.485E-02		5.675E-02	9.311E-02	8.284E-03	-0.482
AC-228	-2.075E-02		3.733E-02	6.602E-02	5.737E-03	-0.314
PA-233	-7.057E-03		1.879E-02	3.218E-02	2.592E-03	-0.219
PA-234M	6.106E-01		1.292E+00	2.495E+00	1.947E-01	0.245
TH-234	-7.631E-02		1.883E-01	3.422E-01	3.423E-02	-0.223
U-235	6.236E-03		6.629E-02	1.093E-01	7.978E-03	0.057
NP-236	2.548E-03		1.931E-02	3.336E-02	3.316E-03	0.076
NP-237	3.807E-02		7.586E-02	1.305E-01	1.640E-02	0.292
NP-239	-1.166E-02		6.414E-02	1.125E-01	1.518E-02	-0.104
AM-241	1.631E-02		5.019E-02	8.932E-02	5.859E-03	0.183
AM-243	-3.335E-03		1.674E-02	2.860E-02	5.700E-03	-0.117
CM-243	-7.127E-03		2.953E-02	4.985E-02	5.389E-03	-0.143
AM-246	2.462E-02		3.341E-02	6.733E-02	8.612E-03	0.366
CF-249	-2.661E-03		1.150E-02	1.978E-02	1.895E-03	-0.135

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 08:17:24

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7854LC1_GAMMA3_400MLSA_16579.CNF

---- Sample Information ----

Sample ID	: SCAQC-7854-LC1		
Sample Title	: CTRL SAMPLE S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16579		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 18-OCT-2007 05:32:38
Decay time	: 37 20:32:38.02	% dead time	: 0.2%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:05.61

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	51.50	8539	15949	3.27	114.46	102	37	7.7	3.33E+02	
10	59.52	76601	5180	1.56	132.24	102	37	0.8		AM-241
0	88.06	14850	6120	1.38	195.50	188	16	2.9		
0	122.13	2042	3161	1.50	271.02	266	11	11.6		
0	136.72	303	2533	2.07	303.37	299	9	60.9		
0	238.67*	366	1992	1.15	529.33	525	8	43.7		
0	661.64	22955	1176	1.77	1466.83	1459	16	1.5		CS-137
0	1173.27	17647	703	2.01	2600.69	2589	21	1.7		CO-60
0	1332.58	15902	152	2.16	2953.74	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	8539	15949	3.27	114.46	102	37	2.37E+00	7.7	2.99E+00	
0	88.06	14850	6120	1.38	195.50	188	16	4.12E+00	2.9	3.55E+00	T
0	122.13	2042	3161	1.50	271.02	266	11	5.67E-01	11.6	3.39E+00	
0	136.72	303	2533	2.07	303.37	299	9	8.43E-02	60.9	3.26E+00	
0	238.67	366	1992	1.15	529.33	525	8	1.02E-01	43.7	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	3.196E+01	2.018E+00	9.789E-02	5.191E-03	326.454
CS-137	3.019E+01	2.219E+00	1.881E-01	1.355E-02	160.480
AM-241	7.718E+01	4.923E+00	3.303E-01	2.090E-02	233.652

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	4.197E-01		4.701E-01	8.879E-01	5.224E-02	0.473
RH-101	3.470E-02		8.795E-02	1.473E-01	2.274E-02	0.236
SB-125	4.609E-02		3.095E-01	5.255E-01	4.344E-02	0.088
EU-155	-2.828E-02		2.282E-01	3.879E-01	3.647E-02	-0.073
TL-208	8.165E-02		1.073E-01	1.826E-01	1.453E-02	0.447
PO-209	-4.928E+00		2.983E+01	5.045E+01	9.295E+00	-0.098
BI-211	2.283E+00		3.727E+00	6.204E+00	4.468E-01	0.368
BI-212	7.321E-02		8.786E-01	1.459E+00	1.059E-01	0.050
PB-212	4.123E-01	+	1.828E-01	2.868E-01	2.144E-02	1.438
BI-214	2.471E-01		2.062E-01	3.523E-01	2.684E-02	0.701
PB-214	3.724E-01		2.159E-01	3.598E-01	2.862E-02	1.035
RA-223	6.180E-02		5.096E-01	8.427E-01	7.461E-02	0.073
AC-228	4.733E-01		5.696E-01	9.788E-01	6.882E-02	0.484
PA-233	8.803E-02		1.937E-01	3.201E-01	2.612E-02	0.275
PA-234M	4.270E+00		1.746E+01	2.962E+01	2.022E+00	0.144
TH-234	-3.680E-03		1.058E+00	1.507E+00	1.349E-01	-0.002
U-235	-1.749E-01		4.687E-01	7.874E-01	5.844E-02	-0.222
NP-236	-1.091E-01		1.298E-01	2.061E-01	1.966E-02	-0.529
NP-237	3.089E+01		3.521E+00	1.536E+00	1.712E-01	20.111
NP-239	-3.659E-01		6.395E-01	1.050E+00	1.404E-01	-0.349
AM-243	-3.781E-02		9.394E-02	1.512E-01	2.908E-02	-0.250
CM-243	1.091E-02		2.060E-01	3.512E-01	3.784E-02	0.031
AM-246	-4.752E-01		5.235E-01	8.569E-01	1.082E-01	-0.555
CF-249	-1.850E-01		1.262E-01	2.075E-01	2.066E-02	-0.892

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 09:34:55

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7854LD1_GAMMA3_400MLSA_16580.CNF

---- Sample Information ----

Sample ID	: SCAQC-7854-LD1		
Sample Title	: DUP 7854-01		
Sample Quantity	: 4.99100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16580		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 06:34:37
Decay time	: 52 06:34:37.74	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.94

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.88*	634	879	1.75	166.29	159	22	21.7	1.68E+00	AM-243
										PB-214
										PB-212
3	77.24*	833	663	1.33	171.51	159	22	14.0		PB-214
										PB-212
2	87.19	384	655	1.50	193.58	182	32	27.0	1.88E+00	NP-237
										PB-214
										PB-212
2	89.96	224	634	1.55	199.71	182	32	46.1		
2	92.81*	391	666	1.63	206.04	182	32	30.4		
0	129.37	132	603	1.66	287.08	282	11	74.1		AC-228
0	185.79*	285	615	1.31	412.13	404	14	40.0		
0	209.53	198	492	1.66	464.75	458	13	48.5		AC-228
2	238.69*	1504	330	1.40	529.39	524	20	6.9	1.01E+00	PB-212
2	241.53	382	343	1.85	535.67	524	20	27.4		PB-214
0	270.33	203	363	2.06	599.51	592	15	43.2		RA-223
										AC-228
0	295.40	410	208	1.62	655.07	650	11	16.9		PB-214
0	338.43*	269	215	1.51	750.45	744	12	25.2		AC-228
0	352.18*	580	355	1.22	780.92	773	15	16.5		PB-214
0	463.18	80	137	1.28	1026.95	1022	10	59.1		AC-228
0	583.17*	477	119	1.57	1292.91	1286	14	13.5		TL-208
0	609.53*	478	176	1.61	1351.32	1341	19	16.3		BI-214
0	661.87	163	119	1.58	1467.33	1460	15	33.2		CS-137
0	727.08	113	84	1.25	1611.85	1605	14	39.3		BI-212
0	795.21	71	56	1.40	1762.85	1757	12	47.6		AC-228
0	861.23	41	63	1.60	1909.16	1903	15	90.9		TL-208
0	911.43*	299	84	1.93	2020.41	2012	15	17.8		AC-228
0	968.04	216	114	1.60	2145.89	2136	19	27.3		AC-228
0	1120.44*	94	58	2.14	2483.61	2475	16	42.9		BI-214
0	1239.48	53	45	1.81	2747.42	2738	17	65.3		BI-214
0	1460.86*	360	15	2.70	3238.01	3228	20	12.2		K-40
0	1764.53*	83	4	2.79	3910.91	3902	18	26.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.96	224	634	1.55	199.71	182	32	2.07E-02	46.1	3.55E+00	
2	92.81	391	666	1.63	206.04	182	32	3.62E-02	30.4	3.55E+00	T
0	185.79	285	615	1.31	412.13	404	14	2.63E-02	40.0	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.035E+00	4.113E-01	2.035E-01	1.197E-02	14.911
CS-137	9.171E-02	3.116E-02	2.903E-02	2.090E-03	3.159
TL-208	2.420E-01	3.802E-02	2.768E-02	2.203E-03	8.745
BI-212	4.941E-01	1.976E-01	1.949E-01	1.415E-02	2.535
PB-212	7.250E-01	7.364E-02	4.249E-02	3.176E-03	17.061
BI-214	4.616E-01	8.302E-02	5.331E-02	4.062E-03	8.659
PB-214	4.320E-01	7.923E-02	5.461E-02	4.344E-03	7.911
RA-223	3.377E-01	1.490E-01	1.302E-01	1.153E-02	2.594
AC-228	7.239E-01	1.387E-01	8.834E-02	6.211E-03	8.194
NP-237	4.368E-01	1.275E-01	1.284E-01	1.432E-02	3.401
AM-243	1.335E-01	3.870E-02	2.550E-02	4.905E-03	5.234

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.703E-05		1.447E-02	2.585E-02	1.573E-03	-0.003
RH-101	8.848E-04		1.623E-02	2.743E-02	4.234E-03	0.032
SB-125	-7.223E-04		4.051E-02	7.072E-02	5.846E-03	-0.010
EU-155	4.406E-02		4.640E-02	8.166E-02	7.679E-03	0.540
PO-209	1.418E+00		2.867E+00	5.322E+00	9.805E-01	0.266
BI-211	9.091E-02		4.647E-01	8.088E-01	5.825E-02	0.112
PA-233	-2.711E-03		2.826E-02	4.733E-02	3.863E-03	-0.057
PA-234M	2.004E+00		1.929E+00	3.649E+00	2.492E-01	0.549
TH-234	1.021E+00	+	3.234E-01	4.414E-01	2.937E-02	2.313
U-235	2.037E-02		9.478E-02	1.629E-01	1.209E-02	0.125
NP-236	3.650E-02		2.925E-02	4.365E-02	4.166E-03	0.836
NP-239	-6.327E-03		1.013E-01	1.709E-01	2.286E-02	-0.037
AM-241	-7.912E-02		3.105E-02	4.672E-02	2.957E-03	-1.694
CM-243	1.537E-02		4.089E-02	7.121E-02	7.673E-03	0.216
AM-246	-1.949E-02		5.192E-02	8.939E-02	1.128E-02	-0.218
CF-249	1.303E-02		1.781E-02	3.207E-02	3.194E-03	0.406

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 15:58:06

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785401_GAMMA1_400MLSAN_16585.CNF

---- Sample Information ----

Sample ID	: OH207-7854-01		
Sample Title	: SB-CZ-SS-2073-ST		
Sample Quantity	: 4.99100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16585		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 12:57:04
Decay time	: 52 12:57:04.73	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.29

---- 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 W Moore Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.88	321	409	1.12	149.16	143	15	24.5	2.28E+00	AM-243
										PB-214
										PB-212
2	77.23*	548	406	1.13	153.88	143	15	15.6		PB-214
										PB-212
0	87.22	191	477	1.44	173.88	171	7	40.5		NP-237
										PB-214
										PB-212
2	93.29*	107	471	1.17	186.05	182	8	77.1	1.41E+00	
0	99.30	106	411	1.12	198.08	195	8	69.8		NP-236
1	128.23	66	360	1.02	256.00	252	10	96.8	2.48E+00	
1	129.19	77	420	1.12	257.92	252	10	92.4		AC-228
0	186.12*	324	568	1.42	371.92	367	12	32.1		
2	208.85	66	239	1.12	417.43	415	8	80.0	5.37E+00	
2	209.40	139	379	1.32	418.53	415	8	51.8		AC-228
2	238.64*	1600	308	1.08	477.08	472	20	6.2	1.46E+00	PB-212
2	241.16	199	234	1.24	482.13	472	20	40.1		
2	242.11	181	213	1.17	484.02	472	20	36.5		PB-214
0	269.93	154	296	1.17	539.74	536	10	44.7		RA-223
										AC-228
0	295.37	370	252	1.14	590.67	587	10	19.4		PB-214
0	300.04	124	180	1.14	600.03	596	8	41.7		PB-212
0	328.07	124	212	1.77	656.15	652	10	47.6		
0	338.40*	376	259	1.22	676.82	672	12	20.2		AC-228
0	351.82*	789	149	1.37	703.69	699	9	9.1		PB-214
0	409.97	61	188	1.34	820.14	812	11	91.4		AC-228
0	462.88	125	210	1.89	926.06	918	14	52.3		AC-228
0	510.73*	256	174	1.63	1021.87	1015	16	28.8		TL-208
0	582.96*	579	116	1.60	1166.50	1161	14	11.6		TL-208
0	609.02*	549	167	1.59	1218.66	1211	17	13.9		BI-214
0	661.53	178	109	1.34	1323.79	1317	14	29.0		CS-137
0	727.36	161	90	1.59	1455.58	1449	16	30.9		BI-212
0	785.80	41	55	1.01	1572.59	1568	10	76.4		BI-212
0	795.09	68	81	1.93	1591.18	1584	14	60.7		AC-228
0	839.11	67	132	10.40	1679.32	1668	25	95.3		
0	860.12	94	37	2.18	1721.36	1713	15	35.1		TL-208
0	910.83*	438	40	1.90	1822.89	1817	13	11.5		AC-228
5	964.22	82	46	2.06	1929.77	1925	20	38.4	1.28E+00	AC-228
5	968.54*	232	48	1.74	1938.41	1925	20	17.3		AC-228
0	1120.07	130	49	1.63	2241.75	2235	15	29.3		BI-214
0	1237.56	61	34	1.41	2476.93	2472	11	44.5		BI-214
0	1376.82	55	28	1.95	2755.68	2747	20	55.9		BI-214
0	1460.09*	419	27	1.70	2922.35	2913	18	11.5		K-40
0	1496.55	26	21	0.60	2995.32	2986	19	98.4		
0	1589.06	61	34	5.23	3180.48	3172	19	52.0		AC-228
0	1763.69*	100	21	1.64	3529.99	3521	17	29.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	93.29	107	471	1.17	186.05	182	8	9.88E-03	77.1	2.44E+00	T
1	128.23	66	360	1.02	256.00	252	10	6.11E-03	96.8	3.11E+00	
0	186.12	324	568	1.42	371.92	367	12	3.00E-02	32.1	3.03E+00	
2	208.85	66	239	1.12	417.43	415	8	6.09E-03	80.0	2.87E+00	
2	241.16	199	234	1.24	482.13	472	20	1.85E-02	40.1	2.64E+00	
0	328.07	124	212	1.77	656.15	652	10	1.15E-02	47.6	2.11E+00	
0	839.11	67	132	10.40	1679.32	1668	25	6.21E-03	95.3	1.03E+00	
0	1496.55	26	21	0.60	2995.32	2986	19	2.38E-03	98.4	6.95E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.786E+00	3.737E-01	1.736E-01	1.185E-02	16.047
CS-137	8.690E-02	2.685E-02	2.207E-02	2.371E-03	3.938
TL-208	2.580E-01	3.954E-02	2.270E-02	2.278E-03	11.366
BI-212	6.029E-01	1.953E-01	1.553E-01	1.493E-02	3.883
PB-212	6.969E-01	6.908E-02	3.462E-02	2.672E-03	20.131
BI-214	4.637E-01	7.980E-02	4.111E-02	4.187E-03	11.278
PB-214	5.286E-01	6.376E-02	4.002E-02	3.158E-03	13.209
RA-223	2.308E-01	1.053E-01	1.112E-01	1.023E-02	2.076
AC-228	8.758E-01	1.118E-01	6.501E-02	3.593E-03	13.472
NP-236	5.366E-02	3.789E-02	4.636E-02	5.093E-03	1.157
NP-237	3.517E-01	1.513E-01	2.009E-01	2.906E-02	1.750
AM-243	1.412E-01	4.548E-02	4.231E-02	8.877E-03	3.336

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.555E-03		1.376E-02	1.916E-02	1.251E-03	0.081
RH-101	-9.168E-03		1.382E-02	2.227E-02	3.454E-03	-0.412
SB-125	-2.137E-02		3.232E-02	5.341E-02	4.381E-03	-0.400
EU-155	8.190E-02		4.926E-02	8.715E-02	8.652E-03	0.940
PO-209	-1.034E+00		2.027E+00	3.424E+00	6.129E-01	-0.302
BI-211	2.227E-01		3.677E-01	6.068E-01	4.421E-02	0.367
PA-233	3.324E-03		2.306E-02	4.046E-02	3.397E-03	0.082
PA-234M	-4.311E-02		1.390E+00	2.440E+00	1.403E-01	-0.018
TH-234	4.090E-01	+	3.190E-01	4.847E-01	5.655E-02	0.844
U-235	-1.247E-02		8.315E-02	1.376E-01	9.606E-03	-0.091
NP-239	3.740E-02		8.589E-02	1.432E-01	1.932E-02	0.261
AM-241	1.201E-02		7.739E-02	1.355E-01	1.077E-02	0.089
CM-243	-5.650E-02		5.131E-02	7.343E-02	8.368E-03	-0.769
AM-246	3.032E-03		3.902E-02	6.939E-02	8.540E-03	0.044
CF-249	-3.308E-03		1.444E-02	2.465E-02	2.378E-03	-0.134

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 11:32:27

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785402_GAMMA1_400MLSAN_16581.CNF

---- Sample Information ----

Sample ID	: OH207-7854-02		
Sample Title	: SB-CZ-SS-2074-ST		
Sample Quantity	: 5.22100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16581		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 08:32:07
Decay time	: 52 08:32:07.51	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.35

---- 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 Mead Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.89	280	438	1.02	149.19	144	15	26.7	2.81E+00	AM-243
										PB-214
										PB-212
1	77.20*	431	415	1.03	153.81	144	15	18.1		PB-214
										PB-212
3	87.41	286	442	1.24	174.26	171	22	26.9	1.86E+00	NP-237
										PB-214
										PB-212
3	89.92	171	433	1.11	179.30	171	22	43.5		
3	92.84*	222	484	1.28	185.14	171	22	39.6		
0	186.04*	315	470	1.38	371.76	367	9	28.1		
0	209.16	131	354	1.22	418.05	414	8	52.7		AC-228
4	238.64*	1385	287	1.08	477.09	472	17	6.7	7.60E-01	PB-212
4	241.65	340	383	1.44	483.12	472	17	24.5		PB-214
0	270.36	173	300	1.22	540.60	536	10	40.3		RA-223
										AC-228
2	295.19	599	195	1.11	590.31	583	30	11.2	1.09E+00	PB-214
2	300.04	128	216	1.30	600.03	583	30	43.5		PB-212
0	327.68	146	261	1.61	655.37	650	11	46.1		
0	338.37*	312	295	1.15	676.78	672	11	24.3		AC-228
0	351.81*	958	321	1.41	703.69	697	15	10.4		PB-214
0	462.79	114	166	0.88	925.90	921	10	46.0		AC-228
0	510.67*	119	273	1.81	1021.76	1015	16	69.9		TL-208
0	583.10*	564	114	1.62	1166.77	1161	12	11.5		TL-208
0	609.16*	790	144	1.39	1218.95	1213	14	9.7		BI-214
0	661.51	318	108	1.46	1323.75	1317	12	17.2		CS-137
0	727.14	128	68	1.25	1455.15	1449	10	29.8		BI-212
0	787.20	58	98	0.69	1575.38	1568	16	85.2		
0	794.40	57	61	1.35	1589.79	1584	12	60.4		AC-228
0	861.15	79	80	2.11	1723.43	1716	16	56.9		TL-208
0	910.86*	339	75	1.66	1822.96	1815	14	15.6		AC-228
0	933.40	58	48	0.92	1868.07	1862	13	56.5		BI-214
3	964.27	97	34	2.26	1929.87	1922	32	33.9	1.61E+00	AC-228
3	968.77*	224	28	2.11	1938.87	1922	32	17.0		AC-228
0	1119.86	196	32	1.72	2241.33	2235	13	18.7		BI-214
0	1237.73	52	76	1.92	2477.27	2467	17	81.9		BI-214
0	1460.35*	481	30	1.98	2922.87	2914	16	10.5		K-40
0	1572.12	19	0	1.41	3146.58	3139	14	45.9		
0	1629.97	27	10	2.02	3262.35	3256	13	60.9		
0	1730.10	36	39	1.43	3462.75	3455	16	85.1		BI-214
0	1763.69*	130	13	3.02	3529.98	3521	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
3	89.92	171	433	1.11	179.30	171	22	1.59E-02	43.5	2.32E+00	
3	92.84	222	484	1.28	185.14	171	22	2.06E-02	39.6	2.43E+00	T
0	186.04	315	470	1.38	371.76	367	9	2.92E-02	28.1	3.03E+00	
0	327.68	146	261	1.61	655.37	650	11	1.35E-02	46.1	2.11E+00	
0	787.20	58	98	0.69	1575.38	1568	16	5.34E-03	85.2	1.07E+00	
0	1572.12	19	0	1.41	3146.58	3139	14	1.76E-03	45.9	6.70E-01	
0	1629.97	27	10	2.02	3262.35	3256	13	2.52E-03	60.9	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.054E+00	3.834E-01	1.549E-01	1.057E-02	19.717
CS-137	1.482E-01	3.008E-02	2.616E-02	2.811E-03	5.663
TL-208	2.402E-01	3.669E-02	2.106E-02	2.114E-03	11.407
BI-212	4.587E-01	1.438E-01	1.554E-01	1.495E-02	2.951
PB-212	5.768E-01	5.889E-02	3.566E-02	2.752E-03	16.178
BI-214	6.376E-01	8.948E-02	3.930E-02	4.003E-03	16.224
PB-214	6.140E-01	8.030E-02	3.897E-02	3.075E-03	15.754
RA-223	2.482E-01	1.026E-01	1.072E-01	9.867E-03	2.314
AC-228	6.474E-01	1.074E-01	8.476E-02	4.684E-03	7.638
NP-237	5.041E-01	1.539E-01	1.858E-01	2.687E-02	2.713
AM-243	1.180E-01	4.005E-02	4.178E-02	8.766E-03	2.823

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.817E-03		1.185E-02	2.017E-02	1.231E-03	-0.140
RH-101	1.440E-03		1.344E-02	2.239E-02	3.472E-03	0.064
SB-125	6.549E-03		3.240E-02	5.645E-02	4.630E-03	0.116
EU-155	3.147E-02		4.650E-02	8.061E-02	8.003E-03	0.390
PO-209	1.322E-01		2.377E+00	4.209E+00	7.533E-01	0.031
BI-211	-3.053E-01		3.243E-01	5.284E-01	3.850E-02	-0.578
PA-233	-1.114E-02		2.206E-02	3.751E-02	3.150E-03	-0.297
PA-234M	1.451E+00		1.372E+00	2.618E+00	1.505E-01	0.554
TH-234	8.137E-01	+	3.358E-01	4.673E-01	5.452E-02	1.741
U-235	1.824E-02		8.523E-02	1.426E-01	9.957E-03	0.128
NP-236	1.019E-02		2.938E-02	4.555E-02	5.004E-03	0.224
NP-239	-2.158E-03		8.553E-02	1.398E-01	1.886E-02	-0.015
AM-241	-2.949E-04		7.391E-02	1.287E-01	1.023E-02	-0.002
CM-243	-2.558E-02		4.158E-02	6.899E-02	7.863E-03	-0.371
AM-246	2.329E-03		4.033E-02	7.110E-02	8.751E-03	0.033
CF-249	-9.550E-04		1.406E-02	2.419E-02	2.334E-03	-0.039

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 11:33:44

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785403_GAMMA2_400MLSAN_16582.CNF

---- Sample Information ----

Sample ID	: OH207-7854-03		
Sample Title	: SB-CZ-SS-2075-ST		
Sample Quantity	: 4.86000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16582		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 08:33:27
Decay time	: 52 08:33:27.94	% 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	: 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.85	326	511	1.19	149.29	142	19	26.0	1.54E+00	AM-243
										PB-214
										PB-212
2	77.07	580	478	1.20	153.70	142	19	15.6		PB-214
										PB-212
0	87.01*	93	602	0.76	173.50	171	7	90.9		NP-237
										PB-214
										PB-212
4	89.98*	112	305	1.06	179.41	177	14	47.1	1.49E+00	
0	128.71	168	750	0.94	256.54	251	12	67.0		AC-228
4	185.73*	105	421	1.19	370.07	366	11	73.7	3.16E+00	
4	186.46*	99	476	1.36	371.53	366	11	85.1		
0	209.29	182	419	1.11	417.00	412	9	43.1		AC-228
2	238.79*	1422	277	1.08	475.76	470	17	6.6	2.06E+00	PB-212
2	241.17	159	348	1.41	480.50	470	17	60.3		
2	242.19	195	258	1.05	482.54	470	17	32.0		PB-214
0	270.95*	178	358	1.17	539.83	535	12	45.7		AC-228
0	295.42*	352	337	1.22	588.57	584	10	22.5		PB-214
0	300.76	73	240	1.08	599.22	595	8	76.9		PB-212
0	328.33	69	192	1.15	654.15	651	8	74.3		
0	338.55*	338	226	1.14	674.51	670	11	20.5		AC-228
0	352.10*	705	273	1.23	701.52	695	13	12.4		PB-214
0	463.46	103	162	1.09	923.46	918	11	52.0		AC-228
0	511.11*	143	203	2.33	1018.44	1012	15	50.9		TL-208
0	583.41*	510	143	1.62	1162.60	1156	16	14.0		TL-208
0	609.52*	491	114	1.37	1214.67	1209	12	12.8		BI-214
0	661.83	442	129	1.70	1319.00	1313	13	14.4		CS-137
0	727.76	98	105	1.52	1450.51	1445	15	49.9		BI-212
0	767.93	35	66	1.52	1530.64	1526	10	93.8		BI-214
0	794.76	68	46	1.90	1584.18	1580	10	44.1		AC-228
0	861.64*	96	61	2.46	1717.64	1710	19	44.9		TL-208
0	911.28*	323	88	2.00	1816.73	1810	17	17.8		AC-228
1	964.54	71	45	1.93	1923.04	1915	23	42.7	9.53E-01	AC-228
1	968.89*	206	36	1.93	1931.73	1915	23	18.5		AC-228
0	1120.71*	112	47	2.13	2234.91	2227	19	36.5		BI-214
0	1459.77*	416	14	2.07	2912.49	2906	14	10.8		K-40
0	1728.47	19	10	1.43	3449.99	3445	11	80.5		BI-214
0	1762.59*	87	10	1.99	3518.26	3512	13	27.5		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	89.98	112	305	1.06	179.41	177	14	1.04E-02	47.1	2.61E+00	
4	185.73	105	421	1.19	370.07	366	11	9.72E-03	73.7	3.21E+00	
4	186.46	99	476	1.36	371.53	366	11	9.18E-03	85.1	3.21E+00	
2	241.17	159	348	1.41	480.50	470	17	1.47E-02	60.3	2.78E+00	
0	328.33	69	192	1.15	654.15	651	8	6.35E-03	74.3	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.978E+00	3.754E-01	2.038E-01	1.312E-02	14.612
CS-137	2.207E-01	4.051E-02	2.438E-02	2.774E-03	9.053
TL-208	2.302E-01	4.011E-02	2.161E-02	2.251E-03	10.652
BI-212	3.790E-01	1.934E-01	1.633E-01	1.786E-02	2.320
PB-212	6.039E-01	6.084E-02	3.576E-02	2.732E-03	16.888
BI-214	4.220E-01	7.017E-02	4.350E-02	4.632E-03	9.701
PB-214	4.652E-01	6.792E-02	4.353E-02	3.337E-03	10.689
AC-228	6.789E-01	1.344E-01	7.643E-02	6.641E-03	8.883
NP-237	1.560E-01	1.431E-01	1.945E-01	2.444E-02	0.802
AM-243	1.264E-01	4.139E-02	3.853E-02	7.680E-03	3.282

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.836E-03		1.212E-02	2.034E-02	1.183E-03	0.385
RH-101	-3.744E-03		1.363E-02	2.187E-02	3.415E-03	-0.171
SB-125	-1.650E-05		3.616E-02	6.156E-02	5.047E-03	0.000
EU-155	3.369E-02		4.867E-02	8.323E-02	7.793E-03	0.405
PO-209	-5.090E-01		2.389E+00	4.127E+00	7.912E-01	-0.123
BI-211	-4.713E-01		3.832E-01	6.004E-01	5.877E-02	-0.785
RA-223	1.614E-01		8.386E-02	1.372E-01	1.221E-02	1.176
PA-233	-1.054E-03		2.386E-02	4.105E-02	3.306E-03	-0.026
PA-234M	2.430E-01		1.466E+00	2.628E+00	2.051E-01	0.092
TH-234	9.338E-01		2.842E-01	4.721E-01	4.722E-02	1.978
U-235	2.998E-03		8.591E-02	1.407E-01	1.027E-02	0.021
NP-236	1.923E-02		2.779E-02	4.569E-02	4.542E-03	0.421
NP-239	6.577E-02		8.415E-02	1.495E-01	2.018E-02	0.440
AM-241	1.964E-02		6.823E-02	1.182E-01	7.754E-03	0.166
CM-243	-9.207E-03		4.342E-02	7.226E-02	7.812E-03	-0.127
AM-246	1.645E-02		4.053E-02	7.419E-02	9.490E-03	0.222
CF-249	-6.013E-03		1.518E-02	2.538E-02	2.432E-03	-0.237

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 12:45:48

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785404_GAMMA3_400MLSAN_16583.CNF

---- Sample Information ----

Sample ID	: OH207-7854-04		
Sample Title	: SB-CZ-SS-2076-ST		
Sample Quantity	: 5.23000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16583		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 09:45:30
Decay time	: 52 09:45:30.10	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.87

---- 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 McMoore Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.25*	126	571	1.19	140.50	135	11	80.6		TH-234
1	74.88*	325	703	1.44	166.29	161	16	33.4	3.14E+00	AM-243
										PB-214
										PB-212
1	77.32*	563	603	1.39	171.71	161	16	18.8		PB-214
										PB-212
3	87.42	178	846	1.46	194.08	188	24	60.5	3.14E+00	NP-237
										PB-214
										PB-212
3	92.80*	236	720	1.50	206.01	188	24	48.8		TH-234
0	185.91*	244	498	1.31	412.39	408	11	39.3		
0	209.16	148	444	1.22	463.92	459	12	59.6		AC-228
3	238.71*	1133	299	1.47	529.42	522	21	8.6	9.84E-01	PB-212
3	241.85	345	327	1.88	536.38	522	21	27.9		PB-214
0	295.22	433	245	1.29	654.69	649	11	17.0		PB-214
0	300.14	73	271	1.05	665.58	662	11	90.5		PB-212
0	338.61*	211	247	1.38	750.86	746	12	33.3		AC-228
0	352.14*	713	227	1.38	780.84	774	14	11.8		PB-214
0	463.51	125	136	2.15	1027.69	1021	15	44.8		AC-228
0	511.06*	154	175	1.98	1133.08	1124	18	47.8		TL-208
0	583.25*	353	111	1.68	1293.08	1287	12	16.3		TL-208
0	609.52*	501	148	1.90	1351.30	1343	15	14.0		BI-214
0	661.66	298	99	1.68	1466.87	1461	12	17.7		CS-137
0	727.91	96	158	2.57	1613.70	1605	25	72.8		BI-212
0	768.36	60	84	1.14	1703.34	1695	14	69.5		BI-214
0	794.92	53	85	1.04	1762.20	1754	20	93.2		AC-228
0	911.24*	247	68	1.18	2020.00	2013	15	19.6		AC-228
0	969.28	150	66	1.84	2148.63	2143	13	27.9		AC-228
0	1120.65*	100	63	1.91	2484.09	2476	17	42.1		BI-214
0	1378.23	67	29	5.48	3054.91	3042	24	49.5		BI-214
0	1460.84*	228	16	2.02	3237.96	3229	16	16.2		K-40
0	1590.49*	87	8	4.21	3525.26	3513	28	28.4		AC-228
0	1764.57*	113	5	2.06	3910.98	3901	21	22.2		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	185.91	244	498	1.31	412.39	408	11	2.26E-02	39.3	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.834E+00	3.161E-01	2.057E-01	1.210E-02	8.917
CS-137	1.598E-01	3.054E-02	2.866E-02	2.063E-03	5.576
TL-208	1.706E-01	3.099E-02	2.464E-02	1.961E-03	6.923
BI-212	4.033E-01	2.950E-01	1.914E-01	1.389E-02	2.107
PB-212	5.210E-01	5.918E-02	3.978E-02	2.973E-03	13.099
BI-214	4.614E-01	7.345E-02	4.412E-02	3.361E-03	10.458
PB-214	5.068E-01	7.202E-02	4.908E-02	3.904E-03	10.326
AC-228	5.696E-01	1.188E-01	7.776E-02	5.467E-03	7.326
TH-234	5.892E-01	2.922E-01	2.926E-01	2.619E-02	2.014
NP-237	1.931E-01	1.187E-01	1.271E-01	1.417E-02	1.519
AM-243	6.526E-02	2.513E-02	2.387E-02	4.591E-03	2.734

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.917E-03		1.210E-02	2.303E-02	1.402E-03	0.257
RH-101	-7.595E-03		1.481E-02	2.451E-02	3.783E-03	-0.310
SB-125	3.480E-02		3.920E-02	7.125E-02	5.891E-03	0.488
EU-155	1.656E-03		4.114E-02	7.113E-02	6.689E-03	0.023
PO-209	8.353E-01		2.847E+00	5.198E+00	9.577E-01	0.161
BI-211	-7.489E-03		4.002E-01	6.898E-01	4.968E-02	-0.011
RA-223	1.732E-01		8.229E-02	1.471E-01	1.302E-02	1.178
PA-233	-7.638E-03		2.674E-02	4.437E-02	3.621E-03	-0.172
PA-234M	5.840E-01		1.696E+00	3.084E+00	2.106E-01	0.189
U-235	2.265E-02		8.864E-02	1.526E-01	1.133E-02	0.148
NP-236	1.992E-02		2.539E-02	3.942E-02	3.761E-03	0.505
NP-239	1.479E-01		9.884E-02	1.726E-01	2.309E-02	0.857
AM-241	2.248E-02		2.718E-02	4.107E-02	2.599E-03	0.547
CM-243	1.780E-02		3.715E-02	6.496E-02	7.000E-03	0.274
AM-246	-1.925E-02		4.853E-02	8.343E-02	1.053E-02	-0.231
CF-249	2.434E-02		1.702E-02	3.134E-02	3.122E-03	0.776

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 15:58:51

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785405_GAMMA2_400MLSAN_16586.CNF

---- Sample Information ----

Sample ID	: OH207-7854-05		
Sample Title	: SB-CZ-SS-2077-ST		
Sample Quantity	: 3.61700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16586		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 12:58:31
Decay time	: 52 12:58:31.76	% 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: Tim Moore Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.84	381	571	1.10	149.26	144	20	23.2	1.69E+00	AM-243
										PB-214
										PB-212
2	77.04	640	450	1.07	153.65	144	20	13.7		PB-214
										PB-212
1	87.16*	196	457	1.01	173.80	171	11	37.3	3.09E+00	NP-237
										PB-214
										PB-212
1	89.73*	133	430	1.04	178.91	171	11	52.5		
2	93.26*	121	463	1.23	185.94	182	11	68.3	1.97E+00	
0	105.45	98	457	0.84	210.21	207	8	78.1		EU-155
0	128.93	92	409	1.02	256.96	254	7	75.8		AC-228
0	185.98*	245	538	1.17	370.57	365	11	39.7		
0	209.34	111	418	0.97	417.11	413	8	66.5		AC-228
4	238.77*	1672	310	1.09	475.73	471	18	6.0	1.74E+00	PB-212
4	241.44	152	276	1.23	481.04	471	18	48.5		
4	242.06	104	349	1.47	482.27	471	18	73.7		PB-214
0	270.54*	156	246	1.38	539.00	534	10	41.4		RA-223
										AC-228
0	295.36*	318	181	1.13	588.47	585	8	18.7		PB-214
0	300.26	131	193	1.23	598.23	594	8	40.8		PB-212
0	327.91	102	226	1.63	653.31	649	10	58.2		
0	338.44*	398	231	1.18	674.29	668	12	18.5		AC-228
0	352.28*	533	230	1.23	701.86	696	13	14.9		PB-214
0	463.81	73	179	1.49	924.14	917	12	77.5		AC-228
0	511.00*	262	163	1.86	1018.22	1011	17	27.9		TL-208
0	583.34*	556	107	1.35	1162.46	1157	13	11.6		TL-208
0	609.46*	407	107	1.32	1214.54	1208	13	14.8		BI-214
0	727.64	127	104	1.67	1450.27	1444	14	38.6		BI-212
0	795.35	37	72	1.15	1585.35	1580	12	95.0		AC-228
0	835.89	31	25	1.27	1666.26	1663	7	64.7		
0	860.73*	58	59	1.15	1715.83	1710	13	61.3		TL-208
0	911.22*	404	33	1.60	1816.61	1811	12	11.6		AC-228
5	964.63	93	26	2.27	1923.23	1918	19	27.3	1.36E+00	AC-228
5	968.92*	258	15	1.86	1931.79	1918	19	14.4		AC-228
0	1111.54	20	30	0.91	2216.59	2210	11	121.6		
0	1119.97*	74	35	2.00	2233.43	2226	14	41.7		BI-214
0	1238.13	53	20	2.31	2469.48	2465	13	44.3		BI-214
0	1377.19	36	18	1.34	2747.40	2740	15	62.6		BI-214
0	1407.96	13	11	0.73	2808.91	2801	11	110.5		BI-214
0	1459.74*	177	7	1.52	2912.44	2906	13	17.3		K-40
0	1629.97	22	4	0.74	3252.91	3245	13	54.0		
0	1763.41*	48	28	1.26	3519.91	3510	21	66.6		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	89.73	133	430	1.04	178.91	171	11	1.23E-02	52.5	2.60E+00	
2	93.26	121	463	1.23	185.94	182	11	1.12E-02	68.3	2.72E+00	T
0	185.98	245	538	1.17	370.57	365	11	2.27E-02	39.7	3.21E+00	
4	241.44	152	276	1.23	481.04	471	18	1.41E-02	48.5	2.78E+00	
0	327.91	102	226	1.63	653.31	649	10	9.49E-03	58.2	2.20E+00	
0	835.89	31	25	1.27	1666.26	1663	7	2.85E-03	64.7	1.01E+00	
0	1111.54	20	30	0.91	2216.59	2210	11	1.81E-03	****	8.23E-01	
0	1629.97	22	4	0.74	3252.91	3245	13	2.07E-03	54.0	6.21E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.698E+00	3.136E-01	1.428E-01	9.194E-03	11.888
EU-155	1.077E-01	8.479E-02	1.029E-01	9.630E-03	1.047
TL-208	3.375E-01	5.252E-02	2.838E-02	2.955E-03	11.893
BI-212	6.587E-01	2.642E-01	2.262E-01	2.473E-02	2.912
PB-212	9.535E-01	9.289E-02	4.579E-02	3.499E-03	20.823
BI-214	4.693E-01	8.539E-02	5.601E-02	5.965E-03	8.378
PB-214	4.728E-01	7.918E-02	5.522E-02	4.234E-03	8.562
RA-223	3.064E-01	1.299E-01	1.393E-01	1.240E-02	2.199
AC-228	1.139E+00	1.656E-01	9.492E-02	8.248E-03	12.004
NP-237	4.412E-01	1.737E-01	2.558E-01	3.215E-02	1.725
AM-243	1.985E-01	6.072E-02	5.273E-02	1.051E-02	3.764

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.431E-03		1.408E-02	2.626E-02	1.451E-03	0.054
RH-101	-1.673E-02		1.759E-02	2.714E-02	4.237E-03	-0.617
SB-125	-1.196E-02		4.316E-02	7.258E-02	5.951E-03	-0.165
CS-137	5.423E-03		1.777E-02	3.211E-02	3.653E-03	0.169
PO-209	-9.699E-01		3.061E+00	5.241E+00	1.005E+00	-0.185
BI-211	4.338E-01		4.347E-01	7.627E-01	7.466E-02	0.569
PA-233	-2.982E-03		3.011E-02	5.179E-02	4.171E-03	-0.058
PA-234M	1.051E+00		1.884E+00	3.511E+00	2.741E-01	0.299
TH-234	5.719E-01	+	3.949E-01	6.322E-01	6.323E-02	0.905
U-235	9.437E-03		1.125E-01	1.847E-01	1.348E-02	0.051
NP-236	4.190E-02		3.879E-02	6.102E-02	6.066E-03	0.687
NP-239	-8.161E-03		1.063E-01	1.848E-01	2.494E-02	-0.044
AM-241	1.381E-02		9.502E-02	1.637E-01	1.073E-02	0.084
CM-243	5.066E-02		6.340E-02	9.825E-02	1.062E-02	0.516
AM-246	7.068E-03		5.120E-02	9.186E-02	1.175E-02	0.077
CF-249	1.358E-02		1.866E-02	3.326E-02	3.186E-03	0.408

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 16:00:15

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785406_GAMMA3_400MLSAN_16587.CNF

---- Sample Information ----

Sample ID : OH207-7854-06
Sample Title : SB-CZ-SS-2078-ST
Sample Quantity : 5.39100E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16587

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

Collection Date : 27-AUG-2007 00:00:00 Acquisition date : 18-OCT-2007 12:59:58
Decay time : 52 12:59:58.04 % 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: [signature] Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.50*	107	408	1.29	103.38	98	11	79.8		
0	63.29*	125	506	1.21	140.60	136	10	75.4		TH-234
1	74.88*	505	597	1.44	166.29	159	19	21.4	3.78E+00	AM-243
										PB-214
										PB-212
1	77.09*	717	616	1.45	171.19	159	19	15.9		PB-214
										PB-212
1	87.36	255	523	1.46	193.95	190	22	32.9	1.29E+00	NP-237
										PB-214
										PB-212
1	89.95	212	622	1.47	199.70	190	22	47.0		
1	92.82*	221	586	1.47	206.04	190	22	48.1		TH-234
0	185.85*	302	494	1.61	412.27	407	11	32.0		
0	208.61	99	387	2.49	462.72	459	10	76.6		AC-228
2	238.72*	1062	335	1.44	529.44	522	21	9.2	8.91E-01	PB-212
2	241.90	343	370	1.85	536.50	522	21	28.8		PB-214
0	269.93	103	283	1.39	598.62	594	11	66.2		RA-223
										AC-228
0	295.31	654	304	1.25	654.88	647	15	14.0		PB-214
0	338.35*	250	179	1.43	750.27	745	11	24.5		AC-228
0	352.12*	1003	248	1.36	780.81	774	15	9.4		PB-214
0	463.07	97	101	1.87	1026.72	1022	11	45.2		AC-228
0	510.97*	179	194	1.87	1132.87	1123	21	45.3		TL-208
0	583.12*	366	104	1.28	1292.80	1286	15	16.3		TL-208
0	609.44*	706	140	1.72	1351.13	1344	14	10.5		BI-214
0	661.85	240	129	1.61	1467.29	1461	14	24.1		CS-137
0	727.46	143	66	1.85	1612.69	1604	18	31.7		BI-212
0	767.92	90	67	3.05	1702.36	1694	15	45.1		BI-214
0	911.33*	258	57	1.85	2020.20	2012	19	19.1		AC-228
7	964.46	48	42	2.62	2137.95	2132	25	58.3	2.69E+00	AC-228
7	968.79	143	54	2.37	2147.55	2132	25	28.9		AC-228
0	1120.45*	136	45	1.76	2483.64	2477	12	26.7		BI-214
0	1239.62	48	70	0.85	2747.74	2735	21	93.1		BI-214
0	1461.20*	178	59	2.22	3238.77	3226	26	28.6		K-40
0	1729.90	34	13	1.51	3834.16	3826	14	58.3		BI-214
1	1763.45*	52	9	2.59	3908.52	3903	15	45.3	3.91E+00	
1	1765.03*	81	8	2.12	3912.02	3903	15	32.1		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	46.50	107	408	1.29	103.38	98	11	9.93E-03	79.8	2.77E+00	
1	89.95	212	622	1.47	199.70	190	22	1.97E-02	47.0	3.55E+00	
0	185.85	302	494	1.61	412.27	407	11	2.80E-02	32.0	2.82E+00	
1	1763.45	52	9	2.59	3908.52	3903	15	4.83E-03	45.3	4.90E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.390E+00	4.063E-01	2.082E-01	1.225E-02	6.677
CS-137	1.250E-01	3.142E-02	2.746E-02	1.977E-03	4.552
TL-208	1.720E-01	3.126E-02	2.261E-02	1.800E-03	7.605
BI-212	5.790E-01	1.886E-01	1.835E-01	1.332E-02	3.155
PB-212	4.736E-01	5.596E-02	4.013E-02	3.000E-03	11.802
BI-214	6.308E-01	8.165E-02	4.630E-02	3.528E-03	13.625
PB-214	6.912E-01	8.510E-02	4.687E-02	3.729E-03	14.745
RA-223	1.580E-01	1.056E-01	1.153E-01	1.021E-02	1.371
AC-228	5.779E-01	1.174E-01	8.179E-02	5.750E-03	7.067
TH-234	5.346E-01	2.616E-01	2.859E-01	2.559E-02	1.870
NP-237	2.689E-01	9.335E-02	1.313E-01	1.463E-02	2.048
AM-243	9.845E-02	2.829E-02	2.296E-02	4.415E-03	4.288

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.168E-02		1.309E-02	2.118E-02	1.289E-03	-0.552
RH-101	-2.411E-04		1.456E-02	2.457E-02	3.793E-03	-0.010
SB-125	-1.502E-02		4.021E-02	6.876E-02	5.685E-03	-0.218
EU-155	-2.458E-02		3.999E-02	6.774E-02	6.370E-03	-0.363
PO-209	1.098E+00		2.829E+00	5.184E+00	9.552E-01	0.212
BI-211	1.324E-01		4.201E-01	7.389E-01	5.322E-02	0.179
PA-233	-6.030E-03		2.764E-02	4.595E-02	3.750E-03	-0.131
PA-234M	2.738E-01		1.657E+00	2.969E+00	2.028E-01	0.092
U-235	-3.691E-02		8.785E-02	1.483E-01	1.101E-02	-0.249
NP-236	1.411E-03		2.522E-02	3.810E-02	3.636E-03	0.037
NP-239	-4.270E-02		9.582E-02	1.591E-01	2.128E-02	-0.268
AM-241	3.534E-02		2.600E-02	4.021E-02	2.545E-03	0.879
CM-243	-4.138E-03		3.562E-02	6.135E-02	6.611E-03	-0.067
AM-246	-1.308E-02		4.272E-02	7.450E-02	9.404E-03	-0.176
CF-249	2.609E-02		1.601E-02	2.975E-02	2.963E-03	0.877

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 19:09:32

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785407_GAMMA1_400MLSAN_16588.CNF

---- Sample Information ----

Sample ID	: OH207-7854-07		
Sample Title	: SB-CZ-SS-2079-ST		
Sample Quantity	: 4.49000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16588		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 16:09:14
Decay time	: 52 16:09:14.87	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.12

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.95	324	422	1.13	149.31	143	17	23.9	1.11E+00	AM-243
										PB-214
										PB-212
3	77.33*	431	402	1.23	154.07	143	17	19.1		PB-214
										PB-212
0	88.40	220	769	3.63	176.25	171	11	50.8		
0	93.02*	179	540	1.48	185.50	182	9	51.2		
0	186.18*	277	514	1.44	372.04	366	13	36.7		
0	209.19	149	479	1.40	418.12	413	11	59.2		AC-228
0	238.65*	1105	466	1.21	477.11	473	8	9.1		PB-212
0	241.89	253	276	1.40	483.58	481	7	25.9		PB-214
0	270.36	144	375	1.71	540.59	535	13	57.7		RA-223
										AC-228
0	295.17	390	288	1.22	590.28	584	12	20.1		PB-214
0	300.49	137	218	1.22	600.93	596	11	45.4		PB-212
0	327.54	114	240	1.57	655.10	649	12	57.6		
0	338.47*	240	333	1.36	676.97	670	14	34.9		AC-228
0	351.85*	580	264	1.36	703.76	698	14	14.7		PB-214
0	463.10	70	125	1.01	926.50	922	9	63.1		AC-228
0	510.71*	209	176	1.64	1021.83	1015	16	35.0		TL-208
0	583.05*	449	87	1.52	1166.68	1161	15	13.2		TL-208
0	609.17*	434	105	1.58	1218.96	1213	12	13.7		BI-214
0	661.36	484	148	1.69	1323.46	1317	14	14.0		CS-137
0	727.81	87	120	1.48	1456.48	1451	15	59.2		BI-212
2	767.83	38	82	1.89	1536.60	1528	19	96.0	1.73E+00	BI-214
2	771.27	29	52	1.34	1543.49	1528	19	95.2		
0	794.78	52	50	1.48	1590.56	1586	9	57.3		AC-228
0	860.12	55	34	1.35	1721.37	1716	12	49.7		TL-208
0	910.92*	279	79	1.42	1823.07	1816	15	18.6		AC-228
2	964.44	54	59	1.95	1930.20	1925	24	53.4	1.64E+00	AC-228
2	968.64*	191	45	1.87	1938.62	1925	24	20.3		AC-228
0	1119.92	108	42	2.10	2241.45	2236	11	30.4		BI-214
0	1460.26*	468	11	2.11	2922.69	2915	19	10.2		K-40
0	1730.01	35	6	1.94	3462.58	3456	16	49.0		BI-214
0	1763.71*	62	19	0.88	3530.02	3522	15	40.8		BI-214
0	1848.26	25	20	2.70	3699.23	3688	16	89.0		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	88.40	220	769	3.63	176.25	171	11	2.03E-02	50.8	2.27E+00	
0	93.02	179	540	1.48	185.50	182	9	1.66E-02	51.2	2.43E+00	T
0	186.18	277	514	1.44	372.04	366	13	2.57E-02	36.7	3.03E+00	
0	327.54	114	240	1.57	655.10	649	12	1.05E-02	57.6	2.11E+00	
2	771.27	29	52	1.34	1543.49	1528	19	2.71E-03	95.2	1.09E+00	
0	1848.26	25	20	2.70	3699.23	3688	16	2.33E-03	89.0	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.461E+00	4.235E-01	1.514E-01	1.033E-02	22.862
CS-137	2.621E-01	4.625E-02	2.551E-02	2.741E-03	10.272
TL-208	2.225E-01	3.696E-02	2.124E-02	2.132E-03	10.473
BI-212	3.644E-01	2.187E-01	1.636E-01	1.574E-02	2.227
PB-212	5.350E-01	6.404E-02	5.388E-02	4.158E-03	9.930
BI-214	4.072E-01	6.954E-02	4.471E-02	4.554E-03	9.109
PB-214	4.321E-01	7.198E-02	4.585E-02	3.618E-03	9.425
RA-223	2.402E-01	1.403E-01	1.154E-01	1.062E-02	2.081
AC-228	6.189E-01	1.202E-01	8.204E-02	4.534E-03	7.544
AM-243	1.586E-01	5.047E-02	4.575E-02	9.598E-03	3.466

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.639E-03		1.394E-02	2.239E-02	1.461E-03	0.207
RH-101	-5.327E-04		1.442E-02	2.401E-02	3.723E-03	-0.022
SB-125	2.830E-03		3.932E-02	6.786E-02	5.565E-03	0.042
EU-155	3.673E-02		4.950E-02	8.637E-02	8.575E-03	0.425
PO-209	3.940E-02		2.464E+00	4.385E+00	7.849E-01	0.009
BI-211	-2.642E-01		3.652E-01	6.079E-01	4.429E-02	-0.435
PA-233	-2.387E-03		2.392E-02	4.160E-02	3.494E-03	-0.057
PA-234M	5.625E-01		1.409E+00	2.594E+00	1.491E-01	0.217
TH-234	7.644E-01	+	4.018E-01	5.086E-01	5.933E-02	1.503
U-235	-2.641E-03		8.695E-02	1.446E-01	1.010E-02	-0.018
NP-236	2.441E-02		3.001E-02	5.038E-02	5.535E-03	0.484
NP-237	1.455E-01		1.438E-01	2.265E-01	3.276E-02	0.642
NP-239	4.652E-02		9.553E-02	1.595E-01	2.152E-02	0.292
AM-241	2.830E-03		7.881E-02	1.379E-01	1.096E-02	0.021
CM-243	2.686E-02		4.433E-02	7.715E-02	8.792E-03	0.348
AM-246	2.356E-02		4.241E-02	7.906E-02	9.730E-03	0.298
CF-249	6.016E-03		1.574E-02	2.778E-02	2.680E-03	0.217

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 19:10:38

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785408_GAMMA2_400MLSAN_16589.CNF

---- Sample Information ----

Sample ID	: OH207-7854-08		
Sample Title	: SB-CZ-SS-2080-ST		
Sample Quantity	: 4.86700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16589		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 16:10:22
Decay time	: 52 16:10:22.58	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.29

---- 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: TMoad Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.73	300	500	0.94	149.05	144	15	26.4	7.30E-01	AM-243
										PB-214
										PB-212
2	77.08	501	517	0.98	153.72	144	15	16.9		PB-214
										PB-212
2	90.11*	116	414	1.23	179.66	177	12	55.4	5.33E+00	
0	186.01*	294	570	1.22	370.64	366	10	33.3		
0	209.51	141	633	1.35	417.45	412	12	73.2		AC-228
2	238.79*	1455	361	1.09	475.76	469	20	6.8	1.18E+00	PB-212
2	241.83	304	359	1.48	481.83	469	20	29.2		PB-214
1	270.03*	117	199	1.23	538.00	535	11	41.0	1.84E+00	RA-223
										AC-228
1	271.04	55	264	1.25	540.00	535	11	107.4		
0	295.37*	461	273	1.23	588.48	584	10	16.5		PB-214
0	300.22	137	230	1.04	598.14	594	9	43.5		PB-212
0	327.74	65	340	0.99	652.96	648	11	113.1		
0	338.32*	337	349	1.24	674.05	668	13	25.5		AC-228
0	352.14*	647	383	1.27	701.59	695	13	14.9		PB-214
0	409.77	80	155	1.77	816.44	811	10	62.5		AC-228
0	464.03	114	243	1.64	924.58	916	17	66.0		AC-228
0	511.17*	222	216	1.72	1018.56	1011	18	36.7		TL-208
0	583.50*	534	139	1.65	1162.78	1155	15	13.1		TL-208
0	609.48*	598	93	1.27	1214.58	1209	12	10.6		BI-214
0	661.93	294	130	1.46	1319.18	1312	12	19.4		CS-137
0	727.33	105	87	1.69	1449.64	1443	12	40.5		BI-212
0	768.64	48	85	0.98	1532.07	1526	11	80.5		BI-214
0	795.73	50	106	1.25	1586.12	1579	14	92.0		AC-228
0	860.29*	88	69	1.59	1714.96	1708	15	44.4		TL-208
0	911.27*	356	69	1.69	1816.71	1811	15	14.8		AC-228
0	933.59	61	49	1.24	1861.26	1854	14	54.6		BI-214
1	964.34	71	45	1.93	1922.65	1917	38	45.4	2.53E+00	AC-228
1	968.70*	226	35	1.90	1931.35	1917	38	16.9		AC-228
0	1120.20*	138	55	1.53	2233.89	2227	16	29.8		BI-214
0	1237.81	69	32	1.18	2468.84	2463	13	41.5		BI-214
0	1377.61	29	39	1.47	2748.25	2741	12	92.6		BI-214
0	1459.89*	489	38	1.96	2912.74	2904	18	11.1		K-40
0	1762.46*	104	5	2.50	3518.01	3507	20	23.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.11	116	414	1.23	179.66	177	12	1.08E-02	55.4	2.61E+00	
0	186.01	294	570	1.22	370.64	366	10	2.73E-02	33.3	3.21E+00	
1	271.04	55	264	1.25	540.00	535	11	5.12E-03	****	2.56E+00	
0	327.74	65	340	0.99	652.96	648	11	5.98E-03	****	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.496E+00	4.490E-01	1.851E-01	1.192E-02	18.889
CS-137	1.464E-01	3.291E-02	2.771E-02	3.153E-03	5.282
TL-208	2.410E-01	4.023E-02	2.291E-02	2.386E-03	10.518
BI-212	4.064E-01	1.703E-01	1.739E-01	1.901E-02	2.337
PB-212	6.166E-01	6.318E-02	3.696E-02	2.824E-03	16.682
BI-214	5.130E-01	7.712E-02	4.326E-02	4.607E-03	11.858
PB-214	4.261E-01	7.150E-02	4.522E-02	3.467E-03	9.424
RA-223	1.708E-01	7.164E-02	1.174E-01	1.045E-02	1.454
AC-228	7.456E-01	1.282E-01	8.419E-02	7.316E-03	8.855
AM-243	1.160E-01	3.840E-02	4.250E-02	8.471E-03	2.728

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.395E-02		1.239E-02	2.277E-02	1.325E-03	0.613
RH-101	-1.643E-02		1.441E-02	2.198E-02	3.432E-03	-0.748
SB-125	-1.027E-03		3.606E-02	6.130E-02	5.026E-03	-0.017
EU-155	2.307E-03		4.911E-02	8.236E-02	7.712E-03	0.028
PO-209	-1.632E-01		2.280E+00	4.005E+00	7.678E-01	-0.041
BI-211	-1.594E-01		3.414E-01	5.777E-01	5.655E-02	-0.276
PA-233	9.240E-04		2.381E-02	4.113E-02	3.312E-03	0.022
PA-234M	1.043E+00		1.499E+00	2.796E+00	2.183E-01	0.373
TH-234	7.245E-03		2.680E-01	4.625E-01	4.626E-02	0.016
U-235	6.004E-02		9.096E-02	1.518E-01	1.108E-02	0.396
NP-236	9.406E-03		2.824E-02	4.791E-02	4.763E-03	0.196
NP-237	1.454E-01		1.367E-01	2.108E-01	2.649E-02	0.690
NP-239	-3.653E-02		8.415E-02	1.439E-01	1.943E-02	-0.254
AM-241	6.832E-03		7.032E-02	1.209E-01	7.933E-03	0.056
CM-243	1.314E-02		4.386E-02	7.425E-02	8.027E-03	0.177
AM-246	1.205E-02		4.462E-02	7.981E-02	1.021E-02	0.151
CF-249	1.310E-02		1.585E-02	2.806E-02	2.688E-03	0.467

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 19:12:00

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785409_GAMMA3_400MLSAN_16590.CNF

---- Sample Information ----

Sample ID	: OH207-7854-09		
Sample Title	: SB-CZ-SS-2081-ST		
Sample Quantity	: 5.45400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16590		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 16:11:25
Decay time	: 52 16:11:25.07	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.92

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.68*	131	724	1.36	141.45	136	12	88.5		TH-234
2	74.90*	574	746	1.59	166.34	158	19	21.8	2.04E+00	AM-243
										PB-214
										PB-212
2	77.19*	783	556	1.25	171.41	158	19	13.4		PB-214
										PB-212
0	87.75	145	992	1.43	194.82	187	11	85.7		NP-237
										PB-214
										PB-212
0	92.90*	248	786	1.38	206.24	202	10	47.3		TH-234
0	186.01*	216	538	1.53	412.62	408	10	44.4		
0	209.53	157	378	1.28	464.74	460	11	50.9		AC-228
3	238.71*	1341	297	1.51	529.42	520	22	7.5	1.57E+00	PB-212
3	241.83	392	319	1.76	536.35	520	22	25.1		PB-214
0	270.03	158	319	1.41	598.85	592	13	49.2		RA-223
										AC-228
1	295.35	593	209	1.43	654.97	649	22	12.0	4.84E-01	PB-214
1	300.21	117	206	1.57	665.74	649	22	50.9		PB-212
0	338.55*	253	313	1.46	750.72	743	13	31.6		AC-228
0	352.11*	917	313	1.55	780.78	774	15	10.7		PB-214
0	510.84*	148	170	1.72	1132.60	1127	15	46.3		TL-208
0	583.26*	403	130	1.01	1293.10	1284	18	16.9		TL-208
0	609.35*	687	144	1.57	1350.93	1343	16	11.0		BI-214
0	661.26	192	98	1.64	1465.98	1456	17	27.7		CS-137
0	727.48	65	112	1.79	1612.74	1604	14	73.3		BI-212
0	911.35*	274	75	1.88	2020.25	2011	18	18.9		AC-228
0	935.13	40	61	0.83	2072.94	2066	17	92.1		BI-214
1	964.53	53	62	2.21	2138.10	2132	24	65.0	1.64E+00	AC-228
1	969.09	186	56	2.04	2148.20	2132	24	22.6		AC-228
0	1120.72*	157	62	1.58	2484.24	2475	19	29.2		BI-214
0	1238.90	54	40	1.41	2746.13	2741	14	60.9		BI-214
0	1377.20	61	24	1.76	3052.63	3042	19	45.7		BI-214
0	1461.23*	164	44	1.93	3238.83	3230	16	25.0		K-40
0	1510.56	36	21	0.93	3348.14	3338	21	71.8		BI-214
0	1764.93*	101	14	2.94	3911.79	3902	18	27.1		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	186.01	216	538	1.53	412.62	408	10	2.00E-02	44.4	2.81E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.261E+00	3.237E-01	2.333E-01	1.373E-02	5.407
CS-137	9.882E-02	2.827E-02	2.886E-02	2.078E-03	3.424
TL-208	1.868E-01	3.483E-02	2.394E-02	1.905E-03	7.804
BI-212	2.611E-01	1.923E-01	1.668E-01	1.211E-02	1.566
PB-212	5.912E-01	6.244E-02	3.744E-02	2.799E-03	15.789
BI-214	6.067E-01	8.133E-02	4.768E-02	3.633E-03	12.725
PB-214	6.247E-01	8.349E-02	4.940E-02	3.930E-03	12.644
RA-223	2.405E-01	1.201E-01	1.246E-01	1.103E-02	1.929
AC-228	6.067E-01	1.224E-01	9.203E-02	6.471E-03	6.592
TH-234	5.926E-01	2.851E-01	3.219E-01	2.142E-02	1.841
NP-237	1.514E-01	1.308E-01	1.460E-01	1.628E-02	1.037
AM-243	1.106E-01	3.215E-02	2.293E-02	4.410E-03	4.823

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.856E-03		1.378E-02	2.119E-02	1.123E-03	0.371
RH-101	-1.085E-02		1.482E-02	2.426E-02	3.745E-03	-0.447
SB-125	-6.650E-03		3.631E-02	6.289E-02	5.199E-03	-0.106
EU-155	5.945E-02		4.230E-02	7.497E-02	7.050E-03	0.793
PO-209	7.666E-01		2.707E+00	4.943E+00	9.108E-01	0.155
BI-211	-2.714E-01		4.367E-01	7.116E-01	5.125E-02	-0.381
PA-233	2.789E-02		2.663E-02	4.673E-02	3.813E-03	0.597
PA-234M	2.672E-01		1.520E+00	2.741E+00	1.872E-01	0.097
U-235	5.965E-02		9.066E-02	1.573E-01	1.168E-02	0.379
NP-236	1.261E-02		2.584E-02	3.962E-02	3.781E-03	0.318
NP-239	6.648E-02		9.448E-02	1.630E-01	2.180E-02	0.408
AM-241	8.347E-03		2.860E-02	4.202E-02	2.659E-03	0.199
CM-243	2.433E-02		3.779E-02	6.615E-02	7.128E-03	0.368
AM-246	4.667E-02		4.694E-02	9.056E-02	1.143E-02	0.515
CF-249	1.021E-02		1.608E-02	2.888E-02	2.876E-03	0.353

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 22:18:57

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785410_GAMMA1_400MLSAN_16591.CNF

---- Sample Information ----

Sample ID	: OH207-7854-10		
Sample Title	: SB-CZ-SS-2082-ST		
Sample Quantity	: 5.50900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16591		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 19:18:34
Decay time	: 52 19:18:34.66	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.54

---- 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: TM Thread Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.85	286	519	1.08	149.12	145	12	27.9	6.90E-01	AM-243
										PB-214
										PB-212
2	77.28*	423	440	0.88	153.97	145	12	18.0		PB-214
										PB-212
4	87.30	236	364	1.23	174.04	171	11	27.5	1.81E+00	NP-237
										PB-214
										PB-212
4	89.80	110	469	1.03	179.05	171	11	64.6		
0	93.15*	337	719	1.66	185.75	182	10	32.8		
0	185.78*	297	717	1.16	371.25	366	11	37.5		
0	208.87	172	616	0.95	417.47	413	10	56.0		AC-228
4	236.11	80	221	1.16	472.02	470	22	59.3	6.96E-01	
4	238.65*	1656	299	1.16	477.11	470	22	6.1		PB-212
4	241.82	476	413	1.71	483.46	470	22	21.0		PB-214
0	270.43	165	548	1.66	540.73	534	14	62.3		RA-223
										AC-228
0	277.65	71	326	0.85	555.20	551	9	95.5		TL-208
0	295.18	659	313	1.25	590.30	586	10	12.7		PB-214
0	300.06	125	279	1.28	600.06	596	9	51.6		PB-212
0	327.26	128	303	1.25	654.53	650	11	55.3		
0	338.17*	385	353	1.54	676.36	671	14	23.1		AC-228
0	351.88*	1140	349	1.32	703.83	698	13	9.0		PB-214
0	409.53	112	284	1.48	819.26	811	16	70.4		AC-228
0	462.68	123	162	0.93	925.68	922	10	42.6		AC-228
0	510.73*	268	220	2.31	1021.87	1014	18	31.0		TL-208
0	582.92*	572	175	1.43	1166.40	1158	16	13.4		TL-208
0	609.23*	829	196	1.45	1219.09	1211	15	10.2		BI-214
0	661.32	233	116	1.42	1323.38	1318	11	22.2		CS-137
0	727.57	70	225	1.76	1456.01	1447	16	98.8		BI-212
0	767.83	70	147	1.40	1536.61	1532	15	77.9		BI-214
0	785.95	58	65	1.03	1572.88	1567	11	61.2		BI-212
0	794.36	71	101	1.30	1589.73	1583	13	62.9		AC-228
0	860.74	89	80	1.74	1722.60	1713	19	53.0		TL-208
0	910.97*	413	101	1.60	1823.17	1815	17	15.1		AC-228
1	964.17	89	39	1.87	1929.66	1920	31	36.2	1.14E+00	AC-228
1	968.66*	254	39	1.78	1938.66	1920	31	16.0		AC-228
0	1119.96	150	77	2.05	2241.54	2234	14	29.7		BI-214
0	1238.76	52	67	1.71	2479.33	2470	14	73.0		BI-214
0	1460.23*	314	7	1.64	2922.62	2916	14	12.2		K-40
0	1587.62	33	30	1.39	3177.61	3173	11	72.3		AC-228
0	1728.23	47	12	1.87	3459.01	3450	17	45.7		BI-214
0	1763.84*	156	23	1.56	3530.29	3521	18	21.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.80	110	469	1.03	179.05	171	11	1.02E-02	64.6	2.32E+00	
0	93.15	337	719	1.66	185.75	182	10	3.12E-02	32.8	2.44E+00	T
0	185.78	297	717	1.16	371.25	366	11	2.75E-02	37.5	3.03E+00	
4	236.11	80	221	1.16	472.02	470	22	7.43E-03	59.3	2.68E+00	
0	327.26	128	303	1.25	654.53	650	11	1.19E-02	55.3	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.889E+00	2.634E-01	1.468E-01	1.002E-02	12.869
CS-137	1.027E-01	2.531E-02	2.560E-02	2.750E-03	4.011
TL-208	2.308E-01	3.871E-02	2.016E-02	2.024E-03	11.447
BI-212	2.388E-01	2.371E-01	1.695E-01	1.630E-02	1.409
PB-212	6.536E-01	6.426E-02	3.554E-02	2.743E-03	18.389
BI-214	6.336E-01	9.135E-02	4.049E-02	4.125E-03	15.648
PB-214	6.918E-01	8.301E-02	4.122E-02	3.253E-03	16.783
RA-223	2.234E-01	1.407E-01	1.107E-01	1.019E-02	2.017
AC-228	7.481E-01	1.200E-01	7.022E-02	3.881E-03	10.654
NP-237	3.935E-01	1.222E-01	1.926E-01	2.786E-02	2.043
AM-243	1.139E-01	3.973E-02	4.205E-02	8.822E-03	2.709

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.690E-04		1.101E-02	1.904E-02	1.242E-03	0.014
RH-101	1.971E-03		1.326E-02	2.208E-02	3.424E-03	0.089
SB-125	2.887E-02		3.247E-02	5.832E-02	4.783E-03	0.495
EU-155	4.412E-02		4.620E-02	8.043E-02	7.986E-03	0.549
PO-209	2.039E+00		2.442E+00	4.501E+00	8.055E-01	0.453
BI-211	1.004E-01		3.565E-01	6.376E-01	4.645E-02	0.157
PA-233	-1.112E-03		2.246E-02	3.895E-02	3.271E-03	-0.029
PA-234M	-2.012E-01		1.358E+00	2.347E+00	1.349E-01	-0.086
TH-234	1.169E+00	+	4.069E-01	4.738E-01	5.527E-02	2.467
U-235	1.378E-01		8.682E-02	1.502E-01	1.048E-02	0.918
NP-236	2.714E-02		2.965E-02	4.676E-02	5.136E-03	0.581
NP-239	-4.253E-02		8.749E-02	1.397E-01	1.885E-02	-0.304
AM-241	6.140E-03		7.395E-02	1.290E-01	1.025E-02	0.048
CM-243	-5.230E-03		4.238E-02	7.163E-02	8.163E-03	-0.073
AM-246	1.238E-02		3.597E-02	6.549E-02	8.060E-03	0.189
CF-249	8.533E-03		1.422E-02	2.517E-02	2.428E-03	0.339

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 22:20:27

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785411_GAMMA2_400MLSAN_16592.CNF

---- Sample Information ----

Sample ID	: OH207-7854-11		
Sample Title	: SB-CZ-SS-2083-ST		
Sample Quantity	: 4.35300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16592		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 19:20:07
Decay time	: 52 19:20:07.90	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.47

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.78	540	645	1.04	149.14	143	15	17.2	1.87E+00	AM-243
										PB-214
										PB-212
2	77.07	844	634	1.07	153.71	143	15	11.7		PB-214
										PB-212
5	87.20*	311	457	1.20	173.88	171	21	23.5	6.31E-01	NP-237
										PB-214
										PB-212
5	89.98*	253	524	1.04	179.40	171	21	31.4		
5	92.89*	450	824	1.64	185.20	171	21	27.1		
0	129.31	132	766	1.02	257.73	253	9	77.9		AC-228
0	186.09*	328	734	1.27	370.80	366	11	34.9		
0	209.12	251	677	1.10	416.66	412	11	42.1		AC-228
2	238.77*	2452	344	1.08	475.72	471	18	4.7	2.37E+00	PB-212
2	241.09	269	345	1.39	480.35	471	18	41.9		
2	242.19	269	278	1.11	482.54	471	18	28.5		PB-214
5	270.29*	99	403	1.94	538.52	534	11	81.8	2.26E+00	RA-223
										AC-228
5	270.75*	125	400	1.65	539.44	534	11	64.8		
0	277.52	113	272	1.35	552.91	549	8	54.1		TL-208
0	295.38*	502	437	1.38	588.49	581	13	19.4		PB-214
0	300.35	187	332	1.08	598.40	594	10	39.3		PB-212
0	328.63	137	394	1.00	654.75	649	12	60.5		
0	338.67*	502	351	1.28	674.75	669	10	16.7		AC-228
0	352.08*	922	282	1.26	701.48	695	12	9.9		PB-214
0	410.14	87	194	1.51	817.17	813	9	62.1		AC-228
0	463.49	153	177	1.42	923.52	918	11	37.7		AC-228
0	510.96*	343	174	1.61	1018.14	1011	15	21.7		TL-208
0	583.42*	835	168	1.33	1162.62	1157	14	9.7		TL-208
0	609.41*	635	180	1.49	1214.45	1208	14	12.1		BI-214
0	661.53	192	117	1.19	1318.39	1314	9	23.7		CS-137
0	727.44	206	96	1.51	1449.87	1444	14	24.4		BI-212
0	794.83	119	36	1.58	1584.32	1580	10	26.1		AC-228
0	860.23*	131	45	1.50	1714.84	1708	14	28.4		TL-208
0	911.23*	587	47	1.60	1816.63	1811	13	9.7		AC-228
3	964.43	91	75	2.03	1922.83	1917	21	43.0	1.85E+00	AC-228
3	968.85*	317	61	1.86	1931.65	1917	21	14.8		AC-228
0	1119.91*	130	50	2.06	2233.31	2227	15	29.6		BI-214
0	1237.55	46	36	1.95	2468.32	2463	14	63.9		BI-214
0	1459.67*	216	17	2.64	2912.30	2904	17	16.9		K-40
0	1587.32*	39	55	1.59	3167.59	3161	16	89.8		AC-228
0	1630.38	52	18	1.93	3253.73	3243	21	51.9		
0	1729.09	59	11	2.72	3451.22	3443	21	38.1		BI-214
0	1763.29*	95	31	1.73	3519.67	3510	19	36.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	89.98	253	524	1.04	179.40	171	21	2.34E-02	31.4	2.61E+00	
5	92.89	450	824	1.64	185.20	171	21	4.17E-02	27.1	2.71E+00	T
0	186.09	328	734	1.27	370.80	366	11	3.04E-02	34.9	3.21E+00	
2	241.09	269	345	1.39	480.35	471	18	2.49E-02	41.9	2.78E+00	
5	270.75	125	400	1.65	539.44	534	11	1.15E-02	64.8	2.56E+00	
0	328.63	137	394	1.00	654.75	649	12	1.27E-02	60.5	2.20E+00	
0	1630.38	52	18	1.93	3253.73	3243	21	4.79E-03	51.9	6.21E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.729E+00	3.129E-01	2.275E-01	1.465E-02	7.601
CS-137	1.068E-01	2.809E-02	3.162E-02	3.597E-03	3.378
TL-208	4.214E-01	5.984E-02	2.623E-02	2.731E-03	16.068
BI-212	8.901E-01	2.380E-01	1.997E-01	2.183E-02	4.458
PB-212	1.162E+00	1.044E-01	4.425E-02	3.382E-03	26.259
BI-214	6.085E-01	9.814E-02	5.274E-02	5.616E-03	11.537
PB-214	6.798E-01	8.535E-02	5.175E-02	3.968E-03	13.137
RA-223	1.613E-01	1.328E-01	1.386E-01	1.233E-02	1.164
AC-228	1.377E+00	1.793E-01	8.455E-02	7.347E-03	16.283
NP-237	5.813E-01	1.547E-01	2.355E-01	2.959E-02	2.469
AM-243	2.339E-01	6.161E-02	5.271E-02	1.051E-02	4.437

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.929E-05		1.313E-02	2.251E-02	1.310E-03	-0.001
RH-101	-1.363E-02		1.737E-02	2.714E-02	4.238E-03	-0.502
SB-125	2.428E-02		4.283E-02	7.482E-02	6.134E-03	0.325
EU-155	3.419E-02		6.001E-02	1.018E-01	9.536E-03	0.336
PO-209	7.288E-01		2.954E+00	5.269E+00	1.010E+00	0.138
BI-211	-3.470E-01		4.585E-01	7.536E-01	7.377E-02	-0.460
PA-233	1.536E-02		2.894E-02	5.079E-02	4.091E-03	0.302
PA-234M	1.650E+00		1.691E+00	3.217E+00	2.511E-01	0.513
TH-234	1.772E+00	+	5.116E-01	6.081E-01	6.082E-02	2.915
U-235	2.662E-03		1.043E-01	1.707E-01	1.246E-02	0.016
NP-236	1.456E-02		3.856E-02	5.856E-02	5.822E-03	0.249
NP-239	3.906E-02		1.034E-01	1.812E-01	2.446E-02	0.215
AM-241	1.640E-02		8.997E-02	1.545E-01	1.013E-02	0.106
CM-243	-2.448E-02		5.549E-02	9.138E-02	9.880E-03	-0.268
AM-246	5.690E-02		4.749E-02	9.201E-02	1.177E-02	0.618
CF-249	8.132E-03		1.825E-02	3.175E-02	3.042E-03	0.256

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 18-OCT-2007 22:21:44

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785412_GAMMA3_400MLSAN_16593.CNF

---- Sample Information ----

Sample ID	: OH207-7854-12		
Sample Title	: SB-CZ-SS-2084-ST		
Sample Quantity	: 5.20800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16593		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 19:21:24
Decay time	: 51 19:21:24.84	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.10

---- 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 Woad Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	74.95*	941	1130	1.84	166.44	160	17	16.8	1.39E+00	AM-243 PB-214 PB-212
4	77.14*	1191	770	1.28	171.29	160	17	10.6		PB-214 PB-212
7	87.25	578	857	1.58	193.72	182	32	20.7	1.20E+00	NP-237 PB-214 PB-212
7	89.93	297	739	1.40	199.64	182	32	36.3		
7	92.83*	538	858	1.63	206.08	182	32	24.8		
0	128.89	234	692	1.55	286.00	281	10	44.2		AC-228
0	185.97*	453	631	1.62	412.52	407	11	24.2		
0	209.44	243	687	1.34	464.55	459	14	47.6		AC-228
3	238.71*	2532	434	1.47	529.42	522	21	5.1	2.05E+00	PB-212
3	241.68	503	460	1.85	536.00	522	21	24.2		PB-214
0	270.42	183	355	1.62	599.70	595	10	41.3		RA-223 AC-228
0	277.75	130	323	1.90	615.95	611	11	56.4		TL-208
0	295.42	502	402	1.42	655.13	649	11	17.8		PB-214
0	300.30	143	250	1.32	665.94	661	9	43.4		PB-212
0	328.36	101	304	2.01	728.13	723	10	68.1		
0	338.44*	555	323	1.51	750.47	744	15	16.6		AC-228
0	352.13*	1005	335	1.55	780.82	775	14	10.1		PB-214
0	463.19	110	222	1.16	1026.99	1020	14	60.6		AC-228
0	510.91*	265	221	2.08	1132.74	1125	16	30.3		TL-208
0	583.26*	777	207	1.79	1293.11	1286	18	11.4		TL-208
0	609.38*	676	178	1.67	1351.00	1341	17	11.9		BI-214
0	727.44	203	94	1.97	1612.66	1606	14	24.7		BI-212
0	769.96	57	123	4.36	1706.88	1700	14	86.8		BI-214
0	795.69	98	98	1.93	1763.91	1755	17	51.0		AC-228
0	835.98	42	44	1.42	1853.20	1849	9	66.3		
0	860.56	99	41	1.82	1907.68	1902	12	33.1		TL-208
0	911.32*	521	72	1.81	2020.18	2014	14	11.3		AC-228
2	964.90	131	59	2.44	2138.93	2130	27	33.8	1.84E+00	AC-228
2	969.06	314	53	2.03	2148.14	2130	27	14.9		AC-228
0	1120.41*	147	67	1.97	2483.54	2474	19	31.6		BI-214
0	1238.73	51	43	1.38	2745.76	2742	13	62.0		BI-214
0	1461.01*	334	43	2.01	3238.34	3229	21	15.0		K-40
0	1764.67*	121	9	1.88	3911.22	3902	19	22.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
7	89.93	297	739	1.40	199.64	182	32	2.75E-02	36.3	3.55E+00	
7	92.83	538	858	1.63	206.08	182	32	4.99E-02	24.8	3.55E+00	T
0	185.97	453	631	1.62	412.52	407	11	4.19E-02	24.2	2.81E+00	
0	328.36	101	304	2.01	728.13	723	10	9.32E-03	68.1	1.89E+00	
0	835.98	42	44	1.42	1853.20	1849	9	3.87E-03	66.3	8.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.698E+00	4.356E-01	2.268E-01	1.334E-02	11.897
TL-208	3.774E-01	5.235E-02	2.902E-02	2.310E-03	13.002
BI-212	8.520E-01	2.194E-01	2.329E-01	1.690E-02	3.659
PB-212	1.170E+00	1.060E-01	4.794E-02	3.584E-03	24.394
BI-214	6.247E-01	8.842E-02	5.147E-02	3.922E-03	12.138
PB-214	7.174E-01	9.213E-02	5.599E-02	4.454E-03	12.814
RA-223	2.913E-01	1.230E-01	1.478E-01	1.309E-02	1.971
AC-228	1.209E+00	1.610E-01	1.094E-01	7.695E-03	11.049
NP-237	6.308E-01	1.485E-01	1.447E-01	1.613E-02	4.359
AM-243	1.897E-01	4.841E-02	2.861E-02	5.502E-03	6.631

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.541E-03		1.671E-02	2.647E-02	1.404E-03	0.247
RH-101	-5.624E-03		1.702E-02	2.835E-02	4.376E-03	-0.198
SB-125	-1.186E-02		4.422E-02	7.590E-02	6.275E-03	-0.156
CS-137	-2.340E-03		1.823E-02	3.102E-02	2.233E-03	-0.075
EU-155	6.385E-02		5.009E-02	8.806E-02	8.281E-03	0.725
PO-209	1.536E+00		3.120E+00	5.718E+00	1.054E+00	0.269
BI-211	2.867E-02		5.250E-01	7.735E-01	5.570E-02	0.037
PA-233	-1.442E-02		3.001E-02	4.921E-02	4.016E-03	-0.293
PA-234M	6.922E-01		1.865E+00	3.372E+00	2.303E-01	0.205
TH-234	1.347E+00	+	3.551E-01	4.712E-01	3.135E-02	2.859
U-235	1.275E-01		1.074E-01	1.872E-01	1.390E-02	0.681
NP-236	4.366E-02		3.244E-02	4.803E-02	4.584E-03	0.909
NP-239	2.308E-02		1.118E-01	1.895E-01	2.536E-02	0.122
AM-241	-1.020E-01		3.474E-02	5.188E-02	3.283E-03	-1.966
CM-243	-5.398E-02		4.546E-02	7.534E-02	8.119E-03	-0.717
AM-246	-3.514E-02		5.555E-02	9.286E-02	1.172E-02	-0.378
CF-249	1.668E-02		1.897E-02	3.408E-02	3.395E-03	0.489

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 02:23:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785413_GAMMA1_400MLSAN_16594.CNF

---- Sample Information ----

Sample ID : OH207-7854-13
Sample Title : SB-CZ-SS-2085-ST
Sample Quantity : 4.38500E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16594

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

Collection Date : 28-AUG-2007 00:00:00 Acquisition date : 18-OCT-2007 23:22:56
Decay time : 51 23:22:56.84 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:02.26

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.98	286	463	1.06	149.38	145	13	26.4	1.59E+00	AM-243 PB-214 PB-212
2	77.20*	490	371	0.89	153.81	145	13	15.3		PB-214 PB-212
4	87.32	222	474	1.19	174.09	171	23	34.0	3.07E+00	NP-237 PB-214 PB-212
4	89.96	158	437	1.19	179.37	171	23	46.1		
4	92.86*	268	449	1.28	185.18	171	23	32.7		
0	129.34	68	439	0.76	258.23	255	7	105.3		AC-228
2	185.81*	192	423	1.33	371.30	367	10	42.9	1.25E+01	
2	186.43*	100	427	1.33	372.54	367	10	81.9		
0	209.40	169	402	1.10	418.54	415	9	45.6		AC-228
4	238.66*	1587	248	1.11	477.12	471	18	6.1	1.05E+00	PB-212
4	241.55	389	287	1.57	482.92	471	18	22.6		PB-214
0	270.14	212	341	1.36	540.15	535	13	38.4		RA-223 AC-228
0	277.24	122	313	1.60	554.38	550	12	60.6		TL-208
0	295.17	415	305	1.20	590.28	585	10	18.5		PB-214
0	299.94	148	207	1.22	599.82	595	9	38.8		PB-212
5	327.95	103	237	1.76	655.92	652	9	56.9	9.37E+00	
5	328.37	56	210	1.38	656.75	652	9	95.8		
0	338.14*	333	284	1.18	676.31	671	11	22.6		AC-228
0	351.74*	809	237	1.37	703.55	696	14	10.8		PB-214
0	462.54	119	185	1.81	925.38	918	13	50.6		AC-228
0	510.60*	219	198	1.94	1021.62	1013	17	35.4		TL-208
0	583.04*	568	146	1.46	1166.64	1159	16	12.8		TL-208
0	609.14*	677	84	1.46	1218.90	1214	12	9.5		BI-214
0	661.40	391	168	1.39	1323.53	1317	15	17.6		CS-137
0	727.39	107	119	1.23	1455.65	1449	14	47.6		BI-212
0	794.64	59	81	0.85	1590.28	1584	12	66.5		AC-228
0	861.05	105	75	1.98	1723.23	1715	16	42.7		TL-208
0	910.89*	399	54	1.74	1823.01	1814	17	13.3		AC-228
0	933.88	91	61	2.48	1869.04	1860	22	48.5		BI-214
3	964.32	88	41	2.26	1929.97	1924	21	38.6	9.94E-01	AC-228
3	968.71*	212	47	1.63	1938.75	1924	21	18.2		AC-228
0	1120.17	107	55	1.31	2241.95	2236	13	34.5		BI-214
0	1377.58	40	22	1.68	2757.21	2752	14	58.5		BI-214
0	1460.32*	251	35	2.03	2922.80	2915	14	16.5		K-40
0	1729.46	17	14	0.62	3461.48	3456	9	94.2		BI-214
0	1763.88*	120	12	2.23	3530.37	3524	12	22.1		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	89.96	158	437	1.19	179.37	171	23	1.46E-02	46.1	2.33E+00	
4	92.86	268	449	1.28	185.18	171	23	2.48E-02	32.7	2.43E+00	T
2	185.81	192	423	1.33	371.30	367	10	1.77E-02	42.9	3.03E+00	
2	186.43	100	427	1.33	372.54	367	10	9.24E-03	81.9	3.03E+00	
5	327.95	103	237	1.76	655.92	652	9	9.54E-03	56.9	2.11E+00	
5	328.37	56	210	1.38	656.75	652	9	5.19E-03	95.8	2.10E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.901E+00	3.387E-01	2.080E-01	1.419E-02	9.139
CS-137	2.167E-01	4.463E-02	2.524E-02	2.713E-03	8.583
TL-208	2.881E-01	4.696E-02	2.389E-02	2.397E-03	12.061
BI-212	4.544E-01	2.206E-01	1.875E-01	1.804E-02	2.423
PB-212	7.869E-01	7.730E-02	3.997E-02	3.084E-03	19.689
BI-214	6.501E-01	9.076E-02	4.526E-02	4.610E-03	14.364
PB-214	6.172E-01	8.246E-02	4.774E-02	3.767E-03	12.928
RA-223	3.604E-01	1.423E-01	1.176E-01	1.082E-02	3.064
AC-228	9.064E-01	1.309E-01	8.107E-02	4.480E-03	11.181
NP-237	4.652E-01	1.721E-01	2.305E-01	3.333E-02	2.018
AM-243	1.431E-01	4.822E-02	4.917E-02	1.032E-02	2.910

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-9.758E-05		1.427E-02	1.882E-02	1.228E-03	-0.005
RH-101	-1.240E-02		1.523E-02	2.435E-02	3.776E-03	-0.509
SB-125	1.356E-02		3.835E-02	6.740E-02	5.528E-03	0.201
EU-155	5.198E-02		5.523E-02	9.640E-02	9.571E-03	0.539
PO-209	-2.321E+00		2.773E+00	4.485E+00	8.028E-01	-0.517
BI-211	-3.286E-01		3.861E-01	6.349E-01	4.625E-02	-0.518
PA-233	1.193E-02		2.523E-02	4.499E-02	3.778E-03	0.265
PA-234M	1.325E+00		1.566E+00	2.960E+00	1.701E-01	0.448
TH-234	1.168E+00	+	4.059E-01	5.599E-01	6.533E-02	2.085
U-235	4.776E-02		9.634E-02	1.629E-01	1.137E-02	0.293
NP-236	4.757E-02		3.473E-02	5.581E-02	6.131E-03	0.852
NP-239	-9.562E-02		1.006E-01	1.563E-01	2.109E-02	-0.612
AM-241	7.408E-02		8.447E-02	1.516E-01	1.205E-02	0.489
CM-243	2.521E-02		4.994E-02	8.626E-02	9.830E-03	0.292
AM-246	2.483E-02		4.180E-02	7.859E-02	9.673E-03	0.316
CF-249	1.771E-02		1.586E-02	2.896E-02	2.793E-03	0.611

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 02:25:07

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785414_GAMMA2_400MLSAN_16595.CNF

---- Sample Information ----

Sample ID	: OH207-7854-14		
Sample Title	: SB-CZ-SS-2086-ST		
Sample Quantity	: 5.53400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16595		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 23:24:34
Decay time	: 51 23:24:34.23	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.52

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.81	408	676	1.19	149.20	142	18	23.6	1.86E+00	AM-243
										PB-214
										PB-212
2	77.07	685	579	1.01	153.70	142	18	13.6		PB-214
										PB-212
0	86.93*	129	792	1.12	173.33	171	7	74.9		NP-237
										PB-214
										PB-212
0	93.36*	232	1171	1.35	186.14	180	11	60.4		
0	129.40	137	671	0.73	257.89	254	8	67.8		AC-228
0	186.03*	389	773	1.22	370.67	366	10	29.1		
0	209.45	233	493	1.19	417.31	413	9	36.8		AC-228
2	238.77*	1944	378	1.15	475.72	470	17	5.7	1.92E+00	PB-212
2	241.14	208	394	1.30	480.44	470	17	44.5		
2	242.09	349	391	1.29	482.33	470	17	24.4		PB-214
1	270.16*	96	359	1.38	538.25	534	10	73.5	3.34E+00	RA-223
										AC-228
0	295.38*	632	366	1.25	588.50	583	11	14.3		PB-214
0	300.10	171	339	1.34	597.89	594	10	43.2		PB-212
0	327.90	123	336	1.03	653.30	648	10	58.5		
0	338.73*	370	407	1.28	674.87	669	12	24.4		AC-228
0	352.12*	1221	321	1.25	701.56	695	14	8.5		PB-214
0	409.50	75	190	1.65	815.91	812	9	70.0		AC-228
0	463.67	159	235	1.49	923.86	917	15	45.1		AC-228
0	511.19*	289	209	2.13	1018.61	1012	16	27.6		TL-208
0	583.32*	667	148	1.44	1162.43	1158	11	10.6		TL-208
0	609.46*	848	152	1.35	1214.55	1208	14	9.3		BI-214
3	661.78	414	64	1.63	1318.90	1312	37	12.3	1.41E+00	CS-137
3	665.04	47	93	2.09	1325.39	1312	37	110.3		
0	727.95	190	108	1.74	1450.88	1445	16	28.8		BI-212
0	768.41	55	104	1.68	1531.61	1523	13	81.1		BI-214
0	786.37	37	78	1.94	1567.45	1562	9	91.7		BI-212
0	795.20	75	98	1.56	1585.05	1578	14	60.6		AC-228
0	860.50*	94	66	1.12	1715.36	1709	12	40.6		TL-208
0	911.12*	458	84	1.76	1816.40	1808	16	13.1		AC-228
0	934.71	38	81	1.32	1863.50	1856	15	106.1		BI-214
1	964.62	109	41	1.93	1923.21	1918	30	28.8	1.20E+00	AC-228
1	968.89*	271	46	1.70	1931.72	1918	30	15.4		AC-228
0	1120.11*	174	63	1.52	2233.71	2227	14	24.8		BI-214
0	1238.15	78	34	2.01	2469.52	2465	10	36.1		BI-214
0	1376.85	47	27	1.48	2746.72	2741	12	53.3		BI-214
0	1459.87*	398	27	2.24	2912.70	2904	21	12.2		K-40
0	1727.61	33	24	2.33	3448.26	3439	14	72.9		BI-214
0	1762.42*	126	25	1.73	3517.94	3511	14	25.1		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	93.36	232	1171	1.35	186.14	180	11	2.15E-02	60.4	2.72E+00	T
0	186.03	389	773	1.22	370.67	366	10	3.60E-02	29.1	3.21E+00	
2	241.14	208	394	1.30	480.44	470	17	1.93E-02	44.5	2.78E+00	
0	327.90	123	336	1.03	653.30	648	10	1.14E-02	58.5	2.20E+00	
3	665.04	47	93	2.09	1325.39	1312	37	4.40E-03	****	1.21E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.501E+00	3.457E-01	1.474E-01	9.488E-03	16.970
CS-137	1.816E-01	3.049E-02	2.207E-02	2.511E-03	8.227
TL-208	2.645E-01	3.921E-02	2.170E-02	2.260E-03	12.187
BI-212	6.439E-01	1.984E-01	1.521E-01	1.663E-02	4.233
PB-212	7.249E-01	6.904E-02	3.651E-02	2.790E-03	19.858
BI-214	6.392E-01	9.049E-02	3.958E-02	4.215E-03	16.148
PB-214	7.079E-01	8.126E-02	4.107E-02	3.149E-03	17.236
RA-223	1.227E-01	9.091E-02	1.142E-01	1.016E-02	1.075
AC-228	8.441E-01	1.325E-01	7.881E-02	6.849E-03	10.710
NP-237	1.898E-01	1.442E-01	1.894E-01	2.381E-02	1.002
AM-243	1.388E-01	4.292E-02	3.985E-02	7.944E-03	3.484

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-5.819E-03		1.201E-02	1.882E-02	1.095E-03	-0.309
RH-101	5.713E-03		1.366E-02	2.238E-02	3.494E-03	0.255
SB-125	8.461E-03		3.547E-02	6.082E-02	4.986E-03	0.139
EU-155	7.055E-02		4.785E-02	8.268E-02	7.741E-03	0.853
PO-209	2.292E-01		2.141E+00	3.804E+00	7.294E-01	0.060
BI-211	-1.380E-01		3.679E-01	6.237E-01	6.105E-02	-0.221
PA-233	8.780E-03		2.405E-02	4.184E-02	3.370E-03	0.210
PA-234M	-1.684E-01		1.443E+00	2.499E+00	1.951E-01	-0.067
TH-234	7.196E-01	+	4.405E-01	4.644E-01	4.645E-02	1.550
U-235	4.434E-02		8.812E-02	1.460E-01	1.066E-02	0.304
NP-236	4.143E-02		2.895E-02	4.798E-02	4.770E-03	0.863
NP-239	-7.713E-02		8.405E-02	1.404E-01	1.895E-02	-0.549
AM-241	-6.923E-02		7.047E-02	1.166E-01	7.649E-03	-0.594
CM-243	-2.756E-03		4.347E-02	7.252E-02	7.840E-03	-0.038
AM-246	1.436E-02		3.744E-02	6.799E-02	8.696E-03	0.211
CF-249	-1.771E-03		1.506E-02	2.548E-02	2.441E-03	-0.070

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 02:26:26

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785415_GAMMA3_400MLSAN_16596.CNF

---- Sample Information ----

Sample ID	: OH207-7854-15
Sample Title	: SB-CZ-SS-2087-ST
Sample Quantity	: 4.18600E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16596

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 18-OCT-2007 23:26:09
Decay time	: 51 23:26:09.08	% 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.44*	103	420	1.25	103.25	97	11	84.0		
0	63.30*	161	612	1.18	140.62	136	10	63.6		TH-234
2	74.89*	690	834	1.59	166.32	160	18	19.2	1.81E+00	AM-243
										PB-214
										PB-212
2	77.22*	868	590	1.16	171.47	160	18	12.4		PB-214
										PB-212
3	87.22	349	682	1.49	193.64	183	32	29.6	1.65E+00	NP-237
										PB-214
										PB-212
3	89.95	277	574	1.40	199.69	183	32	34.1		
3	92.84*	350	577	1.43	206.09	183	32	31.6		TH-234
0	129.42	95	567	1.71	287.19	282	10	96.3		AC-228
0	185.92*	217	384	1.36	412.41	408	9	37.3		
0	209.22	176	360	1.61	464.07	460	10	42.9		AC-228
3	238.75*	1726	324	1.60	529.51	521	26	6.4	3.11E+00	PB-212
3	241.62	399	301	2.03	535.87	521	26	29.2		PB-214
0	270.21	149	279	1.51	599.25	594	11	46.5		RA-223
										AC-228
0	295.48	292	264	1.63	655.26	649	11	24.5		PB-214
0	300.50	110	220	1.98	666.38	662	10	53.9		PB-212
0	327.87	139	185	1.30	727.04	722	10	40.4		
0	338.36*	273	237	1.56	750.31	745	11	25.1		AC-228
0	352.09*	573	216	1.49	780.73	775	12	13.4		PB-214
0	409.42	64	140	0.96	907.80	904	10	73.6		AC-228
0	463.43	116	183	1.51	1027.52	1020	17	56.6		AC-228
0	510.96*	231	142	2.10	1132.86	1124	18	30.7		TL-208
0	583.18*	556	137	1.74	1292.92	1283	21	13.6		TL-208
0	609.41*	418	147	1.86	1351.06	1343	19	17.2		BI-214
0	661.73	640	102	1.82	1467.01	1461	14	10.4		CS-137
0	727.26	154	56	1.52	1612.26	1605	16	27.1		BI-212
1	860.00	66	28	2.16	1906.43	1899	22	47.3	1.98E+00	
1	860.90	12	28	1.76	1908.43	1899	22	230.9		TL-208
0	911.23*	307	55	2.23	2019.97	2013	13	15.4		AC-228
0	969.07	185	61	1.29	2148.16	2143	11	22.2		AC-228
0	1120.87*	61	66	1.60	2484.57	2475	18	68.7		BI-214
0	1238.31	76	19	1.72	2744.83	2736	19	36.0		BI-214
0	1461.02*	276	24	2.24	3238.36	3231	20	15.5		K-40
0	1765.67*	64	28	1.31	3913.43	3902	20	49.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.44	103	420	1.25	103.25	97	11	9.53E-03	84.0	2.76E+00	
3	89.95	277	574	1.40	199.69	183	32	2.56E-02	34.1	3.55E+00	
0	185.92	217	384	1.36	412.41	408	9	2.01E-02	37.3	2.82E+00	
0	327.87	139	185	1.30	727.04	722	10	1.29E-02	40.4	1.90E+00	
1	860.00	66	28	2.16	1906.43	1899	22	6.11E-03	47.3	8.42E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.777E+00	4.602E-01	2.900E-01	1.706E-02	9.577
CS-137	4.294E-01	5.414E-02	3.241E-02	2.334E-03	13.248
TL-208	3.364E-01	5.315E-02	3.065E-02	2.440E-03	10.974
BI-212	8.050E-01	2.255E-01	2.391E-01	1.736E-02	3.366
PB-212	9.917E-01	9.751E-02	4.917E-02	3.675E-03	20.171
BI-214	4.812E-01	9.050E-02	5.886E-02	4.485E-03	8.175
PB-214	5.083E-01	7.904E-02	6.240E-02	4.964E-03	8.146
RA-223	2.951E-01	1.397E-01	1.667E-01	1.476E-02	1.770
AC-228	8.846E-01	1.501E-01	1.184E-01	8.324E-03	7.472
TH-234	1.091E+00	3.580E-01	3.636E-01	3.255E-02	3.000
NP-237	4.736E-01	1.496E-01	1.580E-01	1.761E-02	2.998
AM-243	1.731E-01	4.704E-02	3.141E-02	6.041E-03	5.510

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.116E-03		1.688E-02	3.061E-02	1.863E-03	0.069
RH-101	-4.467E-03		1.865E-02	3.121E-02	4.817E-03	-0.143
SB-125	-7.939E-03		4.901E-02	8.487E-02	7.016E-03	-0.094
EU-155	4.481E-02		5.348E-02	9.407E-02	8.846E-03	0.476
PO-209	2.942E+00		3.534E+00	6.653E+00	1.226E+00	0.442
BI-211	-1.138E-01		5.109E-01	8.641E-01	6.223E-02	-0.132
PA-233	-2.909E-02		3.472E-02	5.591E-02	4.563E-03	-0.520
PA-234M	2.123E+00		2.016E+00	3.881E+00	2.650E-01	0.547
U-235	7.105E-03		1.104E-01	1.891E-01	1.403E-02	0.038
NP-236	3.145E-02		3.485E-02	5.143E-02	4.908E-03	0.612
NP-239	-7.324E-02		1.227E-01	2.023E-01	2.707E-02	-0.362
AM-241	2.649E-02		3.733E-02	5.581E-02	3.532E-03	0.475
CM-243	-6.061E-03		4.879E-02	8.390E-02	9.041E-03	-0.072
AM-246	4.077E-02		6.363E-02	1.192E-01	1.505E-02	0.342
CF-249	3.336E-03		2.124E-02	3.740E-02	3.725E-03	0.089

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 05:37:22

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785416_GAMMA1_400MLSAN_16597.CNF

---- Sample Information ----

Sample ID	: OH207-7854-16		
Sample Title	: SB-CZ-SS-2088-ST		
Sample Quantity	: 3.80200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16597		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 02:37:04
Decay time	: 52 02:37:04.33	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.19

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.88	372	486	1.12	149.17	144	17	22.5	2.43E+00	AM-243
										PB-214
										PB-212
2	77.19*	544	384	1.01	153.79	144	17	14.6		PB-214
										PB-212
0	87.49	179	586	1.09	174.42	170	8	49.1		NP-237
										PB-214
										PB-212
3	93.29*	123	514	1.28	186.04	182	11	71.6	2.60E+00	
0	186.11*	222	500	1.13	371.89	367	10	41.4		
0	209.58	271	595	1.47	418.89	411	16	42.3		AC-228
4	238.66*	1622	246	1.12	477.12	470	18	6.0	1.69E+00	PB-212
4	241.59	357	288	1.71	482.99	470	18	25.5		PB-214
0	270.00	131	245	1.30	539.87	536	9	46.5		RA-223
										AC-228
0	295.39	413	266	1.17	590.72	586	11	18.2		PB-214
0	300.26	110	201	1.01	600.46	597	9	50.0		PB-212
0	327.81	112	182	1.16	655.63	652	9	47.4		
0	338.34*	378	228	1.26	676.71	673	11	18.7		AC-228
0	351.95*	701	233	1.11	703.97	699	12	11.7		PB-214
0	409.77	93	167	1.86	819.73	815	11	57.6		AC-228
0	462.77	95	136	0.98	925.86	922	10	50.4		AC-228
0	510.89*	213	230	2.00	1022.19	1015	18	39.1		TL-208
0	583.10*	519	93	1.43	1166.76	1162	11	11.6		TL-208
0	609.15*	585	135	1.44	1218.93	1211	14	11.9		BI-214
0	661.61	255	111	1.27	1323.96	1319	11	20.4		CS-137
0	727.28	136	103	1.27	1455.43	1450	13	35.8		BI-212
0	794.43	87	33	1.76	1589.86	1584	10	32.7		AC-228
0	860.65	94	48	1.27	1722.44	1715	14	37.6		TL-208
0	910.89*	364	55	1.76	1823.00	1817	11	13.3		AC-228
0	968.76*	174	137	1.51	1938.85	1929	16	34.0		AC-228
0	1119.98	154	34	1.72	2241.58	2235	15	23.1		BI-214
0	1238.36	71	42	1.72	2478.53	2469	18	50.1		BI-214
0	1377.41	32	32	1.47	2756.85	2749	15	87.3		BI-214
0	1460.52*	144	44	2.40	2923.22	2916	20	28.9		K-40
0	1763.73*	124	4	2.79	3530.06	3523	15	19.9		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	93.29	123	514	1.28	186.04	182	11	1.14E-02	71.6	2.44E+00	T
0	186.11	222	500	1.13	371.89	367	10	2.06E-02	41.4	3.03E+00	
0	327.81	112	182	1.16	655.63	652	9	1.04E-02	47.4	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.256E+00	3.723E-01	2.199E-01	1.501E-02	5.711
CS-137	1.633E-01	3.761E-02	3.218E-02	3.458E-03	5.074
TL-208	3.035E-01	4.649E-02	2.922E-02	2.932E-03	10.389
BI-212	6.670E-01	2.470E-01	2.025E-01	1.948E-02	3.294
PB-212	9.276E-01	9.074E-02	4.469E-02	3.449E-03	20.757
BI-214	6.477E-01	1.016E-01	5.368E-02	5.467E-03	12.068
PB-214	6.164E-01	8.724E-02	5.273E-02	4.161E-03	11.690
RA-223	2.569E-01	1.217E-01	1.367E-01	1.258E-02	1.879
AC-228	9.560E-01	1.380E-01	9.205E-02	5.087E-03	10.386
NP-237	4.341E-01	2.220E-01	2.705E-01	3.911E-02	1.605
AM-243	2.151E-01	6.615E-02	5.448E-02	1.143E-02	3.948

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.215E-03		1.339E-02	2.282E-02	1.392E-03	-0.185
RH-101	-5.380E-03		1.656E-02	2.725E-02	4.227E-03	-0.197
SB-125	3.904E-03		4.230E-02	7.344E-02	6.023E-03	0.053
EU-155	5.628E-02		6.125E-02	1.071E-01	1.063E-02	0.526
PO-209	-4.698E-01		2.803E+00	4.914E+00	8.794E-01	-0.096
BI-211	-1.027E-01		4.679E-01	8.123E-01	5.918E-02	-0.126
PA-233	1.270E-03		2.975E-02	5.199E-02	4.365E-03	0.024
PA-234M	7.523E-01		1.746E+00	3.206E+00	1.843E-01	0.235
TH-234	6.194E-01	+	4.497E-01	6.449E-01	7.523E-02	0.961
U-235	7.791E-02		1.071E-01	1.826E-01	1.275E-02	0.427
NP-236	1.704E-02		3.777E-02	5.900E-02	6.481E-03	0.289
NP-239	7.381E-02		1.088E-01	1.833E-01	2.473E-02	0.403
AM-241	-1.591E-03		9.947E-02	1.733E-01	1.378E-02	-0.009
CM-243	6.920E-03		5.423E-02	9.279E-02	1.057E-02	0.075
AM-246	4.196E-02		4.717E-02	9.127E-02	1.123E-02	0.460
CF-249	1.889E-02		2.021E-02	3.631E-02	3.502E-03	0.520

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 05:38:37

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785417_GAMMA2_400MLSAN_16598.CNF

---- Sample Information ----

Sample ID	: OH207-7854-17		
Sample Title	: SB-CZ-SS-2089-ST		
Sample Quantity	: 4.44000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16598		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 02:38:23
Decay time	: 52 02:38:23.14	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.39

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.86	343	657	0.96	149.30	145	13	25.7	7.65E-01	AM-243
										PB-214
										PB-212
3	77.09	617	496	0.91	153.74	145	13	13.7		PB-214
										PB-212
0	87.09*	139	795	1.13	173.66	170	8	73.1		NP-237
										PB-214
										PB-212
3	90.01*	184	396	1.23	179.47	177	14	35.4	1.72E+00	
3	92.85*	327	610	1.36	185.13	177	14	29.9		
0	186.06*	290	687	1.21	370.73	366	10	36.5		
0	209.36	172	533	0.98	417.13	413	9	50.8		AC-228
2	238.79*	2029	322	1.15	475.77	469	18	5.4	1.29E+00	PB-212
2	241.11	191	343	1.38	480.38	469	18	54.2		
2	242.19	211	295	1.14	482.54	469	18	33.0		PB-214
0	269.86*	127	364	1.01	537.65	533	10	59.5		RA-223
										AC-228
0	277.78	144	485	1.34	553.43	545	15	68.7		TL-208
2	295.43*	561	245	1.28	588.60	584	19	12.9	1.14E+00	PB-214
2	300.15	124	223	1.30	597.99	584	19	46.2		PB-212
0	328.31	126	323	1.23	654.11	649	11	58.1		
0	338.49*	420	205	1.16	674.39	670	9	15.9		AC-228
0	352.17*	964	352	1.33	701.66	696	14	10.6		PB-214
0	409.93	69	221	1.83	816.75	812	11	86.1		AC-228
0	463.07	98	188	1.10	922.67	917	12	59.7		AC-228
0	510.81*	284	244	1.88	1017.85	1010	17	29.7		TL-208
0	583.40*	684	96	1.47	1162.57	1157	11	9.6		TL-208
0	609.44*	661	126	1.48	1214.51	1207	13	10.6		BI-214
0	661.92	154	114	1.09	1319.18	1313	10	30.3		CS-137
0	727.30	137	140	1.40	1449.59	1443	15	41.2		BI-212
0	755.13	31	62	0.72	1505.11	1501	9	96.6		
0	795.16	88	70	1.45	1584.99	1580	10	41.3		AC-228
0	860.52*	71	55	1.91	1715.41	1708	13	50.0		TL-208
0	911.14*	483	63	1.62	1816.44	1808	17	12.0		AC-228
0	934.67	22	33	0.96	1863.42	1859	7	97.2		BI-214
1	964.38	73	60	1.93	1922.74	1916	22	51.3	1.41E+00	AC-228
1	968.90*	230	62	1.73	1931.75	1916	22	18.1		AC-228
0	1120.15*	162	74	1.63	2233.78	2225	18	30.0		BI-214
0	1237.68	86	31	2.13	2468.58	2460	16	36.6		BI-214
0	1459.75*	235	44	1.83	2912.46	2902	20	19.7		K-40
0	1588.55*	54	28	1.04	3170.05	3162	18	53.3		AC-228
0	1628.79	43	6	2.00	3250.53	3243	14	40.0		
0	1728.75	20	19	0.95	3450.55	3442	13	103.3		BI-214
0	1762.70*	117	14	2.34	3518.50	3512	14	23.9		BI-214
0	1845.03	23	6	1.62	3683.28	3676	12	59.6		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	90.01	184	396	1.23	179.47	177	14	1.70E-02	35.4	2.61E+00	
3	92.85	327	610	1.36	185.13	177	14	3.03E-02	29.9	2.71E+00	T
0	186.06	290	687	1.21	370.73	366	10	2.68E-02	36.5	3.21E+00	
2	241.11	191	343	1.38	480.38	469	18	1.77E-02	54.2	2.78E+00	
0	328.31	126	323	1.23	654.11	649	11	1.17E-02	58.1	2.20E+00	
0	755.13	31	62	0.72	1505.11	1501	9	2.91E-03	96.6	1.10E+00	
0	1628.79	43	6	2.00	3250.53	3243	14	3.96E-03	40.0	6.22E-01	
0	1845.03	23	6	1.62	3683.28	3676	12	2.13E-03	59.6	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.838E+00	3.808E-01	2.065E-01	1.329E-02	8.900
CS-137	8.438E-02	2.734E-02	3.024E-02	3.440E-03	2.790
TL-208	3.381E-01	4.778E-02	2.501E-02	2.605E-03	13.517
BI-212	5.799E-01	2.473E-01	2.047E-01	2.238E-02	2.834
PB-212	9.429E-01	8.814E-02	4.216E-02	3.222E-03	22.365
BI-214	6.212E-01	9.332E-02	5.044E-02	5.371E-03	12.314
PB-214	6.964E-01	9.105E-02	4.849E-02	3.718E-03	14.361
RA-223	2.026E-01	1.220E-01	1.348E-01	1.200E-02	1.503
AC-228	1.111E+00	1.642E-01	8.135E-02	7.069E-03	13.652
NP-237	2.547E-01	1.888E-01	2.356E-01	2.961E-02	1.081
AM-243	1.454E-01	4.729E-02	4.868E-02	9.703E-03	2.987

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.473E-03		1.339E-02	2.312E-02	1.345E-03	-0.193
RH-101	-2.018E-03		1.628E-02	2.626E-02	4.099E-03	-0.077
SB-125	2.624E-02		4.030E-02	7.089E-02	5.812E-03	0.370
EU-155	3.912E-02		5.623E-02	9.592E-02	8.981E-03	0.408
PO-209	-5.683E-01		2.962E+00	5.093E+00	9.764E-01	-0.112
BI-211	-3.865E-01		4.711E-01	7.700E-01	7.537E-02	-0.502
PA-233	2.857E-02		2.677E-02	4.808E-02	3.873E-03	0.594
PA-234M	5.941E-01		1.573E+00	2.878E+00	2.247E-01	0.206
TH-234	1.264E+00	+	3.988E-01	5.625E-01	5.626E-02	2.247
U-235	8.047E-02		1.009E-01	1.690E-01	1.233E-02	0.476
NP-236	2.454E-02		3.335E-02	5.463E-02	5.431E-03	0.449
NP-239	3.415E-03		9.354E-02	1.629E-01	2.198E-02	0.021
AM-241	1.308E-04		8.187E-02	1.401E-01	9.192E-03	0.001
CM-243	2.485E-04		5.115E-02	8.563E-02	9.258E-03	0.003
AM-246	1.199E-03		4.878E-02	8.528E-02	1.091E-02	0.014
CF-249	1.229E-02		1.720E-02	3.034E-02	2.907E-03	0.405

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 05:40:11

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785418_GAMMA3_400MLSAN_16599.CNF

---- Sample Information ----

Sample ID	: OH207-7854-18		
Sample Title	: SB-CZ-SS-2090-ST		
Sample Quantity	: 3.75500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16599		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 02:39:52
Decay time	: 52 02:39:52.81	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.84

---- 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 Moad Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.18*	140	615	1.28	140.36	136	10	72.8		TH-234
1	74.88*	530	723	1.44	166.29	161	16	21.3	1.37E+00	AM-243
										PB-214
										PB-212
1	77.13*	784	566	1.38	171.28	161	16	14.0		PB-214
										PB-212
0	87.21	173	599	1.14	193.62	190	8	51.2		NP-237
										PB-214
										PB-212
0	92.92*	282	583	1.73	206.27	202	10	37.4		TH-234
0	185.89*	197	365	1.44	412.35	408	10	41.4		
0	209.36	88	271	1.03	464.37	461	8	69.1		AC-228
0	238.60*	1058	565	1.40	529.18	522	13	11.4		PB-212
0	242.12	145	274	1.40	536.99	534	8	45.3		PB-214
0	273.27	232	512	8.68	606.03	593	29	57.7		
0	295.20	320	182	1.44	654.63	649	12	20.2		PB-214
0	300.44	97	175	2.15	666.24	661	12	57.8		PB-212
0	338.65*	225	213	1.51	750.95	744	14	31.0		AC-228
0	352.10*	524	181	1.63	780.76	775	14	14.1		PB-214
0	463.76	79	103	2.46	1028.24	1023	11	55.6		AC-228
0	511.02*	183	147	1.59	1132.99	1124	19	39.1		TL-208
0	583.23*	362	95	1.47	1293.03	1286	14	15.8		TL-208
0	609.36*	363	88	1.66	1350.95	1344	14	15.4		BI-214
0	662.23	135	139	1.91	1468.13	1459	20	46.2		CS-137
0	727.61	98	46	1.41	1613.03	1605	14	35.5		BI-212
0	795.49	66	44	1.41	1763.47	1757	14	49.7		AC-228
0	861.01	37	63	1.57	1908.68	1902	12	92.2		TL-208
0	911.17*	235	27	1.86	2019.84	2013	15	16.5		AC-228
0	969.44	118	122	1.44	2148.99	2139	17	48.0		AC-228
0	1120.79*	77	45	1.39	2484.39	2477	16	48.2		BI-214
0	1461.13*	84	24	2.54	3238.61	3228	19	38.0		K-40
0	1631.46	18	15	1.20	3616.05	3604	20	114.1		
0	1764.86*	48	21	2.26	3911.63	3899	21	57.1		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	185.89	197	365	1.44	412.35	408	10	1.82E-02	41.4	2.82E+00	
0	273.27	232	512	8.68	606.03	593	29	2.15E-02	57.7	2.18E+00	
0	1631.46	18	15	1.20	3616.05	3604	20	1.69E-03	****	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	9.392E-01	3.613E-01	2.582E-01	1.519E-02	3.638
CS-137	1.011E-01	4.725E-02	3.465E-02	2.495E-03	2.917
TL-208	2.440E-01	4.319E-02	2.962E-02	2.357E-03	8.238
BI-212	5.724E-01	2.072E-01	2.451E-01	1.779E-02	2.335
PB-212	6.777E-01	9.237E-02	5.623E-02	4.203E-03	12.051
BI-214	4.659E-01	8.019E-02	6.267E-02	4.775E-03	7.434
PB-214	5.182E-01	8.374E-02	6.531E-02	5.196E-03	7.934
AC-228	7.571E-01	1.361E-01	1.029E-01	7.232E-03	7.361
TH-234	9.803E-01	3.772E-01	4.599E-01	3.060E-02	2.131
NP-237	2.626E-01	1.376E-01	1.827E-01	2.036E-02	1.438
AM-243	1.481E-01	4.251E-02	3.230E-02	6.211E-03	4.587

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-5.324E-03		1.565E-02	2.730E-02	1.662E-03	-0.195
RH-101	2.371E-03		1.890E-02	3.210E-02	4.954E-03	0.074
SB-125	-5.827E-03		5.245E-02	9.122E-02	7.541E-03	-0.064
EU-155	5.301E-02		5.382E-02	9.543E-02	8.973E-03	0.555
PO-209	-3.777E-01		3.644E+00	6.496E+00	1.197E+00	-0.058
BI-211	-6.992E-02		5.481E-01	9.367E-01	6.746E-02	-0.075
RA-223	1.997E-01		1.190E-01	1.891E-01	1.674E-02	1.056
PA-233	1.794E-02		3.405E-02	5.903E-02	4.817E-03	0.304
PA-234M	1.867E+00		2.137E+00	4.087E+00	2.791E-01	0.457
U-235	6.906E-03		1.110E-01	1.907E-01	1.416E-02	0.036
NP-236	4.126E-02		3.302E-02	5.224E-02	4.985E-03	0.790
NP-239	-6.266E-02		1.186E-01	1.964E-01	2.628E-02	-0.319
AM-241	5.974E-02		3.931E-02	6.090E-02	3.854E-03	0.981
CM-243	2.377E-02		4.839E-02	8.487E-02	9.145E-03	0.280
AM-246	9.534E-02		6.608E-02	1.317E-01	1.663E-02	0.724
CF-249	1.666E-02		2.141E-02	3.892E-02	3.876E-03	0.428

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 10:26:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785419_GAMMA1_400MLSAN_16600.CNF

---- Sample Information ----

Sample ID	: OH207-7854-19
Sample Title	: SB-CZ-SS-2091-ST
Sample Quantity	: 4.83900E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16600

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 07:25:51
Decay time	: 52 07:25:51.26	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.37

---- 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: TM Moore Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.93	292	518	1.12	149.28	145	13	28.4	1.88E+00	AM-243
										PB-214
										PB-212
2	77.22*	531	419	1.05	153.86	145	13	15.3		PB-214
										PB-212
4	87.31	263	527	1.39	174.07	164	27	33.1	1.08E+00	NP-237
										PB-214
										PB-212
4	90.12	155	532	1.36	179.69	164	27	54.7		
4	92.84*	233	536	1.30	185.14	164	27	38.9		
0	154.14	103	480	0.87	307.88	304	8	76.6		
0	185.91*	301	515	1.25	371.50	367	9	30.4		
0	209.37	168	410	1.26	418.47	415	8	44.5		AC-228
5	238.65*	1619	286	1.14	477.11	471	17	6.1	1.31E+00	PB-212
5	241.61	389	376	1.67	483.04	471	17	24.8		PB-214
0	270.41	154	404	1.10	540.71	535	11	53.2		RA-223
										AC-228
0	295.10	590	357	1.26	590.13	584	11	14.9		PB-214
0	300.28	92	304	1.30	600.51	596	9	71.1		PB-212
0	338.43*	399	229	1.20	676.90	673	11	18.0		AC-228
0	351.80*	938	355	1.28	703.65	697	14	10.8		PB-214
0	462.93	159	221	1.23	926.17	919	14	42.6		AC-228
0	510.52*	246	189	1.71	1021.45	1013	18	31.8		TL-208
0	583.09*	547	128	1.55	1166.75	1161	12	12.1		TL-208
0	609.17*	742	157	1.35	1218.97	1212	13	10.2		BI-214
0	661.39	665	98	1.60	1323.52	1315	14	10.0		CS-137
0	727.17	143	95	1.57	1455.20	1449	15	34.0		BI-212
0	768.50	67	70	1.63	1537.95	1532	11	54.8		BI-214
0	794.72	70	55	1.16	1590.44	1585	10	46.3		AC-228
0	860.77	89	63	1.60	1722.67	1716	16	46.1		TL-208
0	911.00*	373	105	1.61	1823.23	1816	16	16.2		AC-228
2	964.09	60	57	2.06	1929.52	1922	28	55.8	7.38E-01	AC-228
2	968.57*	189	41	1.68	1938.48	1922	28	19.8		AC-228
0	1120.14	192	47	1.73	2241.89	2233	19	22.4		BI-214
0	1237.87	59	52	1.82	2477.55	2468	16	60.3		BI-214
0	1460.34*	167	52	1.75	2922.84	2914	19	26.4		K-40
0	1500.88	21	9	0.97	3004.00	2999	9	67.5		
0	1630.00	40	20	1.08	3262.42	3255	19	61.8		
0	1764.15*	125	48	2.31	3530.90	3522	22	34.1		BI-214
0	1846.61	21	9	1.39	3695.94	3689	12	71.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.12	155	532	1.36	179.69	164	27	1.44E-02	54.7	2.33E+00	
4	92.84	233	536	1.30	185.14	164	27	2.16E-02	38.9	2.43E+00	T
0	154.14	103	480	0.87	307.88	304	8	9.50E-03	76.6	3.17E+00	
0	185.91	301	515	1.25	371.50	367	9	2.79E-02	30.4	3.03E+00	
0	1500.88	21	9	0.97	3004.00	2999	9	1.94E-03	67.5	6.94E-01	
0	1630.00	40	20	1.08	3262.42	3255	19	3.67E-03	61.8	6.51E-01	
0	1846.61	21	9	1.39	3695.94	3689	12	1.95E-03	71.8	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.144E+00	3.120E-01	1.790E-01	1.222E-02	6.390
CS-137	3.343E-01	4.907E-02	2.647E-02	2.844E-03	12.628
TL-208	2.512E-01	3.940E-02	2.341E-02	2.350E-03	10.728
BI-212	5.517E-01	1.951E-01	1.621E-01	1.560E-02	3.402
PB-212	7.276E-01	7.176E-02	3.833E-02	2.958E-03	18.982
BI-214	6.460E-01	9.319E-02	4.396E-02	4.478E-03	14.693
PB-214	6.482E-01	8.657E-02	4.693E-02	3.703E-03	13.813
RA-223	2.383E-01	1.286E-01	1.222E-01	1.124E-02	1.950
AC-228	7.687E-01	1.316E-01	7.742E-02	4.279E-03	9.929
NP-237	5.005E-01	1.806E-01	1.792E-01	2.591E-02	2.794
AM-243	1.327E-01	4.688E-02	4.475E-02	9.388E-03	2.964

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.104E-02		1.048E-02	1.600E-02	9.765E-04	-0.690
RH-101	-1.294E-03		1.456E-02	2.408E-02	3.735E-03	-0.054
SB-125	-3.467E-02		3.776E-02	6.132E-02	5.029E-03	-0.565
EU-155	4.361E-02		5.139E-02	8.936E-02	8.872E-03	0.488
PO-209	-9.310E-01		2.285E+00	3.898E+00	6.976E-01	-0.239
BI-211	-5.056E-02		3.604E-01	6.302E-01	4.591E-02	-0.080
PA-233	-1.073E-02		2.486E-02	4.239E-02	3.560E-03	-0.253
PA-234M	-1.249E-01		1.466E+00	2.557E+00	1.470E-01	-0.049
TH-234	9.230E-01	+	3.745E-01	5.159E-01	6.019E-02	1.789
U-235	1.093E-01		9.126E-02	1.571E-01	1.097E-02	0.695
NP-236	3.462E-02		3.055E-02	5.143E-02	5.650E-03	0.673
NP-239	-1.915E-02		9.049E-02	1.467E-01	1.980E-02	-0.131
AM-241	2.802E-02		8.230E-02	1.448E-01	1.151E-02	0.194
CM-243	4.691E-03		4.615E-02	7.869E-02	8.968E-03	0.060
AM-246	1.564E-02		3.913E-02	7.198E-02	8.860E-03	0.217
CF-249	2.049E-02		1.610E-02	2.926E-02	2.822E-03	0.700

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 10:27:24

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785420_GAMMA3_400MLSAN_16601.CNF

---- Sample Information ----

Sample ID	: OH207-7854-20		
Sample Title	: SB-CZ-SS-2092-ST		
Sample Quantity	: 5.63500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16601		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 07:27:07
Decay time	: 52 07:27:07.63	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.95

---- 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 Moad Date: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.38*	151	546	1.32	103.11	96	13	68.4		
0	63.31*	195	618	1.19	140.64	136	10	52.9		TH-234
2	74.85*	574	719	1.38	166.21	160	18	19.4	7.63E-01	AM-243
										PB-214
										PB-212
2	77.25*	818	622	1.21	171.53	160	18	13.4		PB-214
										PB-212
0	87.26	272	584	1.51	193.72	191	7	31.9		NP-237
										PB-214
										PB-212
0	92.99*	296	899	1.55	206.42	202	11	43.5		TH-234
0	186.03*	281	565	1.33	412.66	408	11	36.2		
0	209.30	121	527	1.28	464.23	459	11	75.8		AC-228
2	238.73*	1497	330	1.46	529.46	523	19	7.1	1.35E+00	PB-212
2	241.82	454	336	1.85	536.33	523	19	22.9		PB-214
0	270.17	187	304	1.32	599.16	593	13	41.3		RA-223
										AC-228
0	278.15	75	367	1.23	616.84	612	13	108.5		TL-208
0	295.34	605	273	1.50	654.96	650	12	13.7		PB-214
0	300.53	113	239	1.57	666.45	661	11	56.7		PB-212
0	338.38*	304	282	1.32	750.34	744	12	25.0		AC-228
0	352.13*	1025	288	1.59	780.82	772	15	9.5		PB-214
0	463.72	82	131	2.18	1028.15	1023	11	59.0		AC-228
0	510.65*	210	161	2.14	1132.17	1122	19	35.3		TL-208
0	583.22*	397	218	1.98	1293.02	1285	20	21.1		TL-208
0	609.36*	758	134	1.67	1350.94	1342	19	10.4		BI-214
0	661.39	143	174	1.11	1466.27	1461	15	43.2		CS-137
0	727.25	118	74	1.34	1612.23	1606	14	35.9		BI-212
0	862.07	96	70	7.29	1911.02	1902	22	50.6		TL-208
0	911.34*	304	60	1.98	2020.23	2014	15	16.2		AC-228
0	935.79	45	69	1.16	2074.41	2065	19	95.4		BI-214
2	964.76	74	65	2.31	2138.61	2131	26	52.0	9.68E-01	AC-228
2	968.91	175	54	2.15	2147.82	2131	26	23.8		AC-228
0	1120.35*	194	37	2.34	2483.41	2474	21	21.5		BI-214
0	1238.07	95	19	1.50	2744.30	2738	15	28.7		BI-214
0	1377.63	55	26	1.28	3053.57	3043	21	54.1		BI-214
0	1461.12*	215	14	2.34	3238.57	3231	20	17.1		K-40
0	1764.81*	119	13	2.34	3911.52	3903	17	23.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.38	151	546	1.32	103.11	96	13	1.40E-02	68.4	2.76E+00	
0	186.03	281	565	1.33	412.66	408	11	2.60E-02	36.2	2.81E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.607E+00	2.900E-01	2.211E-01	1.301E-02	7.268
CS-137	7.108E-02	3.115E-02	2.627E-02	1.891E-03	2.706
TL-208	1.784E-01	4.014E-02	2.226E-02	1.772E-03	8.012
BI-212	4.588E-01	1.679E-01	1.746E-01	1.267E-02	2.629
PB-212	6.389E-01	6.585E-02	3.850E-02	2.878E-03	16.594
BI-214	6.482E-01	8.353E-02	4.523E-02	3.446E-03	14.331
PB-214	6.759E-01	8.400E-02	4.891E-02	3.891E-03	13.818
RA-223	2.744E-01	1.159E-01	1.222E-01	1.081E-02	2.247
AC-228	6.515E-01	1.152E-01	9.360E-02	6.581E-03	6.961
TH-234	6.848E-01	3.039E-01	3.228E-01	2.148E-02	2.121
NP-237	2.740E-01	9.249E-02	1.441E-01	1.606E-02	1.902
AM-243	1.069E-01	2.923E-02	2.351E-02	4.522E-03	4.548

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.069E-03		1.422E-02	2.330E-02	1.236E-03	0.346
RH-101	-1.700E-03		1.489E-02	2.501E-02	3.861E-03	-0.068
SB-125	6.099E-03		3.697E-02	6.504E-02	5.377E-03	0.094
EU-155	3.948E-02		4.328E-02	7.594E-02	7.141E-03	0.520
PO-209	9.443E-01		2.622E+00	4.811E+00	8.864E-01	0.196
BI-211	-5.041E-01		4.415E-01	6.869E-01	4.947E-02	-0.734
PA-233	-1.406E-02		2.615E-02	4.280E-02	3.493E-03	-0.328
PA-234M	2.015E+00		1.591E+00	3.080E+00	2.103E-01	0.654
U-235	-2.124E-02		9.095E-02	1.542E-01	1.144E-02	-0.138
NP-236	1.644E-02		2.804E-02	4.076E-02	3.890E-03	0.403
NP-239	-5.204E-02		9.650E-02	1.594E-01	2.133E-02	-0.326
AM-241	3.232E-02		2.759E-02	4.201E-02	2.659E-03	0.769
CM-243	1.881E-02		3.902E-02	6.793E-02	7.320E-03	0.277
AM-246	9.306E-03		4.810E-02	8.696E-02	1.098E-02	0.107
CF-249	1.341E-03		1.565E-02	2.747E-02	2.736E-03	0.049

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:	9/10/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7854 7857			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7855-PB		9/10/2007 9:00:00 AM	
SCAQC	7855-LD1 OH207-7855-01	SB-CZ-SS-2093-ST	8/28/2007	
SCAQC	7855-LC1		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7855-01	SB-CZ-SS-2093-ST	8/28/2007	
OH207	7855-02	SB-CZ-SS-2094-ST	8/28/2007	

10/23/07
Radiochemistry Reviewer Date

10/23/2007
QA Reviewer 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
10-19-07 02:37 G1 MW	180	OH207	7854	16	-	8-28-07	SB-CZ-SS-2088-ST	Soil	380.2 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 02:38 G2 MW				17	-		2089-ST		444.0 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 02:39 G3 MW				18	-		2090-ST		375.5 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 0724 G1 1Lw				19	-		2091-ST		483.9 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 0724 G3 1Lw				20	-		2092-ST		563.5 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 10:18 0904 G2	180	SCAQC	7855	PB1	-	9-10-07 0900	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 ☐
10-19-07 0950 G2 1Lw	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 ☐
10-19-07 1035 G1 MW 1344	180			LD1	-	8-28-07	DUP 7855-01		500.2 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 G3 MW	180	OH207		01	-		SB-CZ-SS-2093-ST			400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1036 G3	180			02	-		SB-CZ-SS-2094-ST		542.2 g dry	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 19-OCT-2007 13:18:49

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7855PB1_GAMMA2_400MLSA_16605.CNF

---- Sample Information ----

Sample ID	: SCAQC-7855-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16605		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 19-OCT-2007 10:18:35
Decay time	: 39 01:18:35.12	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.57

---- 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 W Mead Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	238.56*	35	83	2.24	475.31	472	7103.2			
0	612.66	77	63	6.74	1220.93	1209	27	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	238.56	35	83	2.24	475.31	472	7	3.20E-03	****	2.80E+00	T
0	612.66	77	63	6.74	1220.93	1209	27	7.13E-03	63.4	1.29E+00	

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	-7.668E-03		1.306E-01	2.661E-01	1.713E-02	-0.029
CO-60	-1.255E-03		8.875E-03	1.667E-02	9.212E-04	-0.075
RH-101	-6.788E-03		1.062E-02	1.672E-02	2.610E-03	-0.406
SB-125	-7.605E-03		2.761E-02	4.704E-02	3.857E-03	-0.162
CS-137	-2.536E-03		9.629E-03	1.720E-02	1.957E-03	-0.147
EU-155	-1.032E-02		3.385E-02	5.677E-02	5.316E-03	-0.182
TL-208	8.393E-03		1.162E-02	2.184E-02	2.274E-03	0.384
PO-209	3.294E-01		1.792E+00	3.384E+00	6.488E-01	0.097
BI-211	-1.122E-01		2.745E-01	4.751E-01	4.651E-02	-0.236
BI-212	2.973E-02		7.472E-02	1.424E-01	1.557E-02	0.209
PB-212	1.783E-02	+	1.846E-02	3.146E-02	2.404E-03	0.567
BI-214	6.508E-03		2.265E-02	4.274E-02	4.551E-03	0.152
PB-214	-1.923E-02		2.320E-02	3.829E-02	2.936E-03	-0.502
RA-223	3.640E-02		5.237E-02	9.417E-02	8.378E-03	0.386
AC-228	4.842E-03		4.386E-02	8.194E-02	7.120E-03	0.059
PA-233	-6.080E-03		1.771E-02	3.048E-02	2.455E-03	-0.199
PA-234M	-9.201E-01		1.159E+00	1.912E+00	1.493E-01	-0.481
TH-234	-8.418E-02		1.756E-01	3.223E-01	3.223E-02	-0.261
U-235	3.638E-02		6.411E-02	1.085E-01	7.916E-03	0.335
NP-236	2.008E-02		1.890E-02	3.425E-02	3.404E-03	0.586
NP-237	-9.282E-03		7.081E-02	1.179E-01	1.482E-02	-0.079
NP-239	-1.446E-03		6.302E-02	1.116E-01	1.506E-02	-0.013
AM-241	1.197E-02		4.902E-02	8.700E-02	5.707E-03	0.138
AM-243	5.913E-03		1.620E-02	2.851E-02	5.684E-03	0.207
CM-243	1.524E-02		2.954E-02	5.210E-02	5.632E-03	0.292
AM-246	1.353E-03		3.036E-02	5.655E-02	7.233E-03	0.024
CF-249	-1.164E-02		1.131E-02	1.796E-02	1.721E-03	-0.648

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 08:51:40

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7855LC1_GAMMA2_400MLSA_16602.CNF

---- Sample Information ----

Sample ID	: SCAQC-7855-LC1		
Sample Title	: CTRL SAMPLE S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16602		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 19-OCT-2007 07:51:15
Decay time	: 38 22:51:15.71	% dead time	: 0.3%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:09.63

---- 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: 10/22/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
7	58.03	2749	8601	1.85	115.79	112	12	13.2	4.15E+00	
7	59.49	26260	4797	0.96	118.70	112	12	1.5		AM-241
0	88.04*	10976	5345	1.10	175.54	171	11	3.3		
0	122.10	1831	3406	1.01	243.35	239	9	12.4		
0	136.75	239	2513	1.06	272.53	269	7	70.9		
0	351.90*	212	1443	1.37	701.12	698	7	61.3		
0	661.78	26830	1517	1.49	1318.89	1311	16	1.4		CS-137
0	1172.82	21098	825	1.87	2339.00	2331	17	1.5		CO-60
0	1331.78	19102	223	2.02	2656.63	2646	22	1.5		CO-60

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
7	58.03	2749	8601	1.85	115.79	112	12	7.64E-01	13.2	1.04E+00	
0	88.04	10976	5345	1.10	175.54	171	11	3.05E+00	3.3	2.54E+00	T
0	122.10	1831	3406	1.01	243.35	239	9	5.08E-01	12.4	3.30E+00	
0	136.75	239	2513	1.06	272.53	269	7	6.63E-02	70.9	3.38E+00	
0	351.90	212	1443	1.37	701.12	698	7	5.88E-02	61.3	2.08E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.172E+01	1.817E+00	8.966E-02	5.216E-03	353.778
CS-137	3.048E+01	3.493E+00	1.649E-01	1.875E-02	184.861
AM-241	7.606E+01	5.125E+00	9.812E-01	6.436E-02	77.511

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	5.600E-01		4.114E-01	8.012E-01	5.158E-02	0.699
RH-101	3.193E-02		7.695E-02	1.236E-01	1.930E-02	0.258
SB-125	6.720E-02		2.709E-01	4.486E-01	3.678E-02	0.150
EU-155	-8.514E-04		2.518E-01	4.153E-01	3.889E-02	-0.002
TL-208	1.004E-01		9.190E-02	1.600E-01	1.666E-02	0.628
PO-209	5.035E+00		2.584E+01	4.305E+01	8.255E+00	0.117
BI-211	1.696E+00		3.179E+00	5.372E+00	5.259E-01	0.316
BI-212	9.935E-02		7.260E-01	1.232E+00	1.347E-01	0.081
PB-212	1.687E-01		1.345E-01	2.317E-01	1.770E-02	0.728
BI-214	2.609E-01		1.787E-01	3.109E-01	3.310E-02	0.839
PB-214	3.181E-01	+	1.965E-01	3.061E-01	2.347E-02	1.039
RA-223	1.499E-01		4.122E-01	7.015E-01	6.241E-02	0.214
AC-228	7.648E-01		4.932E-01	8.357E-01	7.262E-02	0.915
PA-233	1.615E-01		1.563E-01	2.663E-01	2.145E-02	0.607
PA-234M	4.184E+00		1.441E+01	2.393E+01	1.868E+00	0.175
TH-234	-7.935E-01		1.211E+00	1.778E+00	1.778E-01	-0.446
U-235	-3.393E-01		4.497E-01	7.215E-01	5.266E-02	-0.470
NP-236	8.852E-02		1.459E-01	2.431E-01	2.417E-02	0.364
NP-237	1.915E+01		2.575E+00	1.673E+00	2.103E-01	11.444
NP-239	1.527E-01		5.187E-01	8.877E-01	1.198E-01	0.172
AM-243	-8.136E-02		1.420E-01	2.338E-01	4.660E-02	-0.348
CM-243	-1.126E-02		2.324E-01	3.833E-01	4.144E-02	-0.029
AM-246	-1.989E-01		4.482E-01	7.263E-01	9.290E-02	-0.274
CF-249	2.700E-02		1.079E-01	1.798E-01	1.723E-02	0.150

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 13:35:31

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7855LD1_GAMMA1_400MLSA_16606.CNF

---- Sample Information ----

Sample ID	: SCAQC-7855-LD1
Sample Title	: DUP 7855-01
Sample Quantity	: 5.00200E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16606

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 10:35:12
Decay time	: 52 10:35:12.94	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.54

---- 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.96	373	519	1.12	149.34	142	18	23.2	2.31E+00	AM-243
										PB-214
										PB-212
2	77.28*	564	521	1.13	153.97	142	18	16.3		PB-214
										PB-212
0	87.25	226	587	1.49	173.93	171	7	37.9		NP-237
										PB-214
										PB-212
0	93.05*	283	918	1.15	185.55	182	11	44.1		
0	105.21	103	467	1.20	209.90	207	7	72.7		EU-155
0	186.18*	411	851	1.18	372.04	365	14	32.3		
0	209.48	142	446	0.99	418.70	415	8	54.1		AC-228
1	238.63*	1689	311	1.13	477.06	470	19	6.0	2.72E+00	PB-212
1	241.15	216	299	1.20	482.11	470	19	34.0		
1	242.14	236	298	1.21	484.09	470	19	30.2		PB-214
0	269.95	201	336	1.07	539.78	536	10	36.6		RA-223
										AC-228
0	295.22	661	328	1.21	590.37	586	11	13.2		PB-214
0	300.11	132	235	1.04	600.17	596	8	43.6		PB-212
0	327.90	96	337	1.09	655.81	651	10	74.1		
0	338.19*	321	251	1.21	676.41	672	9	21.2		AC-228
0	351.85*	1049	324	1.27	703.77	698	11	9.1		PB-214
0	462.80	137	260	1.35	925.91	919	14	52.5		AC-228
0	510.78*	233	235	2.05	1021.98	1016	15	34.5		TL-208
0	582.93*	582	171	1.55	1166.43	1159	14	12.8		TL-208
0	609.09*	920	150	1.41	1218.81	1211	15	8.9		BI-214
0	661.45	553	120	1.62	1323.64	1317	12	11.6		CS-137
0	727.25	166	94	1.47	1455.37	1448	14	29.3		BI-212
0	767.96	82	75	0.81	1536.87	1532	9	44.2		BI-214
0	794.65	85	60	1.53	1590.31	1586	10	40.4		AC-228
0	860.07	103	72	1.51	1721.26	1712	18	43.4		TL-208
0	910.89*	421	80	1.85	1823.01	1817	16	13.6		AC-228
0	934.00	51	67	2.43	1869.26	1862	14	74.1		BI-214
1	964.31	61	67	1.87	1929.94	1921	27	52.2	1.24E+00	AC-228
1	968.50*	214	42	1.87	1938.34	1921	27	19.3		AC-228
0	999.98*	51	48	6.66	2001.36	1992	19	71.6		PA-234M
0	1119.99	215	27	2.00	2241.59	2236	13	16.8		BI-214
0	1238.66	73	82	1.71	2479.14	2469	18	61.3		BI-214
0	1376.80	59	44	1.54	2755.64	2748	16	56.8		BI-214
0	1408.22	37	44	1.61	2818.53	2810	18	89.8		BI-214
0	1460.13*	303	24	1.91	2922.44	2916	14	13.7		K-40
0	1588.61	55	43	1.74	3179.58	3171	19	63.2		AC-228
0	1763.72*	142	22	2.23	3530.05	3522	15	22.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	93.05	283	918	1.15	185.55	182	11	2.62E-02	44.1	2.43E+00	T
0	186.18	411	851	1.18	372.04	365	14	3.81E-02	32.3	3.03E+00	
1	241.15	216	299	1.20	482.11	470	19	2.00E-02	34.0	2.64E+00	
0	327.90	96	337	1.09	655.81	651	10	8.91E-03	74.1	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.007E+00	3.075E-01	1.917E-01	1.309E-02	10.466
CS-137	2.691E-01	4.259E-02	2.746E-02	2.950E-03	9.803
EU-155	8.900E-02	6.529E-02	8.718E-02	8.656E-03	1.021
TL-208	2.587E-01	4.199E-02	2.340E-02	2.349E-03	11.054
BI-212	6.214E-01	1.914E-01	1.716E-01	1.650E-02	3.622
PB-212	7.342E-01	7.199E-02	3.794E-02	2.928E-03	19.355
BI-214	7.752E-01	1.047E-01	4.337E-02	4.418E-03	17.875
PB-214	7.014E-01	8.460E-02	4.635E-02	3.657E-03	15.134
RA-223	3.008E-01	1.136E-01	1.188E-01	1.093E-02	2.533
AC-228	8.401E-01	1.236E-01	7.552E-02	4.173E-03	11.124
PA-234M	3.351E+00	2.407E+00	2.204E+00	1.267E-01	1.520
NP-237	4.152E-01	1.684E-01	2.142E-01	3.097E-02	1.939
AM-243	1.639E-01	5.133E-02	4.474E-02	9.386E-03	3.664

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.164E-03		1.312E-02	2.147E-02	1.401E-03	-0.101
RH-101	-1.658E-03		1.460E-02	2.409E-02	3.737E-03	-0.069
SB-125	-6.235E-03		3.991E-02	6.770E-02	5.552E-03	-0.092
PO-209	7.463E-01		2.345E+00	4.256E+00	7.616E-01	0.175
BI-211	-2.273E-01		3.736E-01	6.274E-01	4.571E-02	-0.362
PA-233	-1.978E-02		2.497E-02	4.181E-02	3.510E-03	-0.473
TH-234	1.082E+00	+	4.941E-01	5.311E-01	6.196E-02	2.038
U-235	1.278E-01		9.369E-02	1.614E-01	1.127E-02	0.792
NP-236	-4.745E-04		3.400E-02	5.173E-02	5.683E-03	-0.009
NP-239	7.202E-02		9.257E-02	1.553E-01	2.095E-02	0.464
AM-241	-5.318E-02		8.376E-02	1.424E-01	1.132E-02	-0.374
CM-243	2.470E-02		5.370E-02	8.299E-02	9.458E-03	0.298
AM-246	-1.684E-03		4.124E-02	7.213E-02	8.877E-03	-0.023
CF-249	4.918E-03		1.532E-02	2.682E-02	2.587E-03	0.183

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 16:45:18

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785501_GAMMA3_400MLSAN_16610.CNF

---- Sample Information ----

Sample ID	: OH207-7855-01		
Sample Title	: SB-CZ-SS-2093-ST		
Sample Quantity	: 5.00200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16610		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 13:44:57
Decay time	: 52 13:44:57.20	% 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: T M Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.14*	164	720	1.32	140.27	135	11	68.6		TH-234
3	74.93*	725	920	1.75	166.40	159	25	20.0	2.10E+00	AM-243
										PB-214
										PB-212
3	77.19*	934	676	1.32	171.41	159	25	12.8		PB-214
										PB-212
3	87.25	460	713	1.55	193.70	183	33	23.8	1.61E+00	NP-237
										PB-214
										PB-212
3	90.03	299	626	1.39	199.86	183	33	33.4		
3	92.87*	412	741	1.71	206.16	183	33	30.2		TH-234
0	129.50	146	694	2.54	287.37	282	11	71.8		AC-228
0	185.86*	368	496	1.30	412.28	408	10	26.0		
0	209.50	251	530	1.05	464.68	459	13	39.9		AC-228
2	238.74*	1756	388	1.52	529.50	521	23	6.5	1.49E+00	PB-212
2	241.81	410	476	1.84	536.29	521	23	27.5		PB-214
0	270.20	124	368	0.90	599.22	593	11	62.7		RA-223
										AC-228
4	295.34	644	198	1.54	654.95	645	33	11.3	2.21E+00	PB-214
4	300.49	201	284	2.32	666.36	645	33	40.3		PB-212
0	338.38*	286	305	1.31	750.34	746	11	26.6		AC-228
0	352.02*	1016	341	1.36	780.59	773	15	10.2		PB-214
0	462.98	115	181	1.93	1026.52	1021	13	51.5		AC-228
0	510.79*	200	208	2.31	1132.48	1122	19	40.5		TL-208
0	583.26*	496	178	1.44	1293.11	1286	16	15.1		TL-208
0	609.29*	746	105	1.62	1350.79	1344	14	9.5		BI-214
0	661.68	458	94	2.04	1466.90	1460	13	12.8		CS-137
0	727.33	124	81	2.51	1612.40	1606	13	34.9		BI-212
0	769.79	120	143	5.16	1706.51	1695	24	56.8		BI-214
0	786.16	51	65	1.40	1742.78	1739	13	70.9		BI-212
0	795.56	73	83	1.71	1763.63	1758	16	60.8		AC-228
0	860.57	75	70	1.41	1907.69	1902	14	52.7		TL-208
0	911.20*	359	42	2.08	2019.92	2013	14	13.3		AC-228
0	934.21	52	38	0.62	2070.91	2066	11	53.4		BI-214
0	969.05	181	79	1.44	2148.12	2143	11	24.2		AC-228
0	1120.40*	143	40	1.60	2483.54	2476	17	27.2		BI-214
0	1238.87	73	36	2.60	2746.07	2736	21	47.9		BI-214
0	1378.06	49	24	1.83	3054.52	3044	17	55.5		BI-214
0	1461.10*	198	40	1.90	3238.54	3230	16	21.0		K-40
0	1765.05*	137	0	2.26	3912.06	3903	21	17.8		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	90.03	299	626	1.39	199.86	183	33	2.77E-02	33.4	3.55E+00	
0	185.86	368	496	1.30	412.28	408	10	3.41E-02	26.0	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.663E+00	3.627E-01	2.840E-01	1.671E-02	5.855
CS-137	2.569E-01	3.774E-02	2.983E-02	2.147E-03	8.613
TL-208	2.510E-01	4.293E-02	2.824E-02	2.248E-03	8.888
BI-212	5.427E-01	1.935E-01	2.329E-01	1.690E-02	2.331
PB-212	8.445E-01	8.371E-02	4.595E-02	3.435E-03	18.379
BI-214	7.184E-01	8.730E-02	5.339E-02	4.068E-03	13.455
PB-214	7.550E-01	9.742E-02	5.571E-02	4.432E-03	13.554
RA-223	2.051E-01	1.299E-01	1.495E-01	1.323E-02	1.372
AC-228	8.668E-01	1.301E-01	1.022E-01	7.188E-03	8.478
TH-234	1.073E+00	3.376E-01	3.248E-01	2.908E-02	3.303
NP-237	5.229E-01	1.372E-01	1.411E-01	1.573E-02	3.705
AM-243	1.523E-01	4.230E-02	2.713E-02	5.217E-03	5.614

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.742E-03		1.585E-02	2.856E-02	1.738E-03	0.096
RH-101	-1.155E-02		1.741E-02	2.861E-02	4.416E-03	-0.404
SB-125	-1.499E-04		4.521E-02	7.862E-02	6.500E-03	-0.002
EU-155	1.071E-03		4.857E-02	8.368E-02	7.869E-03	0.013
PO-209	1.411E+00		3.191E+00	5.843E+00	1.077E+00	0.241
BI-211	-1.062E-01		4.867E-01	8.190E-01	5.898E-02	-0.130
PA-233	-3.226E-02		3.078E-02	4.901E-02	4.000E-03	-0.658
PA-234M	4.881E-01		1.857E+00	3.343E+00	2.283E-01	0.146
U-235	9.035E-02		1.063E-01	1.846E-01	1.370E-02	0.489
NP-236	4.220E-02		3.161E-02	4.701E-02	4.486E-03	0.898
NP-239	7.865E-02		1.104E-01	1.898E-01	2.539E-02	0.414
AM-241	4.234E-02		3.246E-02	4.950E-02	3.132E-03	0.855
CM-243	-2.419E-02		4.433E-02	7.517E-02	8.100E-03	-0.322
AM-246	-2.193E-02		5.108E-02	8.748E-02	1.104E-02	-0.251
CF-249	9.867E-03		1.919E-02	3.413E-02	3.399E-03	0.289

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 13:36:43

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785502_GAMMA3_400MLSAN_16607.CNF

---- Sample Information ----

Sample ID	: OH207-7855-02		
Sample Title	: SB-CZ-SS-2094-ST		
Sample Quantity	: 5.42200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16607		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 10:36:25
Decay time	: 52 10:36:25.55	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.05

---- 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 Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.28*	150	592	1.69	102.90	97	13	70.9		
0	63.35*	193	694	1.27	140.73	136	10	55.9		TH-234
3	74.88*	606	779	1.26	166.30	161	18	18.0	8.27E-01	AM-243
										PB-214
										PB-212
3	77.20*	965	730	1.28	171.43	161	18	12.3		PB-214
										PB-212
3	87.31	302	566	1.12	193.85	182	33	28.7	2.45E+00	NP-237
										PB-214
										PB-212
3	89.81	318	831	1.65	199.39	182	33	38.7		
3	92.85*	467	827	1.79	206.13	182	33	29.4		TH-234
0	98.97	106	661	1.20	219.69	216	10	92.5		NP-236
0	186.12*	307	680	1.66	412.86	407	12	36.9		
0	209.78	146	659	1.29	465.31	459	12	72.5		AC-228
3	238.71*	1982	418	1.51	529.44	521	22	6.0	6.98E-01	PB-212
3	241.70	498	481	2.04	536.05	521	22	26.8		PB-214
0	270.25	263	363	1.13	599.33	593	13	32.4		RA-223
										AC-228
0	295.30	557	382	1.41	654.85	648	14	17.1		PB-214
0	300.42	149	275	1.47	666.21	661	10	45.1		PB-212
0	328.08	110	232	2.02	727.52	723	10	55.1		
0	338.71*	401	392	1.39	751.07	744	16	24.4		AC-228
0	352.04*	964	463	1.55	780.63	772	19	12.5		PB-214
0	510.74*	247	265	2.25	1132.36	1122	22	38.0		TL-208
0	583.09*	655	167	1.47	1292.73	1284	18	12.2		TL-208
0	609.32*	782	162	1.68	1350.87	1342	19	10.7		BI-214
0	727.30	162	133	2.58	1612.33	1603	21	38.7		BI-212
0	768.41	71	76	1.64	1703.46	1699	10	51.8		BI-214
0	794.92	74	63	1.28	1762.21	1756	12	49.0		AC-228
0	860.89	96	91	2.09	1908.42	1899	19	51.8		TL-208
0	911.27*	423	95	1.72	2020.07	2011	18	14.7		AC-228
0	934.40	87	42	2.69	2071.34	2063	17	40.5		BI-214
0	969.11	211	64	1.72	2148.26	2143	14	21.4		AC-228
0	1120.79*	137	72	1.57	2484.40	2477	18	34.8		BI-214
0	1238.33	91	69	1.94	2744.88	2736	21	50.0		BI-214
0	1409.48	24	24	1.74	3124.15	3113	15	102.0		BI-214
0	1461.02*	380	36	1.76	3238.36	3228	21	13.3		K-40
0	1730.04	31	14	1.90	3834.47	3828	11	58.2		BI-214
1	1764.36*	88	21	2.59	3910.52	3902	18	33.6	1.05E+00	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	46.28	150	592	1.69	102.90	97	13	1.39E-02	70.9	2.75E+00	
3	89.81	318	831	1.65	199.39	182	33	2.94E-02	38.7	3.55E+00	
0	186.12	307	680	1.66	412.86	407	12	2.85E-02	36.9	2.81E+00	
0	328.08	110	232	2.02	727.52	723	10	1.02E-02	55.1	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.947E+00	4.297E-01	1.994E-01	1.173E-02	14.781
TL-208	3.055E-01	4.459E-02	2.519E-02	2.005E-03	12.131
BI-212	6.549E-01	2.576E-01	2.112E-01	1.533E-02	3.101
PB-212	8.792E-01	8.438E-02	4.276E-02	3.196E-03	20.564
BI-214	6.944E-01	9.105E-02	5.105E-02	3.890E-03	13.602
PB-214	6.604E-01	9.800E-02	5.172E-02	4.115E-03	12.768
RA-223	4.019E-01	1.349E-01	1.322E-01	1.170E-02	3.041
AC-228	9.428E-01	1.532E-01	1.025E-01	7.209E-03	9.195
TH-234	1.122E+00	3.446E-01	3.113E-01	2.787E-02	3.605
NP-236	3.642E-02	3.388E-02	3.743E-02	3.572E-03	0.973
NP-237	3.164E-01	9.753E-02	1.353E-01	1.508E-02	2.339
AM-243	1.173E-01	3.091E-02	2.644E-02	5.085E-03	4.437

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.726E-03		1.685E-02	2.289E-02	1.214E-03	-0.075
RH-101	-9.384E-03		1.648E-02	2.720E-02	4.198E-03	-0.345
SB-125	-4.850E-03		4.233E-02	7.320E-02	6.052E-03	-0.066
CS-137	1.035E-02		1.856E-02	3.266E-02	2.351E-03	0.317
EU-155	7.487E-02		4.916E-02	8.261E-02	7.768E-03	0.906
PO-209	-1.821E+00		3.159E+00	5.346E+00	9.850E-01	-0.341
BI-211	-1.657E-01		4.546E-01	7.560E-01	5.445E-02	-0.219
PA-233	8.868E-03		2.865E-02	4.867E-02	3.971E-03	0.182
PA-234M	2.816E+00		1.883E+00	3.630E+00	2.479E-01	0.776
U-235	3.643E-02		9.786E-02	1.683E-01	1.249E-02	0.216
NP-239	2.786E-02		1.049E-01	1.782E-01	2.384E-02	0.156
AM-241	2.516E-02		3.034E-02	4.544E-02	2.875E-03	0.554
CM-243	1.764E-02		4.748E-02	7.214E-02	7.773E-03	0.244
AM-246	5.114E-02		4.906E-02	9.441E-02	1.192E-02	0.542
CF-249	2.133E-02		1.768E-02	3.215E-02	3.202E-03	0.663

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:	9/10/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7854 7857			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7856-PB		9/10/2007 9:00:00 AM	
SCAQC	7856-LD1 OH207-7856-01	SB-CZ-SS-2073-SD	8/27/2007	
SCAQC	7856-LC1		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7856-01	SB-CZ-SS-2073-SD	8/27/2007	
OH207	7856-02	SB-CZ-SS-2074-SD	8/28/2007	
OH207	7856-03	SB-CZ-SS-2075-SD	8/27/2007	
OH207	7856-04	SB-CZ-SS-2076-SD	8/27/2007	
OH207	7856-05	SB-CZ-SS-2077-SD	8/27/2007	
OH207	7856-06	SB-CZ-SS-2078-SD	8/27/2007	
OH207	7856-07	SB-CZ-SS-2079-SD	8/27/2007	
OH207	7856-08	SB-CZ-SS-2080-SD	8/27/2007	
OH207	7856-09	SB-CZ-SS-2081-SD	8/27/2007	
OH207	7856-10	SB-CZ-SS-2082-SD	8/27/2007	
OH207	7856-11	SB-CZ-SS-2083-SD	8/27/2007	
OH207	7856-12	SB-CZ-SS-2084-SD	8/28/2007	
OH207	7856-13	SB-CZ-SS-2085-SD	8/28/2007	
OH207	7856-14	SB-CZ-SS-2086-SD	8/28/2007	
OH207	7856-15	SB-CZ-SS-2087-SD	8/28/2007	
OH207	7856-16	SB-CZ-SS-2088-SD	8/28/2007	
OH207	7856-17	SB-CZ-SS-2089-SD	8/28/2007	
OH207	7856-18	SB-CZ-SS-2090-SD	8/28/2007	
OH207	7856-19	SB-CZ-SS-2091-SD	8/28/2007	
OH207	7856-20	SB-CZ-SS-2092-SD	8/28/2007	

10/25/07
Radiochemistry Reviewer Date

10/25/2007
QA Reviewer 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
~~10-19-07 1326~~ 1514 10-19-07 G2 gf	180	SCAQC	10-19-07 ~~7855~~ 7856	PB1	–	9-10-07 0900	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 ☐
10-19-07 0913 G2	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 ☐
10-19-07 1314 G1 gf	180			LD1	–	8-27-07	DUP 7857-01	SOIL	470.5 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1647 G3	180	SH207	7856	01	–		SB-CZ-SS-2073-SD		470.5 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1632 G2				02	–	8-28-07	2074-SD		509.8 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1646 G1				03	–	8-27-07	2075-SD		490.9 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1943 G2 gf				04	–		2076-SD		542.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1948 G1 gf				05	–		2077-SD		413.4 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 1949 G3 gf				06	–		2078-SD		534.6 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 2322 G1 gf				07	–		2079-SD		405.7 g dry	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
10-19-07 2322 G2 af	180	OH207	7856	08	–	8-27-07	SB-CZ-SS-2080-SD	Soil	477.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-19-07 2323 G3 af				09	–		2081-SD		577.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 0428 G1 IK				10	–		2082-SD		619.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 0448 G2 IK				11	–	″	2083-SD		409.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 0450 G3 IK				12	–	8-28-07	2084-SD		471.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 0453 G1 IK				13	–		2085-SD		456.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 0458 G2 IK				14	–		2086-SD		508.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 0502 G3 IK				15	–		2087-SD		362.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 11:08 G1 IK				16	–		2088-SD		421.9 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 11:18 G2 IK				17	–		2089-SD		475.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

ammal = G1
ammal = 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
10-20-07 1110 G3	180	OH207	7856	18	—	8-28-07	SB-CZ-SS-2090-SD	Soil	410.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 1217 G1	180			19	—		2091-SD		506.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 1278 G2	180			20	—		2092-SD		677.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
1741 10-20-07 G3	180	SCAQC	7857	PB1	—	9-10-07 0900	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 ☐
10-20-07 1739 G1	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 ☐
10-20-07 1748 G2	180			LD1	—	8-28-07	DUP 7857-01	Soil	522.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2100 G1	180	OH207	7857	01	—		SB-CZ-SS-2093-SD		522.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2101 G2	180			02	—		SB-CZ-SS-2094-SD		542.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2102 G3	180	SCAQC	7858	PB1	—	9-10-07 0900	PREP BLK	Liquid	460 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-21-07 0011 G1	60	SCAQC	7858	LC1	—	9-10-07 0900	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 ☐

Gamma1 = G1
Gamma2 = G2

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SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 16:27:11

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7856PB1_GAMMA2_400MLSA_16608.CNF

---- Sample Information ----

Sample ID	: SCAQC-7856-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16608		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 19-OCT-2007 13:26:53
Decay time	: 39 04:26:53.26	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.55

---- 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.16*	37	113	0.75	126.02	123	7	111.6		
0	584.27*	34	40	0.78	1164.31	1159	13	88.6		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	63.16	37	113	0.75	126.02	123	7	3.45E-03	****	1.33E+00	T
0	584.27	34	40	0.78	1164.31	1159	13	3.12E-03	88.6	1.35E+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	-2.621E-02		1.183E-01	2.446E-01	1.574E-02	-0.107
CO-60	8.447E-03		8.289E-03	1.837E-02	1.015E-03	0.460
RH-101	-1.310E-03		1.068E-02	1.743E-02	2.722E-03	-0.075
SB-125	2.312E-03		2.732E-02	4.810E-02	3.943E-03	0.048
CS-137	5.599E-03		1.010E-02	1.950E-02	2.218E-03	0.287
EU-155	-2.311E-03		3.321E-02	5.654E-02	5.294E-03	-0.041
TL-208	1.848E-02	+	1.648E-02	2.135E-02	2.223E-03	0.866
PO-209	2.290E-02		1.743E+00	3.228E+00	6.188E-01	0.007
BI-211	-1.863E-01		2.593E-01	4.286E-01	4.196E-02	-0.435
BI-212	1.136E-05		7.198E-02	1.321E-01	1.445E-02	0.000
PB-212	-6.663E-03		1.790E-02	3.086E-02	2.358E-03	-0.216
BI-214	-1.437E-02		2.031E-02	3.567E-02	3.798E-03	-0.403
PB-214	-2.041E-02		2.234E-02	3.662E-02	2.808E-03	-0.557
RA-223	-2.127E-02		5.099E-02	8.565E-02	7.620E-03	-0.248
AC-228	1.834E-02		4.102E-02	8.012E-02	6.962E-03	0.229
PA-233	-4.115E-03		1.890E-02	3.275E-02	2.638E-03	-0.126
PA-234M	-4.849E-02		1.301E+00	2.370E+00	1.850E-01	-0.020
TH-234	3.104E-02		1.755E-01	3.309E-01	3.310E-02	0.094
U-235	5.068E-04		6.460E-02	1.060E-01	7.738E-03	0.005
NP-236	1.225E-02		1.886E-02	3.353E-02	3.334E-03	0.365
NP-237	-1.931E-02		7.441E-02	1.230E-01	1.546E-02	-0.157
NP-239	1.357E-02		6.290E-02	1.128E-01	1.522E-02	0.120
AM-241	9.063E-02		5.101E-02	9.081E-02	5.957E-03	0.998
AM-243	8.898E-03		1.578E-02	2.803E-02	5.588E-03	0.317
CM-243	6.903E-03		3.027E-02	5.248E-02	5.674E-03	0.132
AM-246	4.199E-03		3.387E-02	6.293E-02	8.048E-03	0.067
CF-249	-2.278E-03		1.171E-02	2.018E-02	1.933E-03	-0.113

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 24-OCT-2007 17:57:17

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7856LC1_GAMMA2_400MLSA_16604.CNF

---- Sample Information ----

Sample ID	: SCAQC-7856-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16604		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 19-OCT-2007 09:13:31
Decay time	: 39 00:13:31.78	% dead time	: 0.3%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:09.68

---- 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 Mead Date: 10/25/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	58.13	2227	10080	2.46	116.00	112	12	21.5	5.31E+00	
10	59.49	25453	4923	0.97	118.70	112	12	1.6		AM-241
0	88.01*	11268	5483	1.10	175.49	170	11	3.2		PB-214
0	122.08	2001	3824	1.10	243.33	239	10	12.4		
0	136.65	325	2515	1.63	272.34	269	7	52.5		
0	238.71*	218	2288	1.10	475.61	473	7	74.0		
0	294.94*	192	1889	0.86	587.63	585	8	79.7		PB-214
0	351.92*	215	1834	1.34	701.15	697	9	73.2		PB-214
0	609.00*	152	1033	0.96	1213.62	1209	10	80.8		
0	661.78	26870	1470	1.50	1318.90	1312	15	1.4		CS-137
0	1172.83	21024	769	1.89	2339.01	2329	18	1.5		CO-60
0	1331.80	19094	291	2.00	2656.67	2648	17	1.5		CO-60
0	1460.15*	73	59	2.17	2913.26	2905	20	50.5		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	58.13	2227	10080	2.46	116.00	112	12	6.19E-01	21.5	1.05E+00	
0	122.08	2001	3824	1.10	243.33	239	10	5.56E-01	12.4	3.30E+00	
0	136.65	325	2515	1.63	272.34	269	7	9.02E-02	52.5	3.38E+00	
0	238.71	218	2288	1.10	475.61	473	7	6.07E-02	74.0	2.80E+00	T
0	609.00	152	1033	0.96	1213.62	1209	10	4.22E-02	80.8	1.30E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	1.191E+00	6.068E-01	5.789E-01	3.727E-02	2.057
CO-60	3.161E+01	1.811E+00	1.049E-01	6.105E-03	301.228
CS-137	3.052E+01	3.497E+00	1.649E-01	1.876E-02	185.049
PB-214	3.231E-01	2.379E-01	2.892E-01	2.218E-02	1.117
AM-241	7.372E+01	4.976E+00	1.001E+00	6.567E-02	73.641

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
RH-101	1.879E-02		7.692E-02	1.234E-01	1.927E-02	0.152
SB-125	-4.492E-02		2.717E-01	4.468E-01	3.663E-02	-0.101
EU-155	-2.515E-01		2.515E-01	4.067E-01	3.808E-02	-0.618
TL-208	1.676E-01		9.420E-02	1.643E-01	1.711E-02	1.020
PO-209	9.752E+00		2.526E+01	4.220E+01	8.090E+00	0.231
BI-211	-4.130E+00		3.199E+00	5.156E+00	5.047E-01	-0.801
BI-212	5.891E-01		7.172E-01	1.232E+00	1.347E-01	0.478
PB-212	2.113E-01	+	1.571E-01	2.327E-01	1.778E-02	0.908
BI-214	2.971E-01	+	2.421E-01	3.101E-01	3.302E-02	0.958
RA-223	2.205E-01		4.172E-01	7.112E-01	6.328E-02	0.310
AC-228	4.054E-03		4.816E-01	7.995E-01	6.947E-02	0.005
PA-233	-4.266E-02		1.596E-01	2.669E-01	2.150E-02	-0.160
PA-234M	-1.171E+01		1.468E+01	2.374E+01	1.853E+00	-0.493
TH-234	2.353E-01		1.213E+00	1.814E+00	1.814E-01	0.130
U-235	-9.791E-02		4.428E-01	7.175E-01	5.237E-02	-0.136
NP-236	6.570E-02		1.463E-01	2.433E-01	2.419E-02	0.270
NP-237	1.932E+01		2.598E+00	1.684E+00	2.116E-01	11.475
NP-239	1.213E-01		5.163E-01	8.832E-01	1.192E-01	0.137
AM-243	-7.145E-02		1.414E-01	2.334E-01	4.652E-02	-0.306
CM-243	-5.578E-02		2.308E-01	3.794E-01	4.101E-02	-0.147
AM-246	-6.407E-02		4.543E-01	7.426E-01	9.498E-02	-0.086
CF-249	-5.871E-04		1.089E-01	1.807E-01	1.731E-02	-0.003

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 16:44:18

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7856LD1_GAMMA1_400MLSA_16609.CNF

---- Sample Information ----

Sample ID	: SCAQC-7856-LD1		
Sample Title	: DUP 7856-01		
Sample Quantity	: 4.70500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16609		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 13:44:00
Decay time	: 53 13:44:00.26	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.14

---- 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: 10/23/2007

Sample ID : SCAQC-7856-LD1 Acquisition date : 19-OCT-2007 13:44:00

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	74.92	305	493	1.23	149.26	144	13	26.9	1.33E+00	AM-243
										PB-214
										PB-212
4	77.21*	429	415	0.94	153.84	144	13	18.3		PB-214
										PB-212
0	86.60	226	723	0.99	172.64	167	10	46.4		NP-237
										PB-214
										PB-212
0	93.02*	145	578	1.53	185.50	182	8	62.4		
0	128.93	125	388	0.67	257.39	254	7	55.1		AC-228
0	144.06*	83	391	1.45	287.70	284	8	87.0		U-235
0	186.02*	175	430	1.15	371.72	368	9	47.3		
0	208.68	204	492	1.26	417.10	411	11	44.5		AC-228
4	238.67*	1585	297	1.09	477.15	472	18	6.2	4.73E+00	PB-212
4	241.38	293	344	1.71	482.57	472	18	36.8		PB-214
0	270.07	127	220	0.85	540.01	537	7	42.3		RA-223
										AC-228
3	295.18	346	214	1.47	590.29	584	27	18.4	9.47E-01	PB-214
3	300.04	122	215	1.63	600.03	584	27	49.1		PB-212
0	327.69	59	261	0.85	655.39	650	10	105.4		
0	338.44*	419	208	1.32	676.91	671	13	17.5		AC-228
0	351.86*	637	277	1.40	703.79	696	16	14.2		PB-214
0	410.04	49	167	1.33	820.27	813	11	107.5		AC-228
0	462.55	123	136	1.46	925.41	920	12	41.8		AC-228
0	510.70*	282	171	1.39	1021.81	1014	16	26.4		TL-208
0	582.90*	524	150	1.38	1166.37	1160	13	13.1		TL-208
0	609.25*	473	118	1.51	1219.13	1212	15	13.9		BI-214
0	726.85	158	51	1.75	1454.56	1449	12	24.1		BI-212
0	755.14	42	67	1.38	1511.21	1506	11	81.8		
0	794.47	88	57	1.44	1589.93	1584	12	40.5		AC-228
0	860.52	89	35	1.14	1722.17	1717	11	33.7		TL-208
0	910.88*	378	73	2.01	1822.99	1817	17	14.8		AC-228
1	964.41	83	32	1.87	1930.15	1923	37	34.9	1.11E+00	AC-228
1	968.50*	225	30	1.87	1938.34	1923	37	16.8		AC-228
0	1120.22	76	59	1.58	2242.05	2236	12	47.0		BI-214
0	1238.13	67	51	1.00	2478.07	2469	19	56.9		BI-214
0	1460.31*	396	48	2.08	2922.79	2915	19	13.5		K-40
1	1762.70*	27	4	2.08	3528.00	3522	15	73.9	7.03E-01	
1	1764.59*	32	7	1.85	3531.78	3522	15	61.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	93.02	145	578	1.53	185.50	182	8	1.34E-02	62.4	2.43E+00	T
0	186.02	175	430	1.15	371.72	368	9	1.62E-02	47.3	3.03E+00	
0	327.69	59	261	0.85	655.39	650	10	5.47E-03	****	2.11E+00	
0	755.14	42	67	1.38	1511.21	1506	11	3.91E-03	81.8	1.10E+00	
1	1762.70	27	4	2.08	3528.00	3522	15	2.49E-03	73.9	6.10E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.792E+00	4.214E-01	1.777E-01	1.213E-02	15.715
TL-208	2.475E-01	4.092E-02	2.201E-02	2.209E-03	11.244
BI-212	6.273E-01	1.629E-01	1.748E-01	1.681E-02	3.589
PB-212	7.325E-01	7.261E-02	3.445E-02	2.659E-03	21.261
BI-214	4.231E-01	7.276E-02	4.314E-02	4.394E-03	9.807
PB-214	4.528E-01	7.349E-02	4.299E-02	3.393E-03	10.532
RA-223	2.018E-01	8.740E-02	1.082E-01	9.961E-03	1.865
AC-228	8.019E-01	1.263E-01	7.830E-02	4.327E-03	10.242
U-235	1.263E-01	1.102E-01	1.354E-01	9.453E-03	0.933
NP-237	4.425E-01	2.152E-01	1.935E-01	2.798E-02	2.287
AM-243	1.425E-01	4.858E-02	4.458E-02	9.353E-03	3.196

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.073E-02		1.179E-02	1.955E-02	1.276E-03	0.549
RH-101	3.823E-03		1.357E-02	2.286E-02	3.545E-03	0.167
SB-125	-1.164E-02		3.565E-02	6.022E-02	4.938E-03	-0.193
CS-137	-2.298E-03		1.381E-02	2.436E-02	2.618E-03	-0.094
EU-155	5.186E-02		4.969E-02	8.713E-02	8.650E-03	0.595
PO-209	1.104E+00		2.526E+00	4.615E+00	8.260E-01	0.239
BI-211	-5.517E-02		3.575E-01	6.257E-01	4.558E-02	-0.088
PA-233	7.729E-03		2.258E-02	4.013E-02	3.370E-03	0.193
PA-234M	1.114E+00		1.419E+00	2.680E+00	1.540E-01	0.416
TH-234	5.888E-01	+	3.735E-01	5.062E-01	5.906E-02	1.163
NP-236	7.529E-03		2.869E-02	4.937E-02	5.423E-03	0.153
NP-239	4.537E-02		8.941E-02	1.496E-01	2.018E-02	0.303
AM-241	1.445E-02		7.511E-02	1.322E-01	1.051E-02	0.109
CM-243	-1.764E-02		4.506E-02	7.552E-02	8.607E-03	-0.234
AM-246	2.264E-02		4.446E-02	8.159E-02	1.004E-02	0.277
CF-249	-1.273E-03		1.439E-02	2.482E-02	2.394E-03	-0.051

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 19:48:04

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785601_GAMMA3_400MLSAN_16613.CNF

---- Sample Information ----

Sample ID	: OH207-7856-01		
Sample Title	: SB-CZ-SS-2073-SD		
Sample Quantity	: 4.70500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16613		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 16:47:46
Decay time	: 53 16:47:46.43	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.89

---- 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.33*	163	639	1.22	140.69	135	11	65.8		TH-234
3	74.79*	648	764	1.75	166.09	159	18	20.2	2.30E+00	AM-243
										PB-214
										PB-212
3	77.15*	815	528	1.27	171.31	159	18	12.7		PB-214
										PB-212
0	87.32	193	581	1.61	193.85	191	7	43.8		NP-237
										PB-214
										PB-212
0	93.01*	329	713	1.47	206.48	202	11	35.9		TH-234
0	185.81*	210	593	1.47	412.18	406	13	51.3		
0	209.50	123	496	1.06	464.68	459	12	75.3		AC-228
4	238.72*	1422	342	1.33	529.46	524	18	7.3	2.14E+00	PB-212
4	241.42	357	389	2.24	535.44	524	18	33.0		PB-214
0	270.18	120	291	1.33	599.19	594	11	57.6		RA-223
										AC-228
0	295.23	319	293	1.45	654.70	646	15	25.9		PB-214
0	300.10	77	227	1.33	665.51	661	10	76.5		PB-212
0	327.55	151	328	2.10	726.35	717	18	58.4		
0	338.14*	312	272	1.68	749.80	743	15	25.7		AC-228
0	352.08*	494	289	1.48	780.70	773	16	17.9		PB-214
0	463.35	117	142	0.75	1027.33	1022	15	47.8		AC-228
0	510.83*	154	162	1.80	1132.56	1122	18	46.5		TL-208
0	583.10*	380	193	1.45	1292.74	1286	16	19.5		TL-208
0	609.35*	349	162	1.43	1350.93	1342	18	20.4		BI-214
0	727.74	99	90	1.81	1613.31	1607	14	45.9		BI-212
0	795.07	56	55	1.18	1762.54	1757	11	57.8		AC-228
0	911.25*	334	56	1.75	2020.02	2011	16	14.7		AC-228
3	964.88	78	36	2.68	2138.87	2132	23	41.1	6.75E+00	AC-228
3	968.96	196	40	2.15	2147.91	2132	23	19.6		AC-228
0	1121.10*	65	48	1.77	2485.08	2477	13	51.5		BI-214
0	1460.95*	388	10	1.63	3238.19	3229	19	11.2		K-40
0	1764.91*	71	4	2.39	3911.74	3903	16	28.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.81	210	593	1.47	412.18	406	13	1.95E-02	51.3	2.82E+00	
0	327.55	151	328	2.10	726.35	717	18	1.40E-02	58.4	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.474E+00	4.405E-01	2.009E-01	1.182E-02	17.290
TL-208	2.042E-01	4.304E-02	2.857E-02	2.274E-03	7.148
BI-212	4.620E-01	2.147E-01	2.253E-01	1.635E-02	2.051
PB-212	7.270E-01	7.599E-02	4.592E-02	3.433E-03	15.831
BI-214	3.573E-01	7.783E-02	5.372E-02	4.093E-03	6.650
PB-214	3.901E-01	7.653E-02	5.256E-02	4.182E-03	7.422
RA-223	2.123E-01	1.238E-01	1.357E-01	1.201E-02	1.565
AC-228	8.574E-01	1.395E-01	8.050E-02	5.660E-03	10.650
TH-234	9.121E-01	3.377E-01	3.699E-01	2.462E-02	2.466
NP-237	2.326E-01	1.051E-01	1.628E-01	1.815E-02	1.429
AM-243	1.445E-01	4.035E-02	2.696E-02	5.185E-03	5.361

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.516E-03		1.767E-02	2.856E-02	1.514E-03	0.053
RH-101	5.729E-03		1.603E-02	2.736E-02	4.222E-03	0.209
SB-125	1.542E-02		4.283E-02	7.617E-02	6.297E-03	0.202
CS-137	1.104E-02		1.787E-02	3.200E-02	2.304E-03	0.345
EU-155	6.866E-04		4.499E-02	7.776E-02	7.312E-03	0.009
PO-209	7.899E-01		2.894E+00	5.319E+00	9.800E-01	0.148
BI-211	-9.361E-02		4.686E-01	7.930E-01	5.711E-02	-0.118
PA-233	1.078E-02		2.769E-02	4.763E-02	3.887E-03	0.226
PA-234M	2.408E+00		1.890E+00	3.665E+00	2.503E-01	0.657
U-235	-2.214E-02		1.018E-01	1.729E-01	1.283E-02	-0.128
NP-236	5.703E-02		3.022E-02	4.601E-02	4.391E-03	1.239
NP-239	-7.192E-02		1.017E-01	1.668E-01	2.231E-02	-0.431
AM-241	2.774E-02		3.204E-02	4.831E-02	3.057E-03	0.574
CM-243	-4.411E-02		4.140E-02	6.887E-02	7.421E-03	-0.641
AM-246	2.827E-02		5.471E-02	1.020E-01	1.287E-02	0.277
CF-249	1.453E-03		1.796E-02	3.158E-02	3.145E-03	0.046

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 19:32:28

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785602_GAMMA2_400MLSAN_16611.CNF

---- Sample Information ----

Sample ID	: OH207-7856-02		
Sample Title	: SB-CZ-SS-2074-SD		
Sample Quantity	: 5.09800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16611		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 16:32:13
Decay time	: 52 16:32:13.39	% 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: T M Moal Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.72	357	482	1.08	149.03	144	15	22.2	2.16E+00	AM-243 PB-214 PB-212
1	77.12	519	536	1.09	153.80	144	15	17.3		PB-214 PB-212
4	87.12*	252	647	1.48	173.72	164	26	38.9	1.94E+00	NP-237 PB-214 PB-212
4	92.85*	291	614	1.49	185.12	164	26	34.3		
2	128.45	88	426	1.08	256.00	251	10	78.6	3.48E+00	
2	129.28	55	434	0.98	257.66	251	10	125.4		AC-228
0	186.10*	244	545	1.28	370.82	367	9	37.7		
0	209.77	150	442	0.85	417.96	414	9	53.1		AC-228
4	238.75*	1436	264	1.08	475.69	469	20	6.4	6.23E+00	PB-212
4	241.03	169	326	1.32	480.22	469	20	56.0		
4	242.05	210	321	1.31	482.26	469	20	36.3		PB-214
4	242.52	150	400	1.63	483.19	469	20	58.2		
0	270.27*	155	349	1.74	538.47	532	11	49.8		RA-223 AC-228
0	295.44*	513	228	1.30	588.61	585	8	13.7		PB-214
0	300.57	118	295	1.18	598.83	594	10	57.8		PB-212
0	338.56*	271	337	1.05	674.54	670	10	28.4		AC-228
0	352.17*	902	371	1.29	701.65	695	14	11.4		PB-214
0	462.63	73	201	1.15	921.79	917	13	82.8		AC-228
0	511.17*	158	199	1.67	1018.56	1012	14	45.3		TL-208
0	583.27*	466	172	1.50	1162.31	1154	16	15.8		TL-208
0	609.48*	663	88	1.61	1214.58	1209	11	9.7		BI-214
0	663.45	60	183	2.16	1322.22	1313	18	109.0		
0	727.57	95	76	1.66	1450.12	1445	10	40.4		BI-212
0	768.46	70	87	1.12	1531.70	1526	11	58.0		BI-214
0	793.48	127	166	10.34	1581.63	1562	34	65.8		AC-228
0	911.00*	325	90	1.52	1816.17	1809	13	16.1		AC-228
0	935.39	24	49	1.34	1864.85	1857	11	122.7		BI-214
4	964.49	75	41	2.57	1922.94	1917	25	40.1	8.03E-01	AC-228
4	968.80*	219	34	1.85	1931.55	1917	25	17.7		AC-228
0	1120.05*	163	80	1.75	2233.60	2225	19	30.9		BI-214
0	1238.99	51	107	2.27	2471.20	2461	22	109.8		BI-214
0	1377.56	29	47	1.82	2748.13	2742	13	106.1		BI-214
0	1459.91*	492	28	2.29	2912.78	2906	18	10.7		K-40
0	1728.22	29	3	1.52	3449.48	3443	11	43.5		BI-214
0	1762.56*	130	11	1.49	3518.20	3511	15	21.6		BI-214
0	1845.15	15	4	1.92	3683.53	3679	8	69.3		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	92.85	291	614	1.49	185.12	164	26	2.69E-02	34.3	2.71E+00	T
2	128.45	88	426	1.08	256.00	251	10	8.16E-03	78.6	3.35E+00	
0	186.10	244	545	1.28	370.82	367	9	2.26E-02	37.7	3.21E+00	
4	241.03	169	326	1.32	480.22	469	20	1.57E-02	56.0	2.78E+00	
4	242.52	150	400	1.63	483.19	469	20	1.39E-02	58.2	2.77E+00	
0	663.45	60	183	2.16	1322.22	1313	18	5.56E-03	****	1.21E+00	
0	1845.15	15	4	1.92	3683.53	3679	8	1.39E-03	69.3	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.357E+00	4.188E-01	1.918E-01	1.235E-02	17.499
TL-208	2.006E-01	3.790E-02	2.098E-02	2.184E-03	9.561
BI-212	3.484E-01	1.459E-01	1.576E-01	1.724E-02	2.210
PB-212	5.810E-01	5.802E-02	3.585E-02	2.739E-03	16.207
BI-214	5.428E-01	7.813E-02	3.830E-02	4.078E-03	14.174
PB-214	5.678E-01	7.779E-02	4.244E-02	3.255E-03	13.377
RA-223	2.160E-01	1.093E-01	1.067E-01	9.492E-03	2.024
AC-228	6.512E-01	1.192E-01	8.058E-02	7.002E-03	8.082
NP-237	4.030E-01	1.646E-01	1.655E-01	2.079E-02	2.436
AM-243	1.318E-01	3.936E-02	3.950E-02	7.873E-03	3.336

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.266E-03		1.270E-02	2.182E-02	1.270E-03	0.379
RH-101	-6.603E-03		1.365E-02	2.168E-02	3.384E-03	-0.305
SB-125	1.572E-02		3.639E-02	6.319E-02	5.181E-03	0.249
CS-137	2.516E-02		1.474E-02	2.791E-02	3.175E-03	0.901
EU-155	6.055E-02		4.667E-02	8.094E-02	7.578E-03	0.748
PO-209	-1.161E+00		2.265E+00	3.785E+00	7.257E-01	-0.307
BI-211	-5.541E-01		3.791E-01	5.804E-01	5.681E-02	-0.955
PA-233	-2.247E-02		2.290E-02	3.756E-02	3.025E-03	-0.598
PA-234M	2.061E-01		1.436E+00	2.561E+00	1.999E-01	0.080
TH-234	9.789E-01	+	3.499E-01	4.529E-01	4.530E-02	2.161
U-235	6.493E-02		8.561E-02	1.433E-01	1.046E-02	0.453
NP-236	2.816E-02		2.738E-02	4.726E-02	4.698E-03	0.596
NP-239	-4.334E-03		8.470E-02	1.469E-01	1.982E-02	-0.030
AM-241	6.914E-03		6.851E-02	1.178E-01	7.725E-03	0.059
CM-243	-4.583E-03		4.279E-02	7.144E-02	7.723E-03	-0.064
AM-246	7.470E-03		4.538E-02	7.994E-02	1.022E-02	0.093
CF-249	2.813E-03		1.427E-02	2.466E-02	2.363E-03	0.114

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 19:47:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785603_GAMMA1_400MLSAN_16612.CNF

---- Sample Information ----

Sample ID : OH207-7856-03
Sample Title : SB-CZ-SS-2075-SD
Sample Quantity : 4.90900E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16612

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

Collection Date : 27-AUG-2007 00:00:00 Acquisition date : 19-OCT-2007 16:46:44
Decay time : 53 16:46:44.30 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:02.33

---- 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	74.89	342	595	1.50	149.19	142	17	29.1	1.31E+00	AM-243
										PB-214
										PB-212
5	77.25*	527	460	1.13	153.92	142	17	16.4		PB-214
										PB-212
3	87.36	204	413	1.27	174.16	171	20	34.3	2.59E+00	NP-237
										PB-214
										PB-212
3	89.96	194	532	1.28	179.36	171	20	44.2		
3	92.76*	168	450	1.16	184.98	171	20	48.7		
0	129.05	150	491	0.94	257.63	254	8	53.8		AC-228
0	186.12*	278	805	1.43	371.92	365	15	46.8		
0	209.24	160	448	1.05	418.22	414	9	50.2		AC-228
1	238.66*	1755	266	1.14	477.12	472	18	5.7	1.83E+00	PB-212
1	241.08	218	233	1.14	481.96	472	18	31.1		
1	242.12	142	263	1.28	484.06	472	18	49.4		PB-214
0	269.96	180	394	1.25	539.79	534	13	47.8		RA-223
										AC-228
2	295.19	368	219	1.23	590.32	586	18	16.7	8.84E-01	PB-214
2	300.04	138	212	1.26	600.02	586	18	41.5		PB-212
0	328.00	71	332	1.37	656.01	649	13	108.6		
0	338.36*	379	295	1.16	676.74	672	12	20.9		AC-228
0	351.83*	667	215	1.32	703.72	699	10	11.4		PB-214
0	462.85	120	153	1.39	926.01	922	10	42.6		AC-228
0	510.90*	253	185	2.25	1022.21	1015	16	29.9		TL-208
0	583.02*	576	114	1.25	1166.61	1161	12	11.3		TL-208
0	609.19*	483	121	1.64	1219.01	1213	13	13.3		BI-214
0	661.48	170	80	1.66	1323.70	1318	11	25.6		CS-137
0	727.03	171	69	2.03	1454.93	1449	12	24.7		BI-212
0	794.34	100	72	1.64	1589.69	1581	16	42.8		AC-228
0	860.46	61	60	1.67	1722.05	1716	10	54.0		TL-208
0	910.82*	436	58	1.93	1822.87	1816	18	12.6		AC-228
1	964.19	85	35	1.87	1929.70	1923	24	34.5	2.13E+00	AC-228
1	968.50*	236	40	1.87	1938.34	1923	24	16.4		AC-228
0	1120.33	121	55	1.79	2242.26	2235	14	31.8		BI-214
0	1460.25*	535	36	1.97	2922.68	2915	14	10.0		K-40
0	1588.49	21	31	1.17	3179.34	3170	12	111.4		AC-228
0	1764.30*	110	14	2.98	3531.21	3521	24	28.2		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	89.96	194	532	1.28	179.36	171	20	1.80E-02	44.2	2.33E+00	
3	92.76	168	450	1.16	184.98	171	20	1.56E-02	48.7	2.42E+00	T
0	186.12	278	805	1.43	371.92	365	15	2.58E-02	46.8	3.03E+00	
1	241.08	218	233	1.14	481.96	472	18	2.02E-02	31.1	2.64E+00	
0	328.00	71	332	1.37	656.01	649	13	6.56E-03	****	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.618E+00	4.372E-01	1.756E-01	1.199E-02	20.601
CS-137	8.444E-02	2.347E-02	2.476E-02	2.660E-03	3.411
TL-208	2.610E-01	3.942E-02	2.158E-02	2.165E-03	12.097
BI-212	6.533E-01	1.729E-01	1.748E-01	1.682E-02	3.737
PB-212	7.772E-01	7.479E-02	3.627E-02	2.799E-03	21.428
BI-214	4.144E-01	6.952E-02	4.398E-02	4.480E-03	9.422
PB-214	4.544E-01	6.295E-02	4.561E-02	3.599E-03	9.963
RA-223	2.738E-01	1.333E-01	1.099E-01	1.011E-02	2.491
AC-228	8.858E-01	1.220E-01	6.827E-02	3.773E-03	12.974
NP-237	3.817E-01	1.422E-01	2.078E-01	3.005E-02	1.837
AM-243	1.532E-01	5.494E-02	4.268E-02	8.954E-03	3.589

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.779E-03		1.198E-02	2.008E-02	1.225E-03	-0.238
RH-101	1.867E-03		1.373E-02	2.295E-02	3.559E-03	0.081
SB-125	3.369E-03		3.516E-02	6.084E-02	4.989E-03	0.055
EU-155	5.556E-02		4.960E-02	8.690E-02	8.628E-03	0.639
PO-209	2.600E+00		2.516E+00	4.731E+00	8.467E-01	0.550
BI-211	-2.359E-02		3.526E-01	6.204E-01	4.520E-02	-0.038
PA-233	1.826E-03		2.314E-02	4.050E-02	3.401E-03	0.045
PA-234M	4.937E-01		1.437E+00	2.603E+00	1.496E-01	0.190
TH-234	6.562E-01	+	3.287E-01	5.036E-01	5.875E-02	1.303
U-235	-2.389E-02		8.831E-02	1.454E-01	1.015E-02	-0.164
NP-236	5.727E-03		3.013E-02	4.931E-02	5.417E-03	0.116
NP-239	-5.068E-02		9.036E-02	1.439E-01	1.941E-02	-0.352
AM-241	-1.427E-02		8.156E-02	1.411E-01	1.122E-02	-0.101
CM-243	5.313E-04		4.512E-02	7.673E-02	8.744E-03	0.007
AM-246	1.572E-03		4.458E-02	7.818E-02	9.623E-03	0.020
CF-249	3.148E-04		1.503E-02	2.598E-02	2.506E-03	0.012

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 22:44:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785604_GAMMA2_400MLSAN_16614.CNF

---- Sample Information ----

Sample ID	: OH207-7856-04		
Sample Title	: SB-CZ-SS-2076-SD		
Sample Quantity	: 5.42700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16614		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 19:43:55
Decay time	: 53 19:43:55.67	% 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	: 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.78	313	456	1.08	149.14	145	16	24.1	1.26E+00	AM-243
										PB-214
										PB-212
1	77.12	421	483	1.09	153.80	145	16	20.1		PB-214
										PB-212
0	87.12*	163	583	1.17	173.72	171	7	51.8		NP-237
										PB-214
										PB-212
0	185.73*	248	665	1.24	370.08	365	12	44.4		
0	209.53	108	488	1.12	417.48	413	10	79.7		AC-228
2	238.78*	1344	352	1.13	475.74	471	17	7.2	2.25E+00	PB-212
2	241.14	153	288	1.23	480.44	471	17	49.6		
2	242.19	179	240	1.09	482.54	471	17	34.7		PB-214
0	270.24*	107	341	1.06	538.42	534	10	67.6		RA-223
										AC-228
0	295.39*	481	291	1.10	588.52	583	11	16.7		PB-214
0	300.18	101	249	1.18	598.05	594	9	59.5		PB-212
0	328.51	86	199	1.95	654.51	650	9	63.2		
0	338.60*	284	300	1.21	674.62	669	12	27.3		AC-228
0	352.09*	733	260	1.30	701.50	696	12	11.7		PB-214
0	462.93	87	128	1.41	922.40	919	9	51.6		AC-228
0	500.29	29	66	1.33	996.86	994	7	98.8		
0	510.99*	217	196	2.00	1018.19	1010	17	35.3		TL-208
0	583.47*	450	127	1.46	1162.72	1156	15	14.7		TL-208
0	609.52*	597	139	1.50	1214.65	1207	16	12.2		BI-214
0	661.91	47	74	0.84	1319.14	1315	8	70.1		CS-137
0	727.16	103	104	1.30	1449.32	1443	14	46.1		BI-212
0	795.45	50	61	1.62	1585.56	1581	11	67.2		AC-228
0	911.18*	331	68	1.80	1816.52	1811	15	15.8		AC-228
0	936.00	47	83	2.36	1866.06	1857	23	104.7		
0	968.84*	174	69	1.83	1931.62	1927	12	24.8		AC-228
0	1119.59*	107	63	1.59	2232.67	2224	16	39.7		BI-214
0	1237.57	74	27	2.21	2468.37	2463	13	36.7		BI-214
0	1378.21	48	45	2.12	2749.44	2741	21	73.2		BI-214
0	1459.88*	354	28	2.48	2912.72	2906	14	12.7		K-40
0	1762.85*	121	8	1.19	3518.79	3511	16	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
0	185.73	248	665	1.24	370.08	365	12	2.29E-02	44.4	3.21E+00	
2	241.14	153	288	1.23	480.44	471	17	1.42E-02	49.6	2.78E+00	
0	328.51	86	199	1.95	654.51	650	9	7.94E-03	63.2	2.20E+00	
0	500.29	29	66	1.33	996.86	994	7	2.70E-03	98.8	1.53E+00	
0	936.00	47	83	2.36	1866.06	1857	23	4.31E-03	****	9.32E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.272E+00	3.242E-01	1.522E-01	9.797E-03	14.927
CS-137	2.091E-02	1.485E-02	2.213E-02	2.517E-03	0.945
TL-208	1.823E-01	3.279E-02	1.780E-02	1.853E-03	10.241
BI-212	3.566E-01	1.688E-01	1.463E-01	1.599E-02	2.438
PB-212	5.108E-01	5.351E-02	3.257E-02	2.489E-03	15.683
BI-214	4.589E-01	7.445E-02	3.492E-02	3.719E-03	13.140
PB-214	4.336E-01	6.050E-02	4.113E-02	3.154E-03	10.542
RA-223	1.405E-01	9.581E-02	9.470E-02	8.425E-03	1.484
AC-228	6.229E-01	1.123E-01	7.551E-02	6.561E-03	8.250
NP-237	2.450E-01	1.306E-01	1.619E-01	2.035E-02	1.513
AM-243	1.087E-01	3.398E-02	3.496E-02	6.968E-03	3.110

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.030E-02		1.028E-02	1.978E-02	1.151E-03	0.521
RH-101	-8.597E-03		1.221E-02	1.915E-02	2.990E-03	-0.449
SB-125	3.506E-03		3.138E-02	5.386E-02	4.416E-03	0.065
EU-155	7.024E-02		4.437E-02	7.731E-02	7.239E-03	0.909
PO-209	2.054E+00		2.287E+00	4.257E+00	8.162E-01	0.482
BI-211	1.985E-01		3.171E-01	5.848E-01	5.725E-02	0.339
PA-233	9.994E-03		2.024E-02	3.576E-02	2.880E-03	0.279
PA-234M	1.149E+00		1.401E+00	2.623E+00	2.047E-01	0.438
TH-234	3.768E-01		2.333E-01	4.146E-01	4.147E-02	0.909
U-235	3.682E-02		7.816E-02	1.299E-01	9.478E-03	0.284
NP-236	1.961E-02		2.511E-02	4.315E-02	4.289E-03	0.454
NP-239	-3.266E-02		7.537E-02	1.289E-01	1.740E-02	-0.253
AM-241	-4.018E-02		5.984E-02	1.002E-01	6.573E-03	-0.401
CM-243	6.630E-03		3.934E-02	6.633E-02	7.171E-03	0.100
AM-246	-2.711E-02		3.992E-02	6.450E-02	8.250E-03	-0.420
CF-249	3.220E-03		1.372E-02	2.373E-02	2.273E-03	0.136

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 22:48:45

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785605_GAMMA1_400MLSAN_16615.CNF

---- Sample Information ----

Sample ID	: OH207-7856-05		
Sample Title	: SB-CZ-SS-2077-SD		
Sample Quantity	: 4.13400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16615		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 19:48:29
Decay time	: 53 19:48:29.55	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.21

---- 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

MDA = 0.58

Reviewer's Signature: Terrence M Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.92	387	420	1.08	149.26	143	16	19.5	1.16E+00	AM-243
										PB-214
										PB-212
2	77.20*	593	375	1.08	153.82	143	16	13.6		PB-214
										PB-212
0	87.34	323	439	1.41	174.13	171	7	24.2		NP-237
										PB-214
										PB-212
6	90.13	147	183	0.85	179.71	178	14	28.5	1.48E+00	
6	93.03*	310	562	1.65	185.51	178	14	32.3		
0	186.15*	233	626	1.28	371.98	367	12	45.9		
0	209.12	212	378	1.09	417.98	414	9	36.0		AC-228
1	238.63*	1606	261	1.10	477.05	472	17	6.1	9.37E-01	PB-212
1	241.04	175	229	1.16	481.89	472	17	43.6		
1	242.08	154	254	1.28	483.98	472	17	44.4		PB-214
0	270.20	150	292	1.34	540.28	535	10	45.6		RA-223
										AC-228
0	277.55	132	172	0.99	554.99	552	8	38.1		TL-208
0	295.11	376	310	1.41	590.15	583	12	21.4		PB-214
0	300.27	71	232	1.75	600.49	597	9	81.4		PB-212
2	327.43	69	136	1.52	654.87	651	11	63.0	2.85E+00	
2	328.49	59	153	1.26	657.00	651	11	82.4		
0	338.24*	362	203	1.20	676.52	672	10	18.3		AC-228
0	351.77*	684	277	1.33	703.60	697	15	13.2		PB-214
0	409.59	38	141	1.32	819.38	815	7	108.8		AC-228
0	462.97	155	125	1.68	926.26	921	12	33.1		AC-228
0	510.65*	160	189	1.80	1021.72	1015	13	43.3		TL-208
0	583.06*	557	169	1.47	1166.69	1159	16	13.5		TL-208
0	609.20*	506	151	1.48	1219.02	1213	14	14.0		BI-214
0	661.25	170	124	1.58	1323.22	1317	11	29.6		CS-137
0	727.22	133	88	1.67	1455.31	1449	15	35.0		BI-212
0	768.06	54	66	1.61	1537.07	1531	11	63.8		BI-214
0	772.18	31	40	1.47	1545.32	1542	8	79.3		
0	794.45	85	45	1.89	1589.90	1583	13	39.4		AC-228
0	861.46	49	94	1.58	1724.04	1715	15	91.2		TL-208
0	910.94*	445	56	1.55	1823.11	1817	15	12.3		AC-228
1	964.37	70	54	1.87	1930.06	1922	23	47.5	2.54E+00	AC-228
1	968.66*	252	51	1.87	1938.66	1922	23	17.0		AC-228
0	1120.29	127	61	1.52	2242.20	2234	17	34.4		BI-214
0	1377.41	47	4	1.83	2756.86	2753	9	33.1		BI-214
0	1460.10*	294	17	2.26	2922.36	2914	17	13.6		K-40
0	1589.36	60	19	0.67	3181.07	3170	21	46.2		AC-228
0	1763.64*	109	8	1.62	3529.89	3521	16	23.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	90.13	147	183	0.85	179.71	178	14	1.36E-02	28.5	2.33E+00	
6	93.03	310	562	1.65	185.51	178	14	2.87E-02	32.3	2.43E+00	T
0	186.15	233	626	1.28	371.98	367	12	2.16E-02	45.9	3.03E+00	
1	241.04	175	229	1.16	481.89	472	17	1.62E-02	43.6	2.64E+00	
2	327.43	69	136	1.52	654.87	651	11	6.40E-03	63.0	2.11E+00	
2	328.49	59	153	1.26	657.00	651	11	5.42E-03	82.4	2.10E+00	
0	772.18	31	40	1.47	1545.32	1542	8	2.87E-03	79.3	1.09E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.357E+00	3.595E-01	2.334E-01	1.593E-02	10.101
CS-137	1.001E-01	3.153E-02	2.919E-02	3.137E-03	3.430
TL-208	2.995E-01	5.049E-02	2.577E-02	2.586E-03	11.623
BI-212	6.040E-01	2.190E-01	1.874E-01	1.803E-02	3.222
PB-212	8.449E-01	8.304E-02	4.092E-02	3.158E-03	20.645
BI-214	5.158E-01	8.921E-02	5.347E-02	5.447E-03	9.647
PB-214	5.533E-01	8.489E-02	4.483E-02	3.538E-03	12.341
RA-223	2.714E-01	1.263E-01	1.303E-01	1.199E-02	2.083
AC-228	1.074E+00	1.445E-01	8.519E-02	4.708E-03	12.603
NP-237	7.186E-01	2.027E-01	2.429E-01	3.513E-02	2.958
AM-243	2.056E-01	5.889E-02	5.143E-02	1.079E-02	3.998

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.995E-04		1.245E-02	2.218E-02	1.353E-03	0.027
RH-101	1.832E-03		1.589E-02	2.658E-02	4.123E-03	0.069
SB-125	1.556E-02		3.877E-02	6.855E-02	5.622E-03	0.227
EU-155	2.989E-02		5.609E-02	9.706E-02	9.636E-03	0.308
PO-209	8.005E-01		2.875E+00	5.196E+00	9.300E-01	0.154
BI-211	2.688E-01		4.211E-01	7.794E-01	5.679E-02	0.345
PA-233	-1.359E-03		2.668E-02	4.646E-02	3.902E-03	-0.029
PA-234M	1.159E+00		1.636E+00	3.066E+00	1.763E-01	0.378
TH-234	1.432E+00	+	4.919E-01	5.830E-01	6.802E-02	2.457
U-235	6.126E-02		9.832E-02	1.672E-01	1.167E-02	0.366
NP-236	2.612E-02		3.541E-02	5.589E-02	6.140E-03	0.467
NP-239	-3.474E-02		1.029E-01	1.659E-01	2.238E-02	-0.209
AM-241	-3.662E-02		9.335E-02	1.603E-01	1.274E-02	-0.228
CM-243	2.155E-02		4.958E-02	8.571E-02	9.768E-03	0.251
AM-246	3.206E-02		4.682E-02	8.805E-02	1.084E-02	0.364
CF-249	-1.307E-03		1.633E-02	2.818E-02	2.718E-03	-0.046

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 19-OCT-2007 22:49:35

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785606_GAMMA3_400MLSAN_16616.CNF

---- Sample Information ----

Sample ID	: OH207-7856-06		
Sample Title	: SB-CZ-SS-2078-SD		
Sample Quantity	: 5.34600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16616		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 19:49:18
Decay time	: 53 19:49:18.12	% 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.41*	116	582	1.59	140.87	136	11	88.1		
4	74.96*	376	564	1.22	166.48	162	15	24.5	2.12E+00	AM-243
										PB-214
										PB-212
4	77.16*	744	660	1.50	171.33	162	15	15.7		PB-214
										PB-212
0	87.60	127	904	1.06	194.48	187	11	94.0		NP-237
										PB-214
										PB-212
2	89.88	137	383	1.08	199.53	197	14	44.9	2.14E+00	
0	186.01*	252	569	1.71	412.62	407	12	41.4		
2	238.75*	1078	378	1.48	529.52	524	22	9.3	8.47E-01	PB-212
2	241.81	314	358	1.61	536.30	524	22	28.8		PB-214
0	270.42	101	267	1.81	599.71	594	11	65.7		RA-223
										AC-228
0	295.30	538	257	1.59	654.86	649	12	14.7		PB-214
0	300.00	59	234	1.19	665.28	662	10	99.5		PB-212
0	338.39*	222	177	0.99	750.36	746	10	26.3		AC-228
0	351.91*	858	326	1.55	780.34	772	18	12.0		PB-214
0	462.15	63	174	1.12	1024.68	1020	15	95.0		AC-228
0	510.76*	86	188	2.19	1132.42	1122	18	85.8		TL-208
0	583.39*	368	118	1.45	1293.40	1287	15	17.0		TL-208
0	609.44*	621	101	1.54	1351.12	1344	14	10.7		BI-214
0	662.10	81	105	1.67	1467.85	1461	14	58.1		CS-137
0	727.25	95	48	1.60	1612.23	1606	12	35.7		BI-212
0	860.62	101	28	1.58	1907.81	1901	14	29.9		TL-208
0	911.18*	276	39	2.07	2019.87	2013	14	15.7		AC-228
0	969.06	117	61	2.33	2148.14	2143	15	34.8		AC-228
0	1120.04*	162	52	1.78	2482.73	2473	19	26.9		BI-214
0	1238.44	76	28	1.92	2745.12	2736	16	38.7		BI-214
0	1377.47	45	23	1.41	3053.22	3045	16	57.5		BI-214
0	1460.91*	249	4	1.85	3238.11	3230	19	14.1		K-40
0	1661.23	21	6	1.79	3682.01	3676	12	63.7		
0	1764.62*	98	15	2.48	3911.11	3903	15	27.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	63.41	116	582	1.59	140.87	136	11	1.07E-02	88.1	3.33E+00	T
2	89.88	137	383	1.08	199.53	197	14	1.26E-02	44.9	3.55E+00	
0	186.01	252	569	1.71	412.62	407	12	2.33E-02	41.4	2.81E+00	
0	1661.23	21	6	1.79	3682.01	3676	12	1.95E-03	63.7	5.10E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.959E+00	2.996E-01	1.942E-01	1.142E-02	10.091
CS-137	4.256E-02	2.491E-02	2.589E-02	1.864E-03	1.644
TL-208	1.743E-01	3.276E-02	2.432E-02	1.936E-03	7.167
BI-212	3.888E-01	1.415E-01	1.818E-01	1.319E-02	2.139
PB-212	4.849E-01	5.786E-02	4.047E-02	3.025E-03	11.981
BI-214	5.590E-01	7.351E-02	4.588E-02	3.496E-03	12.183
PB-214	5.966E-01	8.609E-02	4.689E-02	3.731E-03	12.722
RA-223	1.573E-01	1.042E-01	1.288E-01	1.140E-02	1.221
AC-228	6.241E-01	1.072E-01	9.088E-02	6.389E-03	6.868
NP-237	1.346E-01	1.274E-01	1.295E-01	1.444E-02	1.039
AM-243	7.383E-02	2.298E-02	2.269E-02	4.363E-03	3.254

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.940E-03		1.552E-02	2.322E-02	1.231E-03	-0.213
RH-101	7.782E-04		1.436E-02	2.430E-02	3.751E-03	0.032
SB-125	-6.394E-03		3.743E-02	6.485E-02	5.361E-03	-0.099
EU-155	2.498E-03		4.030E-02	6.972E-02	6.556E-03	0.036
PO-209	2.587E+00		2.820E+00	5.316E+00	9.795E-01	0.487
BI-211	-6.513E-02		4.195E-01	7.120E-01	5.128E-02	-0.091
PA-233	1.125E-02		2.519E-02	4.337E-02	3.540E-03	0.259
PA-234M	1.252E+00		1.658E+00	3.107E+00	2.122E-01	0.403
TH-234	3.463E-01		2.338E-01	3.766E-01	3.371E-02	0.920
U-235	4.653E-02		8.578E-02	1.489E-01	1.105E-02	0.313
NP-236	-1.362E-02		2.392E-02	3.688E-02	3.520E-03	-0.369
NP-239	-2.444E-02		9.136E-02	1.530E-01	2.047E-02	-0.160
AM-241	9.443E-03		2.691E-02	3.978E-02	2.517E-03	0.237
CM-243	2.075E-02		3.599E-02	6.309E-02	6.798E-03	0.329
AM-246	-1.278E-02		4.944E-02	8.603E-02	1.086E-02	-0.148
CF-249	9.075E-03		1.672E-02	2.989E-02	2.977E-03	0.304

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 02:22:21

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785607_GAMMA1_400MLSAN_16617.CNF

---- Sample Information ----

Sample ID	: OH207-7856-07		
Sample Title	: SB-CZ-SS-2079-SD		
Sample Quantity	: 4.05700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16617		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 23:22:00
Decay time	: 53 23:22:00.33	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.99

---- 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.27*	70	371	1.82	125.92	122	8	100.3		TH-234
2	74.94	261	462	1.12	149.29	144	15	30.3	1.22E+00	AM-243
										PB-214
										PB-212
2	77.18*	387	399	0.96	153.78	144	15	19.6		PB-214
										PB-212
0	87.23	177	294	1.33	173.90	172	5	32.6		NP-237
										PB-214
										PB-212
0	93.21*	190	526	1.45	185.88	182	9	48.1		TH-234
0	129.03	110	491	1.13	257.60	252	10	78.0		AC-228
0	143.55*	51	280	0.89	286.68	284	6	110.4		U-235
0	185.62*	182	484	1.07	370.92	365	11	50.4		
0	208.96	185	342	1.55	417.65	413	10	40.2		AC-228
0	238.66*	1222	419	1.20	477.13	472	9	8.4		PB-212
0	241.71	177	268	1.59	483.23	481	7	35.0		PB-214
0	270.21	124	277	1.33	540.29	535	12	56.3		RA-223
										AC-228
0	277.87	38	155	1.25	555.64	551	7	114.9		TL-208
0	295.29	314	186	1.24	590.51	586	10	19.9		PB-214
0	300.09	110	245	1.12	600.13	596	12	59.7		PB-212
0	327.74	72	225	0.75	655.49	650	10	81.7		
0	338.12*	318	217	1.53	676.28	669	12	21.8		AC-228
0	351.89*	522	215	1.28	703.85	698	13	14.7		PB-214
0	409.69	52	129	1.34	819.58	815	10	86.3		AC-228
0	462.91	136	87	1.13	926.13	921	11	31.7		AC-228
0	511.03*	208	134	2.15	1022.47	1014	17	33.0		TL-208
0	583.09*	413	116	1.43	1166.76	1161	11	14.3		TL-208
0	609.23*	414	85	1.52	1219.09	1213	15	14.0		BI-214
0	661.44	117	110	1.23	1323.62	1317	14	42.0		CS-137
0	727.22	106	65	1.93	1455.30	1450	11	35.6		BI-212
0	795.17	74	96	1.86	1591.35	1587	16	62.4		AC-228
0	835.21	38	41	1.52	1671.51	1667	9	69.4		
0	861.19	36	87	4.14	1723.52	1715	16	118.0		TL-208
0	910.95*	305	58	1.52	1823.13	1817	14	15.8		AC-228
1	964.31	45	60	1.87	1929.94	1924	21	67.2	8.59E-01	AC-228
1	968.68*	215	37	1.69	1938.69	1924	21	17.7		AC-228
0	1120.14	67	57	1.33	2241.89	2235	15	54.3		BI-214
0	1377.73	35	13	1.79	2757.51	2752	12	55.8		BI-214
0	1460.13*	417	31	2.19	2922.43	2915	16	11.7		K-40
2	1587.65	34	15	2.42	3177.65	3172	19	57.1	1.04E+00	AC-228
2	1591.52	25	12	2.21	3185.40	3172	19	69.1		
0	1764.03*	49	18	2.48	3530.67	3522	15	49.4		BI-214
0	1846.32	20	5	1.08	3695.36	3690	10	60.4		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.62	182	484	1.07	370.92	365	11	1.69E-02	50.4	3.03E+00	
0	327.74	72	225	0.75	655.49	650	10	6.65E-03	81.7	2.11E+00	
0	835.21	38	41	1.52	1671.51	1667	9	3.47E-03	69.4	1.03E+00	
2	1591.52	25	12	2.21	3185.40	3172	19	2.32E-03	69.1	6.63E-01	
0	1846.32	20	5	1.08	3695.36	3690	10	1.88E-03	60.4	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.413E+00	4.620E-01	2.022E-01	1.380E-02	16.883
CS-137	7.037E-02	3.049E-02	2.452E-02	2.635E-03	2.870
TL-208	2.262E-01	3.952E-02	2.611E-02	2.620E-03	8.664
BI-212	4.867E-01	1.794E-01	1.811E-01	1.742E-02	2.688
PB-212	6.552E-01	7.480E-02	5.944E-02	4.587E-03	11.022
BI-214	4.298E-01	7.440E-02	4.602E-02	4.687E-03	9.339
PB-214	4.304E-01	7.171E-02	4.774E-02	3.767E-03	9.014
RA-223	2.291E-01	1.308E-01	1.206E-01	1.110E-02	1.900
AC-228	7.508E-01	1.254E-01	8.432E-02	4.660E-03	8.905
TH-234	8.945E-01	4.431E-01	4.627E-01	5.398E-02	1.933
U-235	9.022E-02	9.976E-02	1.494E-01	1.043E-02	0.604
NP-237	4.016E-01	1.431E-01	2.308E-01	3.338E-02	1.740
AM-243	1.413E-01	5.209E-02	4.880E-02	1.024E-02	2.895

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.669E-03		1.431E-02	2.108E-02	1.376E-03	-0.364
RH-101	-9.525E-03		1.499E-02	2.427E-02	3.765E-03	-0.392
SB-125	3.235E-05		3.602E-02	6.251E-02	5.127E-03	0.001
EU-155	9.882E-02		5.462E-02	9.773E-02	9.703E-03	1.011
PO-209	6.521E-01		2.763E+00	5.004E+00	8.955E-01	0.130
BI-211	-2.781E-01		4.575E-01	6.511E-01	4.744E-02	-0.427
PA-233	-4.200E-04		2.481E-02	4.345E-02	3.648E-03	-0.010
PA-234M	2.096E-01		1.479E+00	2.673E+00	1.537E-01	0.078
NP-236	1.452E-02		3.288E-02	5.455E-02	5.993E-03	0.266
NP-239	1.880E-02		9.245E-02	1.537E-01	2.073E-02	0.122
AM-241	1.110E-01		9.011E-02	1.506E-01	1.197E-02	0.737
CM-243	-7.231E-02		4.999E-02	7.925E-02	9.031E-03	-0.912
AM-246	-2.567E-02		3.952E-02	6.474E-02	7.968E-03	-0.397
CF-249	5.786E-03		1.579E-02	2.803E-02	2.704E-03	0.206

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 02:23:22

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785608_GAMMA2_400MLSAN_16618.CNF

---- Sample Information ----

Sample ID	: OH207-7856-08		
Sample Title	: SB-CZ-SS-2080-SD		
Sample Quantity	: 4.77200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16618		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 23:22:55
Decay time	: 53 23:22:55.26	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.29

---- 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 Thurman Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.75	357	491	1.00	149.09	144	15	22.2	9.35E-01	AM-243
										PB-214
										PB-212
3	77.06	542	474	1.02	153.69	144	15	15.4		PB-214
										PB-212
0	87.00*	206	566	0.83	173.48	171	7	40.9		NP-237
										PB-214
										PB-212
0	93.43*	146	1011	1.50	186.28	180	11	88.6		
0	128.88	128	450	1.24	256.86	254	7	57.5		AC-228
0	185.83*	212	708	1.24	370.28	364	12	53.1		
1	208.90	103	288	1.30	416.24	413	10	57.5	2.48E+00	AC-228
1	209.67	79	396	1.30	417.76	413	10	91.7		
3	238.78*	1488	284	1.12	475.74	468	19	6.5	1.91E+00	PB-212
3	241.19	199	329	1.63	480.55	468	19	51.6		
3	242.20	207	257	1.40	482.56	468	19	35.2		PB-214
0	269.93*	100	405	1.14	537.79	534	11	81.4		RA-223
										AC-228
0	295.57*	360	371	1.31	588.89	583	11	23.5		PB-214
0	299.70	94	269	1.55	597.11	594	10	68.7		PB-212
0	328.55	151	308	1.35	654.58	648	13	50.6		
0	338.40*	341	260	1.31	674.21	670	10	20.9		AC-228
0	352.19*	683	243	1.21	701.70	697	11	11.9		PB-214
0	463.65	127	167	1.17	923.82	918	13	45.6		AC-228
0	511.20*	217	183	1.60	1018.61	1012	15	33.4		TL-208
0	583.45*	530	123	1.37	1162.67	1157	12	12.2		TL-208
0	609.52*	543	128	1.60	1214.66	1208	14	12.5		BI-214
0	727.68	82	101	1.59	1450.34	1445	11	52.4		BI-212
0	795.02	68	60	0.97	1584.69	1580	12	51.6		AC-228
0	840.29	41	45	1.44	1675.03	1671	9	67.5		
0	860.67*	73	43	1.37	1715.72	1710	10	41.8		TL-208
0	911.09*	373	80	1.57	1816.35	1809	16	15.1		AC-228
0	964.73	68	41	1.31	1923.42	1919	9	42.4		AC-228
0	968.88*	197	52	1.74	1931.71	1927	10	20.0		AC-228
0	1120.09*	137	50	1.44	2233.67	2227	15	29.0		BI-214
0	1237.63	55	58	1.81	2468.48	2461	13	63.4		BI-214
0	1407.25	39	7	1.15	2807.49	2800	14	43.1		BI-214
0	1459.85*	606	51	1.95	2912.66	2904	17	9.9		K-40
0	1672.84	16	2	1.26	3338.66	3334	9	60.7		
0	1762.70*	106	4	2.01	3518.48	3511	14	22.1		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	93.43	146	1011	1.50	186.28	180	11	1.35E-02	88.6	2.73E+00	T
0	185.83	212	708	1.24	370.28	364	12	1.96E-02	53.1	3.21E+00	
1	209.67	79	396	1.30	417.76	413	10	7.36E-03	91.7	3.03E+00	
3	241.19	199	329	1.63	480.55	468	19	1.84E-02	51.6	2.78E+00	
0	328.55	151	308	1.35	654.58	648	13	1.40E-02	50.6	2.20E+00	
0	840.29	41	45	1.44	1675.03	1671	9	3.76E-03	67.5	1.01E+00	
0	1672.84	16	2	1.26	3338.66	3334	9	1.47E-03	60.7	6.09E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.418E+00	5.224E-01	1.854E-01	1.193E-02	23.835
TL-208	2.438E-01	3.919E-02	2.280E-02	2.374E-03	10.692
BI-212	3.233E-01	1.731E-01	1.783E-01	1.950E-02	1.813
PB-212	6.432E-01	6.465E-02	3.610E-02	2.759E-03	17.815
BI-214	4.751E-01	7.820E-02	4.449E-02	4.737E-03	10.680
PB-214	4.592E-01	6.509E-02	4.557E-02	3.494E-03	10.077
RA-223	1.482E-01	1.213E-01	1.204E-01	1.071E-02	1.231
AC-228	7.969E-01	1.387E-01	8.263E-02	7.180E-03	9.644
NP-237	3.525E-01	1.510E-01	1.931E-01	2.427E-02	1.825
AM-243	1.411E-01	4.212E-02	4.187E-02	8.347E-03	3.370

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.877E-03		1.335E-02	1.995E-02	1.161E-03	0.395
RH-101	-5.528E-03		1.393E-02	2.223E-02	3.470E-03	-0.249
SB-125	6.395E-03		3.519E-02	6.067E-02	4.974E-03	0.105
CS-137	2.183E-02		1.610E-02	3.004E-02	3.417E-03	0.727
EU-155	5.119E-02		5.017E-02	8.644E-02	8.094E-03	0.592
PO-209	3.932E-01		2.473E+00	4.415E+00	8.464E-01	0.089
BI-211	-8.518E-02		3.736E-01	6.441E-01	6.305E-02	-0.132
PA-233	5.438E-04		2.438E-02	4.206E-02	3.388E-03	0.013
PA-234M	6.946E-01		1.618E+00	2.938E+00	2.293E-01	0.236
TH-234	5.240E-01	+	4.671E-01	4.964E-01	4.965E-02	1.056
U-235	9.030E-02		9.181E-02	1.546E-01	1.128E-02	0.584
NP-236	1.026E-02		3.007E-02	4.872E-02	4.844E-03	0.211
NP-239	-1.276E-03		8.754E-02	1.521E-01	2.053E-02	-0.008
AM-241	-1.549E-02		7.247E-02	1.233E-01	8.089E-03	-0.126
CM-243	-2.579E-02		4.558E-02	7.478E-02	8.084E-03	-0.345
AM-246	2.096E-02		4.284E-02	7.866E-02	1.006E-02	0.266
CF-249	1.166E-02		1.562E-02	2.763E-02	2.647E-03	0.422

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 02:24:03

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785609_GAMMA3_400MLSAN_16619.CNF

---- Sample Information ----

Sample ID	: OH207-7856-09		
Sample Title	: SB-CZ-SS-2081-SD		
Sample Quantity	: 5.77000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16619		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 19-OCT-2007 23:23:49
Decay time	: 53 23:23:49.13	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.01

---- 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 Mallard Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.53*	86	413	1.45	103.44	99	9	93.0		
0	63.05*	272	865	1.37	140.07	132	15	50.3		TH-234
1	74.88*	553	827	1.44	166.29	158	19	22.1	5.98E-01	AM-243
										PB-214
										PB-212
1	77.13*	776	671	1.28	171.29	158	19	14.3		PB-214
										PB-212
0	87.07	207	771	0.66	193.30	190	8	48.5		NP-237
										PB-214
										PB-212
0	93.09*	268	1054	1.57	206.65	201	12	52.9		TH-234
0	185.89*	367	701	1.65	412.35	406	14	33.1		
0	209.38	197	426	2.01	464.43	460	10	41.7		AC-228
3	238.70*	1647	327	1.56	529.41	521	22	6.6	2.87E+00	PB-212
3	241.67	483	411	2.04	535.99	521	22	25.4		PB-214
0	270.65	141	337	2.21	600.23	595	11	53.2		RA-223
										AC-228
0	295.44	551	432	1.61	655.16	645	17	19.2		PB-214
0	300.13	122	236	1.80	665.56	661	10	50.5		PB-212
0	328.02	67	290	0.97	727.38	721	12	105.0		
0	338.47*	330	243	1.38	750.55	744	12	22.0		AC-228
0	351.97*	916	282	1.43	780.47	773	14	10.3		PB-214
0	409.55	72	136	1.77	908.10	905	9	63.3		AC-228
0	463.20	122	161	2.21	1027.01	1020	14	47.8		AC-228
0	510.96*	167	193	1.59	1132.85	1125	17	45.2		TL-208
0	583.22*	539	113	1.67	1293.00	1286	15	12.3		TL-208
0	609.41*	705	181	1.49	1351.07	1343	17	11.7		BI-214
0	727.42	130	104	2.49	1612.61	1604	17	40.3		BI-212
0	768.52	86	102	2.03	1703.69	1698	14	54.2		BI-214
0	795.73	107	74	1.40	1764.00	1755	18	42.6		AC-228
0	860.94	83	85	1.93	1908.53	1900	20	59.0		TL-208
0	911.39*	360	50	1.62	2020.33	2012	15	13.7		AC-228
0	935.06	105	71	4.58	2072.79	2059	27	49.7		BI-214
3	965.06	58	102	2.68	2139.28	2131	24	76.1	2.94E+00	AC-228
3	969.25	213	61	1.96	2148.56	2131	24	20.9		AC-228
0	1120.59*	123	52	1.83	2483.94	2477	14	31.2		BI-214
0	1246.17	94	155	13.16	2762.25	2734	48	101.5		
0	1461.09*	365	12	1.90	3238.51	3228	23	11.9		K-40
0	1764.37*	150	5	1.89	3910.55	3900	18	18.2		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	46.53	86	413	1.45	103.44	99	9	8.00E-03	93.0	2.77E+00	
0	185.89	367	701	1.65	412.35	406	14	3.40E-02	33.1	2.82E+00	
0	328.02	67	290	0.97	727.38	721	12	6.21E-03	****	1.89E+00	
0	1246.17	94	155	13.16	2762.25	2734	48	8.69E-03	****	6.27E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.665E+00	3.547E-01	1.945E-01	1.144E-02	13.703
TL-208	2.362E-01	3.470E-02	2.311E-02	1.839E-03	10.224
BI-212	4.934E-01	2.018E-01	1.850E-01	1.343E-02	2.667
PB-212	6.865E-01	6.831E-02	3.909E-02	2.922E-03	17.562
BI-214	5.886E-01	8.200E-02	4.663E-02	3.553E-03	12.623
PB-214	5.897E-01	7.667E-02	4.963E-02	3.948E-03	11.881
RA-223	2.026E-01	1.093E-01	1.226E-01	1.085E-02	1.653
AC-228	7.538E-01	1.163E-01	8.276E-02	5.819E-03	9.108
TH-234	6.059E-01	3.252E-01	2.987E-01	2.674E-02	2.029
NP-237	2.042E-01	1.017E-01	1.384E-01	1.542E-02	1.476
AM-243	1.007E-01	2.951E-02	2.338E-02	4.495E-03	4.306

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.533E-03		1.339E-02	2.339E-02	1.424E-03	-0.108
RH-101	6.429E-03		1.454E-02	2.478E-02	3.824E-03	0.259
SB-125	1.269E-02		3.614E-02	6.412E-02	5.301E-03	0.198
CS-137	-1.217E-02		1.505E-02	2.451E-02	1.764E-03	-0.497
EU-155	1.546E-02		4.189E-02	7.277E-02	6.843E-03	0.212
PO-209	-5.640E-01		2.816E+00	4.933E+00	9.088E-01	-0.114
BI-211	-1.725E-01		4.163E-01	6.899E-01	4.969E-02	-0.250
PA-233	1.678E-02		2.667E-02	4.589E-02	3.745E-03	0.366
PA-234M	1.329E+00		1.688E+00	3.139E+00	2.144E-01	0.423
U-235	-2.698E-02		9.188E-02	1.554E-01	1.154E-02	-0.174
NP-236	2.910E-02		2.775E-02	4.091E-02	3.904E-03	0.711
NP-239	3.731E-02		9.768E-02	1.665E-01	2.228E-02	0.224
AM-241	2.055E-02		2.698E-02	4.043E-02	2.558E-03	0.508
CM-243	2.072E-02		3.803E-02	6.630E-02	7.144E-03	0.312
AM-246	-1.362E-02		4.930E-02	8.534E-02	1.077E-02	-0.160
CF-249	1.070E-02		1.569E-02	2.817E-02	2.806E-03	0.380

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 07:47:22

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785610_GAMMA1_400MLSAN_16622.CNF

---- Sample Information ----

Sample ID	: OH207-7856-10		
Sample Title	: SB-CZ-SS-2082-SD		
Sample Quantity	: 6.19200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16622		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 04:47:01
Decay time	: 54 04:47:01.08	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.69

---- 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: Teresa M Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	74.82	386	644	1.36	149.06	143	14	25.3	2.31E+00	AM-243
										PB-214
										PB-212
4	77.21*	495	483	1.00	153.84	143	14	16.9		PB-214
										PB-212
2	87.21	212	444	0.86	173.86	171	11	32.7	1.31E+00	NP-237
										PB-214
										PB-212
2	89.86	119	458	0.82	179.16	171	11	56.6		
0	93.19*	290	855	1.47	185.83	182	10	40.7		
0	129.23	99	645	1.29	258.00	255	8	91.2		AC-228
0	185.94*	376	829	1.11	371.55	365	12	32.8		
0	209.12	200	541	1.05	417.97	414	9	44.2		AC-228
3	238.65*	1939	338	1.05	477.11	472	16	5.5	1.44E+00	PB-212
3	240.92	183	270	1.03	481.65	472	16	39.1		
3	241.98	348	305	1.17	483.76	472	16	22.0		PB-214
0	270.08	186	366	1.25	540.03	536	9	39.8		RA-223
										AC-228
0	277.09	79	251	1.67	554.08	551	7	69.6		TL-208
0	295.22	693	392	1.18	590.38	584	12	13.7		PB-214
0	300.34	206	362	1.25	600.63	596	12	39.5		PB-212
0	327.91	158	276	1.51	655.83	651	10	42.7		
0	338.42*	454	386	1.24	676.87	671	13	20.3		AC-228
0	351.87*	1197	324	1.25	703.81	698	13	8.5		PB-214
0	462.58	157	189	1.31	925.47	919	12	38.5		AC-228
0	510.69*	287	211	1.80	1021.79	1014	16	27.8		TL-208
0	582.86*	629	183	1.58	1166.29	1160	13	12.0		TL-208
0	609.13*	850	158	1.50	1218.89	1213	12	9.2		BI-214
0	727.10	134	89	1.22	1455.06	1450	10	31.5		BI-212
2	768.36	63	105	1.92	1537.67	1533	19	62.6	2.05E+00	BI-214
2	772.64	54	64	1.92	1546.24	1533	19	78.2		
0	794.85	85	97	2.01	1590.71	1584	13	52.6		AC-228
0	837.05	52	127	1.93	1675.19	1665	19	108.6		
0	859.88	83	93	1.03	1720.89	1715	12	51.5		TL-208
0	910.96*	510	94	1.57	1823.14	1816	15	12.3		AC-228
0	933.08	85	49	1.98	1867.43	1861	14	41.3		BI-214
2	964.19	114	31	2.06	1929.71	1922	26	30.5	2.15E+00	AC-228
2	968.56*	291	43	1.87	1938.45	1922	26	14.5		AC-228
0	1119.78	231	45	1.45	2241.16	2233	15	18.3		BI-214
0	1237.47	70	31	1.81	2476.74	2473	9	37.3		BI-214
0	1377.02	75	37	1.13	2756.08	2749	17	44.3		BI-214
0	1459.97*	365	48	2.25	2922.11	2914	16	13.7		K-40
0	1587.10	52	26	1.90	3176.57	3171	12	48.8		AC-228
0	1728.06	49	4	3.04	3458.69	3451	16	34.0		BI-214
0	1763.96*	153	25	2.49	3530.52	3521	23	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
2	89.86	119	458	0.82	179.16	171	11	1.10E-02	56.6	2.32E+00	
0	93.19	290	855	1.47	185.83	182	10	2.68E-02	40.7	2.44E+00	T
0	185.94	376	829	1.11	371.55	365	12	3.48E-02	32.8	3.03E+00	
3	240.92	183	270	1.03	481.65	472	16	1.69E-02	39.1	2.64E+00	
0	327.91	158	276	1.51	655.83	651	10	1.46E-02	42.7	2.11E+00	
2	772.64	54	64	1.92	1546.24	1533	19	5.02E-03	78.2	1.09E+00	
0	837.05	52	127	1.93	1675.19	1665	19	4.79E-03	****	1.03E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.954E+00	2.989E-01	1.690E-01	1.153E-02	11.566
TL-208	2.261E-01	3.538E-02	1.891E-02	1.897E-03	11.958
BI-212	4.055E-01	1.337E-01	1.372E-01	1.319E-02	2.956
PB-212	6.810E-01	6.444E-02	3.315E-02	2.559E-03	20.542
BI-214	5.784E-01	7.923E-02	3.715E-02	3.784E-03	15.570
PB-214	6.467E-01	7.518E-02	3.642E-02	2.874E-03	17.758
RA-223	2.245E-01	9.171E-02	1.048E-01	9.643E-03	2.143
AC-228	8.222E-01	1.111E-01	6.623E-02	3.660E-03	12.415
NP-237	3.154E-01	1.129E-01	1.784E-01	2.579E-02	1.768
AM-243	1.368E-01	4.493E-02	3.657E-02	7.672E-03	3.741

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.137E-04		8.843E-03	1.566E-02	9.558E-04	0.026
RH-101	2.803E-03		1.223E-02	2.037E-02	3.160E-03	0.138
SB-125	1.003E-02		3.194E-02	5.547E-02	4.549E-03	0.181
CS-137	-1.236E-02		1.162E-02	1.914E-02	2.057E-03	-0.646
EU-155	4.129E-02		4.436E-02	7.687E-02	7.633E-03	0.537
PO-209	1.925E+00		2.069E+00	3.853E+00	6.897E-01	0.500
BI-211	3.588E-02		3.347E-01	5.181E-01	3.775E-02	0.069
PA-233	-4.434E-03		2.118E-02	3.642E-02	3.058E-03	-0.122
PA-234M	-1.588E-01		1.160E+00	2.013E+00	1.157E-01	-0.079
TH-234	8.949E-01	+	3.785E-01	4.279E-01	4.993E-02	2.091
U-235	-7.156E-03		7.787E-02	1.289E-01	8.996E-03	-0.056
NP-236	2.593E-02		2.859E-02	4.486E-02	4.928E-03	0.578
NP-239	-4.404E-02		8.134E-02	1.295E-01	1.747E-02	-0.340
AM-241	2.029E-02		6.741E-02	1.183E-01	9.401E-03	0.172
CM-243	5.735E-03		4.025E-02	6.848E-02	7.805E-03	0.084
AM-246	1.681E-02		3.338E-02	6.131E-02	7.546E-03	0.274
CF-249	8.575E-03		1.331E-02	2.351E-02	2.268E-03	0.365

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 07:48:34

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785611_GAMMA2_400MLSAN_16623.CNF

---- Sample Information ----

Sample ID	: OH207-7856-11		
Sample Title	: SB-CZ-SS-2083-SD		
Sample Quantity	: 4.09200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16623		

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

Collection Date	: 27-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 04:48:19
Decay time	: 54 04:48:19.75	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.37

---- 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

MDA = 0.63

Reviewer's Signature: T M Moad Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.81	420	613	0.99	149.21	145	14	21.0	1.18E+00	AM-243
										PB-214
										PB-212
3	77.06	863	578	1.00	153.69	145	14	11.3		PB-214
										PB-212
0	84.06*	96	566	1.02	167.63	165	6	81.5		
2	87.25*	273	658	1.10	173.97	171	11	33.6	1.21E+00	NP-237
										PB-214
										PB-212
2	89.85*	178	540	1.07	179.15	171	11	44.7		
0	92.85*	379	735	1.60	185.13	182	9	28.7		
0	128.80	123	540	0.74	256.70	253	8	67.8		AC-228
0	186.32*	398	732	1.31	371.25	365	14	31.0		
0	209.28	254	686	1.16	416.98	410	13	44.3		AC-228
2	238.77*	2040	263	1.12	475.73	468	28	5.2	2.58E+00	PB-212
2	241.29	294	253	1.39	480.73	468	28	27.6		
2	242.42	151	217	1.22	483.00	468	28	43.8		PB-214
0	270.29*	176	276	1.23	538.51	534	9	37.7		RA-223
										AC-228
0	277.74	106	262	0.82	553.36	549	9	58.6		TL-208
0	295.34*	446	350	1.18	588.42	581	14	20.3		PB-214
0	300.22	130	216	1.39	598.15	595	8	43.0		PB-212
0	328.56	130	278	1.55	654.61	649	11	52.5		
0	338.53*	461	226	1.21	674.46	670	10	15.5		AC-228
0	352.19*	632	285	1.24	701.70	696	13	13.8		PB-214
0	409.84	110	147	1.22	816.58	812	10	45.4		AC-228
0	463.77	153	159	1.68	924.07	919	12	37.7		AC-228
0	511.34*	364	125	1.80	1018.89	1012	17	19.6		TL-208
0	583.39*	643	147	1.30	1162.56	1156	14	11.3		TL-208
0	609.48*	454	144	1.36	1214.58	1207	14	14.9		BI-214
0	727.50	184	101	1.14	1449.98	1443	13	26.9		BI-212
0	768.04	75	43	1.26	1530.87	1526	10	39.8		BI-214
0	785.94	25	36	1.29	1566.58	1563	7	87.3		BI-212
0	794.90	106	51	1.59	1584.46	1578	12	33.2		AC-228
0	835.36	51	48	1.05	1665.19	1660	10	57.5		
0	860.39*	97	63	1.15	1715.16	1708	14	40.6		TL-208
0	911.07*	505	48	2.01	1816.31	1809	18	11.0		AC-228
1	964.59	67	41	1.93	1923.14	1916	22	45.9	1.50E+00	AC-228
1	968.85*	277	35	1.84	1931.65	1916	22	15.2		AC-228
0	1119.96*	131	29	1.89	2233.40	2227	16	25.5		BI-214
0	1238.14	56	36	0.83	2469.50	2462	16	54.6		BI-214
0	1459.78*	92	19	1.53	2912.53	2904	15	31.6		K-40
0	1619.92	18	17	0.97	3232.80	3229	11	101.8		BI-212
0	1628.71	25	9	1.77	3250.39	3244	12	62.4		
0	1762.59*	91	25	1.18	3518.27	3511	19	34.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	84.06	96	566	1.02	167.63	165	6	8.93E-03	81.5	2.38E+00	
2	89.85	178	540	1.07	179.15	171	11	1.65E-02	44.7	2.60E+00	
0	92.85	379	735	1.60	185.13	182	9	3.51E-02	28.7	2.71E+00	T
0	186.32	398	732	1.31	371.25	365	14	3.69E-02	31.0	3.21E+00	
2	241.29	294	253	1.39	480.73	468	28	2.72E-02	27.6	2.78E+00	
0	328.56	130	278	1.55	654.61	649	11	1.21E-02	52.5	2.20E+00	
0	835.36	51	48	1.05	1665.19	1660	10	4.75E-03	57.5	1.01E+00	
0	1628.71	25	9	1.77	3250.39	3244	12	2.32E-03	62.4	6.22E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	7.820E-01	2.519E-01	1.863E-01	1.199E-02	4.199
TL-208	3.451E-01	5.309E-02	2.602E-02	2.709E-03	13.264
BI-212	8.462E-01	2.454E-01	2.124E-01	2.322E-02	3.983
PB-212	1.028E+00	9.499E-02	4.253E-02	3.250E-03	24.179
BI-214	4.631E-01	8.466E-02	5.188E-02	5.524E-03	8.926
PB-214	4.954E-01	7.833E-02	5.196E-02	3.984E-03	9.534
RA-223	3.047E-01	1.180E-01	1.368E-01	1.217E-02	2.228
AC-228	1.261E+00	1.768E-01	8.911E-02	7.743E-03	14.146
NP-237	5.437E-01	1.948E-01	2.296E-01	2.885E-02	2.368
AM-243	1.933E-01	5.591E-02	5.411E-02	1.079E-02	3.573

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.627E-03		1.206E-02	2.362E-02	1.305E-03	0.281
RH-101	-4.484E-03		1.711E-02	2.745E-02	4.286E-03	-0.163
SB-125	4.939E-03		4.240E-02	7.271E-02	5.961E-03	0.068
CS-137	8.340E-03		1.715E-02	3.109E-02	3.537E-03	0.268
EU-155	8.257E-02		6.120E-02	1.059E-01	9.916E-03	0.780
PO-209	1.931E-01		2.694E+00	4.800E+00	9.202E-01	0.040
BI-211	4.574E-01		4.140E-01	7.242E-01	7.089E-02	0.632
PA-233	1.492E-02		2.857E-02	5.034E-02	4.055E-03	0.296
PA-234M	1.185E+00		1.656E+00	3.129E+00	2.442E-01	0.379
TH-234	1.589E+00	+	4.824E-01	6.323E-01	6.324E-02	2.513
U-235	5.751E-02		1.038E-01	1.729E-01	1.262E-02	0.333
NP-236	4.850E-02		3.675E-02	6.104E-02	6.067E-03	0.795
NP-239	-6.974E-02		1.038E-01	1.755E-01	2.369E-02	-0.397
AM-241	-5.122E-02		9.473E-02	1.592E-01	1.044E-02	-0.322
CM-243	-1.957E-02		5.461E-02	9.030E-02	9.763E-03	-0.217
AM-246	1.778E-02		4.662E-02	8.548E-02	1.093E-02	0.208
CF-249	-1.664E-03		1.841E-02	3.130E-02	2.998E-03	-0.053

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 07:49:37

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785612_GAMMA3_400MLSAN_16624.CNF

---- Sample Information ----

Sample ID : OH207-7856-12
Sample Title : SB-CZ-SS-2084-SD
Sample Quantity : 4.71500E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16624

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

Collection Date : 28-AUG-2007 00:00:00 Acquisition date : 20-OCT-2007 04:49:22
Decay time : 53 04:49:22.29 % 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

MDA = 0.53

Reviewer's Signature: Tim Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.85*	990	1032	1.55	166.21	159	17	14.3	2.08E+00	AM-243
										PB-214
										PB-212
2	77.19*	1456	944	1.36	171.41	159	17	9.6		PB-214
										PB-212
0	87.29	340	842	1.36	193.80	191	7	30.4		NP-237
										PB-214
										PB-212
3	90.03	179	622	1.03	199.87	197	14	43.1	2.47E+00	
3	92.86*	369	1003	1.41	206.14	197	14	34.9		
0	128.85	225	837	0.98	285.93	280	11	51.4		AC-228
0	185.77*	510	831	1.36	412.09	404	15	26.8		
0	209.23	230	567	1.24	464.08	459	11	42.2		AC-228
3	238.73*	2434	412	1.39	529.46	523	20	5.1	1.46E+00	PB-212
3	241.67	560	553	2.04	535.98	523	20	25.8		PB-214
0	270.53	255	411	1.47	599.96	594	13	35.3		RA-223
										AC-228
3	295.39	673	262	1.49	655.05	649	25	11.8	1.14E+00	PB-214
3	300.33	232	330	2.08	666.01	649	25	36.7		PB-212
0	328.05	54	259	0.86	727.46	725	8	106.3		
0	338.89*	541	418	1.66	751.47	743	18	19.8		AC-228
0	352.14*	1029	370	1.47	780.85	775	15	10.3		PB-214
0	463.23	139	189	0.91	1027.07	1021	11	41.9		AC-228
0	510.99*	252	178	1.86	1132.92	1125	18	30.6		TL-208
0	583.39*	719	192	1.68	1293.40	1284	19	12.0		TL-208
0	609.44*	756	179	1.78	1351.13	1342	16	10.8		BI-214
0	727.39	178	112	1.64	1612.54	1607	16	30.5		BI-212
1	768.40	59	88	2.10	1703.42	1697	25	66.5	1.88E+00	BI-214
1	772.91	56	77	2.10	1713.42	1697	25	76.1		
0	795.74	75	112	1.80	1764.03	1756	17	69.5		AC-228
0	860.67	93	28	1.16	1907.92	1903	10	29.5		TL-208
0	911.26*	512	71	1.78	2020.04	2012	15	11.5		AC-228
0	934.73	47	55	1.78	2072.07	2063	13	72.0		BI-214
4	964.46	120	28	2.95	2137.95	2130	27	30.8	1.79E+00	AC-228
4	969.11	326	34	2.06	2148.25	2130	27	13.7		AC-228
0	1120.62*	196	50	2.13	2484.02	2475	20	23.0		BI-214
0	1238.19	84	39	1.66	2744.57	2738	12	36.9		BI-214
0	1461.28*	186	55	2.45	3238.93	3230	24	26.4		K-40
0	1764.54*	130	24	1.94	3910.94	3899	24	27.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	90.03	179	622	1.03	199.87	197	14	1.66E-02	43.1	3.55E+00	
3	92.86	369	1003	1.41	206.14	197	14	3.41E-02	34.9	3.55E+00	T
0	185.77	510	831	1.36	412.09	404	15	4.72E-02	26.8	2.82E+00	
0	328.05	54	259	0.86	727.46	725	8	5.01E-03	****	1.89E+00	
1	772.91	56	77	2.10	1713.42	1697	25	5.18E-03	76.1	9.21E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.656E+00	4.472E-01	2.772E-01	1.631E-02	5.974
TL-208	3.860E-01	5.565E-02	3.206E-02	2.552E-03	12.041
BI-212	8.261E-01	2.592E-01	2.228E-01	1.617E-02	3.707
PB-212	1.242E+00	1.126E-01	5.127E-02	3.832E-03	24.223
BI-214	7.725E-01	1.021E-01	5.850E-02	4.458E-03	13.204
PB-214	8.114E-01	1.055E-01	5.910E-02	4.702E-03	13.729
RA-223	4.481E-01	1.629E-01	1.532E-01	1.356E-02	2.926
AC-228	1.311E+00	1.769E-01	1.085E-01	7.626E-03	12.091
NP-237	4.098E-01	1.325E-01	1.902E-01	2.120E-02	2.155
AM-243	2.204E-01	5.284E-02	3.277E-02	6.302E-03	6.727

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.495E-03		1.687E-02	2.974E-02	1.577E-03	0.118
RH-101	-7.636E-03		1.903E-02	3.163E-02	4.882E-03	-0.241
SB-125	4.490E-02		4.981E-02	8.964E-02	7.411E-03	0.501
CS-137	-1.476E-02		2.060E-02	3.378E-02	2.432E-03	-0.437
EU-155	1.993E-02		5.604E-02	9.707E-02	9.128E-03	0.205
PO-209	1.783E+00		3.112E+00	5.786E+00	1.066E+00	0.308
BI-211	-4.611E-01		5.453E-01	8.717E-01	6.278E-02	-0.529
PA-233	-1.237E-03		3.436E-02	5.745E-02	4.688E-03	-0.022
PA-234M	3.057E+00		2.111E+00	4.073E+00	2.781E-01	0.750
TH-234	1.019E+00	+	3.677E-01	5.296E-01	3.524E-02	1.924
U-235	1.542E-01		1.197E-01	2.089E-01	1.551E-02	0.738
NP-236	-1.014E-02		3.317E-02	5.159E-02	4.923E-03	-0.197
NP-239	1.136E-01		1.235E-01	2.125E-01	2.843E-02	0.535
AM-241	-9.909E-02		3.880E-02	5.894E-02	3.730E-03	-1.681
CM-243	-2.516E-02		5.033E-02	8.543E-02	9.206E-03	-0.295
AM-246	1.731E-02		6.194E-02	1.120E-01	1.414E-02	0.154
CF-249	-4.250E-03		2.145E-02	3.701E-02	3.686E-03	-0.115

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 10:52:51

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785613_GAMMA1_400MLSAN_16625.CNF

---- Sample Information ----

Sample ID	: OH207-7856-13		
Sample Title	: SB-CZ-SS-2085-SD		
Sample Quantity	: 4.56900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16625		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 07:52:22
Decay time	: 53 07:52:22.62	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.34

---- 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

MDA = 0.55

Reviewer's Signature: T M Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	75.10	333	484	1.13	149.61	143	16	24.8	1.48E+00	AM-243
										PB-214
										PB-212
2	77.21*	528	397	1.08	153.85	143	16	15.1		PB-214
										PB-212
3	87.38	184	458	1.06	174.21	171	21	38.7	1.83E+00	NP-237
										PB-214
										PB-212
3	89.97	177	426	1.00	179.38	171	21	39.7		
3	92.84*	263	454	1.23	185.13	171	21	31.8		
0	186.01*	274	484	1.34	371.71	368	9	32.4		
0	208.94	99	422	1.05	417.61	415	8	74.3		AC-228
1	238.65*	1613	248	1.10	477.10	470	19	6.0	2.25E+00	PB-212
1	241.09	206	237	1.19	481.98	470	19	38.6		
1	242.04	227	234	1.10	483.90	470	19	28.9		PB-214
0	270.23	130	371	1.26	540.33	536	11	60.0		RA-223
										AC-228
4	295.24	505	217	1.22	590.42	586	19	12.9	1.50E+00	PB-214
4	299.98	151	273	1.80	599.90	586	19	48.1		PB-212
0	338.35*	353	283	1.29	676.73	672	12	22.1		AC-228
0	351.80*	925	325	1.11	703.66	697	13	10.4		PB-214
0	462.66	108	212	1.35	925.64	920	14	60.1		AC-228
0	510.66*	199	183	1.95	1021.73	1014	14	35.7		TL-208
0	582.97*	541	116	1.39	1166.51	1161	11	11.7		TL-208
0	609.16*	666	100	1.51	1218.95	1213	13	10.1		BI-214
0	661.34	392	150	1.38	1323.41	1318	13	16.3		CS-137
0	727.17	136	128	1.69	1455.21	1448	16	41.0		BI-212
0	770.41	62	156	1.60	1541.78	1533	18	101.8		
0	795.88	62	99	0.77	1592.77	1588	15	73.7		AC-228
0	860.16	76	55	2.21	1721.46	1716	13	46.3		TL-208
0	910.83*	411	100	1.71	1822.88	1813	20	15.6		AC-228
3	964.05	80	55	2.26	1929.43	1922	37	47.5	1.66E+00	AC-228
3	968.60*	230	41	1.84	1938.54	1922	37	17.5		AC-228
0	1120.23	146	53	1.98	2242.08	2235	18	29.5		BI-214
0	1237.35	62	51	1.28	2476.52	2470	14	55.8		BI-214
0	1376.92	45	23	2.24	2755.89	2751	13	53.4		BI-214
0	1411.79	40	50	11.75	2825.67	2813	28	110.1		
0	1460.07*	287	18	2.35	2922.30	2915	14	13.7		K-40
0	1763.65*	102	22	2.54	3529.91	3523	17	29.2		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	89.97	177	426	1.00	179.38	171	21	1.64E-02	39.7	2.33E+00	
3	92.84	263	454	1.23	185.13	171	21	2.44E-02	31.8	2.43E+00	T
0	186.01	274	484	1.34	371.71	368	9	2.53E-02	32.4	3.03E+00	
1	241.09	206	237	1.19	481.98	470	19	1.91E-02	38.6	2.64E+00	
0	770.41	62	156	1.60	1541.78	1533	18	5.77E-03	****	1.09E+00	
0	1411.79	40	50	11.75	2825.67	2813	28	3.69E-03	****	7.25E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.084E+00	3.183E-01	1.887E-01	1.288E-02	11.045
CS-137	2.089E-01	4.071E-02	2.733E-02	2.937E-03	7.642
TL-208	2.632E-01	4.054E-02	2.551E-02	2.559E-03	10.318
BI-212	5.568E-01	2.343E-01	1.869E-01	1.797E-02	2.980
PB-212	7.676E-01	7.519E-02	3.782E-02	2.918E-03	20.299
BI-214	6.143E-01	8.798E-02	4.393E-02	4.475E-03	13.983
PB-214	6.768E-01	8.857E-02	4.876E-02	3.848E-03	13.880
RA-223	2.126E-01	1.290E-01	1.270E-01	1.169E-02	1.674
AC-228	8.965E-01	1.486E-01	8.975E-02	4.960E-03	9.988
NP-237	3.702E-01	1.528E-01	2.209E-01	3.195E-02	1.676
AM-243	1.599E-01	5.196E-02	4.679E-02	9.815E-03	3.418

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.078E-03		1.151E-02	1.931E-02	1.260E-03	0.056
RH-101	6.209E-04		1.509E-02	2.511E-02	3.894E-03	0.025
SB-125	2.121E-02		3.871E-02	6.848E-02	5.616E-03	0.310
EU-155	-1.721E-02		5.181E-02	8.697E-02	8.635E-03	-0.198
PO-209	1.076E+00		2.320E+00	4.300E+00	7.696E-01	0.250
BI-211	-1.157E-01		3.817E-01	6.588E-01	4.799E-02	-0.176
PA-233	-4.040E-03		2.528E-02	4.372E-02	3.671E-03	-0.092
PA-234M	-2.257E-01		1.678E+00	2.899E+00	1.667E-01	-0.078
TH-234	1.101E+00	+	3.730E-01	5.495E-01	6.411E-02	2.004
U-235	8.839E-02		9.617E-02	1.644E-01	1.148E-02	0.538
NP-236	1.935E-04		3.460E-02	5.279E-02	5.800E-03	0.004
NP-239	2.064E-02		9.671E-02	1.597E-01	2.154E-02	0.129
AM-241	2.513E-02		8.317E-02	1.465E-01	1.164E-02	0.172
CM-243	-2.389E-02		4.717E-02	7.866E-02	8.964E-03	-0.304
AM-246	3.328E-02		4.234E-02	8.028E-02	9.881E-03	0.415
CF-249	3.146E-03		1.581E-02	2.761E-02	2.663E-03	0.114

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 10:56:24

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785614_GAMMA2_400MLSAN_16626.CNF

---- Sample Information ----

Sample ID	: OH207-7856-14		
Sample Title	: SB-CZ-SS-2086-SD		
Sample Quantity	: 5.08600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16626		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 07:56:07
Decay time	: 53 07:56:07.58	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.62

---- 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

MDA = 0.55

Reviewer's Signature: T M Moore Date: 10/23/2007

Sample ID : OH207-7856-14 Acquisition date : 20-OCT-2007 07:56:07

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.79	545	651	1.08	149.17	142	17	17.4	2.49E+00	AM-243
										PB-214
										PB-212
1	77.12	805	644	0.94	153.80	142	17	12.4		PB-214
										PB-212
3	87.09*	295	789	1.25	173.65	164	27	33.7	1.45E+00	NP-237
										PB-214
										PB-212
3	92.87*	354	795	1.18	185.16	164	27	29.3		
0	129.46	155	843	1.02	258.01	254	9	69.1		AC-228
0	186.01*	296	817	1.25	370.63	366	10	38.7		
0	209.28	230	488	1.08	416.98	414	7	34.5		AC-228
2	238.78*	2621	414	1.15	475.74	468	32	4.7	2.37E+00	PB-212
2	241.27	335	394	1.28	480.71	468	32	29.0		
2	242.17	237	435	1.48	482.50	468	32	39.2		PB-214
0	270.35*	209	384	1.11	538.64	534	9	36.9		RA-223
										AC-228
0	278.02	169	334	1.09	553.91	550	10	43.4		TL-208
5	295.42*	519	282	1.32	588.58	582	24	14.2	1.34E+00	PB-214
5	300.20	250	363	2.07	598.10	582	24	34.5		PB-212
0	328.49	202	364	1.49	654.46	649	12	40.3		
0	338.61*	593	304	1.24	674.62	670	9	13.5		AC-228
0	352.18*	898	291	1.22	701.68	695	11	10.0		PB-214
0	409.93	85	164	1.84	816.75	814	8	56.5		AC-228
0	463.86	214	250	1.52	924.25	918	15	35.2		AC-228
0	510.96*	269	312	1.79	1018.14	1012	16	33.7		TL-208
0	583.38*	931	172	1.34	1162.53	1156	12	8.7		TL-208
0	609.55*	690	218	1.57	1214.73	1207	17	12.6		BI-214
0	662.20	118	150	0.84	1319.74	1314	13	46.7		CS-137
0	727.39	203	116	1.57	1449.76	1445	11	24.9		BI-212
0	785.89	41	68	1.36	1566.49	1562	9	78.9		BI-212
0	795.24	90	131	0.74	1585.14	1579	15	59.1		AC-228
0	835.62	44	67	1.68	1665.73	1661	9	73.8		
0	861.08*	110	99	1.46	1716.53	1710	14	43.6		TL-208
0	911.13*	683	93	1.55	1816.43	1808	17	10.1		AC-228
2	964.68	117	51	1.77	1923.32	1919	20	29.2	3.57E-01	AC-228
2	968.83*	436	61	1.76	1931.61	1919	20	11.8		AC-228
0	1120.34*	123	62	2.22	2234.17	2227	13	32.2		BI-214
0	1237.92	78	49	1.37	2469.05	2463	13	43.3		BI-214
0	1459.81*	451	49	1.93	2912.57	2905	17	12.1		K-40
0	1586.92*	43	46	1.84	3166.79	3162	10	66.9		AC-228
0	1629.74	33	19	1.59	3252.45	3243	15	67.1		
0	1763.03*	97	36	2.39	3519.16	3511	21	38.0		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	92.87	354	795	1.18	185.16	164	27	3.28E-02	29.3	2.71E+00	T
0	186.01	296	817	1.25	370.63	366	10	2.74E-02	38.7	3.21E+00	
2	241.27	335	394	1.28	480.71	468	32	3.10E-02	29.0	2.78E+00	
0	328.49	202	364	1.49	654.46	649	12	1.87E-02	40.3	2.20E+00	
0	835.62	44	67	1.68	1665.73	1661	9	4.07E-03	73.8	1.01E+00	
0	1629.74	33	19	1.59	3252.45	3243	15	3.05E-03	67.1	6.21E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.086E+00	4.232E-01	1.771E-01	1.140E-02	17.424
CS-137	5.604E-02	2.694E-02	2.606E-02	2.965E-03	2.150
TL-208	4.017E-01	5.451E-02	2.480E-02	2.583E-03	16.197
BI-212	7.483E-01	2.035E-01	1.986E-01	2.171E-02	3.768
PB-212	1.063E+00	9.531E-02	4.132E-02	3.158E-03	25.733
BI-214	5.666E-01	9.336E-02	4.712E-02	5.017E-03	12.025
PB-214	5.663E-01	7.149E-02	4.479E-02	3.434E-03	12.643
RA-223	2.918E-01	1.107E-01	1.278E-01	1.137E-02	2.282
AC-228	1.371E+00	1.827E-01	8.406E-02	7.305E-03	16.311
NP-237	4.722E-01	1.699E-01	1.935E-01	2.431E-02	2.441
AM-243	2.018E-01	5.336E-02	4.551E-02	9.071E-03	4.435

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.759E-04		1.215E-02	2.196E-02	1.213E-03	-0.031
RH-101	8.376E-04		1.517E-02	2.458E-02	3.838E-03	0.034
SB-125	1.811E-02		3.836E-02	6.653E-02	5.455E-03	0.272
EU-155	6.073E-02		5.604E-02	9.577E-02	8.967E-03	0.634
PO-209	-1.645E+00		2.621E+00	4.308E+00	8.259E-01	-0.382
BI-211	2.862E-01		4.402E-01	7.084E-01	6.935E-02	0.404
PA-233	1.260E-03		2.567E-02	4.415E-02	3.556E-03	0.029
PA-234M	9.537E-01		1.594E+00	2.914E+00	2.275E-01	0.327
TH-234	1.195E+00	+	3.703E-01	5.449E-01	5.450E-02	2.194
U-235	1.955E-02		9.997E-02	1.641E-01	1.198E-02	0.119
NP-236	1.757E-02		3.385E-02	5.475E-02	5.443E-03	0.321
NP-239	-8.411E-02		9.551E-02	1.599E-01	2.158E-02	-0.526
AM-241	-5.179E-02		7.894E-02	1.321E-01	8.665E-03	-0.392
CM-243	5.993E-02		5.074E-02	8.681E-02	9.385E-03	0.690
AM-246	4.065E-02		4.258E-02	8.049E-02	1.030E-02	0.505
CF-249	-6.552E-03		1.679E-02	2.799E-02	2.682E-03	-0.234

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 24-OCT-2007 17:59:49

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785615_GAMMA3_400MLSAN_16627.CNF

---- Sample Information ----

Sample ID	: OH207-7856-15		
Sample Title	: SB-CZ-SS-2087-SD		
Sample Quantity	: 3.62000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16627		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 07:58:20
Decay time	: 53 07:58:20.19	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.85

---- 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

MDA = 0.59

Reviewer's Signature: T M Moore Date: 10/25/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.82*	670	641	1.59	166.15	160	17	18.2	4.96E+00	AM-243
										PB-214
										PB-212
2	77.21*	844	494	1.22	171.44	160	17	12.3		PB-214
										PB-212
3	87.32	296	669	1.78	193.86	183	32	37.2	2.04E+00	NP-237
										PB-214
										PB-212
3	90.04	250	426	1.25	199.88	183	32	31.9		
3	93.00*	445	548	1.61	206.44	183	32	24.9		
0	186.02*	202	594	1.90	412.64	406	16	57.6		
0	209.60	158	322	1.00	464.90	460	10	45.4		AC-228
3	238.76*	1545	273	1.49	529.54	522	25	6.6	2.57E+00	PB-212
3	241.55	196	298	1.61	535.71	522	25	46.9		PB-214
0	270.67	198	319	1.88	600.27	593	18	44.4		RA-223
										AC-228
1	295.37	238	198	1.64	655.01	650	22	26.0	1.00E+00	PB-214
1	300.17	129	183	1.69	665.65	650	22	44.8		PB-212
0	327.82	54	210	1.74	726.95	722	11	108.2		
0	338.59*	270	209	1.19	750.81	745	12	24.8		AC-228
0	352.04*	487	153	1.50	780.63	774	14	14.3		PB-214
0	583.16*	462	125	1.69	1292.88	1284	19	15.0		TL-208
0	609.66*	293	109	1.60	1351.61	1346	14	19.6		BI-214
0	662.80	67	159	1.98	1469.38	1463	19	94.7		CS-137
0	727.85	81	118	1.54	1613.55	1604	19	66.9		BI-212
0	795.22	63	64	1.18	1762.87	1754	14	58.5		AC-228
0	861.52	85	61	0.97	1909.81	1901	21	51.6		TL-208
0	911.35*	309	36	1.66	2020.24	2013	17	14.6		AC-228
0	969.60	164	105	1.76	2149.34	2140	16	32.2		AC-228
0	1121.74*	58	47	1.79	2486.49	2477	19	67.6		BI-214
0	1378.49	22	9	1.66	3055.48	3051	9	68.8		BI-214
0	1461.08*	130	29	2.34	3238.50	3230	22	28.4		K-40
0	1764.60*	47	16	2.10	3911.05	3904	16	49.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	90.04	250	426	1.25	199.88	183	32	2.32E-02	31.9	3.55E+00	
3	93.00	445	548	1.61	206.44	183	32	4.12E-02	24.9	3.55E+00	T
0	186.02	202	594	1.90	412.64	406	16	1.87E-02	57.6	2.81E+00	
0	327.82	54	210	1.74	726.95	722	11	4.96E-03	****	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.515E+00	4.398E-01	2.867E-01	1.687E-02	5.285
CS-137	5.163E-02	4.905E-02	3.818E-02	2.749E-03	1.352
TL-208	3.227E-01	5.491E-02	3.384E-02	2.693E-03	9.537
BI-212	4.917E-01	3.309E-01	2.480E-01	1.800E-02	1.983
PB-212	1.026E+00	1.025E-01	5.461E-02	4.082E-03	18.794
BI-214	3.892E-01	8.187E-02	6.103E-02	4.650E-03	6.377
PB-214	5.000E-01	8.163E-02	5.921E-02	4.710E-03	8.445
RA-223	4.535E-01	2.054E-01	1.562E-01	1.383E-02	2.904
AC-228	1.031E+00	1.669E-01	1.198E-01	8.421E-03	8.605
NP-237	4.647E-01	1.804E-01	1.675E-01	1.867E-02	2.774
AM-243	1.945E-01	5.147E-02	3.329E-02	6.401E-03	5.842

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.647E-03		1.991E-02	3.579E-02	1.898E-03	0.046
RH-101	1.541E-02		2.007E-02	3.459E-02	5.339E-03	0.445
SB-125	3.485E-02		5.133E-02	9.320E-02	7.705E-03	0.374
EU-155	3.084E-02		5.785E-02	1.014E-01	9.533E-03	0.304
PO-209	3.229E+00		3.825E+00	7.264E+00	1.338E+00	0.445
BI-211	-3.765E-01		6.277E-01	1.025E+00	7.383E-02	-0.367
PA-233	4.328E-02		3.710E-02	6.582E-02	5.372E-03	0.658
PA-234M	5.249E-01		2.382E+00	4.299E+00	2.935E-01	0.122
TH-234	1.601E+00	+	4.242E-01	5.886E-01	5.269E-02	2.721
U-235	3.556E-02		1.192E-01	2.059E-01	1.529E-02	0.173
NP-236	2.126E-02		3.704E-02	5.424E-02	5.176E-03	0.392
NP-239	-2.089E-03		1.304E-01	2.209E-01	2.955E-02	-0.009
AM-241	-1.326E-01		4.304E-02	6.310E-02	3.993E-03	-2.101
CM-243	1.540E-02		5.189E-02	9.046E-02	9.747E-03	0.170
AM-246	3.944E-02		6.339E-02	1.209E-01	1.526E-02	0.326
CF-249	1.061E-02		2.223E-02	3.991E-02	3.975E-03	0.266

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 24-OCT-2007 18:00:50

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785616_GAMMA1_400MLSAN_16628.CNF

---- Sample Information ----

Sample ID	: OH207-7856-16		
Sample Title	: SB-CZ-SS-2088-SD		
Sample Quantity	: 4.21900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16628		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 11:00:44
Decay time	: 53 11:00:44.66	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.60

---- 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

MDA = 0.66

Reviewer's Signature: _____ Date: 10/25/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.94	402	520	0.91	149.29	145	14	19.6	7.82E-01	AM-243
										PB-214
										PB-212
3	77.17*	667	479	0.92	153.76	145	14	12.8		PB-214
										PB-212
2	87.31	172	506	0.77	174.06	171	20	40.7	3.01E+00	NP-237
										PB-214
										PB-212
2	90.13	181	652	1.16	179.71	171	20	48.3		
2	92.97*	331	573	1.16	185.40	171	20	28.4		
0	129.01	145	523	0.73	257.56	254	7	54.8		AC-228
0	185.98*	289	676	1.06	371.65	367	10	36.5		
0	209.28	216	516	1.07	418.29	414	9	40.3		AC-228
1	238.65*	2309	336	1.07	477.10	472	19	4.9	1.56E+00	PB-212
1	241.10	312	349	1.28	482.01	472	19	31.6		
1	242.06	215	335	1.28	483.93	472	19	38.2		PB-214
0	270.22	183	380	1.29	540.33	535	11	43.9		RA-223
										AC-228
0	277.83	98	329	1.10	555.55	550	10	72.2		TL-208
0	295.17	616	361	1.15	590.27	585	11	14.4		PB-214
0	300.22	164	383	1.38	600.40	596	12	50.1		PB-212
0	327.91	132	297	1.13	655.83	651	10	52.3		
0	338.24*	519	242	1.20	676.51	671	10	14.4		AC-228
0	351.83*	1038	267	1.28	703.72	697	13	9.0		PB-214
0	409.04	104	165	1.28	818.27	813	10	50.6		AC-228
0	462.51	146	194	1.31	925.34	919	12	41.6		AC-228
0	510.61*	189	308	1.76	1021.63	1014	17	47.8		TL-208
0	583.12*	693	204	1.42	1166.82	1161	13	11.5		TL-208
0	609.10*	749	216	1.51	1218.82	1211	16	11.5		BI-214
0	727.21	204	95	1.64	1455.28	1450	14	24.3		BI-212
0	767.87	62	124	0.76	1536.69	1531	11	73.5		BI-214
0	786.24	57	98	2.25	1573.46	1568	14	79.3		BI-212
0	794.67	143	84	1.56	1590.34	1582	16	33.1		AC-228
0	860.39	95	78	0.96	1721.90	1717	12	42.0		TL-208
0	910.95*	586	98	1.72	1823.13	1815	17	11.4		AC-228
2	964.59	104	57	2.06	1930.50	1922	22	35.6	1.62E+00	AC-228
2	968.59*	375	41	1.74	1938.52	1922	22	12.4		AC-228
0	1120.14	159	66	1.31	2241.88	2235	15	26.7		BI-214
0	1237.44	75	45	1.85	2476.70	2469	15	45.2		BI-214
0	1460.20*	227	29	2.12	2922.56	2914	19	17.8		K-40
0	1587.72	34	28	1.24	3177.80	3174	9	64.7		AC-228
0	1592.35	31	31	1.56	3187.06	3182	14	83.9		
0	1729.67	28	15	0.88	3461.89	3455	15	71.2		BI-214
0	1763.97*	120	42	2.66	3530.54	3523	19	32.3		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	90.13	181	652	1.16	179.71	171	20	1.67E-02	48.3	2.33E+00	
2	92.97	331	573	1.16	185.40	171	20	3.06E-02	28.4	2.43E+00	T
0	185.98	289	676	1.06	371.65	367	10	2.68E-02	36.5	3.03E+00	
1	241.10	312	349	1.28	482.01	472	19	2.89E-02	31.6	2.64E+00	
0	327.91	132	297	1.13	655.83	651	10	1.22E-02	52.3	2.11E+00	
0	1592.35	31	31	1.56	3187.06	3182	14	2.90E-03	83.9	6.63E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.787E+00	3.408E-01	2.438E-01	1.664E-02	7.328
TL-208	3.653E-01	5.585E-02	2.909E-02	2.919E-03	12.556
BI-212	9.065E-01	2.370E-01	1.825E-01	1.756E-02	4.967
PB-212	1.190E+00	1.086E-01	4.626E-02	3.570E-03	25.720
BI-214	7.476E-01	1.150E-01	5.452E-02	5.553E-03	13.712
PB-214	8.229E-01	9.864E-02	5.306E-02	4.187E-03	15.507
RA-223	3.238E-01	1.453E-01	1.388E-01	1.277E-02	2.333
AC-228	1.385E+00	1.757E-01	9.098E-02	5.028E-03	15.219
NP-237	3.752E-01	1.619E-01	2.683E-01	3.880E-02	1.398
AM-243	2.092E-01	6.000E-02	5.941E-02	1.246E-02	3.520

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-9.311E-03		1.443E-02	2.345E-02	1.431E-03	-0.397
RH-101	-1.499E-03		1.762E-02	2.908E-02	4.511E-03	-0.052
SB-125	1.051E-02		4.357E-02	7.570E-02	6.209E-03	0.139
CS-137	-1.409E-02		1.728E-02	2.903E-02	3.119E-03	-0.486
EU-155	9.519E-02		6.487E-02	1.135E-01	1.127E-02	0.839
PO-209	-1.661E+00		3.020E+00	5.051E+00	9.041E-01	-0.329
BI-211	-6.043E-01		4.525E-01	7.123E-01	5.190E-02	-0.848
PA-233	-1.870E-02		2.921E-02	4.928E-02	4.138E-03	-0.380
PA-234M	4.821E-01		1.709E+00	3.072E+00	1.766E-01	0.157
TH-234	1.500E+00	+	4.605E-01	6.573E-01	7.669E-02	2.282
U-235	4.517E-02		1.092E-01	1.837E-01	1.283E-02	0.246
NP-236	3.364E-02		3.768E-02	6.278E-02	6.897E-03	0.536
NP-239	5.755E-02		1.111E-01	1.849E-01	2.495E-02	0.311
AM-241	-5.837E-02		1.002E-01	1.705E-01	1.356E-02	-0.342
CM-243	-6.571E-03		5.823E-02	9.834E-02	1.121E-02	-0.067
AM-246	1.389E-04		4.803E-02	8.448E-02	1.040E-02	0.002
CF-249	5.028E-03		1.852E-02	3.231E-02	3.117E-03	0.156

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 24-OCT-2007 18:01:28

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785617_GAMMA2_400MLSAN_16629.CNF

---- Sample Information ----

Sample ID	: OH207-7856-17		
Sample Title	: SB-CZ-SS-2089-SD		
Sample Quantity	: 4.75200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16629		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 11:04:55
Decay time	: 53 11:04:55.82	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.43

---- 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

MDA = 0.55

Reviewer's Signature: T M Moore Date: 10/25/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.73	470	703	1.19	149.04	144	15	21.1	1.83E+00	AM-243
										PB-214
										PB-212
2	77.05	698	592	0.98	153.66	144	15	13.5		PB-214
										PB-212
5	87.24*	372	678	1.27	173.96	163	28	26.6	1.36E+00	NP-237
										PB-214
										PB-212
5	92.88*	437	812	1.62	185.17	163	28	27.5		
1	104.90	66	286	0.96	209.11	207	9	77.3	1.62E+00	CM-243
										EU-155
1	105.74	73	521	1.15	210.79	207	9	108.1		
0	128.35	211	707	0.89	255.81	251	9	47.4		AC-228
0	185.97*	349	653	1.17	370.56	366	10	30.0		
0	209.10	262	589	1.35	416.63	413	10	36.7		AC-228
2	238.76*	2164	314	1.11	475.70	468	19	5.2	1.62E+00	PB-212
2	241.21	301	398	1.48	480.58	468	19	37.0		
2	242.32	186	309	1.13	482.80	468	19	39.1		PB-214
0	269.93*	225	458	1.21	537.79	532	12	40.4		RA-223
										AC-228
0	277.85	93	329	1.11	553.57	549	9	73.2		TL-208
3	295.36*	546	258	1.13	588.46	584	20	13.0	6.23E-01	PB-214
3	300.42	134	316	1.54	598.54	584	20	51.1		PB-212
0	338.53*	465	318	1.27	674.48	669	12	18.0		AC-228
0	352.14*	937	291	1.26	701.59	696	11	9.7		PB-214
0	409.81	58	175	1.36	816.51	813	8	84.1		AC-228
0	463.35	128	189	1.43	923.24	919	12	46.4		AC-228
0	511.02*	248	228	1.87	1018.25	1012	14	31.3		TL-208
0	583.34*	760	188	1.48	1162.46	1154	16	10.9		TL-208
0	609.49*	665	156	1.63	1214.60	1208	13	11.1		BI-214
0	727.08	168	124	1.60	1449.15	1442	15	32.7		BI-212
0	767.89	84	74	0.64	1530.58	1525	11	45.5		BI-214
0	772.13	49	46	1.17	1539.03	1536	8	57.0		
0	794.66	68	108	1.88	1583.98	1578	12	65.8		AC-228
0	836.22	35	60	1.61	1666.91	1661	10	89.4		
0	860.22*	93	77	1.49	1714.81	1707	16	47.3		TL-208
0	911.19*	525	102	1.76	1816.55	1810	17	12.6		AC-228
0	934.88	44	60	0.76	1863.84	1854	15	82.4		BI-214
2	964.53	71	67	1.82	1923.03	1918	21	48.6	1.79E+00	AC-228
2	968.84*	339	46	1.70	1931.62	1918	21	13.3		AC-228
0	1120.23*	113	88	1.83	2233.95	2229	15	41.3		BI-214
0	1238.24	74	35	0.96	2469.69	2462	16	42.8		BI-214
0	1459.87*	275	29	2.15	2912.70	2904	16	15.3		K-40
0	1589.64	57	40	7.49	3172.22	3160	24	65.7		AC-228
0	1620.56	28	18	2.39	3234.08	3225	14	73.1		BI-212
0	1762.93*	122	18	2.67	3518.94	3510	18	25.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	92.88	437	812	1.62	185.17	163	28	4.05E-02	27.5	2.71E+00	T
1	105.74	73	521	1.15	210.79	207	9	6.78E-03	****	3.05E+00	
0	185.97	349	653	1.17	370.56	366	10	3.24E-02	30.0	3.21E+00	
2	241.21	301	398	1.48	480.58	468	19	2.78E-02	37.0	2.78E+00	
0	772.13	49	46	1.17	1539.03	1536	8	4.54E-03	57.0	1.08E+00	
0	836.22	35	60	1.61	1666.91	1661	10	3.24E-03	89.4	1.01E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.014E+00	3.351E-01	1.801E-01	1.159E-02	11.185
EU-155	5.537E-02	4.310E-02	8.999E-02	8.426E-03	0.615
TL-208	3.513E-01	5.301E-02	2.448E-02	2.549E-03	14.353
BI-212	6.659E-01	2.294E-01	1.948E-01	2.130E-02	3.418
PB-212	9.396E-01	8.668E-02	3.983E-02	3.043E-03	23.593
BI-214	5.843E-01	8.991E-02	4.696E-02	5.001E-03	12.442
PB-214	6.322E-01	7.838E-02	5.062E-02	3.881E-03	12.490
RA-223	3.369E-01	1.395E-01	1.220E-01	1.085E-02	2.762
AC-228	1.127E+00	1.727E-01	8.494E-02	7.381E-03	13.273
NP-237	6.383E-01	1.876E-01	1.879E-01	2.361E-02	3.397
AM-243	1.863E-01	5.409E-02	4.641E-02	9.251E-03	4.014
CM-243	5.075E-02	3.960E-02	8.165E-02	8.827E-03	0.622

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	4.156E-03		1.210E-02	2.280E-02	1.260E-03	0.182
RH-101	-1.319E-02		1.551E-02	2.414E-02	3.768E-03	-0.547
SB-125	1.942E-02		3.861E-02	6.732E-02	5.520E-03	0.288
CS-137	-6.018E-04		1.554E-02	2.726E-02	3.101E-03	-0.022
PO-209	-1.670E+00		2.749E+00	4.532E+00	8.688E-01	-0.368
BI-211	4.014E-01		4.194E-01	7.043E-01	6.894E-02	0.570
PA-233	-2.766E-03		2.546E-02	4.361E-02	3.512E-03	-0.063
PA-234M	1.222E+00		1.462E+00	2.777E+00	2.168E-01	0.440
TH-234	1.578E+00	+	4.621E-01	5.521E-01	5.522E-02	2.858
U-235	4.382E-02		9.769E-02	1.618E-01	1.181E-02	0.271
NP-236	-1.652E-03		3.280E-02	5.230E-02	5.199E-03	-0.032
NP-239	-5.308E-03		9.467E-02	1.640E-01	2.213E-02	-0.032
AM-241	1.108E-02		8.021E-02	1.377E-01	9.031E-03	0.081
AM-246	3.061E-02		4.358E-02	8.133E-02	1.040E-02	0.376
CF-249	1.018E-02		1.717E-02	2.999E-02	2.873E-03	0.340

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 14:07:45

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785618_GAMMA3_400MLSAN_16630.CNF

---- Sample Information ----

Sample ID : OH207-7856-18
Sample Title : SB-CZ-SS-2090-SD
Sample Quantity : 4.10500E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16630

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

Collection Date : 28-AUG-2007 00:00:00 Acquisition date : 20-OCT-2007 11:07:17
Decay time : 53 11:07:17.72 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:00.79

---- 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: T M Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.41*	109	647	1.62	140.87	136	11	97.6		TH-234
2	74.87*	459	665	1.45	166.27	158	20	23.5	3.44E+00	AM-243
										PB-214
										PB-212
2	77.19*	743	637	1.59	171.42	158	20	16.2		PB-214
										PB-212
0	92.88*	274	617	1.30	206.19	202	11	40.3		TH-234
0	128.74	59	322	0.86	285.68	283	7	103.5		AC-228
0	185.74*	242	432	1.52	412.03	405	13	39.4		
0	209.61	115	290	1.08	464.93	461	10	58.5		AC-228
0	238.63*	862	490	1.37	529.25	524	10	11.7		PB-212
0	242.12	105	299	1.80	536.98	533	8	62.8		PB-214
0	295.49	253	219	1.03	655.28	648	14	27.9		PB-214
0	300.34	116	146	1.51	666.04	662	10	43.2		PB-212
0	338.57*	229	243	1.31	750.76	743	16	33.4		AC-228
0	352.20*	420	166	1.78	780.97	774	15	16.8		PB-214
0	463.24	49	140	1.27	1027.09	1020	13	103.2		AC-228
0	510.99*	150	129	2.09	1132.92	1125	18	44.5		TL-208
0	583.33*	293	102	1.77	1293.27	1285	15	19.4		TL-208
0	609.54*	260	132	1.48	1351.34	1343	17	24.1		BI-214
0	727.71	64	90	0.74	1613.25	1606	14	68.4		BI-212
0	911.41*	235	38	1.96	2020.39	2011	19	18.5		AC-228
0	970.12	100	124	1.09	2150.49	2140	21	61.2		AC-228
0	1120.21*	65	38	1.57	2483.12	2473	15	48.8		BI-214
0	1461.04*	158	27	2.10	3238.40	3230	18	23.3		K-40
0	1765.63*	35	13	2.65	3913.35	3903	18	62.4		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	185.74	242	432	1.52	412.03	405	13	2.24E-02	39.4	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.619E+00	3.895E-01	2.830E-01	1.665E-02	5.721
TL-208	1.807E-01	3.785E-02	2.866E-02	2.281E-03	6.306
BI-212	3.386E-01	2.330E-01	2.123E-01	1.541E-02	1.595
PB-212	5.049E-01	7.019E-02	5.520E-02	4.126E-03	9.147
BI-214	3.054E-01	7.707E-02	5.240E-02	3.993E-03	5.828
PB-214	3.803E-01	7.071E-02	5.279E-02	4.200E-03	7.205
AC-228	6.923E-01	1.368E-01	9.711E-02	6.828E-03	7.130
TH-234	8.706E-01	3.593E-01	3.963E-01	3.548E-02	2.197
AM-243	1.174E-01	3.566E-02	2.914E-02	5.604E-03	4.029

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.178E-03		1.755E-02	2.179E-02	1.156E-03	0.238
RH-101	3.970E-03		1.710E-02	2.915E-02	4.499E-03	0.136
SB-125	-1.528E-03		4.397E-02	7.709E-02	6.373E-03	-0.020
CS-137	3.707E-02		2.075E-02	3.938E-02	2.835E-03	0.941
EU-155	4.527E-02		4.907E-02	8.691E-02	8.172E-03	0.521
PO-209	9.312E-01		3.088E+00	5.727E+00	1.055E+00	0.163
BI-211	-2.194E-01		4.398E-01	7.287E-01	5.248E-02	-0.301
RA-223	2.628E-01		9.497E-02	1.739E-01	1.539E-02	1.511
PA-233	-3.496E-03		3.008E-02	5.056E-02	4.126E-03	-0.069
PA-234M	2.721E+00		2.094E+00	4.087E+00	2.791E-01	0.666
U-235	-9.087E-03		1.037E-01	1.773E-01	1.316E-02	-0.051
NP-236	3.963E-02		3.061E-02	4.631E-02	4.419E-03	0.856
NP-237	8.159E-02		1.062E-01	1.770E-01	1.973E-02	0.461
NP-239	3.011E-02		1.018E-01	1.753E-01	2.345E-02	0.172
AM-241	3.075E-02		3.717E-02	5.592E-02	3.538E-03	0.550
CM-243	8.635E-03		4.408E-02	7.673E-02	8.269E-03	0.113
AM-246	2.868E-02		5.516E-02	1.045E-01	1.319E-02	0.275
CF-249	3.678E-02		1.953E-02	3.685E-02	3.670E-03	0.998

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 17:11:58

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785619_GAMMA1_400MLSAN_16631.CNF

---- Sample Information ----

Sample ID	: OH207-7856-19		
Sample Title	: SB-CZ-SS-2091-SD		
Sample Quantity	: 5.06100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16631		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 14:11:40
Decay time	: 53 14:11:40.81	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.38

---- 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 Wood Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.17*	56	340	0.79	125.72	123	6	110.8		TH-234
2	74.91	357	457	1.12	149.24	142	15	23.1	3.05E+00	AM-243
										PB-214
										PB-212
2	77.18*	517	402	1.02	153.77	142	15	15.2		PB-214
										PB-212
4	87.29	312	448	1.39	174.03	164	28	26.2	2.22E+00	NP-237
										PB-214
										PB-212
4	90.04	228	385	1.10	179.52	164	28	32.1		
4	92.92*	361	432	1.41	185.30	164	28	24.0		TH-234
0	186.22*	234	652	1.22	372.13	367	10	44.0		
0	209.49	130	464	1.20	418.72	414	9	62.2		AC-228
1	238.65*	1617	340	1.09	477.11	472	18	6.3	1.36E+00	PB-212
1	241.13	207	265	1.12	482.08	472	18	35.8		
1	242.08	236	252	1.13	483.97	472	18	30.1		PB-214
0	270.12	186	328	0.94	540.12	535	10	39.4		RA-223
										AC-228
0	277.32	64	264	1.02	554.54	551	8	90.5		TL-208
0	295.29	656	289	1.20	590.52	586	11	12.7		PB-214
0	299.75	75	243	1.10	599.44	597	8	75.6		PB-212
0	327.81	81	201	1.39	655.63	652	8	64.9		
0	338.35*	337	285	1.24	676.74	671	11	22.4		AC-228
0	351.79*	1013	205	1.16	703.64	697	11	8.4		PB-214
0	409.57	63	220	1.70	819.33	814	11	93.9		AC-228
0	462.74	112	128	1.56	925.80	920	10	42.0		AC-228
0	510.81*	147	256	2.03	1022.03	1016	17	57.0		TL-208
0	583.02*	563	126	1.35	1166.61	1162	10	11.4		TL-208
0	609.09*	770	156	1.47	1218.80	1213	13	9.9		BI-214
0	727.34	137	85	1.57	1455.56	1450	11	31.1		BI-212
0	769.49	132	90	5.69	1539.93	1531	18	38.6		BI-214
0	795.29	67	77	1.46	1591.58	1584	13	59.5		AC-228
0	860.35	80	68	1.67	1721.83	1715	13	48.0		TL-208
0	910.93*	385	96	1.62	1823.08	1816	16	15.6		AC-228
0	933.87	28	38	0.71	1869.01	1865	8	85.8		BI-214
2	964.10	57	49	2.06	1929.52	1923	22	63.7	1.12E+00	AC-228
2	968.65*	219	67	1.78	1938.64	1923	22	19.5		AC-228
0	1120.31	135	80	1.55	2242.23	2235	12	30.8		BI-214
0	1237.57	74	27	1.47	2476.94	2471	12	36.3		BI-214
0	1381.26	114	48	13.22	2764.57	2748	40	45.3		
0	1460.22*	147	48	1.93	2922.60	2915	19	27.8		K-40
0	1729.09	28	17	1.14	3460.75	3454	10	67.9		BI-214
0	1763.85*	124	37	2.14	3530.30	3522	20	29.9		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	90.04	228	385	1.10	179.52	164	28	2.11E-02	32.1	2.33E+00	
0	186.22	234	652	1.22	372.13	367	10	2.17E-02	44.0	3.03E+00	
1	241.13	207	265	1.12	482.08	472	18	1.92E-02	35.8	2.64E+00	
0	327.81	81	201	1.39	655.63	652	8	7.48E-03	64.9	2.11E+00	
0	1381.26	114	48	13.22	2764.57	2748	40	1.05E-02	45.3	7.37E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	9.629E-01	2.754E-01	1.770E-01	1.208E-02	5.441
TL-208	2.473E-01	3.760E-02	2.465E-02	2.473E-03	10.035
BI-212	5.073E-01	1.653E-01	1.482E-01	1.425E-02	3.423
PB-212	6.949E-01	6.922E-02	3.606E-02	2.783E-03	19.272
BI-214	6.407E-01	9.119E-02	4.487E-02	4.570E-03	14.280
PB-214	6.697E-01	7.706E-02	4.189E-02	3.305E-03	15.987
RA-223	2.737E-01	1.107E-01	1.163E-01	1.070E-02	2.355
AC-228	7.586E-01	1.255E-01	7.761E-02	4.289E-03	9.774
TH-234	1.365E+00	3.648E-01	3.561E-01	4.155E-02	3.834
NP-237	5.678E-01	1.698E-01	1.703E-01	2.462E-02	3.334
AM-243	1.551E-01	4.838E-02	4.088E-02	8.576E-03	3.795

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.497E-03		1.119E-02	1.877E-02	1.146E-03	-0.240
RH-101	-1.042E-02		1.399E-02	2.244E-02	3.480E-03	-0.464
SB-125	5.826E-03		3.365E-02	5.851E-02	4.798E-03	0.100
CS-137	-1.031E-03		1.445E-02	2.550E-02	2.740E-03	-0.040
EU-155	6.667E-02		4.994E-02	8.767E-02	8.705E-03	0.760
PO-209	9.628E-01		2.262E+00	4.146E+00	7.420E-01	0.232
BI-211	-1.832E-01		3.590E-01	6.083E-01	4.431E-02	-0.301
PA-233	-1.781E-02		2.332E-02	3.911E-02	3.284E-03	-0.455
PA-234M	7.890E-01		1.484E+00	2.709E+00	1.557E-01	0.291
U-235	5.587E-02		8.783E-02	1.489E-01	1.039E-02	0.375
NP-236	1.927E-02		3.005E-02	4.716E-02	5.181E-03	0.409
NP-239	3.038E-02		9.096E-02	1.506E-01	2.032E-02	0.202
AM-241	4.910E-02		8.497E-02	1.365E-01	1.085E-02	0.360
CM-243	1.810E-02		4.488E-02	7.717E-02	8.794E-03	0.235
AM-246	1.033E-02		3.786E-02	6.872E-02	8.458E-03	0.150
CF-249	1.031E-02		1.541E-02	2.736E-02	2.640E-03	0.377

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 17:15:05

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785620_GAMMA2_400MLSAN_16632.CNF

---- Sample Information ----

Sample ID	: OH207-7856-20
Sample Title	: SB-CZ-SS-2092-SD
Sample Quantity	: 6.77100E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16632

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 14:14:47
Decay time	: 53 14:14:47.81	% 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 Wood Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.87	423	757	1.05	149.32	145	15	22.5	1.13E+00	AM-243
										PB-214
										PB-212
3	77.06	714	683	1.03	153.68	145	15	14.0		PB-214
										PB-212
5	87.29*	303	766	1.13	174.05	164	28	32.6	1.17E+00	NP-237
										PB-214
										PB-212
5	92.85*	357	1059	1.64	185.12	164	28	37.2		
0	129.12	115	656	0.95	257.35	255	6	72.6		AC-228
0	186.13*	304	1127	1.25	370.87	366	12	46.4		
0	209.44	299	814	1.20	417.30	411	11	38.8		AC-228
2	238.77*	2592	404	1.13	475.72	468	19	4.7	3.77E+00	PB-212
2	240.92	219	362	1.16	480.01	468	19	41.6		
2	241.91	341	306	1.07	481.98	468	19	21.8		PB-214
0	270.34*	167	566	1.34	538.61	534	11	57.8		RA-223
										AC-228
0	277.61	106	344	1.34	553.09	550	8	63.6		TL-208
0	295.40*	624	483	1.26	588.54	582	12	16.3		PB-214
0	300.67	163	529	1.42	599.03	594	13	60.2		PB-212
0	327.94	135	384	1.16	653.37	649	10	57.0		
0	338.67*	553	463	1.22	674.75	669	13	18.2		AC-228
0	352.16*	1063	332	1.37	701.63	697	10	9.0		PB-214
0	409.85	95	322	1.52	816.59	811	12	78.2		AC-228
0	463.33	97	171	1.32	923.19	920	8	51.0		AC-228
0	510.92*	290	268	1.82	1018.07	1011	15	29.1		TL-208
0	583.37*	798	261	1.37	1162.52	1157	14	11.2		TL-208
0	609.51*	882	169	1.30	1214.64	1209	13	9.2		BI-214
0	727.29	199	113	1.48	1449.58	1445	11	25.1		BI-212
0	768.23	68	100	1.31	1531.25	1528	8	55.8		BI-214
0	795.24	99	116	1.66	1585.15	1578	13	49.5		AC-228
0	841.08	46	93	5.38	1676.61	1670	15	97.8		
0	861.03*	69	113	1.25	1716.44	1709	12	67.3		TL-208
0	911.20*	591	74	1.75	1816.56	1811	12	10.2		AC-228
0	964.50	112	67	1.67	1922.97	1916	12	34.9		AC-228
0	968.99*	345	94	1.79	1931.93	1927	11	15.4		AC-228
0	1119.58*	179	96	1.77	2232.66	2223	20	30.8		BI-214
0	1237.86	75	67	2.02	2468.95	2460	14	50.6		BI-214
0	1407.48	26	28	0.94	2807.96	2804	9	81.8		BI-214
0	1459.68*	427	62	2.11	2912.32	2902	18	13.3		K-40
0	1629.92	41	25	1.55	3252.81	3246	16	62.8		
0	1728.20	30	20	1.66	3449.45	3442	11	68.5		BI-214
0	1762.42*	158	9	1.79	3517.93	3510	18	18.9		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	92.85	357	1059	1.64	185.12	164	28	3.30E-02	37.2	2.71E+00	T
0	186.13	304	1127	1.25	370.87	366	12	2.82E-02	46.4	3.21E+00	
2	240.92	219	362	1.16	480.01	468	19	2.03E-02	41.6	2.78E+00	
0	327.94	135	384	1.16	653.37	649	10	1.25E-02	57.0	2.20E+00	
0	841.08	46	93	5.38	1676.61	1670	15	4.25E-03	97.8	1.01E+00	
0	1629.92	41	25	1.55	3252.81	3246	16	3.75E-03	62.8	6.21E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.194E+00	3.234E-01	1.730E-01	1.114E-02	12.683
TL-208	2.588E-01	3.965E-02	1.869E-02	1.946E-03	13.846
BI-212	5.520E-01	1.510E-01	1.386E-01	1.515E-02	3.984
PB-212	7.898E-01	7.104E-02	3.089E-02	2.360E-03	25.568
BI-214	5.435E-01	7.652E-02	3.402E-02	3.623E-03	15.975
PB-214	5.035E-01	5.951E-02	3.830E-02	2.937E-03	13.147
RA-223	1.751E-01	1.023E-01	9.697E-02	8.627E-03	1.806
AC-228	8.907E-01	1.193E-01	6.607E-02	5.741E-03	13.481
NP-237	3.646E-01	1.274E-01	1.428E-01	1.794E-02	2.554
AM-243	1.178E-01	3.540E-02	3.493E-02	6.963E-03	3.373

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.027E-03		1.008E-02	1.694E-02	9.857E-04	-0.120
RH-101	6.148E-03		1.208E-02	1.978E-02	3.088E-03	0.311
SB-125	2.335E-02		2.848E-02	5.020E-02	4.116E-03	0.465
CS-137	-5.592E-03		1.225E-02	2.088E-02	2.376E-03	-0.268
EU-155	3.862E-02		4.326E-02	7.358E-02	6.890E-03	0.525
PO-209	3.801E-01		2.032E+00	3.591E+00	6.884E-01	0.106
BI-211	-7.322E-02		3.206E-01	5.481E-01	5.365E-02	-0.134
PA-233	-1.002E-02		1.975E-02	3.315E-02	2.670E-03	-0.302
PA-234M	1.004E+00		1.196E+00	2.222E+00	1.735E-01	0.452
TH-234	9.031E-01	+	3.480E-01	3.984E-01	3.984E-02	2.267
U-235	3.454E-02		7.865E-02	1.298E-01	9.476E-03	0.266
NP-236	-1.662E-02		2.723E-02	3.966E-02	3.943E-03	-0.419
NP-239	-1.146E-02		7.303E-02	1.258E-01	1.697E-02	-0.091
AM-241	-1.261E-02		6.061E-02	1.028E-01	6.744E-03	-0.123
CM-243	2.987E-02		3.912E-02	6.639E-02	7.177E-03	0.450
AM-246	2.711E-02		3.531E-02	6.498E-02	8.311E-03	0.417
CF-249	3.157E-03		1.253E-02	2.154E-02	2.064E-03	0.147

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:	9/10/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7854 7857			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7857-PB ✓		9/10/2007 9:00:00 AM	
SCAQC	7857-LD1 ✓ OH207-7857-01	SB-CZ-SS-2093-SD	8/28/2007	
SCAQC	7857-LC1 ✓		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7857-01 ✓	SB-CZ-SS-2093-SD	8/28/2007	
OH207	7857-02 ✓	SB-CZ-SS-2094-SD	8/28/2007	

10/25/07
Radiochemistry Reviewer Date

T M Moore 10/25/2007
QA Reviewer 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
10-20-07 1110 G3	180	OH207	7856	18	—	8-28-07	SB-CZ-SS-2090-SD	Soil	410.5 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2:19 G1	180			19	—		2091-SD		506.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2:38 G2	180			20	—		2092-SD		677.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
1711 10-20-07 G3 af	180	SCAQC	7857	PB1	—	9-10-07 0900	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 ☐
10-20-07 1739 G1 af	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 ☐
10-20-07 1748 G2 af	180			LD1	—	8-28-07	DUP 7857-01	Soil	522.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2100 G1 af	180	OH207	7857	01	—		SB-CZ-SS-2093-SD		522.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2101 G2 af	180			02	—		SB-CZ-SS-2094-SD		542.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-20-07 2102 G3 af	180	SCAQC	7858	PB1	—	9-10-07 0900	PREP BLK	Liquid	460 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
10-21-07 0011 G1 af	60	SCAQC	7858	LC1	—	9-10-07 0900	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 ☐

Gamma1 = G1
Gamma2 = G2

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

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 20:41:57

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7857PB1_GAMMA3_400MLSA_16636.CNF

---- Sample Information ----

Sample ID	: SCAQC-7857-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16636		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 20-OCT-2007 17:41:42
Decay time	: 40 08:41:42.46	% 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.30*	61	165	1.62	140.63	134	12	105.2		TH-234
0	92.54*	91	247	1.44	205.43	199	14	88.0		TH-234
0	185.64*	69	143	1.19	411.80	406	14	87.0		
0	609.00*	49	30	1.43	1350.16	1342	15	60.3		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.64	69	143	1.19	411.80	406	14	6.38E-03	87.0	2.82E+00	
0	609.00	49	30	1.43	1350.16	1342	15	4.56E-03	60.3	1.13E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
TH-234	2.972E-01	2.628E-01	2.341E-01	2.096E-02	1.269

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	-1.997E-02		1.563E-01	3.043E-01	1.790E-02	-0.066
CO-60	8.610E-04		1.270E-02	2.368E-02	1.441E-03	0.036
RH-101	-1.129E-02		1.255E-02	2.019E-02	3.116E-03	-0.559
SB-125	9.446E-03		3.162E-02	5.796E-02	4.792E-03	0.163
CS-137	1.721E-02		1.417E-02	2.767E-02	1.992E-03	0.622
EU-155	1.804E-03		3.215E-02	5.659E-02	5.322E-03	0.032
TL-208	8.583E-03		1.515E-02	2.846E-02	2.265E-03	0.302
PO-209	-1.100E+00		2.560E+00	4.475E+00	8.245E-01	-0.246
BI-211	1.187E-02		3.543E-01	6.332E-01	4.560E-02	0.019
BI-212	1.288E-01		1.003E-01	1.996E-01	1.449E-02	0.645
PB-212	-7.360E-03		2.316E-02	3.945E-02	2.949E-03	-0.187
BI-214	5.926E-02	+	3.601E-02	5.378E-02	4.098E-03	1.102
PB-214	-5.123E-03		2.740E-02	4.575E-02	3.640E-03	-0.112
RA-223	-1.569E-02		6.574E-02	1.111E-01	9.832E-03	-0.141
AC-228	-5.562E-03		5.238E-02	9.630E-02	6.771E-03	-0.058
PA-233	8.224E-03		2.264E-02	3.989E-02	3.256E-03	0.206
PA-234M	9.772E-01		1.759E+00	3.328E+00	2.272E-01	0.294
U-235	-3.318E-02		7.333E-02	1.246E-01	9.245E-03	-0.266
NP-236	8.801E-03		2.232E-02	3.315E-02	3.164E-03	0.265
NP-237	5.067E-02		6.544E-02	1.048E-01	1.169E-02	0.483
NP-239	-4.107E-02		8.285E-02	1.381E-01	1.847E-02	-0.297
AM-241	4.704E-03		2.167E-02	3.262E-02	2.064E-03	0.144
AM-243	-1.133E-03		1.208E-02	1.956E-02	3.761E-03	-0.058
CM-243	6.491E-03		2.935E-02	5.204E-02	5.608E-03	0.125
AM-246	6.285E-03		4.109E-02	7.808E-02	9.856E-03	0.080
CF-249	1.163E-03		1.428E-02	2.567E-02	2.556E-03	0.045

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 18:40:18

Configuration :
SYS$SYSDEVICE: [GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7857LC1_GAMMA1_400MLSA_16634.CNF

---- Sample Information ----

Sample ID	: SCAQC-7857-LC1
Sample Title	: CTRL SAMP
Sample Quantity	: 6.40000E+02 G
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16634

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 20-OCT-2007 17:39:45
Decay time	: 40 08:39:45.76	% dead time	: 0.4%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:15.02

---- 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
6	58.36	1126	6637	1.44	116.09	112	15	35.6	1.76E+00	
6	59.69	19342	3151	0.90	118.75	112	15	1.7		AM-241
0	88.12	10084	5018	1.01	175.68	170	12	3.5		
0	122.19	1842	3477	1.01	243.90	239	10	12.9		
0	136.47	297	2747	1.22	272.51	269	8	62.2		
0	238.55*	259	2249	1.34	476.90	473	7	62.1		
0	351.98*	183	1625	1.50	704.03	701	8	77.8		
0	510.77*	127	1170	1.47	1021.96	1018	9	99.2		TL-208
0	582.78*	155	951	1.28	1166.14	1163	9	73.9		TL-208
0	609.00*	189	1004	2.04	1218.62	1214	10	64.4		
0	661.44	26853	1614	1.49	1323.62	1316	16	1.4		CS-137
0	1172.75	21648	792	1.85	2347.20	2338	19	1.5		CO-60
0	1331.94	19808	305	1.96	2665.86	2657	19	1.5		CO-60
0	1762.66*	38	24	4.29	3527.92	3518	16	67.4		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	58.36	1126	6637	1.44	116.09	112	15	3.13E-01	35.6	8.41E-01	
0	88.12	10084	5018	1.01	175.68	170	12	2.80E+00	3.5	2.26E+00	T
0	122.19	1842	3477	1.01	243.90	239	10	5.12E-01	12.9	3.05E+00	
0	136.47	297	2747	1.22	272.51	269	8	8.25E-02	62.2	3.16E+00	
0	238.55	259	2249	1.34	476.90	473	7	7.19E-02	62.1	2.66E+00	T
0	351.98	183	1625	1.50	704.03	701	8	5.08E-02	77.8	1.99E+00	T
0	609.00	189	1004	2.04	1218.62	1214	10	5.26E-02	64.4	1.29E+00	T
0	1762.66	38	24	4.29	3527.92	3518	16	1.04E-02	67.4	6.10E-01	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.129E+01	1.966E+00	9.150E-02	5.971E-03	341.968
CS-137	3.060E+01	3.315E+00	1.590E-01	1.708E-02	192.471
TL-208	1.611E-01	1.202E-01	1.529E-01	1.535E-02	1.053
AM-241	7.025E+01	5.712E+00	1.001E+00	7.959E-02	70.173

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	4.082E-01		3.852E-01	7.360E-01	5.024E-02	0.555
RH-101	-9.364E-02		7.929E-02	1.238E-01	1.920E-02	-0.756
SB-125	-3.297E-01		2.725E-01	4.415E-01	3.621E-02	-0.747
EU-155	4.779E-02		2.572E-01	4.310E-01	4.279E-02	0.111
PO-209	7.368E+00		2.498E+01	4.196E+01	7.510E+00	0.176
BI-211	-2.247E+00		2.990E+00	4.946E+00	3.604E-01	-0.454
BI-212	1.427E-01		7.042E-01	1.205E+00	1.159E-01	0.118
PB-212	2.637E-01	+	1.650E-01	2.413E-01	1.862E-02	1.093
BI-214	3.741E-01	+	2.441E-01	3.078E-01	3.135E-02	1.215
PB-214	2.868E-01	+	2.242E-01	3.095E-01	2.443E-02	0.927
RA-223	3.829E-01		4.183E-01	7.225E-01	6.649E-02	0.530
AC-228	5.526E-01		4.657E-01	7.944E-01	4.390E-02	0.696
PA-233	-7.081E-03		1.572E-01	2.665E-01	2.238E-02	-0.027
PA-234M	-2.448E-01		1.389E+01	2.306E+01	1.326E+00	-0.011
TH-234	-4.627E-01		1.258E+00	1.887E+00	2.202E-01	-0.245
U-235	-1.059E-01		4.438E-01	7.280E-01	5.083E-02	-0.146
NP-236	2.266E-02		1.487E-01	2.499E-01	2.745E-02	0.091
NP-237	1.548E+01		2.372E+00	1.563E+00	2.260E-01	9.907
NP-239	-1.188E-01		5.615E-01	8.971E-01	1.210E-01	-0.132
AM-243	5.719E-02		1.478E-01	2.505E-01	5.256E-02	0.228
CM-243	-7.941E-04		2.384E-01	3.986E-01	4.543E-02	-0.002
AM-246	1.438E-01		4.230E-01	7.036E-01	8.660E-02	0.204
CF-249	-5.281E-02		1.078E-01	1.788E-01	1.725E-02	-0.295

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 20-OCT-2007 20:40:52

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7857LD1_GAMMA2_400MLSA_16635.CNF

---- Sample Information ----

Sample ID : SCAQC-7857-LD1
Sample Title : DUP 7857-01
Sample Quantity : 5.22000E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16635

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 17:40:35
Decay time	: 53 17:40:35.31	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.44

---- 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 Moal Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	73.14	89	508	0.95	145.87	142	17	87.9	3.34E+00	
1	74.81	427	533	1.08	149.20	142	17	20.3		AM-243
										PB-214
										PB-212
1	77.12	534	686	1.09	153.80	142	17	18.4		PB-214
										PB-212
5	87.25*	225	576	1.07	173.97	163	20	36.4	4.18E+00	NP-237
										PB-214
										PB-212
5	89.98*	191	670	1.24	179.41	163	20	46.7		
0	93.07*	403	885	1.50	185.57	182	11	31.1		
0	128.90	83	607	0.84	256.91	254	7	101.5		AC-228
0	185.98*	367	813	1.21	370.57	365	12	33.3		
0	209.25	177	643	1.25	416.91	413	10	55.8		AC-228
5	238.76*	1748	382	1.08	475.70	471	17	5.9	2.38E+00	PB-212
5	241.23	188	415	1.45	480.62	471	17	59.2		
5	242.18	312	351	1.41	482.52	471	17	27.1		PB-214
0	270.50*	113	383	1.62	538.93	535	9	66.4		RA-223
										AC-228
0	277.71	116	302	1.39	553.29	550	8	55.0		TL-208
0	295.45*	627	345	1.22	588.64	584	9	13.5		PB-214
0	300.35	113	358	1.20	598.40	594	10	65.9		PB-212
0	328.73	98	329	1.17	654.95	650	11	74.1		
0	338.61*	415	288	1.25	674.63	669	11	18.8		AC-228
0	352.11*	1199	413	1.20	701.53	695	14	9.3		PB-214
0	462.99	141	193	1.12	922.51	917	12	42.8		AC-228
0	511.08*	253	240	1.41	1018.38	1010	16	32.4		TL-208
0	583.30*	557	150	1.29	1162.38	1156	13	12.5		TL-208
0	609.50*	909	141	1.49	1214.62	1208	15	8.9		BI-214
1	661.77	384	73	1.73	1318.88	1312	23	13.5	1.50E+00	CS-137
1	665.91	62	82	1.73	1327.13	1312	23	60.0		
0	727.76	130	134	1.57	1450.51	1444	14	42.0		BI-212
0	794.61	90	66	1.97	1583.88	1578	12	41.8		AC-228
0	860.53*	88	56	1.39	1715.43	1710	13	41.5		TL-208
0	911.16*	432	67	1.69	1816.48	1809	16	13.0		AC-228
0	934.39	71	67	2.19	1862.87	1853	16	57.3		BI-214
1	964.96	83	64	1.93	1923.88	1918	20	44.7	1.82E+00	AC-228
1	968.85*	220	53	1.88	1931.65	1918	20	19.6		AC-228
0	1120.03*	192	39	2.04	2233.54	2226	13	19.9		BI-214
0	1238.21	71	67	2.49	2469.64	2464	16	58.1		BI-214
0	1377.28	54	44	1.07	2747.57	2738	16	61.3		BI-214
0	1401.87	36	17	1.36	2796.74	2790	14	59.6		BI-214
0	1407.45	40	10	1.65	2807.90	2804	10	43.3		BI-214
0	1459.59*	337	28	2.08	2912.13	2903	16	13.4		K-40
0	1619.72	23	22	1.25	3232.39	3226	14	93.5		BI-212
0	1628.82	49	8	3.38	3250.60	3242	16	38.5		
0	1762.79*	165	22	1.92	3518.67	3511	17	20.7		BI-214
0	1845.33	25	11	2.07	3683.88	3678	11	65.0		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	73.14	89	508	0.95	145.87	142	17	8.22E-03	87.9	1.87E+00	
5	89.98	191	670	1.24	179.41	163	20	1.77E-02	46.7	2.61E+00	
0	93.07	403	885	1.50	185.57	182	11	3.73E-02	31.1	2.71E+00	T
0	185.98	367	813	1.21	370.57	365	12	3.40E-02	33.3	3.21E+00	
5	241.23	188	415	1.45	480.62	471	17	1.74E-02	59.2	2.78E+00	
0	328.73	98	329	1.17	654.95	650	11	9.10E-03	74.1	2.20E+00	
1	665.91	62	82	1.73	1327.13	1312	23	5.71E-03	60.0	1.21E+00	
0	1628.82	49	8	3.38	3250.60	3242	16	4.54E-03	38.5	6.22E-01	
0	1845.33	25	11	2.07	3683.88	3678	11	2.32E-03	65.0	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.243E+00	3.326E-01	1.990E-01	1.281E-02	11.268
CS-137	1.785E-01	3.150E-02	2.165E-02	2.464E-03	8.241
TL-208	2.342E-01	3.814E-02	2.153E-02	2.242E-03	10.878
BI-212	4.672E-01	2.027E-01	1.665E-01	1.821E-02	2.806
PB-212	6.911E-01	6.663E-02	3.690E-02	2.820E-03	18.727
BI-214	7.269E-01	1.009E-01	4.291E-02	4.569E-03	16.941
PB-214	7.366E-01	8.881E-02	4.393E-02	3.368E-03	16.770
RA-223	1.538E-01	1.030E-01	1.147E-01	1.021E-02	1.340
AC-228	8.437E-01	1.320E-01	7.051E-02	6.127E-03	11.966
NP-237	3.516E-01	1.355E-01	1.961E-01	2.465E-02	1.793
AM-243	1.541E-01	4.383E-02	4.075E-02	8.123E-03	3.781

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.731E-04		1.153E-02	2.110E-02	1.166E-03	0.037
RH-101	-8.400E-03		1.463E-02	2.312E-02	3.609E-03	-0.363
SB-125	5.278E-03		3.434E-02	5.890E-02	4.829E-03	0.090
EU-155	9.343E-02		5.078E-02	8.821E-02	8.259E-03	1.059
PO-209	-4.047E-02		2.423E+00	4.241E+00	8.130E-01	-0.010
BI-211	-7.209E-02		3.396E-01	5.864E-01	5.740E-02	-0.123
PA-233	-5.506E-03		2.380E-02	4.051E-02	3.263E-03	-0.136
PA-234M	5.859E-01		1.487E+00	2.691E+00	2.101E-01	0.218
TH-234	1.324E+00	+	4.320E-01	4.844E-01	4.845E-02	2.733
U-235	1.047E-01		9.174E-02	1.545E-01	1.128E-02	0.678
NP-236	4.223E-02		3.053E-02	4.800E-02	4.772E-03	0.880
NP-239	3.462E-02		8.677E-02	1.522E-01	2.054E-02	0.228
AM-241	8.038E-02		7.293E-02	1.284E-01	8.424E-03	0.626
CM-243	2.382E-02		4.533E-02	7.690E-02	8.314E-03	0.310
AM-246	-4.640E-03		4.046E-02	6.987E-02	8.937E-03	-0.066
CF-249	7.011E-03		1.543E-02	2.682E-02	2.570E-03	0.261

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-OCT-2007 00:00:21

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785701_GAMMA1_400MLSAN_16637.CNF

---- Sample Information ----

Sample ID : OH207-7857-01 SS TMM 10/23/2007
Sample Title : SB-CZ-AA-2093-SD
Sample Quantity : 5.22000E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16637

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

Collection Date : 28-AUG-2007 00:00:00 Acquisition date : 20-OCT-2007 21:00:02
Decay time : 53 21:00:02.18 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:02.59

---- 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: TM Moore Date: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	74.92	444	650	1.50	149.25	142	15	23.7	1.72E+00	AM-243
										PB-214
										PB-212
5	77.21*	505	381	0.87	153.83	142	15	15.0		PB-214
										PB-212
0	87.15	137	636	0.80	173.73	171	7	63.4		NP-237
										PB-214
										PB-212
2	89.87	121	440	0.88	179.19	177	13	55.1	1.71E+00	
0	129.21	76	556	0.99	257.97	255	7	106.1		AC-228
0	185.95*	371	632	1.13	371.59	367	10	28.0		
0	209.39	154	547	0.81	418.52	415	9	56.9		AC-228
4	238.65*	1779	405	1.09	477.10	473	18	6.1	2.99E+00	PB-212
4	241.74	468	458	1.71	483.29	473	18	23.0		PB-214
0	270.03	215	412	1.36	539.93	534	12	40.2		RA-223
										AC-228
0	295.12	684	351	1.30	590.17	585	11	13.1		PB-214
0	300.01	85	272	0.79	599.96	596	8	70.3		PB-212
1	327.62	96	227	1.38	655.25	649	14	59.2	2.65E+00	
1	328.37	64	221	1.38	656.75	649	14	87.7		
0	338.28*	364	333	1.25	676.60	672	11	22.2		AC-228
0	351.85*	1200	337	1.25	703.76	697	14	8.7		PB-214
0	409.54	58	225	1.03	819.27	814	10	100.3		AC-228
0	462.31	132	165	1.86	924.93	920	12	42.3		AC-228
0	511.07*	278	262	2.26	1022.56	1014	20	33.4		TL-208
0	582.91*	651	172	1.34	1166.38	1158	16	12.0		TL-208
0	609.07*	856	136	1.51	1218.77	1213	12	8.8		BI-214
0	661.46	333	95	1.49	1323.65	1318	10	15.5		CS-137
0	727.12	169	94	1.27	1455.10	1448	14	28.9		BI-212
0	767.93	94	80	1.35	1536.81	1532	10	41.8		BI-214
0	786.40	59	68	1.88	1573.79	1568	12	61.7		BI-212
0	794.86	112	85	2.38	1590.73	1582	18	43.2		AC-228
0	859.87	94	48	1.45	1720.86	1714	13	37.1		TL-208
0	910.80*	499	69	1.70	1822.82	1815	14	11.6		AC-228
0	933.34	56	43	1.63	1867.94	1863	10	52.3		BI-214
1	964.31	101	64	1.87	1929.95	1920	30	35.5	9.04E-01	AC-228
1	968.66*	238	59	1.87	1938.66	1920	30	18.7		AC-228
0	1120.12	183	60	2.34	2241.86	2235	16	24.1		BI-214
0	1238.17	69	41	1.83	2478.16	2473	10	43.4		BI-214
0	1378.28	46	57	2.41	2758.60	2746	17	79.7		BI-214
0	1460.40*	317	59	2.08	2922.96	2913	18	16.2		K-40
0	1729.02	49	4	1.53	3460.61	3453	16	33.7		BI-214
0	1763.66*	132	40	2.22	3529.92	3522	20	28.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.87	121	440	0.88	179.19	177	13	1.12E-02	55.1	2.32E+00	
0	185.95	371	632	1.13	371.59	367	10	3.44E-02	28.0	3.03E+00	
1	327.62	96	227	1.38	655.25	649	14	8.92E-03	59.2	2.11E+00	
1	328.37	64	221	1.38	656.75	649	14	5.97E-03	87.7	2.10E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.016E+00	3.540E-01	2.129E-01	1.453E-02	9.469
CS-137	1.554E-01	2.927E-02	2.544E-02	2.734E-03	6.106
TL-208	2.775E-01	4.348E-02	2.128E-02	2.136E-03	13.040
BI-212	6.041E-01	1.841E-01	1.531E-01	1.472E-02	3.947
PB-212	7.410E-01	7.279E-02	3.846E-02	2.968E-03	19.268
BI-214	6.908E-01	9.311E-02	4.572E-02	4.656E-03	15.111
PB-214	7.689E-01	9.040E-02	4.320E-02	3.409E-03	17.799
RA-223	3.072E-01	1.266E-01	1.156E-01	1.064E-02	2.657
AC-228	9.540E-01	1.223E-01	7.217E-02	3.988E-03	13.220
NP-237	2.413E-01	1.569E-01	2.106E-01	3.046E-02	1.145
AM-243	1.868E-01	5.917E-02	4.218E-02	8.850E-03	4.429

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.125E-03		1.027E-02	1.727E-02	1.054E-03	-0.239
RH-101	-4.290E-03		1.407E-02	2.303E-02	3.573E-03	-0.186
SB-125	1.266E-02		3.524E-02	6.160E-02	5.052E-03	0.205
EU-155	8.687E-02		5.039E-02	8.876E-02	8.813E-03	0.979
PO-209	-1.888E-01		2.386E+00	4.177E+00	7.476E-01	-0.045
BI-211	-4.486E-01		3.767E-01	6.018E-01	4.385E-02	-0.745
PA-233	5.757E-03		2.331E-02	4.096E-02	3.439E-03	0.141
PA-234M	8.493E-01		1.457E+00	2.667E+00	1.533E-01	0.318
TH-234	8.363E-01		3.105E-01	5.038E-01	5.878E-02	1.660
U-235	-3.459E-02		9.268E-02	1.520E-01	1.061E-02	-0.228
NP-236	-4.566E-03		2.926E-02	4.948E-02	5.436E-03	-0.092
NP-239	-1.927E-02		9.136E-02	1.479E-01	1.995E-02	-0.130
AM-241	-5.583E-02		7.849E-02	1.330E-01	1.058E-02	-0.420
CM-243	-5.174E-02		4.640E-02	7.522E-02	8.572E-03	-0.688
AM-246	7.748E-06		4.011E-02	7.035E-02	8.659E-03	0.000
CF-249	2.590E-03		1.557E-02	2.698E-02	2.602E-03	0.096

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 21-OCT-2007 00:01:35

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207785702_GAMMA2_400MLSAN_16638.CNF

---- Sample Information ----

Sample ID	: OH207-7857-02		
Sample Title	: SB-CZ-SS-2094-SD		
Sample Quantity	: 5.42800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16638		

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

Collection Date	: 28-AUG-2007 00:00:00	Acquisition date	: 20-OCT-2007 21:01:16
Decay time	: 53 21:01:16.82	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.75

---- 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: 10/23/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.80	572	742	1.04	149.19	143	16	17.2	1.63E+00	AM-243
										PB-214
										PB-212
3	77.07	943	831	1.12	153.71	143	16	12.5		PB-214
										PB-212
5	87.12*	526	887	1.50	173.72	164	28	22.4	2.10E+00	NP-237
										PB-214
										PB-212
5	89.90*	371	762	1.39	179.25	164	28	28.6		
5	93.02*	499	912	1.64	185.45	164	28	25.5		
0	105.29	128	758	1.38	209.90	206	8	76.4		EU-155
0	129.01	216	1017	1.10	257.13	253	10	56.9		AC-228
0	185.93*	377	732	1.16	370.47	366	9	28.4		
0	209.32	210	741	1.25	417.07	413	9	48.7		AC-228
5	238.76*	2782	514	1.10	475.71	471	18	4.7	1.35E+00	PB-212
5	241.60	588	623	1.88	481.35	471	18	24.0		PB-214
0	270.46*	256	518	1.29	538.84	534	10	35.7		RA-223
										AC-228
0	277.38	145	399	1.14	552.63	549	9	52.5		TL-208
3	295.40*	569	270	1.13	588.53	583	22	12.9	1.18E+00	PB-214
3	300.20	220	308	1.29	598.09	583	22	30.7		PB-212
0	328.26	146	276	1.57	654.01	650	8	42.8		
0	338.59*	628	400	1.20	674.59	669	10	14.4		AC-228
0	352.16*	974	297	1.30	701.63	697	10	9.3		PB-214
0	409.60	100	199	1.91	816.11	812	9	54.5		AC-228
0	463.66	156	246	1.21	923.85	918	12	43.6		AC-228
0	481.07	30	109	1.19	958.55	956	7	119.7		
0	511.08*	362	301	1.66	1018.37	1010	17	25.7		TL-208
0	583.51*	1035	194	1.52	1162.79	1157	15	8.7		TL-208
0	609.50*	766	200	1.46	1214.63	1207	14	10.8		BI-214
0	727.44	230	142	1.46	1449.86	1444	14	25.5		BI-212
0	768.14	74	90	1.42	1531.07	1527	8	49.8		BI-214
0	786.20	49	117	1.31	1567.10	1562	11	90.7		BI-212
0	794.97	130	80	1.36	1584.60	1578	12	32.8		AC-228
0	835.48	51	86	1.23	1665.44	1662	10	72.0		
0	840.57	44	89	1.14	1675.60	1671	12	94.8		
0	860.64*	154	73	1.53	1715.64	1710	14	28.9		TL-208
0	911.09*	710	71	1.62	1816.34	1809	15	9.2		AC-228
1	964.69	153	48	1.93	1923.35	1914	36	25.4	1.00E+00	AC-228
1	968.95*	417	44	1.79	1931.85	1914	36	11.7		AC-228
0	1120.06*	177	45	1.68	2233.61	2227	13	22.0		BI-214
0	1237.20	85	45	2.55	2467.61	2460	14	40.0		BI-214
0	1459.81*	552	49	1.82	2912.57	2904	18	10.6		K-40
0	1589.39	125	60	5.48	3171.72	3158	29	41.1		AC-228
0	1629.33	52	15	2.09	3251.62	3245	15	42.7		
0	1727.80	32	15	1.62	3448.64	3443	12	59.4		BI-214
0	1762.67*	151	23	1.78	3518.43	3509	18	22.5		BI-214
0	1845.93	22	22	1.39	3685.08	3676	15	103.1		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	89.90	371	762	1.39	179.25	164	28	3.44E-02	28.6	2.61E+00	
5	93.02	499	912	1.64	185.45	164	28	4.62E-02	25.5	2.71E+00	T
0	185.93	377	732	1.16	370.47	366	9	3.49E-02	28.4	3.21E+00	
0	328.26	146	276	1.57	654.01	650	8	1.35E-02	42.8	2.20E+00	
0	481.07	30	109	1.19	958.55	956	7	2.82E-03	****	1.59E+00	
0	835.48	51	86	1.23	1665.44	1662	10	4.77E-03	72.0	1.01E+00	
0	840.57	44	89	1.14	1675.60	1671	12	4.05E-03	94.8	1.01E+00	
0	1629.33	52	15	2.09	3251.62	3245	15	4.81E-03	42.7	6.21E-01	
0	1845.93	22	22	1.39	3685.08	3676	15	2.03E-03	****	5.62E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.536E+00	4.381E-01	1.932E-01	1.244E-02	18.303
EU-155	9.357E-02	7.206E-02	8.739E-02	8.183E-03	1.071
TL-208	4.188E-01	5.673E-02	2.302E-02	2.397E-03	18.191
BI-212	7.978E-01	2.212E-01	1.781E-01	1.947E-02	4.479
PB-212	1.058E+00	9.462E-02	3.939E-02	3.010E-03	26.846
BI-214	5.890E-01	8.921E-02	4.724E-02	5.030E-03	12.468
PB-214	5.755E-01	6.953E-02	4.802E-02	3.682E-03	11.984
RA-223	3.356E-01	1.236E-01	1.263E-01	1.123E-02	2.658
AC-228	1.335E+00	1.689E-01	7.493E-02	6.511E-03	17.821
NP-237	7.893E-01	2.024E-01	1.835E-01	2.305E-02	4.302
AM-243	1.987E-01	5.234E-02	4.399E-02	8.769E-03	4.515

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.735E-04		1.303E-02	2.166E-02	1.260E-03	-0.036
RH-101	-3.071E-04		1.530E-02	2.470E-02	3.857E-03	-0.012
SB-125	-3.019E-03		3.630E-02	6.126E-02	5.022E-03	-0.049
CS-137	1.496E-02		1.522E-02	2.781E-02	3.164E-03	0.538
PO-209	-2.404E-02		2.441E+00	4.260E+00	8.168E-01	-0.006
BI-211	5.807E-01		3.952E-01	6.832E-01	6.688E-02	0.850
PA-233	-7.239E-03		2.476E-02	4.195E-02	3.379E-03	-0.173
PA-234M	9.708E-01		1.566E+00	2.851E+00	2.226E-01	0.341
TH-234	1.578E+00	+	4.317E-01	5.038E-01	5.039E-02	3.132
U-235	8.734E-02		9.480E-02	1.584E-01	1.156E-02	0.551
NP-236	4.022E-02		3.390E-02	5.251E-02	5.219E-03	0.766
NP-239	1.466E-02		9.187E-02	1.596E-01	2.154E-02	0.092
AM-241	1.614E-02		7.511E-02	1.289E-01	8.458E-03	0.125
CM-243	3.291E-02		5.410E-02	8.224E-02	8.891E-03	0.400
AM-246	-1.027E-02		4.509E-02	7.632E-02	9.762E-03	-0.135
CF-249	8.989E-03		1.606E-02	2.790E-02	2.673E-03	0.322

COUNTING RAW DATA

GPL Laboratories, LLLP
Frederick, MD

GPL Laboratories, LLLP

Analysis Run Log

Project: 709141 Instrument: V3050

Data File Name: 071001V.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
STD0		10/01/07	1:11 PM
STD1		10/01/07	1:26 PM
STD2		10/01/07	1:35 PM
STD3		10/01/07	1:43 PM
STD4		10/01/07	1:50 PM
IVICV1		10/01/07	1:56 PM
BIICB1		10/01/07	2:04 PM
CVCCV		10/01/07	2:13 PM
BCCCB		10/01/07	2:21 PM
REPORT LMT		10/01/07	2:32 PM
IAICSA		10/01/07	2:49 PM
IBICSAB		10/01/07	2:58 PM
CVCCV2		10/01/07	3:20 PM
BCCCB2		10/01/07	3:31 PM
CVCCV3		10/01/07	5:06 PM
BCCCB3		10/01/07	5:14 PM
CVCCV4		10/01/07	6:52 PM
BCCCB4		10/01/07	7:00 PM
CVCCV5		10/01/07	8:38 PM
BCCCB5		10/01/07	8:46 PM
CVCCV6		10/01/07	10:24 PM
BCCCB6		10/01/07	10:32 PM
CVCCV7		10/02/07	12:07 AM
BCCCB7		10/02/07	12:15 AM
CVCCV8		10/02/07	1:59 AM
BCCCB8		10/02/07	2:07 AM
BLK100660	BLK100660	10/02/07	3:31 AM
CVCCV9		10/02/07	3:39 AM
BCCCB9		10/02/07	3:48 AM
BKS100660	BKS100660	10/02/07	3:56 AM
S 709141-001-001-1/1	SB-CZ-SS-2073-ST	10/02/07	4:04 AM
SP709141-001-001-1/1	SB-CZ-SS-2073-ST MS	10/02/07	4:13 AM
SD709141-001-001-1/1	SB-CZ-SS-2073-ST MSD	10/02/07	4:21 AM
SE709141-001-001-1/1	SB-CZ-SS-2073-ST	10/02/07	4:38 AM
S 709141-002-002-1/1	SB-CZ-SS-2074-ST	10/02/07	4:46 AM
S 709141-003-003-1/1	SB-CZ-SS-2075-ST	10/02/07	4:55 AM
S 709141-004-004-1/1	SB-CZ-SS-2076-ST	10/02/07	5:03 AM
S 709141-005-005-1/1	SB-CZ-SS-2077-ST	10/02/07	5:11 AM
CVCCV10		10/02/07	5:25 AM

GPL Laboratories, LLLP

Analysis Run Log

Project: 709141 Instrument: V3050

Data File Name: 071001V.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
BCCCB10		10/02/07	5:34 AM
S 709141-006-006-1/1	SB-CZ-SS-2078-ST	10/02/07	5:42 AM
S 709141-007-007-1/1	SB-CZ-SS-2079-ST	10/02/07	5:51 AM
S 709141-008-008-1/1	SB-CZ-SS-2080-ST	10/02/07	5:59 AM
S 709141-009-009-1/1	SB-CZ-SS-2081-ST	10/02/07	6:07 AM
S 709141-010-010-1/1	SB-CZ-SS-2082-ST	10/02/07	6:16 AM
S 709141-011-011-1/1	SB-CZ-SS-2083-ST	10/02/07	6:24 AM
S 709141-012-012-1/1	SB-CZ-SS-2084-ST	10/02/07	6:32 AM
CVCCV11		10/02/07	7:12 AM
BCCCB11		10/02/07	7:20 AM

GPL Laboratories, LLLP

Analysis Run Log

Project: 709141 Instrument: P3050

Data File Name: 071004.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
STD0		10/04/07	11:00 AM
STD1		10/04/07	11:09 AM
STD2		10/04/07	11:19 AM
STD3		10/04/07	11:28 AM
STD4		10/04/07	11:35 AM
IVICV		10/04/07	11:41 AM
IBICB		10/04/07	11:50 AM
CVCCV1		10/04/07	11:59 AM
BCCCB1		10/04/07	12:09 PM
PQL		10/04/07	12:31 PM
IAICSAI		10/04/07	12:41 PM
IBICSABI		10/04/07	12:50 PM
CVCCV2		10/04/07	1:15 PM
BCCCB2		10/04/07	1:25 PM
BLK100650	BLK100650	10/04/07	1:34 PM
BKS100650	BKS100650	10/04/07	1:44 PM
S 709141-013-013-1/1	SB-CZ-SS-2085-ST	10/04/07	1:53 PM
SP709141-013-013-1/1	SB-CZ-SS-2085-ST MS	10/04/07	2:02 PM
SD709141-013-013-1/1	SB-CZ-SS-2085-ST MSD	10/04/07	2:12 PM
SE709141-013-013-1/1	SB-CZ-SS-2085-ST	10/04/07	2:30 PM
S 709141-014-014-1/1	SB-CZ-SS-2086-ST	10/04/07	2:39 PM
S 709141-015-015-1/1	SB-CZ-SS-2087-ST	10/04/07	2:49 PM
S 709141-016-016-1/1	SB-CZ-SS-2088-ST	10/04/07	2:58 PM
CVCCV3		10/04/07	3:10 PM
BCCCB3		10/04/07	3:20 PM
S 709141-017-017-1/1	SB-CZ-SS-2089-ST	10/04/07	3:29 PM
S 709141-018-018-1/1	SB-CZ-SS-2090-ST	10/04/07	3:38 PM
S 709141-019-019-1/1	SB-CZ-SS-2091-ST	10/04/07	3:48 PM
S 709141-020-020-1/1	SB-CZ-SS-2092-ST	10/04/07	3:57 PM
S 709141-021-021-1/1	SB-CZ-SS-2093-ST	10/04/07	4:06 PM
S 709141-022-022-1/1	SB-CZ-SS-2094-ST	10/04/07	4:16 PM
S 709141-023-023-1/1	SB-CZ-SS-2073-SD	10/04/07	4:25 PM
S 709141-024-024-1/1	SB-CZ-SS-2074-SD	10/04/07	4:34 PM
S 709141-025-025-1/1	SB-CZ-SS-2075-SD	10/04/07	4:44 PM
S 709141-026-026-1/1	SB-CZ-SS-2076-SD	10/04/07	4:53 PM
CVCCV4		10/04/07	5:06 PM
BCCCB4		10/04/07	5:15 PM
S 709141-027-027-1/1	SB-CZ-SS-2077-SD	10/04/07	5:24 PM
S 709141-028-028-1/1	SB-CZ-SS-2078-SD	10/04/07	5:33 PM

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Analysis Run Log

Project: 709141 Instrument: P3050

Data File Name: 071004.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
S 709141-029-029-1/1	SB-CZ-SS-2079-SD	10/04/07	5:43 PM
S 709141-030-030-1/1	SB-CZ-SS-2080-SD	10/04/07	5:52 PM
S 709141-031-031-1/1	SB-CZ-SS-2081-SD	10/04/07	6:02 PM
S 709141-032-032-1/1	SB-CZ-SS-2082-SD	10/04/07	6:11 PM
CVCCV5		10/04/07	6:45 PM
BCCCB5		10/04/07	6:55 PM
BLK100668	BLK100668	10/04/07	7:07 PM
BKS100668	BKS100668	10/04/07	7:17 PM
S 709141-033-033-1/1	SB-CZ-SS2083-SD	10/04/07	7:26 PM
SP709141-033-033-1/1	SB-CZ-SS2083-SD MS	10/04/07	7:35 PM
SD709141-033-033-1/1	SB-CZ-SS2083-SD MSD	10/04/07	7:45 PM
SE709141-033-033-1/1	SB-CZ-SS2083-SD	10/04/07	8:03 PM
S 709141-034-034-1/1	SB-CZ-SS-2084-SD	10/04/07	8:12 PM
S 709141-035-035-1/1	SB-CZ-SS-2085-SD	10/04/07	8:22 PM
S 709141-036-036-1/1	SB-CZ-SS-2086-SD	10/04/07	8:31 PM
CVCCV6		10/04/07	8:43 PM
BCCCB6		10/04/07	8:53 PM
S 709141-037-037-1/1	SB-CZ-SS-2087-SD	10/04/07	9:02 PM
S 709141-038-038-1/1	SB-CZ-SS-2088-SD	10/04/07	9:12 PM
S 709141-039-039-1/1	SB-CZ-SS-2089-SD	10/04/07	9:21 PM
S 709141-040-040-1/1	SB-CZ-SS-2090-SD	10/04/07	9:30 PM
S 709141-041-041-1/1	SB-CZ-SS-2091-SD	10/04/07	9:39 PM
S 709141-042-042-1/1	SB-CZ-SS-2092-SD	10/04/07	9:49 PM
S 709141-043-043-1/1	SB-CZ-SS-2093-SD	10/04/07	9:58 PM
S 709141-044-044-1/1	SB-CZ-SS-2094-SD	10/04/07	10:07 PM
CVCCV7		10/04/07	10:38 PM
BCCCB7		10/04/07	10:48 PM

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Document Control No: GP_M_196

ICP ANALYSIS LOG

Instrument ID: Trace (375590) Inst. Method: TRACEV2 Nebulizer: CONIKAL Analytical Batch No: 071001V

Profile: 0.014416 Intensity: 7120 At Setting: 465

Workorder	Client	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
709120	EA Engineering		150	S	9-28-07	1LM05.3	
709138	CH2M Hill		151	↓	↓	↓	
709155	↓		↓	↓		↓	Samples 005-012 Rerun; Cr, Fe High in CRI
709133	Shaw	10 of 97	149	W		6010B	
709134	↓		↓	↓		↓	
709150	EA Engineering						
709165	General Physics		↓	↓	↓	↓	
709141	SC&A, Inc.		142	S	9-26-07	6010C	10x on 1-12 lead only
709137	↓		↓	↓	↓	↓	10x on 41-48 lead only

HMM 2/OCT/07

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 41513
S0	129-116-09	ICV	41804	Samples:
S1	41232	CCV	41839	709120-001-037-1/1
S2	41234	ICSA	41853	709138-003-025-1/2
S3	41627	ICSAB	41806	709155-008-065-1/6
S4	41816	CRI	41805	709134-001-010-1/3
S5	—	Low Ck	41820	709141-001-001-1/1
Ints	41746	LR	41855	

Analyst: HMM Date: 2/OCT/07 Reviewed: RA Date: 10-2-07

Supersedes GP_M_189

GPL Laboratories, LLLP

Document Control No: GP_M_196

ICP ANALYSIS LOG

GPL - Maryland Laboratory

ICP Analysis Log

Data File: 071001V.ARC

Seq	Sample Name	Dil	Date	Time
1	STD0	1	10/1/2007	13:11
2	STD0	1	10/1/2007	13:22
3	STD1	1	10/1/2007	13:28
4	STD2	1	10/1/2007	13:35
5	STD3	1	10/1/2007	13:43
6	STD4	1	10/1/2007	13:50
7	VICV	1	10/1/2007	13:58
8	BICB	1	10/1/2007	14:04
9	CVCCV	1	10/1/2007	14:13
10	BCCCB	1	10/1/2007	14:21
11	REPORT LMT	1	10/1/2007	14:32
12	CRCRI	1	10/1/2007	14:41
13	AICSA Mn/Zn	1	10/1/2007	14:49
14	BICSAB	1	10/1/2007	14:58
15	LR	1	10/1/2007	15:06
16	CVCCV3	1	10/1/2007	15:20
17	BCCCB3	1	10/1/2007	15:31
18	BLK(150)	1	10/1/2007	15:40
19	BKS(150)	1	10/1/2007	15:48
20	S 709120-001-037-1/1	1	10/1/2007	15:56
21	D 709120-001-037-1/1	1	10/1/2007	16:05
22	SP709120-001-037-1/	1	10/1/2007	16:13
23	PS709120-001-037-1/	1	10/1/2007	16:21
24	SE709120-001-037-1/	1	10/1/2007	16:30
25	S 709120-002-038-1/1	1	10/1/2007	16:38
26	S 709120-003-039-1/1	1	10/1/2007	16:46
27	S 709120-004-040-1/1	1	10/1/2007	16:55
28	CVCCV3	1	10/1/2007	17:00
29	BCCCB3	1	10/1/2007	17:14
30	S 709120-005-041-1/1	1	10/1/2007	17:23
31	S 709120-006-042-1/1	1	10/1/2007	17:31
32	S 709120-007-043-1/1	1	10/1/2007	17:39
33	S 709120-010-044-1/1	1	10/1/2007	17:48
34	S 709120-011-045-1/1	1	10/1/2007	17:56
35	S 709120-012-046-1/1	1	10/1/2007	18:04
36	S 709120-013-047-1/1	1	10/1/2007	18:13
37	CRCRI	1	10/1/2007	18:27
38	AICSA Mn/Zn	1	10/1/2007	18:35
39	BICSAB	1	10/1/2007	18:44
40	CVCCV3	1	10/1/2007	18:52
41	BCCCB3	1	10/1/2007	19:00
42	S 709120-014-048-1/1	1	10/1/2007	19:09
43	S 709120-016-049-1/1	1	10/1/2007	19:17
44	S 709120-010-050-1/1	1	10/1/2007	19:25
45	S 709120-017-051-1/1	1	10/1/2007	19:34
46	S 709120-018-052-1/1	1	10/1/2007	19:42
47	BLK(151)	1	10/1/2007	19:53
48	BKS(151)	1	10/1/2007	20:02
49	S 709138-003-026-1/2	1	10/1/2007	20:10
50	D 709138-003-026-1/2	1	10/1/2007	20:18
51	SP709138-003-026-1/	1	10/1/2007	20:27
52	CVCCV4	1	10/1/2007	20:36
53	BCCCB4	1	10/1/2007	20:40
54	PS709138-003-026-1/	1	10/1/2007	20:55
55	SE709138-003-026-1/	5	10/1/2007	21:03
56	S 709138-004-027-1/2	1	10/1/2007	21:11
57	S 709155-001-034-1/2	1	10/1/2007	21:20
58	S 709155-002-036-1/2	1	10/1/2007	21:28
59	S 709155-003-030-1/2	1	10/1/2007	21:36
60	S 709155-004-040-1/2	1	10/1/2007	21:45
61	CRCRI	1	10/1/2007	21:50
62	AICSA Mn/Zn	1	10/1/2007	22:07
63	BICSAB	1	10/1/2007	22:16
64	CVCCV4	1	10/1/2007	22:24
65	BCCCB4	1	10/1/2007	22:32
66	S 709155-005-042-1/2	1	10/1/2007	22:41
67	S 709155-009-044-1/2	1	10/1/2007	22:49
68	S 709155-007-048-1/2	1	10/1/2007	22:57
69	S 709155-008-055-1/5	1	10/1/2007	23:06
70	D 709155-008-055-1/5	1	10/1/2007	23:14
71	SP709155-008-055-1/	1	10/1/2007	23:22
72	PS709155-008-055-1/	1	10/1/2007	23:31
73	SE709155-008-055-1/	5	10/1/2007	23:39
74	S 709155-009-040-1/2	1	10/1/2007	23:47
75	S 709155-010-050-1/2	1	10/1/2007	23:56
76	CVCCV4	1	10/2/2007	0:07
77	BCCCB4	1	10/2/2007	0:15
78	S 709155-011-052-1/2	1	10/2/2007	0:24
79	S 709155-012-054-1/2	1	10/2/2007	0:32
80	BLK(148)	1	10/2/2007	0:40
81	BKS(148)	1	10/2/2007	0:65
82	S 709133-013-032-1/1	1	10/2/2007	1:03
83	S 709134-001-010-1/3	1	10/2/2007	1:11
84	SP709134-001-010-1/	1	10/2/2007	1:20
85	CRCRI Fe/Fe	1	10/2/2007	1:34
86	AICSA Mn/Zn	1	10/2/2007	1:42
87	BICSABI	1	10/2/2007	1:50
88	CVCCV5	1	10/2/2007	1:59
89	BCCCB5	1	10/2/2007	2:07
90	SD709134-001-010-1/	1	10/2/2007	2:16
91	PS709134-001-010-1/	1	10/2/2007	2:24
92	SE709134-001-010-1/	5	10/2/2007	2:32
93	S 709134-002-016-1/1	1	10/2/2007	2:41
94	S 709134-003-020-1/1	1	10/2/2007	2:49
95	S 709134-004-024-1/1	1	10/2/2007	2:57
96	S 709134-005-028-1/1	1	10/2/2007	3:06
97	S 709150-001-001-1/1	1	10/2/2007	3:14
98	S 709165-001-002-1/1	1	10/2/2007	3:22
99	BLK(142)	1	10/2/2007	3:31
100	CVCCV6	1	10/2/2007	3:39
101	BCCCB6	1	10/2/2007	3:48
102	BKS(142)	1	10/2/2007	3:56
103	S 709141-001-001-1/1	1	10/2/2007	4:04
104	SP709141-001-001-1/	1	10/2/2007	4:13
105	SD709141-001-001-1/	1	10/2/2007	4:21
106	PS709141-001-001-1/	1	10/2/2007	4:29
107	SE709141-001-001-1/	50	10/2/2007	4:38
108	S 709141-002-002-1/1	1	10/2/2007	4:46
109	S 709141-003-003-1/1	1	10/2/2007	4:55
110	S 709141-004-004-1/1	1	10/2/2007	5:03
111	S 709141-005-005-1/1	1	10/2/2007	5:11
112	CVCCV6	1	10/2/2007	5:20
113	BCCCB5	1	10/2/2007	5:34
114	S 709141-006-006-1/1	1	10/2/2007	5:42
115	S 709141-007-007-1/1	1	10/2/2007	5:51
116	S 709141-008-008-1/1	1	10/2/2007	6:59
117	S 709141-009-009-1/1	1	10/2/2007	6:07
118	S 709141-010-010-1/1	1	10/2/2007	6:16
119	S 709141-011-011-1/1	1	10/2/2007	6:24
120	S 709141-012-012-1/1	1	10/2/2007	6:32
121	S 709137-041-041-1/1	1	10/2/2007	6:41
122	S 709137-042-042-1/1	1	10/2/2007	6:49
123	S 709137-043-043-1/1	1	10/2/2007	6:58
124	CVCCV8	1	10/2/2007	7:12
125	BCCCB8	1	10/2/2007	7:20
126	S 709137-044-044-1/1	1	10/2/2007	7:28
127	S 709137-045-045-1/1	1	10/2/2007	7:37
128	S 709137-046-046-1/1	1	10/2/2007	7:45
129	S 709137-047-047-1/1	1	10/2/2007	7:54
130	S 709137-048-048-1/1	1	10/2/2007	8:02
131	CRCRII Fe	1	10/2/2007	8:22
132	AICSAI Mn/Zn	1	10/2/2007	8:30
133	BICSABI	1	10/2/2007	8:38
134	CVCCV8	1	10/2/2007	8:47
135	BCCCB8	1	10/2/2007	8:55

Analyst Signature: RG Date: 10-2-07

Analyst Signature: Date:

Sample Dilutions:

709120-013-047-1/1 ; 2X for Fe

709120-015-049-1/1 ; 2X for Fe, Mn

709120-016-050-1/1 ; 5X for Zn

709120-007-043-1/1 ; 10X for Pb

709155-005-042-1/2 ; 50X for Ca

709155-012-054-1/2 ; 20X for Ca

Supersedes GP_M_189

Method: TRACEV2 Standard: STD0
Run Time: 10/01/07 13:11:56

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	-.00227	.00172	.00030	.00165	.00217	.00066	.03082
#1	-.00236	.00039	.00039	.00163	.00218	-.00003	.03090
#2	-.00218	.00305	.00021	.00167	.00215	.00135	.03074

Elem	Cr	Co	Cu	Fe	Mg	Mn	Mn3441
Avge	.00035	-.00050	.00764	.00025	.00020	.00020	-.02358
#1	.00024	-.00091	.00769	.00012	.00015	.00012	-.02448
#2	.00045	-.00009	.00760	.00039	.00024	.00027	-.02267

Elem	Ni	K	Ag	Na	Tl	V	Zn
Avge	-.00005	.01210	.00003	-.02351	-.00343	.00006	.00915
#1	-.00045	.01244	.00018	-.02276	-.00381	.00021	.00923
#2	.00036	.01175	-.00012	-.02425	-.00305	-.00009	.00906

Elem	B	Mo	Sn	Ti	1/Pb	2/Pb	1/Se
Avge	.00099	-.00016	.00028	.00049	-.01526	.00185	-.00676
#1	.00088	.00012	-.00048	.00003	-.01946	.00157	-.00817
#2	.00111	-.00045	.00105	.00096	-.01107	.00212	-.00535

Elem	2/Se	2V
Avge	.0020	.00000
#1	.0016	.00015
#2	.0024	-.00015

Method: TRACEV2 Standard: STD0
Run Time: 10/01/07 13:22:35

Elem	Cd	Ni
Avge	.00044	-.00105
#1	.00049	-.00091
#2	.00039	-.00118

Standardization Report 10/01/07 01:26:13 PM page 1

Method: TRACEV2 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Cd	226.502	Multiple	Standards	208.147	-.107762	10/01/07 01:22:35
Ni	231.604	Multiple	Standards	593.239	.613968	10/01/07 01:22:35

Method: TRACEV2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	226.502	STD0	.000000	-.016126	.016126
		STD1	500.000	509.029	-9.02872
		STD2	1000.00	1005.16	-5.15662

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.604	STD0	.000000	-.007282	.007282
		STD1	500.000	501.856	-1.85641
		STD2	1000.00	997.887	2.11285

CorCoef: 0.99999

Method: TRACEV2 Standard: STD1
Run Time: 10/01/07 13:26:59

Elem	Al	Sb	As	Ba	Be	Cd	Cr
Avge	2.6514	.44602	.39650	1.1360	.11810	2.9137	.32552
#1	2.6852	.45331	.40171	1.1499	.11961	2.9513	.32974
#2	2.6176	.43872	.39128	1.1222	.11659	2.8761	.32131

Elem	Co	Cu	Fe	Mn	Mn3441	Ni	Ag
Avge	.57364	.39778	1.7906	.55325	.17874	1.0102	.62118
#1	.58062	.40243	1.8154	.56045	.18092	1.0174	.62915
#2	.56667	.39313	1.7658	.54604	.17656	1.0029	.61320

Elem	Tl	V	Zn	B	Mo	Sn	Ti
Avge	.17440	.25663	.84707	.70394	.39520	.23998	2.4872
#1	.17701	.26011	.85752	.71399	.39751	.24243	2.5203
#2	.17179	.25315	.83662	.69389	.39289	.23752	2.4541

Elem	1/Pb	2/Pb	1/Se	2/Se	2V
Avge	1.1971	.54622	.43626	.2819	.24619
#1	1.2135	.55384	.44120	.2837	.24974
#2	1.1806	.53861	.43132	.2802	.24264

Method: TRACEV2 Standard: STD2
Run Time: 10/01/07 13:35:24

Elem	Al	Sb	As	Ba	Be	Cd	Cr
Avge	5.2709	.88634	.79200	2.2805	.23135	5.7402	.64543
#1	5.2803	.88438	.79297	2.2828	.23219	5.7525	.64667
#2	5.2615	.88830	.79104	2.2782	.23050	5.7279	.64418

Elem	Co	Cu	Fe	Mn	Mn3441	Ni	Ag
Avge	1.1403	.78829	3.5299	1.0986	.37783	2.0100	1.2344
#1	1.1421	.79026	3.5413	1.1007	.37753	2.0080	1.2386
#2	1.1384	.78633	3.5186	1.0965	.37813	2.0121	1.2301

Elem	Tl	V	Zn	B	Mo	Sn	Ti
Avge	.35254	.50793	1.6562	1.3932	.78796	.47856	4.9632
#1	.35212	.50976	1.6607	1.3939	.78809	.48072	4.9763
#2	.35295	.50609	1.6516	1.3926	.78784	.47640	4.9500

Elem	1/Pb	2/Pb	1/Se	2/Se	2V
Avge	2.3693	1.0646	.87020	.5526	.48598
#1	2.3805	1.0715	.86986	.5536	.48791
#2	2.3581	1.0578	.87055	.5517	.48405

Method: TRACEV2 Standard: STD3
Run Time: 10/01/07 13:43:47

Elem	Ca	Mg	K	Na
Avge	34.573	17.759	7.9156	4.3491
#1	34.552	17.732	7.9039	4.3427
#2	34.594	17.786	7.9274	4.3555

Method: TRACEV2 Standard: STD4
Run Time: 10/01/07 13:50:39

Elem	1/Pb	2/Pb
Avge	4.7123	2.1283
#1	4.7066	2.1260
#2	4.7179	2.1306

Method: TRACEV2 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	Multiple	Standards	18907.4	42.1465	10/01/07 01:35:24
Sb	206.838	Multiple	Standards	1123.82	-1.94073	10/01/07 01:35:24
As	189.042	Multiple	Standards	1253.80	-.378938	10/01/07 01:35:24
Ba	493.409	Multiple	Standards	439.965	-.722356	10/01/07 01:35:24
Be	313.042	Multiple	Standards	434.905	-.943477	10/01/07 01:35:24
Cd	226.502	Multiple	Standards	174.929	-.095962	10/01/07 01:35:24
Ca	317.933	STD3	STD0	.898009	.037076	10/01/07 01:50:39
Cr	267.716	Multiple	Standards	1541.09	-.542349	10/01/07 01:35:24
Co	228.616	Multiple	Standards	876.269	.428815	10/01/07 01:35:24
Cu	324.753	Multiple	Standards	1281.36	-9.79059	10/01/07 01:35:24
Fe	271.441	Multiple	Standards	28151.0	-8.97072	10/01/07 01:35:24
Pb	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Mg	279.078	STD3	STD0	1.05772	-.000338	10/01/07 01:50:39
Mn	257.610	Multiple	Standards	897.553	-.183723	10/01/07 01:35:24
Mn3441	344.199	Multiple	Standards	2454.03	57.8440	10/01/07 01:35:24
Ni	231.604	Multiple	Standards	496.253	.512661	10/01/07 01:35:24
K	766.491	STD3	STD0	.860747	.001667	10/01/07 01:50:39
Se	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Ag	328.068	Multiple	Standards	807.583	-.033036	10/01/07 01:35:24
Na	330.232	STD3	STD0	.838506	.002965	10/01/07 01:50:39
Tl	190.864	Multiple	Standards	2792.44	9.58377	10/01/07 01:35:24
V	292.402	Multiple	Standards	1963.96	-.132817	10/01/07 01:35:24
Zn	213.856	Multiple	Standards	607.264	-5.57565	10/01/07 01:35:24
B	249.678	Multiple	Standards	710.862	-.717342	10/01/07 01:35:24
Mo	202.030	Multiple	Standards	1265.66	.203184	10/01/07 01:35:24
Sn	189.989	Multiple	Standards	2088.43	-.590351	10/01/07 01:35:24
Ti	334.941	Multiple	Standards	201.332	-.102082	10/01/07 01:35:24
1/Pb	220.351	Multiple	Standards	429.542	6.57303	10/01/07 01:50:39
2/Pb	220.352	Multiple	Standards	922.823	-1.78247	10/01/07 01:50:39
1/Se	196.021	Multiple	Standards	1135.93	7.66808	10/01/07 01:35:24
2/Se	196.022	Multiple	Standards	1757.04	-3.53149	10/01/07 01:35:24
2V	292.402	Multiple	Standards	1871.90	-.016613	10/01/07 01:35:24

Method: TRACEV2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD0	.000000	-.806532	.806532
		STD1	50000.0	50173.4	-173.355
		STD2	100000.	99701.5	298.516
CorCoef:	0.99999				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD0	.000000	-.005576	.005576
		STD1	500.000	499.304	.695862
		STD2	1000.00	994.148	5.85242
CorCoef:	1.00000				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	189.042	STD0	.000000	-.001084	.001084
		STD1	500.000	496.751	3.24881
		STD2	1000.00	992.635	7.36450
CorCoef:	1.00000				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	STD0	.000000	.005533	-.005533
		STD1	500.000	499.093	.906647
		STD2	1000.00	1002.61	-2.61328
CorCoef:	1.00000				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD0	.000000	-.001461	.001461
		STD1	50.0000	50.4198	-.419762
		STD2	100.000	99.6705	.329529
CorCoef:	0.99998				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	226.502	STD0	.000000	-.018950	.018950
		STD1	500.000	509.594	-9.59357
		STD2	1000.00	1004.03	-4.02686
CorCoef:	0.99996				

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Ca	317.933	STD0	.064753	.030820	.033933
		STD3	31.0841	34.5732	-3.48909

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	267.716	STD0	.000000	-.010145	.010145
		STD1	500.000	501.117	-1.11707
		STD2	1000.00	994.118	5.88202
CorCoef:	0.99999				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	STD0	.000000	-.008241	.008241
		STD1	500.000	503.096	-3.09613
		STD2	1000.00	999.600	.400208
CorCoef:	0.99999				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.753	STD0	.000000	.000592	-.000592
		STD1	500.000	499.909	.091003
		STD2	1000.00	1000.29	-.291931
CorCoef:	1.00000				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	271.441	STD0	.000000	-1.79461	1.79461
		STD1	50000.0	50399.0	-398.957
		STD2	100000.	99362.2	637.766
CorCoef:	0.99997				

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	-.000131	.000195	-.000326
		STD3	18.7835	17.7588	1.02468

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.610	STD0	.000000	-.008609	.008609
		STD1	500.000	496.384	3.61615
		STD2	1000.00	985.880	14.1198
CorCoef:	0.99999				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn3441	344.199	STD0	.000000	-.009868	.009868
		STD1	500.000	496.474	3.52631
		STD2	1000.00	985.053	14.9474
CorCoef:	0.99999				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.604	STD0	.000000	-.007024	.007024
		STD1	500.000	501.805	-1.80472
		STD2	1000.00	997.990	2.00952
CorCoef:	0.99999				

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	STD0	.012078	.012095	-.000017
		STD3	6.81503	7.91564	-1.10061

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	-.008027	.008027
		STD1	500.000	501.620	-1.62036
		STD2	1000.00	996.819	3.18066
CorCoef:	0.99999				

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na	330.232	STD0	-.016744	-.023505	.006761
		STD3	3.64972	4.34911	-.699388

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD0	.000000	.001065	-.001065
		STD1	500.000	496.585	3.41513
		STD2	1000.00	994.022	5.97778

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD0	.000000	-.012914	.012914
		STD1	500.000	503.871	-3.87125
		STD2	1000.00	997.412	2.58844

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.856	STD0	.000000	-.021845	.021845
		STD1	500.000	508.820	-8.81992
		STD2	1000.00	1000.16	-.164124

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	STD0	.000000	-.012128	.012128
		STD1	500.000	499.688	.312408
		STD2	1000.00	989.673	10.3273

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.030	STD0	.000000	-.004105	.004105
		STD1	500.000	500.391	-.391022
		STD2	1000.00	997.498	2.50208

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	189.989	STD0	.000000	-.002909	.002909
		STD1	500.000	500.586	-.586365
		STD2	1000.00	998.845	1.15479

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.941	STD0	.000000	-.002696	.002696
		STD1	500.000	500.649	-.648773
		STD2	1000.00	999.140	.859558

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/Pb	220.351	STD0	.000000	.017569	-.017569
		STD1	500.000	520.764	-20.7635
		STD2	1000.00	1024.29	-24.2903
		STD4	2000.00	2030.69	-30.6898

CorCoef: 0.99984

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/Pb	220.352	STD0	.000000	-.076660	.076660
		STD1	500.000	502.285	-2.28467
		STD2	1000.00	980.699	19.3012
		STD4	2000.00	1962.22	37.7772
CorCoef:	0.99992				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/Se	196.021	STD0	.000000	-.012880	.012880
		STD1	500.000	503.229	-3.22906
		STD2	1000.00	996.154	3.84613
CorCoef:	0.99998				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/Se	196.022	STD0	.000000	-.020295	.020295
		STD1	500.000	491.855	8.14493
		STD2	1000.00	967.474	32.5261
CorCoef:	0.99995				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2V	292.402	STD0	.000000	-.014958	.014958
		STD1	500.000	460.826	39.1740
		STD2	1000.00	909.686	90.3140
CorCoef:	0.99997				

Method: TRACEV2 Sample Name: IVICV Operator:
Run Time: 10/01/07 13:56:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	5057.701	406.1262	Q424.0650	419.4041	41.43365	41.76999	4985.270
#1	5031.964	404.8391	Q425.2168	418.8964	41.37094	41.39014	4979.205
#2	5083.438	407.4133	Q422.9133	419.9118	41.49636	Q42.14983	4991.335
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	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	403.0114	Q427.8361	398.4342	5039.749	416.4688	5038.989	408.3600
#1	402.4805	Q427.0668	398.1823	5016.529	417.3205	5033.160	408.1999
#2	403.5424	Q428.6055	398.6861	5062.970	415.6170	5044.818	408.5201
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	408.1493	414.2978	Q4712.867	413.4486	400.9075	9647.963	405.5997
#1	407.1608	413.1379	Q4705.777	410.3554	401.5092	9607.214	406.1604
#2	409.1377	415.4578	Q4719.958	416.5417	400.3059	9688.713	405.0390
Errors	NOCHECK	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value		400.0000	5000.000	400.0000	400.0000	10000.00	400.0000
Range		5.000000	5.000000	5.000000	5.000000	5.000000	5.000000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	409.0397	Q420.7143	Q420.9736	405.9155	411.3670	408.6228	411.9088
#1	408.8467	Q420.5914	Q420.3850	404.7207	410.3185	408.1904	414.0002
#2	409.2327	Q420.8372	Q421.5621	407.1102	412.4155	409.0552	409.8174
Errors	QC Pass	QC Fail	QC Fail	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	2V
Avge	418.7486	418.7009	410.8223	407.0685
#1	418.9805	417.8556	406.6052	406.9221
#2	418.5166	419.5462	415.0393	407.2151
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BIICB Operator:
Run Time: 10/01/07 14:04:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	13.18654	-3.06961	-1.12380	.2837512	.0388776	.1770621	-2.36840
#1	18.49721	-3.94465	-2.38178	.4410934	.0549360	.2525749	-2.21699
#2	7.875870	-2.19457	.1341679	.1264090	.0228191	.1015492	-2.51980
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	.0859922	.1346560	-.081037	18.09453	-.808622	4.152668	.2236304
#1	.1741481	.0969812	.0397351	18.83703	-.091553	5.413201	.3403609
#2	-.002164	.1723308	-.201809	17.35204	-1.52569	2.892136	.1068999
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	3.810575	.2241232	-2.80215	2.883798	.4488703	-146.080	2.516664
#1	2.860362	-.078783	-1.26757	2.572986	.6240233	-134.111	3.672594
#2	4.760788	.5270289	-4.33673	3.194610	.2737173	-158.050	1.360733
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.0385406	-1.84291	1.034749	1.124399	-1.22485	.1851133	-.041009
#1	.2673015	-1.69469	.9364649	1.601214	-2.71437	.2957468	-.686763
#2	-.190220	-1.99113	1.133034	.6475840	.2646709	.0744797	.6047462
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-1.19256	3.371729	2.639702	.0053150
#1	.2059205	.2724106	3.723142	.1459821
#2	-2.59104	6.471047	1.556261	-.135352
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV Operator:
Run Time: 10/01/07 14:13:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50748.18	508.7817	502.7464	498.6673	49.48450	490.4351	106414.8
#1	50582.71	506.5659	502.1796	497.1123	49.37964	488.5428	106150.9
#2	50913.64	510.9973	503.3133	500.2223	49.58937	492.3273	106678.7
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	494.1374	493.2474	505.2061	48874.61	496.9517	105453.5	496.5277
#1	492.7317	491.9424	503.6455	48734.35	495.6188	105198.3	495.4043
#2	495.5430	494.5525	506.7666	49014.88	498.2846	105708.6	497.6511
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	499.6618	489.0850	24021.17	511.3415	512.3716	100923.9	504.9182
#1	499.8567	488.5295	23986.77	509.9096	511.5203	100700.8	505.3300
#2	499.4670	489.6406	24055.57	512.7734	513.2230	101147.0	504.5064
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	498.4354	505.6409	508.4117	503.0430	504.0300	504.3261	490.3837
#1	497.0387	504.2079	506.6767	499.6119	503.7133	502.9555	488.3149
#2	499.8321	507.0738	510.1468	506.4741	504.3466	505.6967	492.4526
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	2V
Avge	500.2355	511.5110	511.2567	497.7880
#1	499.2706	509.5811	510.0737	496.8594
#2	501.2004	513.4409	512.4397	498.7167
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB Operator:
Run Time: 10/01/07 14:21:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	3.231943	1.671014	-1.30302	.1453012	.0685888	-.004668	-3.34271
#1	4.700552	1.136454	-2.15285	.1485775	.0774219	.0026463	-3.59817
#2	1.763333	2.205574	-.453195	.1420249	.0597556	-.011983	-3.08725
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.281389	-.080726	-.263456	5.420649	-1.22082	8.426071	-.030125
#1	-.150917	-.240600	-.587075	4.583453	-1.30850	8.742572	.0202956
#2	-.411861	.0791489	.0601636	6.257845	-1.13315	8.109569	-.080546
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	6.874339	.6166197	-2.76129	-.210429	-.125694	-59.3755	1.256689
#1	5.655957	1.088018	-6.46560	1.349806	.1038245	-64.7625	.6859928
#2	8.092721	.1452216	.9430320	-1.77066	-.355212	-53.9884	1.827385
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.243756	-2.34484	.6531987	1.387627	-1.33673	.1150425	-.387059
#1	-.131607	-2.36425	1.112558	1.742647	.4732465	.1256973	-.729092
#2	-.355904	-2.32543	.1938392	1.032606	-3.14672	.1043876	-.045026
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-1.63783	.8559988	-.743769	-.004850
#1	-1.59833	3.361695	.3437356	-.060971
#2	-1.67734	-1.64970	-1.83127	.0512712
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: REPORT LMT Operator:
Run Time: 10/01/07 14:32:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	203.1811	18.69336	18.80860	5.072400	2.029117	6.054185	979.7526
#1	203.4362	18.70045	17.85568	5.097853	2.026500	6.286405	983.4011
#2	202.9260	18.68627	19.76153	5.046947	2.031735	5.821965	976.1039
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	4.769873	4.658334	9.441256	149.0199	8.875813	254.7660	4.843301
#1	4.962603	4.958998	9.760290	149.9221	8.476132	259.0394	4.885640
#2	4.577142	4.357669	9.122223	148.1177	9.275492	250.4926	4.800961
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	10.76342	9.686950	213.4212	20.37710	4.854114	2421.072	31.15398
#1	13.54299	10.56533	213.9802	20.62967	4.835716	2432.295	28.85009
#2	7.983860	8.808569	212.8623	20.12453	4.872513	2409.850	33.45787
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		10.00000	250.0000		5.000000	2500.000	30.00000
Range		20.00000	20.00000		20.00000	20.00000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	10.00239	18.11809	15.60549	4.693847	25.01418	25.35089	9.675293
#1	10.28777	18.21364	15.51759	5.015279	25.66423	25.61863	9.275763
#2	9.717012	18.02254	15.69340	4.372415	24.36413	25.08316	10.07482
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	10.00000	20.00000	15.00000	5.000000	25.00000	25.00000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	8.475945	21.73540	19.69783	9.772677
#1	8.076190	21.48997	20.19940	9.852073
#2	8.875699	21.98082	19.19625	9.693282
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CRCRI Operator:
Run Time: 10/01/07 14:41:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	202.6587	59.06178	7.258431	204.8941	5.044742	5.163055	5024.449
#1	203.3270	60.05697	Q6.871488	203.6506	5.002431	5.209639	4986.932
#2	201.9904	58.06659	7.645372	206.1376	5.087052	5.116469	5061.967
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	200.0000	60.00000	10.00000	200.0000	5.000000	5.000000	5000.000
Range	30.00000	50.00000	30.00000	30.00000	30.00000	30.00000	30.00000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	9.777288	49.75114	23.63572	95.36490	9.520516	5065.653	15.15191
#1	9.791850	49.21610	23.25948	88.07070	9.751629	5025.637	15.04967
#2	9.762726	50.28617	24.01196	102.6591	9.289404	5105.670	15.25416
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	50.00000	25.00000	100.0000	10.00000	5000.000	15.00000
Range	30.00000	30.00000	30.00000	30.00000	50.00000	30.00000	30.00000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	19.68940	40.11912	4887.163	37.53532	10.30648	4851.730	28.77329
#1	19.93198	39.54906	4852.764	35.51089	10.16689	4797.060	27.37953
#2	19.44681	40.68919	4921.562	39.55975	10.44607	4906.399	30.16704
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		40.00000	5000.000		10.00000	5000.000	25.00000
Range		30.00000	30.00000		30.00000	30.00000	50.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	51.42606	60.30942	-.043442	.1350411	-.978248	-.073073	10.98692
#1	51.23410	59.71941	-.280428	-.007125	-.061772	-.064843	13.30217
#2	51.61801	60.89943	.1935436	.2772071	-1.89472	-.081302	8.671673
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	50.00000	60.00000					
Range	30.00000	30.00000					

Elem	2/Pb	1/Se	2/Se	2V
Avge	8.787188	40.74848	35.92862	49.99126
#1	7.976235	40.89600	32.81822	49.71104
#2	9.598141	40.60096	39.03902	50.27148
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IAICSA Operator:
Run Time: 10/01/07 14:49:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	484653.9	2.882505	-.305938	.8940066	-.137289	.5259199	504437.8
#1	484541.8	.6971252	.3682981	.8994546	-.128880	.5619412	504457.7
#2	484766.2	5.067883	-.980173	.8885587	-.145698	.4898987	504417.8
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	50000.00	20.00000	20.00000	5.000000	2.000000	6.000000	50000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	2.002623	1.772204	2.394609	188946.2	-1.20108	487068.4	Q13.23146
#1	2.282378	1.927203	2.106470	188913.2	-2.99157	486882.9	Q13.14757
#2	1.722868	1.617204	2.682748	188979.3	.5894102	487253.8	Q13.31535
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	5.000000	5.000000	10.00000	20000.00	6.000000	50000.00	5.000000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	44.89988	3.196662	-4.26895	2.101480	-.343715	-266.237	7.755281
#1	45.48984	3.069507	-4.63872	1.672802	-.381536	-213.397	6.084060
#2	44.30991	3.323817	-3.89918	2.530159	-.305895	-319.078	9.426503
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000		.0000000	.0000000	.0000000
Range		10.00000	250.0000		3.000000	2500.000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.1801314	Q24.49457	3.686574	.1474519	-.749353	1.239252	12.04461
#1	.3736663	Q24.40469	3.775973	.2794089	.2645950	1.374802	10.66689
#2	-.013403	Q24.58446	3.597174	.0154949	-1.76330	1.103702	13.42233
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	25.00000	25.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-7.82405	5.753991	.2750893	4.682915
#1	-9.82092	8.659786	-1.82082	5.166466
#2	-5.82718	2.848196	2.371002	4.199364
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IBICSAB Operator:
Run Time: 10/01/07 14:58:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	484213.3	623.2411	104.8585	517.2267	479.3675	938.9950	501468.0
#1	484678.6	627.5121	104.2932	518.1261	479.3354	939.7660	501107.9
#2	483748.1	618.9701	105.4238	516.3273	479.3997	938.2240	501828.1
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	482.0877	468.3511	526.3748	188777.5	47.97253	485742.6	497.5236
#1	482.3076	468.5221	526.9641	188752.5	46.98185	485508.7	497.2975
#2	481.8678	468.1801	525.7856	188802.5	48.96321	485976.5	497.7497
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	516.9054	937.4287	5419.781	50.08425	208.8111	10297.29	108.1310
#1	517.1307	938.2134	5429.088	53.49096	208.7281	10248.04	108.3107
#2	516.6801	936.6439	5410.474	46.67754	208.8940	10346.54	107.9514
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		1000.000	5000.000		200.0000	10000.00	100.0000
Range		20.00000	20.00000		20.00000	20.00000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	488.7394	1021.577	1034.841	1000.656	1001.244	984.8153	58.36073
#1	488.7515	1020.816	1034.496	998.6071	1002.396	985.4002	59.25255
#2	488.7272	1022.338	1035.185	1002.706	1000.091	984.2305	57.46892
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	1000.000	1000.000	1000.000	1000.000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	42.77830	52.74284	48.75489	502.9987
#1	40.84637	54.14089	53.16594	503.5571
#2	44.71023	51.34479	44.34385	502.4404
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: LR Operator:
Run Time: 10/01/07 15:06:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	342.0787	5053.936	2008.307	9816.685	479.6718	1961.103	296.0038
#1	473.7170	5058.217	2013.249	9809.642	481.3145	1962.419	427.6361
#2	210.4404	5049.655	2003.364	9823.728	478.0291	1959.787	164.3715
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	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	9921.184	9859.768	10141.91	491623.8	19710.06	315.9649	9665.433
#1	9928.107	9883.728	10164.58	492751.3	19698.00	451.5519	9691.652
#2	9914.261	9835.808	10119.25	490496.4	19722.12	180.3780	9639.213
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	9865.638	7361.896	16.50297	1995.439	1005.728	110.3921	1995.927
#1	9887.848	7365.623	13.40149	1994.181	1008.823	138.4396	1993.276
#2	9843.428	7358.170	19.60444	1996.698	1002.633	82.34459	1998.579
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass
Value		7500.000		2000.000	1000.000		2000.000
Range		5.000000		5.000000	5.000000		5.000000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	9950.357	2939.830	4978.363	9740.869	9922.228	19991.32	19244.22
#1	9979.975	2945.067	4985.087	9729.079	9950.138	20040.50	19238.01
#2	9920.741	2934.593	4971.639	9752.659	9894.317	19942.15	19250.42
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	NOCHECK
Value	10000.00	3000.000	5000.000	10000.00		20000.00	
Range	5.000000	5.000000	5.000000	5.000000		5.000000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	19942.98	1999.414	1993.453	9899.319
#1	19927.99	1997.998	1992.273	9926.139
#2	19957.97	2000.830	1994.633	9872.500
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV3 Operator:
Run Time: 10/01/07 15:20:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50387.83	509.2126	504.2823	498.9638	49.23380	489.5023	105443.2
#1	50477.46	508.3593	506.2801	500.4528	49.33879	491.7230	105713.5
#2	50298.20	510.0659	502.2844	497.4747	49.12882	487.2816	105172.9
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	495.5173	491.0078	503.1544	48646.28	495.3544	105028.5	494.0671
#1	497.0837	492.9180	502.8264	48732.14	497.6576	105147.7	494.1857
#2	493.9508	489.0976	503.4824	48560.41	493.0511	104909.4	493.9485
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	499.5899	490.0574	23998.83	504.7841	509.7664	100839.0	506.9585
#1	500.5488	491.7738	23988.15	506.1356	508.6876	100965.1	505.3674
#2	498.6310	488.3411	24009.52	503.4326	510.8453	100712.9	508.5496
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	495.4419	503.1913	508.9485	503.3432	498.8773	498.5349	489.6936
#1	495.4025	503.4907	509.1525	502.5879	500.8499	498.9293	492.9121
#2	495.4813	502.8918	508.7444	504.0986	496.9047	498.1406	486.4751
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	2V
Avge	498.1846	502.6859	505.8331	493.3733
#1	500.0302	502.7562	507.8253	493.4024
#2	496.3390	502.6156	503.8409	493.3442
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB3 Operator:
Run Time: 10/01/07 15:31:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	6.109753	-.618593	-.724585	.1667264	.0847077	.1344222	1.859211
#1	9.544276	.2696478	-1.38791	.2632122	.0806048	.2243873	14.25957
#2	2.675229	-1.50683	-.061258	.0702407	.0888106	.0444571	-10.5411
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.409997	-.211702	-.500470	3.568131	-1.80871	13.10612	.0228766
#1	-.100426	-.175589	-.443371	11.25731	-1.00694	25.96879	.1270788
#2	-.719567	-.247816	-.557569	-4.12105	-2.61047	.2434514	-.081326
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	5.627462	.0731127	.4629404	-.958399	.0829700	-70.3495	1.361478
#1	5.759632	.6836033	.7904116	.0464759	.2915111	-149.325	-.896996
#2	5.495292	-.537378	.1354691	-1.96327	-.125571	8.626205	3.619952
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.0936113	-3.08693	.4548763	.8568231	-.829336	.0654561	.1131479
#1	.4317011	-3.02993	.6514402	1.039682	-.889755	.1234530	-.413546
#2	-.244478	-3.14394	.2583123	.6739647	-.768918	.0074592	.6398416
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-2.76976	-.095031	-1.39021	.3074019
#1	-1.30377	1.043418	-.452124	.2682089
#2	-4.23575	-1.23348	-2.32830	.3465949
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BLK(150) Operator:
Run Time: 10/01/07 15:40:03
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	25.07997	.8072999	.0550351	2.380477	.0405095	.1929037	353.9405
#1	23.62377	1.633758	-.222224	2.370160	.0368806	.1267111	353.6240
#2	26.53618	-.019158	.3322939	2.390795	.0441383	.2590963	354.2570
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	1.212059	-1.28329	.6679425	48.57745	1.104748	80.70178	.5515868
#1	1.148965	-1.31422	.8125108	47.08306	1.320140	81.30506	.5403900
#2	1.275152	-1.25237	.5233743	50.07183	.8893568	80.09850	.5627836
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	5.922759	-.720331	15.99054	.8213551	-.261121	554.1437	-3.43066
#1	5.297059	-.679944	19.85127	-.264232	-.608066	517.0346	-3.38991
#2	6.548458	-.760717	12.12981	1.906942	.0858247	591.2527	-3.47140
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		5.000000	125.0000	10.00000	1.500000	1250.000	15.00000
Low		-5.00000	-125.000	-10.0000	-1.50000	-1250.00	-15.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.045798	7.726787	3.186054	1.084221	H22.84948	.6447847	9.459856
#1	.2160727	7.694411	3.039875	1.330064	H23.50558	.6202195	8.230722
#2	-.307669	7.759162	3.332234	.8383793	H22.19339	.6693498	10.68899
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	NOCHECK
High	5.000000	10.00000	7.500000	2.500000	12.50000	12.50000	
Low	-5.00000	-10.0000	-7.50000	-2.50000	-12.5000	-12.5000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-3.07293	-11.1199	6.791843	.1755236
#1	-2.13528	-13.7619	6.484471	.1915491
#2	-4.01058	-8.47789	7.099216	.1594981
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV3 Operator:
Run Time: 10/01/07 17:06:25
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50274.36	510.1753	505.6394	501.2329	49.07260	491.4866	105463.6
#1	50221.95	511.4236	507.3050	500.4367	48.96069	491.8148	105276.8
#2	50326.77	508.9271	503.9737	502.0292	49.18451	491.1585	105650.4
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	495.3851	488.4989	496.7252	48496.07	495.9973	104387.4	489.7831
#1	494.3466	487.1881	495.5690	48404.84	493.9355	104183.9	488.9765
#2	496.4236	489.8098	497.8814	48587.30	498.0591	104590.8	490.5896
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	498.3223	491.5348	23831.75	510.8519	503.5381	100545.0	504.9265
#1	498.5055	489.8837	23794.86	509.2550	502.0760	100417.1	507.9377
#2	498.1391	493.1859	23868.63	512.4487	505.0003	100672.9	501.9153
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	492.1329	500.3406	505.7775	498.0919	495.4311	496.6066	489.2623
#1	491.3219	499.5453	505.9986	495.4545	493.3390	495.7564	488.1226
#2	492.9438	501.1360	505.5564	500.7292	497.5231	497.4568	490.4020
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	2V
Avge	499.3647	510.3552	511.1001	489.4067
#1	496.8417	510.4895	508.6377	488.8215
#2	501.8876	510.2209	513.5624	489.9919
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Analysis Report QC Standard 10/01/07 05:23:02 PM

Operator:

Method: TRACEV2 Sample Name: BCCCB3
Run Time: 10/01/07 17:14:46
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	.9498501	-1.30274	-.109824	.1537863	.1157921	-.086701	-7.93334
#1	3.128956	-1.87247	-1.31395	.1723203	.1029012	-.011501	-3.99527
#2	-1.22926	-.733005	1.094300	.1352524	.1286829	-.161901	-11.8714
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	10.00000	15.00000	2.000000	5.000000	1000.000
Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.123805	.3530162	-.501978	7.138294	-1.09774	7.619502	-.015337
#1	-.190041	.7295918	-.396095	6.298754	-.702522	12.44215	.0489762
#2	-.057570	-.023559	-.607861	7.977834	-1.49296	2.796851	-.079650
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	7.180841	.4772179	-2.72468	1.171976	.0246655	-62.6576	2.212392
#1	5.901842	.1004159	-5.07355	.1978901	-.125736	-77.1568	2.889086
#2	8.459841	.8540199	-.375809	2.146062	.1750670	-48.1585	1.535698
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000
Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.0371931	-3.56617	.3216218	1.744711	.8763059	.1027272	1.064378
#1	-.018617	-3.52354	.3207699	2.414892	1.025184	.1459206	1.454205
#2	.0930031	-3.60881	.3224737	1.074531	.7274272	.0595337	.6745508
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	
Elem	2/Pb	1/Se	2/Se	2V			
Avge	-2.17893	3.077045	.2193136	.0449683			
#1	-1.78101	1.517070	-.461828	-.126062			
#2	-2.57684	4.637021	.9004551	.2159983			
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK			
Value							
Range							

Method: TRACEV2 Sample Name: CRCRI Operator:
Run Time: 10/01/07 18:27:18
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	205.9332	62.99902	9.417370	208.9516	5.156981	5.076541	5012.019
#1	206.5669	62.12920	10.33865	208.6352	5.146428	5.109701	4999.465
#2	205.2996	63.86885	8.496083	209.2681	5.167536	5.043380	5024.572
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	200.0000	60.00000	10.00000	200.0000	5.000000	5.000000	5000.000
Range	30.00000	50.00000	30.00000	30.00000	30.00000	30.00000	30.00000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	10.02810	50.46556	23.39016	103.5392	9.018925	5059.177	15.02657
#1	9.822625	50.41457	23.44480	102.8205	8.579002	5042.805	14.97156
#2	10.23358	50.51656	23.33551	104.2579	9.458848	5075.549	15.08158
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	50.00000	25.00000	100.0000	10.00000	5000.000	15.00000
Range	30.00000	30.00000	30.00000	30.00000	50.00000	30.00000	30.00000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	21.38361	40.84425	4927.408	37.58150	10.27209	4972.619	26.87286
#1	21.41439	40.41345	4921.738	37.77687	10.39358	5007.218	27.02512
#2	21.35282	41.27505	4933.079	37.38613	10.15059	4938.020	26.72059
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		40.00000	5000.000		10.00000	5000.000	25.00000
Range		30.00000	30.00000		30.00000	30.00000	50.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	51.67606	59.68929	-.098117	.0607966	.0680575	.1286885	8.939241
#1	51.25188	59.32630	.2962506	-.011156	.6034706	.1597376	10.44847
#2	52.10024	60.05228	-.492485	.1327494	-.467356	.0976395	7.430013
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	50.00000	60.00000					
Range	30.00000	30.00000					

Elem	2/Pb	1/Se	2/Se	2V
Avge	9.058639	38.11080	37.31673	50.45072
#1	7.644141	39.32515	37.00261	50.22561
#2	10.47314	36.89645	37.63084	50.67583
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IAICSA Operator:
Run Time: 10/01/07 18:35:41
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	479026.7	1.034638	2.314878	.9318304	.0787722	-1.06378	498392.5
#1	478920.2	3.092425	.1702746	.9057213	.0957272	-1.39516	497486.2
#2	479133.1	-1.02315	4.459481	.9579395	.0618173	-.732405	499298.8
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	50000.00	20.00000	20.00000	5.000000	2.000000	6.000000	50000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	1.471949	1.766551	1.260895	186309.0	.9073116	478189.0	Q14.37080
#1	1.660021	2.056712	.8154354	185988.3	-.061241	477117.0	Q14.45881
#2	1.283876	1.476391	1.706356	186629.7	1.875864	479260.9	Q14.28278
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	5.000000	5.000000	10.00000	20000.00	6.000000	50000.00	5.000000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	42.73780	3.580838	-4.08423	2.397567	-.456863	-285.484	6.862768
#1	42.51733	3.630871	-7.22636	3.142673	-.207482	-235.105	6.644428
#2	42.95826	3.530804	-.942105	1.652461	-.706243	-335.862	7.081107
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000		.0000000	.0000000	.0000000
Range		10.00000	250.0000		3.000000	2500.000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.1768489	Q22.60958	2.511265	1.112811	-5.00848	1.138232	14.79843
#1	.2603078	Q22.47903	2.843860	1.150848	-3.66676	1.001519	15.52605
#2	.0933900	Q22.74013	2.178671	1.074774	-6.35019	1.274944	14.07082
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	25.00000	25.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-6.03838	8.453359	-.630463	3.501844
#1	-7.85501	11.29310	-.932671	3.851908
#2	-4.22174	5.613620	-.328255	3.151781
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IBICSAB Operator:
Run Time: 10/01/07 18:44:03
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	480927.7	623.4856	100.7618	518.1887	474.9430	933.9840	497728.3
#1	480731.8	620.9837	98.69653	518.3835	475.3195	934.1378	498293.0
#2	481123.6	625.9874	102.8270	517.9940	474.5664	933.8301	497163.7
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	481.4821	464.8884	521.0230	187418.9	48.73416	482231.4	492.4290
#1	482.5892	465.1317	520.8642	187513.6	47.50207	482567.2	492.6246
#2	480.3751	464.6452	521.1816	187324.3	49.96625	481895.7	492.2334
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	513.5696	933.0908	5368.720	50.64391	207.1667	10231.25	97.26816
#1	514.6506	933.8525	5363.963	49.01907	207.3682	10201.50	93.92866
#2	512.4886	932.3291	5373.477	52.26875	206.9652	10260.99	100.6077
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		1000.000	5000.000		200.0000	10000.00	100.0000
Range		20.00000	20.00000		20.00000	20.00000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	484.2160	1015.748	1030.881	993.6639	994.1084	972.1581	62.36375
#1	484.5488	1016.496	1028.649	989.6254	994.2701	972.9512	61.24280
#2	483.8832	1015.000	1033.112	997.7025	993.9468	971.3650	63.48471
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	1000.000	1000.000	1000.000	1000.000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	41.91924	59.71723	46.10719	496.1090
#1	40.63158	56.05953	45.49879	496.5335
#2	43.20689	63.37494	46.71560	495.6845
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV3 Operator:
Run Time: 10/01/07 18:52:24
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50857.37	516.9932	508.2816	509.7540	49.01435	493.0555	104949.1
#1	50867.14	515.0961	509.6901	508.7316	49.01433	492.2118	104918.0
#2	50847.60	518.8901	506.8731	510.7765	49.01437	493.8993	104980.3
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	495.8387	489.3421	501.6514	48501.73	496.1852	104699.9	488.8334
#1	495.1660	489.1464	502.7919	48484.25	493.5488	104759.7	489.0402
#2	496.5113	489.5378	500.5108	48519.22	498.8216	104640.1	488.6266
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	498.6604	494.0043	24207.12	517.4094	504.7568	101877.4	506.4323
#1	498.9384	493.1266	24254.04	516.7743	505.1178	102030.5	504.8389
#2	498.3825	494.8821	24160.20	518.0446	504.3958	101724.2	508.0256
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	492.3342	500.9053	510.8926	505.1087	500.0410	500.2421	488.7332
#1	491.7785	500.9638	510.5891	503.8192	499.9097	499.8395	487.3617
#2	492.8899	500.8468	511.1961	506.3982	500.1721	500.6448	490.1047
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	2V
Avge	499.9110	520.7982	515.7150	489.5521
#1	496.6422	514.7306	517.7960	488.9625
#2	503.1799	526.8657	513.6340	490.1417
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB3 Operator:
Run Time: 10/01/07 19:00:46
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	7.015144	-.236740	-.521474	.0514200	.2497764	-.037008	-18.6230
#1	4.906180	-.454608	-.452615	.0323115	.2549212	-.065856	-15.9549
#2	9.124109	-.018873	-.590334	.0705285	.2446316	-.008160	-21.2911
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.196323	.1082954	-1.40792	.5350709	-.387731	7.988853	-.069539
#1	-.456832	-.187230	-1.72062	-6.58143	-.780534	7.631602	-.057706
#2	.0641854	.4038207	-1.09522	7.651573	.0050719	8.346103	-.081373
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	6.917034	-.275953	-.265923	1.102421	.2166614	-66.7642	2.463336
#1	6.435691	-.771044	-.189064	.2008060	.3073915	-63.0264	2.388027
#2	7.398377	.2191387	-.342782	2.004036	.1259312	-70.5019	2.538645
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.131557	-3.67813	.6324395	1.823948	.9690264	.0736231	1.150531
#1	.0898555	-3.62747	1.121343	1.982941	-.883244	.0225638	.3883307
#2	-.352970	-3.72878	.1435360	1.664955	2.821297	.1246824	1.912732
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-1.15699	8.097931	-2.39545	.4184844
#1	-1.36509	7.474534	-3.43618	.3742520
#2	-.948883	8.721327	-1.35473	.4627167
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV4 Operator:
Run Time: 10/01/07 20:38:21
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50754.72	517.7554	507.8403	510.5366	49.28122	495.7627	105740.2
#1	50732.68	516.4159	507.0700	510.1111	49.25966	495.8056	105744.7
#2	50776.76	519.0949	508.6106	510.9621	49.30279	495.7197	105735.8
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	498.1729	489.8334	499.7633	48647.87	496.1873	104645.0	491.1953
#1	497.6080	490.5270	499.4735	48625.81	496.5554	104613.3	491.2033
#2	498.7379	489.1398	500.0530	48669.93	495.8192	104676.7	491.1873
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	500.0226	495.0820	24092.65	514.0635	505.4121	101576.4	505.6316
#1	497.9601	493.6468	24079.77	512.1121	505.2929	101530.8	505.3241
#2	502.0850	496.5173	24105.54	516.0148	505.5312	101622.1	505.9390
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	493.3705	501.4899	511.1268	504.0787	499.8547	500.6968	489.2224
#1	493.4351	501.4464	510.7989	501.4908	499.0546	500.6628	487.8426
#2	493.3058	501.5335	511.4547	506.6667	500.6549	500.7307	490.6023
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	2V
Avge	499.6696	518.6410	511.7746	489.8626
#1	500.9117	514.5638	510.8861	489.9324
#2	498.4275	522.7183	512.6631	489.7928
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB4 Operator:
Run Time: 10/01/07 20:46:44
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	9.251022	.4646919	-.215669	.1895756	.2959275	-.026716	-3.51953
#1	19.73091	-.166998	-.088566	.2437284	.3131712	.0038368	11.55972
#2	-1.22887	1.096382	-.342772	.1354229	.2786838	-.057268	-18.5988
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	.0557703	.4918642	-1.41832	12.06038	-.019754	24.79144	.1024040
#1	.0803914	.6810988	-1.27577	10.50971	-.217237	41.40300	.2067550
#2	.0311491	.3026297	-1.56086	13.61103	.1777288	8.179873	-.001947
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	6.525121	.2825462	13.38391	.2550848	.0135252	36.71037	3.298944
#1	5.374974	-.103980	26.62192	.6979774	.0834727	209.3601	2.505550
#2	7.675268	.6690728	.1458943	-.187808	-.056422	-135.939	4.092338
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.047384	-3.32916	.0716270	1.043236	-.344084	.3039123	1.774906
#1	.0380705	-3.17194	.3096717	1.483523	1.039433	.3981808	.9312114
#2	-.132838	-3.48637	-.166418	.6029487	-1.72760	.2096439	2.618600
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-.917212	7.576641	-3.40582	.8103078
#1	-.791590	9.865346	-3.88583	1.434355
#2	-1.04283	5.287936	-2.92580	.1862607
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CRCRI Operator:
Run Time: 10/01/07 21:59:16
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	206.5142	60.98024	9.549496	207.7460	5.142223	5.241604	4999.904
#1	204.8540	60.60328	10.36929	208.0151	5.150707	5.015205	4996.382
#2	208.1744	61.35720	8.729699	207.4770	5.133739	5.468003	5003.427
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	200.0000	60.00000	10.00000	200.0000	5.000000	5.000000	5000.000
Range	30.00000	50.00000	30.00000	30.00000	30.00000	30.00000	30.00000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	9.880309	49.61989	23.25185	101.4159	9.579824	5048.426	15.06880
#1	10.02687	49.60023	22.94996	93.53950	8.854477	5047.162	15.03782
#2	9.733747	49.63954	23.55374	109.2923	10.30517	5049.690	15.09979
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	10.00000	50.00000	25.00000	100.0000	10.00000	5000.000	15.00000
Range	30.00000	30.00000	30.00000	30.00000	50.00000	30.00000	30.00000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	25.00361	41.21818	4919.034	37.48967	10.13104	4934.593	29.21588
#1	22.64608	41.07616	4922.379	36.87650	10.12210	4917.617	27.31993
#2	27.36113	41.36021	4915.690	38.10284	10.13999	4951.569	31.11183
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		40.00000	5000.000		10.00000	5000.000	25.00000
Range		30.00000	30.00000		30.00000	30.00000	50.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	51.48982	59.28493	-.421665	-.029084	-.319481	.0941010	10.11022
#1	51.39323	59.38402	-.228943	.1329440	-1.06436	.1661713	9.957203
#2	51.58641	59.18585	-.614387	-.191112	.4254008	.0220307	10.26323
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	50.00000	60.00000					
Range	30.00000	30.00000					

Elem	2/Pb	1/Se	2/Se	2V
Avge	9.314545	42.22183	35.12347	49.65146
#1	8.303073	43.43750	33.59589	49.62253
#2	10.32602	41.00616	36.65105	49.68039
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IAICSA Operator:
Run Time: 10/01/07 22:07:39
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	481167.9	.0227730	-.355150	.9363431	.0306944	-.318954	496118.3
#1	480913.5	.1239066	1.009708	.9322909	.0416607	-.256193	494652.5
#2	481422.4	-.078361	-1.72001	.9403954	.0197281	-.381716	497584.1
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	50000.00	20.00000	20.00000	5.000000	2.000000	6.000000	50000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	1.140604	1.724209	1.325828	186147.2	.7165152	479243.6	Q13.77330
#1	.9944639	2.003559	1.318137	185684.4	.4051465	478344.2	Q13.73565
#2	1.286744	1.444859	1.333520	186610.1	1.027884	480142.9	Q13.81095
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	5.000000	5.000000	10.00000	20000.00	6.000000	50000.00	5.000000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	42.59932	2.999067	-3.02411	.7166017	-.802345	-310.109	5.505423
#1	42.60783	2.657968	-4.63667	3.945498	-.899591	-251.320	.8584461
#2	42.59081	3.340166	-1.41155	-2.51229	-.705100	-368.899	10.15240
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000		.0000000	.0000000	.0000000
Range		10.00000	250.0000		3.000000	2500.000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.6264560	Q22.70192	2.009988	-.014254	-2.63033	1.127364	10.23776
#1	.5645876	Q22.64223	2.177187	.0639231	-1.78094	1.050234	10.42226
#2	.6883244	Q22.76160	1.842790	-.092430	-3.47972	1.204494	10.05327
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	25.00000	25.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-4.04424	7.715976	-2.78322	3.147478
#1	-4.60354	12.71816	-.440964	3.114883
#2	-3.48494	2.713793	-5.12547	3.180073
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IBICSAB Operator:
Run Time: 10/01/07 22:16:01
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	475649.7	622.3456	101.0324	513.7182	466.8291	921.1703	488170.6
#1	476350.6	621.2756	101.3781	514.1531	466.8577	921.8843	488231.3
#2	474948.8	623.4155	100.6867	513.2833	466.8005	920.4564	488110.0
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	472.7854	457.3561	514.3533	184246.8	47.76412	474868.9	484.2954
#1	473.0797	457.3156	515.5504	184249.8	48.00725	475132.9	484.3081
#2	472.4910	457.3967	513.1562	184243.7	47.52099	474605.0	484.2828
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	506.0873	920.3110	5358.839	47.15502	204.2371	10230.58	106.0006
#1	505.4050	918.5365	5376.913	46.42509	204.5240	10290.96	108.3286
#2	506.7697	922.0855	5340.766	47.88495	203.9502	10170.20	103.6724
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		1000.000	5000.000		200.0000	10000.00	100.0000
Range		20.00000	20.00000		20.00000	20.00000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	476.5071	998.5521	1020.539	980.1130	978.9183	959.1104	58.33730
#1	476.1642	999.1980	1020.764	977.5861	981.6677	960.4232	57.76840
#2	476.8502	997.9062	1020.313	982.6400	976.1690	957.7976	58.90619
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	1000.000	1000.000	1000.000	1000.000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	42.47741	54.30652	43.57921	487.1300
#1	43.12655	52.11470	43.58022	486.8647
#2	41.82826	56.49835	43.57820	487.3953
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV4 Operator:
Run Time: 10/01/07 22:24:23
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50794.85	519.5707	509.0569	511.7734	49.08542	493.7732	105041.4
#1	50844.44	519.9754	507.5441	511.7584	48.99082	493.5005	105010.6
#2	50745.26	519.1659	510.5697	511.7884	49.18002	494.0458	105072.2
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	496.4616	488.6340	500.9741	48540.23	495.2623	104807.2	489.2568
#1	496.4456	488.8245	501.2673	48539.60	496.7646	104847.5	489.1851
#2	496.4776	488.4435	500.6810	48540.87	493.7600	104766.9	489.3286
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	499.2425	493.4944	24252.78	516.7186	504.9312	102025.7	512.5558
#1	498.5524	493.4756	24293.28	514.7612	505.2511	102210.2	509.1979
#2	499.9326	493.5131	24212.28	518.6759	504.6114	101841.1	515.9138
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	492.4510	501.5679	512.6491	506.1043	496.9374	500.5254	488.6938
#1	492.2602	501.3241	512.7022	505.5250	497.2879	500.4282	488.4403
#2	492.6418	501.8117	512.5960	506.6835	496.5870	500.6227	488.9474
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	2V
Avge	498.5464	515.9915	517.0820	489.3270
#1	500.9265	511.8580	516.2128	489.5193
#2	496.1663	520.1249	517.9513	489.1346
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB4 Operator:
Run Time: 10/01/07 22:32:45
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	-.780394	-3.15995	-1.97974	.1336238	.2890191	.0682098	-19.9486
#1	-1.27353	-.895994	-.130332	.1504741	.3016039	-.007344	-20.0250
#2	-.287255	-5.42390	-3.82915	.1167736	.2764343	.1437634	-19.8722
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.281922	-.088340	-1.30028	7.312964	-.701334	9.069370	-.018289
#1	-.020172	.2548409	-1.14796	7.770497	-.350840	10.18214	-.055204
#2	-.543672	-.431521	-1.45260	6.855432	-1.05183	7.956600	.0186272
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	11.29016	.9277307	-6.80541	.9397750	-.260485	-121.743	5.555168
#1	13.33161	1.384613	-9.93668	1.499224	-.147878	-159.811	8.533764
#2	9.248713	.4708483	-3.67415	.3803256	-.373091	-83.6745	2.576573
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.243290	-3.55453	-.151942	1.277089	1.293375	-.011046	.3904165
#1	-.354235	-3.44144	.5521933	1.782379	1.008917	.0177515	.4735671
#2	-.132345	-3.66763	-.856077	.7717999	1.577832	-.039844	.3072659
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-1.24733	7.704735	-2.44283	-.356076
#1	-.763171	9.273644	-2.38811	-.641328
#2	-1.73150	6.135827	-2.49755	-.070824
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV4 Operator:
Run Time: 10/02/07 00:07:33
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50901.90	524.2585	511.9170	511.0635	49.51885	497.4555	106430.0
#1	50803.70	523.1069	508.0537	510.2424	49.40343	496.7793	106228.0
#2	51000.10	525.4102	515.7803	511.8846	49.63427	498.1317	106632.0
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	500.5407	493.4528	499.9725	48949.71	499.9516	105405.2	492.0276
#1	500.3846	492.6879	499.4890	48848.91	496.2371	105180.7	491.0321
#2	500.6967	494.2177	500.4561	49050.52	503.6661	105629.7	493.0230
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	501.4904	499.0028	24152.11	515.7942	506.1001	101842.6	510.7912
#1	501.3261	497.8724	24103.38	520.0821	505.3782	101640.4	509.0430
#2	501.6547	500.1332	24200.85	511.5063	506.8220	102044.8	512.5394
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	495.7332	503.9703	512.3046	504.1580	499.1630	503.4758	494.7151
#1	494.1022	503.0553	511.0768	500.3224	498.2551	502.7299	493.2514
#2	497.3641	504.8852	513.5324	507.9936	500.0709	504.2217	496.1787
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	2V
Avge	502.5698	520.2940	513.5442	492.5421
#1	497.7298	523.0999	518.5732	490.8480
#2	507.4097	517.4881	508.5152	494.2363
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB4 Operator:
Run Time: 10/02/07 00:15:55
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	-.702360	-.625363	1.068280	.1665112	.2741673	.0854637	-22.9043
#1	.5266919	-.840882	1.034664	.1564333	.2650941	.0659695	-22.0786
#2	-1.93141	-.409844	1.101895	.1765890	.2832405	.1049580	-23.7299
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.033043	.4413127	-1.21069	3.590062	-.789515	5.730893	-.053375
#1	-.276484	.4287952	-1.18558	2.408194	-1.37362	8.644856	-.027111
#2	.2103988	.4538302	-1.23581	4.771930	-.205413	2.816930	-.079639
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	9.968008	.6778793	4.418051	1.328121	.1520433	-37.8227	2.257941
#1	11.73942	.8574172	5.364968	1.122057	-.220413	-26.9748	4.540571
#2	8.196596	.4983414	3.471133	1.534184	.5244998	-48.6706	-.024689
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.131221	-3.61191	.1215979	1.282607	-.224255	.0284958	1.148185
#1	.0959133	-3.53594	-.594114	1.669453	.9825937	-.032083	.9397867
#2	-.358355	-3.68789	.8373101	.8957621	-1.43110	.0890743	1.356584
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-1.75849	5.270026	-.642959	.3659624
#1	-2.53044	4.737864	-.685974	.6886849
#2	-.986540	5.802187	-.599944	.0432399
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CRCRII Operator:
Run Time: 10/02/07 01:34:11
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	220.7863	68.57993	9.539192	209.6833	5.256695	5.224865	4998.149
#1	216.9643	72.43890	10.51317	209.3376	5.247510	5.134626	4992.678
#2	224.6082	64.72095	8.565216	210.0289	5.265879	5.315105	5003.621
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	200.0000	60.00000	10.00000	200.0000	5.000000	5.000000	5000.000
Range	30.00000	50.00000	30.00000	30.00000	30.00000	30.00000	30.00000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	Q13.27714	51.50684	23.24176	Q139.4647	9.283990	5053.148	15.02240
#1	Q13.66049	52.04908	22.98128	Q142.8134	9.107435	5051.159	14.98019
#2	12.89378	50.96461	23.50223	Q136.1160	9.460545	5055.136	15.06460
Errors	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	10.00000	50.00000	25.00000	100.0000	10.00000	5000.000	15.00000
Range	30.00000	30.00000	30.00000	30.00000	50.00000	30.00000	30.00000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	22.00072	40.66962	4899.232	38.09843	11.46251	5054.323	23.86304
#1	23.01497	40.66051	4904.399	37.21995	11.31710	5152.442	21.98297
#2	20.98648	40.67871	4894.065	38.97691	11.60792	4956.205	25.74311
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		40.00000	5000.000		10.00000	5000.000	25.00000
Range		30.00000	30.00000		30.00000	30.00000	50.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	53.07725	58.38618	1.165849	1.541128	2.307296	.5612540	11.53086
#1	53.03579	58.39576	1.413965	1.773201	3.563072	.7183463	10.55844
#2	53.11871	58.37661	.9177321	1.309055	1.051521	.4041616	12.50328
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	50.00000	60.00000					
Range	30.00000	30.00000					

Elem	2/Pb	1/Se	2/Se	2V
Avge	8.160427	42.51362	35.89071	51.63620
#1	8.381805	38.70789	36.47584	51.96158
#2	7.939048	46.31934	35.30558	51.31083
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IAICSAI Operator:
Run Time: 10/02/07 01:42:33
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	483254.1	.7677165	-1.20667	.9809799	.1340362	-1.17750	501683.8
#1	483096.7	1.104104	-3.21745	.9967631	.1280475	-1.26019	501551.3
#2	483411.4	.4313290	.8041115	.9651967	.1400250	-1.09482	501816.2
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	50000.00	20.00000	20.00000	5.000000	2.000000	6.000000	50000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	2.004200	1.703358	1.193491	187681.6	-1.14224	482216.0	Q14.56103
#1	2.291160	1.665429	1.321590	187658.3	.3061312	482076.5	Q14.47200
#2	1.717241	1.741287	1.065392	187704.8	-2.59062	482355.5	Q14.65006
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	5.000000	5.000000	10.00000	20000.00	6.000000	50000.00	5.000000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	42.67306	3.031900	1.692060	4.262953	-.273274	-254.366	6.972757
#1	41.03200	3.174504	-.762290	6.022845	-.135009	-254.000	7.119446
#2	44.31412	2.889295	4.146409	2.503061	-.411538	-254.731	6.826069
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000		.0000000	.0000000	.0000000
Range		10.00000	250.0000		3.000000	2500.000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.2159941	Q22.44455	1.845337	1.115671	-1.11671	1.337214	15.40582
#1	.3741236	Q22.36805	2.002396	1.193788	-3.62741	1.234797	15.86560
#2	.0578647	Q22.52105	1.688279	1.037554	1.393984	1.439631	14.94604
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	25.00000	25.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-9.41640	14.48567	-.848536	3.356082
#1	-7.47373	14.31644	1.875912	3.508505
#2	-11.3591	14.65489	-3.57298	3.203659
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IBICSABI Operator:
Run Time: 10/02/07 01:50:55
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	481780.8	624.0084	101.0103	517.2236	480.6032	939.6234	503191.6
#1	481721.3	625.5602	102.9273	517.5797	480.3044	940.0293	502886.2
#2	481840.2	622.4565	99.09329	516.8676	480.9019	939.2175	503497.1
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	483.4816	468.5066	521.2514	188852.8	46.71110	487454.8	495.1185
#1	482.8936	468.2772	520.7272	188748.0	48.95369	487209.7	494.7093
#2	484.0696	468.7361	521.7756	188957.6	44.46850	487699.8	495.5276
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	520.2034	939.8473	5388.656	49.87191	209.0715	10270.44	101.8784
#1	519.1485	939.6910	5391.352	51.00765	208.9258	10331.62	95.25781
#2	521.2582	940.0036	5385.960	48.73616	209.2172	10209.26	108.4989
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value		1000.000	5000.000		200.0000	10000.00	100.0000
Range		20.00000	20.00000		20.00000	20.00000	20.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	487.9013	1021.954	1039.646	997.3545	998.7368	979.4584	62.91309
#1	487.5935	1021.916	1038.546	993.3967	995.1470	978.8582	63.30754
#2	488.2090	1021.991	1040.746	1001.312	1002.327	980.0585	62.51865
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	1000.000	1000.000	1000.000	1000.000	1000.000	
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	38.60998	59.04638	45.28462	501.8352
#1	41.77665	59.06176	46.98054	501.3474
#2	35.44331	59.03101	43.58869	502.3230
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV5 Operator:
Run Time: 10/02/07 01:59:17
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50892.25	519.5441	512.6599	508.9998	50.13879	499.1105	106956.0
#1	50973.87	521.2946	515.4887	509.6712	50.33359	500.2874	107332.6
#2	50810.62	517.7935	509.8311	508.3284	49.94399	497.9336	106579.3
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	501.1654	495.7312	503.6700	49317.73	503.6047	106751.6	495.9845
#1	502.3023	496.3967	504.2436	49476.66	506.4201	107092.8	497.4052
#2	500.0285	495.0656	503.0965	49158.80	500.7892	106410.3	494.5638
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	508.1486	499.1178	24330.43	522.8475	512.4598	101813.6	513.7673
#1	510.3417	499.9042	24339.85	526.0295	513.1869	101787.6	516.0039
#2	505.9556	498.3313	24321.02	519.6657	511.7328	101839.4	511.5307
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	500.7474	507.8001	515.2391	509.8188	503.8166	506.9423	494.6996
#1	501.6524	509.3941	514.3824	509.5530	505.4051	507.7310	494.3705
#2	499.8424	506.2061	516.0958	510.0847	502.2281	506.1535	495.0288
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	2V
Avge	508.0571	526.3818	521.0803	498.5329
#1	512.4448	523.0984	527.4950	499.3440
#2	503.6694	529.6653	514.6657	497.7218
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB5 Operator:
Run Time: 10/02/07 02:07:40
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	34.44689	-1.06235	-.683170	.2659169	.2547818	.2172037	21.04133
#1	53.91500	-1.47078	-.983932	.3122220	.2765255	.1429258	46.45983
#2	14.97878	-.653916	-.382408	.2196118	.2330381	.2914816	-4.37718
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.325294	-.474554	-.522867	25.70254	-.497579	51.87469	.1366276
#1	-.150067	-.192668	-.496351	34.93121	-1.76453	77.26870	.2526539
#2	-.500521	-.756440	-.549384	16.47387	.7693693	26.48068	.0206014
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	10.55531	.6186800	-3.93485	-.396892	-.386076	-198.688	4.581504
#1	8.964757	.9904692	-7.92191	.1701354	-.056188	-192.894	3.691575
#2	12.14587	.2468908	.0522108	-.963919	-.715964	-204.482	5.471433
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.297958	-3.89571	-.092745	1.384824	-2.29572	.0888058	1.600225
#1	.0343996	-3.78873	-.130799	1.638508	-.648467	.1774850	1.075309
#2	-.630316	-4.00270	-.054691	1.131141	-3.94296	.0001266	2.125142
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-1.54661	3.425427	-2.30818	-.028136
#1	-3.18457	2.482927	-.986386	-.115747
#2	.0913574	4.367928	-3.62997	.0594743
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BLK(142) Operator:
Run Time: 10/02/07 03:31:20
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	H123.6710	.8863984	.4648490	1.315149	.2753355	-.026209	348.3746
#1	H122.8397	1.168695	.5810488	1.322193	.2898358	.0580754	350.0322
#2	H124.5023	.6041017	.3486491	1.308105	.2608352	-.110494	346.7170
Errors	LC High	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	.8231921	-1.64696	-.358931	32.84876	1.029499	76.36963	.7836241
#1	1.033851	-1.67347	-.389898	32.31003	.8262149	74.05057	.7900093
#2	.6125335	-1.62046	-.327964	33.38749	1.232784	78.68868	.7772388
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	8.063957	-1.57234	23.97693	3.687908	-.138726	525.9533	-3.39705
#1	6.132544	-1.96792	33.50135	4.367730	-.127639	546.7966	-5.07170
#2	9.995371	-1.17676	14.45252	3.008086	-.149814	505.1099	-1.72240
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High		5.000000	125.0000	10.00000	1.500000	1250.000	15.00000
Low		-5.00000	-125.000	-10.0000	-1.50000	-1250.00	-15.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.0342161	H13.27175	2.178820	-.400408	H17.90490	.8423713	8.595758
#1	-.306613	H13.37841	2.610686	-.092138	H17.66274	.9216245	9.177470
#2	.3750457	H13.16509	1.746954	-.708678	H18.14706	.7631183	8.014047
Errors	LC Pass	LC High	LC Pass	LC Pass	LC High	LC Pass	NOCHECK
High	5.000000	10.00000	7.500000	2.500000	12.50000	12.50000	
Low	-5.00000	-10.0000	-7.50000	-2.50000	-12.5000	-12.5000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-2.75376	-6.32863	8.696039	.4004078
#1	-3.34954	-5.21639	9.159650	.6410721
#2	-2.15797	-7.44088	8.232430	.1597436
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV5 Operator:
Run Time: 10/02/07 03:39:43
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	51055.61	523.4419	511.1718	516.0184	48.85537	492.5131	104614.4
#1	50806.68	523.1197	509.5587	513.9036	48.73462	490.8714	104377.9
#2	51304.54	523.7640	512.7849	518.1333	48.97612	494.1547	104851.0
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	494.0313	486.6440	500.6430	48312.39	493.0435	104028.5	485.5858
#1	492.6599	485.0609	498.0159	48181.59	492.6484	103696.4	484.1927
#2	495.4027	488.2271	503.2701	48443.19	493.4386	104360.6	486.9788
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	498.3901	493.8965	24415.76	518.3165	502.9076	102244.5	514.0215
#1	498.5601	493.8538	24289.18	518.3262	501.2254	101766.7	516.6174
#2	498.2202	493.9393	24542.34	518.3068	504.5898	102722.3	511.4256
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	490.5682	499.7566	511.1567	503.0314	497.0541	501.1970	488.5969
#1	489.0199	498.3182	508.5035	500.7946	496.9381	499.3019	486.5139
#2	492.1166	501.1951	513.8099	505.2682	497.1701	503.0919	490.6800
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	2V
Avge	495.2666	526.9673	513.9911	487.3948
#1	495.7156	526.9800	513.9993	485.9219
#2	494.8177	526.9545	513.9829	488.8677
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB5 Operator:
Run Time: 10/02/07 03:48:06
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	8.008308	-1.90763	-2.65617	.0469459	.2094009	-.142619	-12.9482
#1	8.940216	-3.18452	-1.58572	.0622055	.2013772	.0273525	-11.0553
#2	7.076402	-.630731	-3.72662	.0316863	.2174245	-.312591	-14.8411
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.086649	.5780693	-1.60710	2.499024	-2.25801	7.660622	-.094430
#1	-.020047	.9244099	-1.77570	2.118905	-1.88039	8.401751	-.081350
#2	-.153251	.2317288	-1.43850	2.879143	-2.63562	6.919492	-.107510
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	5.842801	-.573700	-5.03678	1.694634	-.362475	-105.260	5.674727
#1	7.553233	-1.04655	-5.66548	1.617576	-.101840	-120.724	6.926249
#2	4.132368	-.100855	-4.40807	1.771692	-.623110	-89.7955	4.423204
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	-.020576	-4.12781	.5450310	1.490356	.3771104	.1282348	-.659859
#1	.0909618	-4.13088	.4892247	1.994919	-.944296	.2227557	1.366377
#2	-.132114	-4.12474	.6008371	.9857921	1.698517	.0337139	-2.68610
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-3.05721	5.323308	-.119827	-.077270
#1	-3.50390	8.437425	-1.79247	-.044850
#2	-2.61051	2.209190	1.552817	-.109691
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BKS(142) Operator:
Run Time: 10/02/07 03:56:29
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	9325.286	94.69087	90.11938	992.6099	47.13849	97.11121	9830.027
#1	9267.183	93.63807	89.80736	986.3799	46.91011	96.53880	9779.279
#2	9383.390	95.74367	90.43141	998.8397	47.36688	97.68361	9880.774
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	490.5529	468.7797	477.2924	9330.719	947.7743	9236.055	945.7216
#1	487.6818	467.7121	474.7208	9286.773	943.5274	9187.388	941.6976
#2	493.4240	469.8473	479.8639	9374.664	952.0211	9284.721	949.7454
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	957.5312	481.9473	8760.188	88.74571	94.73587	9546.594	90.64105
#1	953.0856	477.0537	8727.765	89.09868	94.30223	9556.700	90.71119
#2	961.9769	486.8410	8792.610	88.39275	95.16951	9536.486	90.57092
Errors	NOCHECK	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High		600.0000	12000.00		120.0000	12000.00	120.0000
Low		400.0000	8000.000		80.00000	8000.000	80.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	484.8128	954.6283	898.5891	486.3564	497.5609	1933.730	937.4716
#1	482.8328	949.9792	894.6338	482.9305	496.6548	1923.597	935.6871
#2	486.7928	959.2774	902.5444	489.7824	498.4669	1943.863	939.2560
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	600.0000	1200.000	1200.000	600.0000	600.0000	2400.000	
Low	400.0000	800.0000	800.0000	400.0000	400.0000	1600.000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	952.9255	77.59572	94.32059	481.7670
#1	947.4476	78.48338	94.40620	479.9689
#2	958.4036	76.70805	94.23498	483.5651
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-001-001-1/1 Operator:
Run Time: 10/02/07 04:04:51
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	23714.49	2.839739	6.555960	15.82116	-.535203	-2.95326	579.2861
#1	23665.21	4.550657	7.304736	15.86239	-.531922	L-3.08377	579.9950
#2	23763.78	1.128820	5.807184	15.77992	-.538484	-2.82275	578.5773
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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	231.8231	8.035742	69.86053	234149.9	14.13100	814.9542	278.8087
#1	231.8317	7.910196	70.08347	233954.7	13.20351	816.2820	278.6942
#2	231.8146	8.161287	69.63760	234345.1	15.05849	813.6264	278.9232
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	301.2795	28.73091	327.7553	7.251226	-.156329	93.50605	9.156473
#1	300.5769	29.05073	331.5811	7.618053	.0952850	179.4900	7.276371
#2	301.9821	28.41110	323.9295	6.884397	-.407942	7.522143	11.03657
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	506.8464	81.34751	2.832997	4.156026	4.821548	12377.77	18.32391
#1	506.5826	81.57500	3.328049	4.065884	3.707207	12363.74	17.94025
#2	507.1103	81.12003	2.337945	4.246169	5.935888	12391.80	18.70756
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	12.03438	8.837336	6.458044	497.5324
#1	10.83498	6.749780	8.052063	496.7663
#2	13.23379	10.92489	4.864025	498.2985
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SP709141-001-001-1/1 Operator:
Run Time: 10/02/07 04:13:13
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	29694.15	9.316984	11.53976	124.1430	4.156870	6.383745	1466.465
#1	29630.64	9.842240	13.18081	123.9470	4.176058	6.396238	1459.672
#2	29757.66	8.791727	9.898710	124.3391	4.137681	6.371252	1473.258
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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	282.3120	56.88390	121.4560	234370.8	111.5571	1757.264	377.8240
#1	281.4936	56.39266	121.3966	233527.5	110.7124	1749.507	376.3952
#2	283.1304	57.37514	121.5155	235214.1	112.4018	1765.022	379.2527
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	399.0552	84.99240	1298.790	13.61135	9.814495	1010.098	18.66163
#1	398.8378	85.11114	1297.176	16.87017	9.668670	1066.220	17.03126
#2	399.2726	84.87367	1300.404	10.35252	9.960321	953.9764	20.29199
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	557.7808	186.9815	93.82930	45.00708	49.79382	12705.00	113.8030
#1	555.8848	186.1792	94.09185	44.68558	48.00747	12682.14	112.1489
#2	559.6767	187.7839	93.56676	45.32859	51.58019	12727.86	115.4571
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	110.4340	14.93496	12.94942	547.9090
#1	109.9940	15.28328	17.66349	546.2215
#2	110.8740	14.58664	8.235344	549.5965
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SD709141-001-001-1/1 Operator:
Run Time: 10/02/07 04:21:36
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	28477.30	8.925196	14.06024	123.4673	4.117169	6.262405	1551.543
#1	28522.46	9.582916	12.83067	123.5221	4.144449	6.082743	1548.059
#2	28432.14	8.267475	15.28982	123.4125	4.089889	6.442068	1555.027
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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	280.8112	57.14487	120.1156	233906.3	113.8518	1902.222	376.1689
#1	279.8297	57.33273	120.1940	233584.9	113.5117	1901.454	375.4330
#2	281.7928	56.95702	120.0372	234227.7	114.1918	1902.990	376.9049
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	396.5250	83.71847	1347.672	16.04703	9.889547	1090.800	19.89890
#1	396.4911	83.39714	1351.914	17.37887	9.711018	1042.400	19.81270
#2	396.5589	84.03979	1343.430	14.71519	10.06808	1139.199	19.98510
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	556.8148	185.3416	92.79539	46.46155	50.18489	12632.55	117.6091
#1	555.7905	185.0663	92.95231	46.22565	48.17670	12623.42	117.7440
#2	557.8392	185.6170	92.63847	46.69745	52.19309	12641.67	117.4742
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	111.9730	16.25616	15.94234	547.1896
#1	111.3955	18.38061	16.87788	546.2823
#2	112.5504	14.13171	15.00680	548.0969
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: PS709141-001-001-1/1 Operator:
Run Time: 10/02/07 04:29:58
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	24764.24	85.16763	84.64189	37.15653	8.917258	16.64256	5449.720
#1	24763.32	85.22003	86.77612	37.12358	8.918989	16.63332	5442.015
#2	24765.16	85.11523	82.50768	37.18949	8.915527	16.65180	5457.424
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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	251.6435	37.19835	100.0381	235908.8	91.96967	5688.893	356.0038
#1	251.0863	36.75666	99.96458	235491.8	92.16946	5684.461	355.5247
#2	252.2007	37.64003	100.1117	236325.8	91.76988	5693.324	356.4830
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	376.6539	69.25465	5274.920	76.27185	39.84199	5062.235	112.0521
#1	377.4260	69.56189	5279.557	76.15370	39.90743	5093.321	110.3382
#2	375.8818	68.94740	5270.284	76.38999	39.77655	5031.149	113.7659
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	525.4387	161.6659	71.66127	34.09354	104.9601	12310.82	96.43842
#1	524.7445	161.2902	71.93536	34.14857	104.1126	12300.46	96.11565
#2	526.1330	162.0416	71.38718	34.03850	105.8077	12321.17	96.76119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	89.73518	78.48814	75.16358	516.3763
#1	90.19624	80.33844	74.06122	515.3554
#2	89.27411	76.63785	76.26595	517.3972
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SE709141-001-001-1/1 Operator:
Run Time: 10/02/07 04:38:20
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	4996.918	.6700449	.2531780	3.299646	.0964884	-1.00536	98.38863
#1	4989.123	-1.26961	.7595419	3.290301	.0901763	-.874767	98.55301
#2	5004.713	2.609700	-.253186	3.308991	.1028004	-1.13595	98.22424
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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	48.18415	1.520780	12.79083	48853.79	1.723077	169.1602	57.70501
#1	47.91019	1.178410	12.96547	48764.27	1.240285	171.4824	57.67770
#2	48.45811	1.863150	12.61619	48943.30	2.205870	166.8381	57.73232
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	69.50108	6.106336	60.33709	2.701660	.2017686	-14.7477	3.051515
#1	70.45634	6.325697	56.37829	3.490496	.0551838	-34.8915	1.133849
#2	68.54582	5.886975	64.29589	1.912825	.3483534	5.396172	4.969181
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	104.5611	15.34340	.3218557	.7574099	.6134350	2539.771	4.713564
#1	104.6051	15.38306	.2158282	.8452774	-.871763	2535.850	3.645378
#2	104.5171	15.30374	.4278831	.6695424	2.098633	2543.692	5.781751
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	.2277177	8.064036	.0203505	102.9925
#1	.0376170	9.700104	.3855705	102.7294
#2	.4178184	6.427969	-.344870	103.2555
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-002-002-1/1 Operator:
Run Time: 10/02/07 04:46:43
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	15686.98	3.890513	6.360011	23.52756	-.915650	-2.94391	640.3694
#1	15742.06	2.472553	7.597764	23.67894	-.900871	-2.91748	642.6884
#2	15631.90	5.308472	5.122259	23.37619	-.930430	-2.97034	638.0505
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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	349.0688	13.03103	106.5288	209509.7	23.57967	1162.549	358.2199
#1	350.1613	12.99370	106.9106	210213.8	23.87488	1166.513	359.4244
#2	347.9762	13.06837	106.1471	208805.5	23.28446	1158.584	357.0153
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	376.6077	57.04874	318.9795	2.804463	-.043633	23.06758	3.089117
#1	377.4257	57.25708	325.6534	4.076608	.1605560	42.88525	2.200744
#2	375.7898	56.84041	312.3056	1.532319	-.247821	3.249912	3.977489
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	569.7949	116.7525	1.582650	2.470219	3.937397	13484.73	29.54359
#1	571.9633	117.3704	1.100291	2.300052	4.888730	13546.91	29.84331
#2	567.6265	116.1347	2.065009	2.640385	2.986063	13422.54	29.24388
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	20.59759	6.580716	.9162140	557.9737
#1	20.89055	8.300714	1.964432	559.9714
#2	20.30463	4.860719	-.132004	555.9760
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-003-003-1/1 Operator:
Run Time: 10/02/07 04:55:05
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	20128.76	10.10830	6.075954	23.43586	-1.15855	L-3.34463	843.6054
#1	20127.18	10.48701	4.579921	23.44856	-1.16160	L-3.40610	844.6528
#2	20130.34	9.729591	7.571987	23.42316	-1.15550	L-3.28316	842.5579
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	264.9351	11.40364	193.7483	236897.4	173.9753	1200.021	392.4864
#1	264.8800	11.39883	193.7479	236963.2	173.5174	1200.297	392.7099
#2	264.9901	11.40844	193.7487	236831.6	174.4333	1199.744	392.2629
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	413.0414	38.35298	297.1233	1.604052	.1127188	25.98220	10.97876
#1	413.7403	37.94896	300.8685	3.642179	.3613787	120.7838	7.903182
#2	412.3424	38.75700	293.3781	-.434074	-.135941	-68.8194	14.05433
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	598.5865	147.9498	1.522519	3.647404	16.57066	15152.27	175.3787
#1	599.7345	147.9913	1.824585	3.575995	16.63942	15163.50	175.2631
#2	597.4385	147.9084	1.220452	3.718812	16.50190	15141.03	175.4942
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	173.2735	3.597988	.6069603	586.5875
#1	172.6444	3.550515	3.687885	587.5831
#2	173.9027	3.645460	-2.47396	585.5919
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-004-004-1/1 Operator:
Run Time: 10/02/07 05:03:27
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	12650.74	4.030775	5.744320	19.12459	-1.01343	-2.68774	443.5620
#1	12669.87	4.883131	5.471193	19.14943	-1.01783	-2.90879	442.6079
#2	12631.61	3.178419	6.017448	19.09974	-1.00903	-2.46668	444.5161
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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	215.4933	10.57307	87.49082	186312.8	35.75607	936.3958	300.3854
#1	215.3879	10.47670	87.26159	186230.7	36.72458	937.6739	300.4611
#2	215.5988	10.66944	87.72006	186394.9	34.78757	935.1176	300.3097
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	316.5174	34.98955	195.6093	-1.56316	-.053848	44.11785	10.03092
#1	316.4199	35.71238	200.6472	-.089680	-.065162	65.51980	11.92695
#2	316.6149	34.26673	190.5714	-3.03663	-.042535	22.71590	8.134885
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	549.7634	99.83601	.4381914	2.938379	10.46985	13500.11	39.03326
#1	549.7748	99.63275	.9314976	3.095410	10.78924	13526.03	38.17213
#2	549.7520	100.0393	-.055115	2.781347	10.15046	13474.19	39.89439
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	34.11736	-1.61074	-1.53949	537.4991
#1	36.00069	-1.99532	.8630104	537.6548
#2	32.23404	-1.22616	-3.94199	537.3436
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-005-005-1/1 Operator:
Run Time: 10/02/07 05:11:49
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	59238.98	1.619226	7.072238	47.75795	-.252565	L-3.52888	117.6750
#1	59126.32	3.407106	6.948039	47.78303	-.248135	L-3.38086	117.1128
#2	59351.62	-.168654	7.196438	47.73287	-.256994	L-3.67690	118.2374
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	366.2282	4.717530	87.47438	215676.1	13.86559	587.1461	274.7620
#1	365.3449	4.774248	87.11694	215100.5	13.82461	587.1915	273.8432
#2	367.1113	4.660812	87.83182	216251.7	13.90657	587.1008	275.6808
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	292.9716	122.2146	220.3123	7.941196	-.052705	101.9308	10.33564
#1	292.0525	121.7614	225.3083	7.092851	-.176074	143.9669	9.170521
#2	293.8907	122.6678	215.3162	8.789542	.0706631	59.89465	11.50076
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	386.6936	66.67416	.7555566	2.332366	.1559405	9606.797	17.11030
#1	385.7608	66.63355	.6736641	2.572831	.9953101	9582.455	17.32487
#2	387.6264	66.71477	.8374491	2.091901	-.683429	9631.138	16.89572
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	12.24308	9.460561	7.181391	380.5877
#1	12.07431	9.992061	5.643124	379.4259
#2	12.41184	8.929061	8.719658	381.7495
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV5 Operator:
Run Time: 10/02/07 05:25:53
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50706.57	522.2129	508.5117	514.2206	48.80045	492.4142	104669.3
#1	51329.26	527.8419	513.5260	519.7282	49.29362	497.1187	105661.5
#2	50083.88	516.5839	503.4974	508.7131	48.30727	487.7098	103677.1
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	493.2664	486.6519	496.8402	48210.29	492.4077	103630.9	483.4228
#1	497.7726	491.5383	502.6547	48662.84	498.5032	104626.1	488.1419
#2	488.7602	481.7656	491.0257	47757.75	486.3122	102635.8	478.7037
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	497.3121	493.3277	24211.00	518.9945	500.5881	101408.1	513.6163
#1	501.3424	497.7886	24460.87	523.0496	505.8686	102585.9	517.6197
#2	493.2819	488.8668	23961.13	514.9393	495.3077	100230.3	509.6128
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	488.6364	497.7769	510.2083	501.5570	492.8768	496.0295	487.7246
#1	492.9409	502.5018	514.1987	503.7822	498.3974	500.7866	491.3813
#2	484.3319	493.0519	506.2179	499.3319	487.3562	491.2724	484.0680
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	2V
Avge	494.7491	520.9678	518.0077	485.4242
#1	502.0641	525.0002	522.0743	489.7051
#2	487.4342	516.9353	513.9412	481.1433
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB5 Operator:
Run Time: 10/02/07 05:34:16
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	8.616177	-2.52357	-1.67923	.1128158	.3009673	-.130319	-24.0962
#1	8.950919	-3.14758	-.276464	.1230793	.3038838	-.247812	-23.5257
#2	8.281434	-1.89956	-3.08200	.1025523	.2980507	-.012826	-24.6667
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.263938	-.268972	-1.92115	4.010150	-.950721	7.712188	-.082848
#1	-.329128	-.206428	-1.86856	6.722762	-1.81291	12.04176	-.107828
#2	-.198749	-.331517	-1.97374	1.297538	-.088537	3.382614	-.057868
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	9.305145	.1739223	-1.95517	1.815712	-.338194	-163.173	2.221730
#1	9.524892	-.123145	-3.46098	2.550727	-.123287	-204.436	1.148269
#2	9.085398	.4709891	-.449369	1.080698	-.553102	-121.909	3.295191
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.1405799	-4.13385	-.309554	.6628579	-1.37298	.1758933	-2.56189
#1	.5784715	-4.12061	-.498947	.7677894	-2.85785	.3017028	-5.16639
#2	-.297312	-4.14708	-.120161	.5579263	.1118894	.0500838	.0426030
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-.145263	4.088677	.6791062	.1059001
#1	-.136293	1.211408	3.220260	-.122310
#2	-.154233	6.965947	-1.86205	.3341098
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: S 709141-006-006-1/1 Operator:
Run Time: 10/02/07 05:42:39
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	11489.51	2.944242	3.903249	19.75410	-.926181	L-3.34156	461.5808
#1	11502.02	4.111201	2.603328	19.74321	-.930086	L-3.49842	462.4925
#2	11477.00	1.777282	5.203169	19.76500	-.922277	L-3.18471	460.6690
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	190.5974	14.15156	89.48897	211319.8	10.02583	863.0681	375.7445
#1	191.1025	13.78762	89.68225	211802.7	10.17487	860.6653	376.5159
#2	190.0924	14.51551	89.29569	210836.9	9.876792	865.4708	374.9730
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	399.5108	32.95379	113.3499	2.211592	-.439138	85.35402	8.443212
#1	397.4590	32.82527	117.4768	1.439617	-.067678	102.5169	10.31643
#2	401.5626	33.08231	109.2229	2.983568	-.810598	68.19118	6.569995
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	598.7735	119.2436	1.495670	3.123173	2.671392	13607.33	13.25105
#1	599.2421	119.5369	1.346766	3.203217	2.901200	13637.98	12.84709
#2	598.3049	118.9503	1.644573	3.043130	2.441584	13576.69	13.65500
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	8.413104	1.125155	2.754684	586.0398
#1	8.838644	1.785556	1.266522	586.6990
#2	7.987564	.4647534	4.242847	585.3806
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-007-007-1/1 Operator:
Run Time: 10/02/07 05:51:01
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	26252.62	4.250603	4.822950	27.01385	-.688023	L-3.27408	741.2714
#1	26263.28	4.045758	4.897588	27.07010	-.702180	L-3.60300	739.8510
#2	26241.96	4.455448	4.748313	26.95760	-.673866	-2.94516	742.6918
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	409.7452	12.12002	96.65666	218922.5	64.20481	1492.019	383.5513
#1	409.9783	12.03453	96.71468	218672.3	64.05907	1489.024	383.3032
#2	409.5122	12.20552	96.59865	219172.6	64.35055	1495.013	383.7995
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	403.1482	83.50227	355.9117	3.782079	.0118885	69.42036	5.268261
#1	403.9163	83.46208	359.8271	3.273262	.2503385	84.78931	8.930553
#2	402.3800	83.54247	351.9964	4.290896	-.226561	54.05141	1.605969
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	493.7353	103.0533	1.700173	4.096052	6.531168	11976.35	68.90655
#1	493.1820	102.6971	1.561967	4.078562	6.106844	11972.66	70.11597
#2	494.2887	103.4095	1.838379	4.113543	6.955491	11980.05	67.69713
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	61.85382	9.296511	1.024740	484.5270
#1	61.03051	6.220997	1.799271	483.8352
#2	62.67714	12.37203	.2502098	485.2188
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-008-008-1/1 Operator:
Run Time: 10/02/07 05:59:24
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	25444.43	5.123606	6.621288	27.73428	-.755794	L-3.80524	394.8339
#1	25403.29	3.902231	4.798807	27.73789	-.744269	L-3.82578	393.7892
#2	25485.57	6.344980	8.443770	27.73068	-.767318	L-3.78470	395.8785
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	483.1403	11.68232	126.9290	262367.2	66.55882	1153.991	388.8781
#1	481.6326	11.81319	126.8580	261718.4	66.19472	1149.542	388.2127
#2	484.6480	11.55146	127.0000	263016.0	66.92293	1158.441	389.5436
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	412.2092	72.52123	295.9558	3.037370	.2281930	148.6908	8.080799
#1	412.4691	71.35401	298.9772	2.992679	.3875224	151.6067	3.258980
#2	411.9493	73.68845	292.9345	3.082061	.0688637	145.7749	12.90262
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	579.5610	113.8644	.9886346	3.578577	6.543501	13883.31	70.76764
#1	578.2923	113.6376	1.159520	3.535837	6.507572	13859.12	70.90936
#2	580.8297	114.0912	.8177490	3.621316	6.579429	13907.49	70.62592
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	64.45429	7.148674	.9815941	569.2822
#1	63.83728	7.360496	.8086472	567.8842
#2	65.07130	6.936852	1.154541	570.6804
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-009-009-1/1 Operator:
Run Time: 10/02/07 06:07:46
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	13012.09	3.365316	4.391065	15.52662	-1.25318	L-3.26279	247.5443
#1	13203.23	4.775008	2.527233	15.82411	-1.22099	L-3.15272	250.6211
#2	12820.95	1.955624	6.254896	15.22914	-1.28537	L-3.37285	244.4675
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	464.8374	20.18652	114.6985	214198.9	14.43761	1522.132	433.3725
#1	471.3003	20.49914	116.2763	217108.4	15.08769	1541.960	439.3517
#2	458.3745	19.87389	113.1207	211289.5	13.78754	1502.303	427.3933
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	452.8752	83.99301	139.2499	-2.04773	-.242215	39.79972	9.117789
#1	459.7678	84.86503	142.3897	-3.11901	-.278972	25.63812	7.166677
#2	445.9827	83.12099	136.1101	-.976458	-.205457	53.96131	11.06890
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	730.1133	131.2956	.3893409	3.835025	5.141568	17246.36	18.28422
#1	739.9132	133.0025	.5712862	4.005024	5.153127	17503.93	17.46755
#2	720.3134	129.5888	.2073956	3.665026	5.130009	16988.80	19.10089
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	12.51419	-.012674	-3.06539	713.2307
#1	13.89762	-.586492	-4.38540	722.7590
#2	11.13075	.5611441	-1.74538	703.7024
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-010-010-1/1 Operator:
Run Time: 10/02/07 06:16:09
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	12618.73	4.174893	8.083392	12.76826	-1.28343	L-3.37321	148.7414
#1	12630.94	5.409985	4.953663	12.77956	-1.25974	L-3.50041	148.9458
#2	12606.51	2.939802	11.21312	12.75696	-1.30713	L-3.24602	148.5369
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	384.7359	14.70358	91.83463	217062.3	15.48991	1140.163	382.4652
#1	384.2723	14.27127	92.07742	217023.6	15.64336	1141.735	382.4317
#2	385.1995	15.13589	91.59183	217100.9	15.33646	1138.592	382.4988
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	402.5482	58.03363	145.3607	2.215165	-.282681	130.3166	10.01010
#1	402.0024	58.23066	146.8579	.0294316	-.045096	87.68501	7.779441
#2	403.0940	57.83660	143.8634	4.400899	-.520265	172.9481	12.24075
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	696.1861	105.4054	.7346606	4.162102	6.035636	16411.20	19.90117
#1	695.7483	105.1937	.4348926	4.409774	6.007256	16404.53	20.46387
#2	696.6238	105.6170	1.034429	3.914431	6.064015	16417.87	19.33847
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	13.28415	9.686239	-1.52049	680.5879
#1	13.23298	8.652226	-4.28209	680.1539
#2	13.33533	10.72025	1.241100	681.0219
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-011-011-1/1 Operator:
Run Time: 10/02/07 06:24:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	39872.78	4.335748	7.208389	19.09954	-.898603	L-4.40632	353.1433
#1	39838.48	4.684794	8.034087	19.06262	-.899730	L-4.33508	353.8005
#2	39907.08	3.986701	6.382691	19.13647	-.897476	L-4.47755	352.4861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	464.2829	4.786615	90.47061	299270.2	29.56849	733.1860	321.2393
#1	464.9476	4.955906	90.72997	299529.9	29.79202	733.0463	321.5964
#2	463.6182	4.617325	90.21126	299010.5	29.34495	733.3256	320.8820
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	344.7545	53.30209	193.6547	7.817496	-.111965	110.0389	9.104959
#1	344.3316	53.86614	194.5515	6.546810	-.066265	151.2742	7.872476
#2	345.1775	52.73803	192.7579	9.088183	-.157666	68.80371	10.33744
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	618.6701	77.88754	1.164331	4.554780	7.582660	15038.77	34.48805
#1	618.9935	77.96997	1.415914	5.275752	8.567629	15045.26	34.64084
#2	618.3467	77.80512	.9127483	3.833808	6.597691	15032.29	34.33526
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	27.10858	10.79189	6.330173	607.7391
#1	27.36749	6.177864	6.731155	608.2115
#2	26.84968	15.40592	5.929192	607.2668
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709141-012-012-1/1 Operator:
Run Time: 10/02/07 06:32:54
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	35395.36	2.287426	7.685543	10.30279	-.804926	L-4.47296	87.00287
#1	35448.10	3.371904	8.694902	10.29701	-.821266	L-4.52960	87.18848
#2	35342.62	1.202948	6.676185	10.30858	-.788585	L-4.41633	86.81726
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	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	-3.00000	-1000.00

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	517.3765	5.262315	69.12420	288903.4	14.65032	556.6453	287.9855
#1	516.8989	5.256788	69.10524	288915.4	13.96116	553.8581	288.0659
#2	517.8542	5.267841	69.14316	288891.3	15.33948	559.4324	287.9051
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	313.5836	49.28678	156.6095	6.403842	-.177698	81.24390	8.290382
#1	312.8622	49.47729	157.9865	6.008272	-.132535	63.38641	8.257931
#2	314.3049	49.09626	155.2326	6.799411	-.222861	99.10138	8.322834
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	105000.0	7875.000	50000.00	2100.000	1050.000	525000.0	2100.000
Low	-15.0000	-10.0000	-250.000	-20.0000	-3.00000	-2500.00	-30.0000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	615.7509	69.99936	-.018338	3.539782	3.789141	14174.66	19.43836
#1	615.9138	70.24806	-.296860	3.874932	4.016714	14181.15	18.64642
#2	615.5878	69.75066	.2601833	3.204632	3.561568	14168.17	20.23030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	3150.000	5250.000	10500.00	10500.00	21000.00	
Low	-10.0000	-20.0000	-15.0000	-5.00000	-25.0000	-10.0000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	12.25612	9.469580	4.870850	604.4888
#1	11.61835	10.76723	3.628670	604.8704
#2	12.89390	8.171925	6.113029	604.1072
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV6 Operator:
Run Time: 10/02/07 07:12:06
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	51739.12	531.4746	518.5358	524.1310	50.20203	506.4447	107870.4
#1	51708.45	528.1504	517.0747	523.4707	50.11265	505.6891	107706.5
#2	51769.79	534.7988	519.9969	524.7913	50.29140	507.2004	108034.3
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	506.4838	498.8153	505.9768	49510.12	505.7946	106242.9	495.3949
#1	505.2061	497.6247	505.7085	49451.00	505.2661	106087.8	494.5419
#2	507.7616	500.0060	506.2451	49569.25	506.3231	106398.0	496.2479
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	508.4175	505.5376	24495.34	525.5303	511.9495	102912.2	526.4809
#1	506.5766	505.0241	24492.93	526.0823	510.9109	102927.1	524.4906
#2	510.2584	506.0511	24497.75	524.9782	512.9880	102897.3	528.4712
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		500.0000	25000.00	500.0000	500.0000	100000.0	500.0000
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	500.7958	510.2505	518.8572	514.9688	508.6507	504.4967	497.9598
#1	499.6179	509.5756	519.4906	511.7351	509.2144	503.7197	495.9230
#2	501.9737	510.9254	518.2239	518.2024	508.0870	505.2737	499.9967
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	2V
Avge	509.7119	531.0016	522.7945	497.3891
#1	509.9376	531.2811	523.4829	496.3572
#2	509.4862	530.7221	522.1061	498.4210
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB6 Operator:
Run Time: 10/02/07 07:20:30
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	10.71346	-2.49517	-1.08892	.1950397	.3279047	-.052945	-4.37217
#1	17.53119	-2.89855	-1.65559	.2851853	.3353657	.0652941	7.379298
#2	3.895721	-2.09179	-.522242	.1048940	.3204436	-.171183	-16.1236
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	10.00000	15.00000	2.000000	5.000000	1000.000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	-.062579	.1929656	-1.51805	11.37220	-1.82821	26.79227	.0085227
#1	-.064260	-.141960	-1.38601	17.31310	-2.27176	38.74404	.0977500
#2	-.060898	.5278907	-1.65009	5.431304	-1.38466	14.84049	-.080705
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	9.997105	.6542711	1.897558	1.454520	.0919885	-62.2157	6.260584
#1	9.831119	.4283359	3.372921	1.618659	.2863412	-71.4342	5.837987
#2	10.16309	.8802063	.4221938	1.290382	-.102364	-52.9973	6.683181
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range		10.00000	250.0000	5.000000	3.000000	2500.000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	.0064627	-3.94684	.2014658	1.243152	-.858584	.3607582	-.692322
#1	.1456462	-3.97945	.1280568	1.885828	-.235199	.3647162	-2.05696
#2	-.13272i	-3.91424	.2748747	.6004765	-1.48197	.3568003	.6723168
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	
Range	10.00000	20.00000	15.00000	5.000000	20.00000	20.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	-2.39628	2.654254	.8545285	.2258425
#1	-2.37929	1.980117	1.437807	.2682987
#2	-2.41327	3.328391	.2712504	.1833861
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

GPL Laboratories, LLLP | ICP ANALYSIS LOG | *Document Control No: GP_M_178*

Instrument ID: Trace (424690) Inst. Method: TRACEPb Nebulizer: Cavlon Analytical Batch No: 071004
Profile: 0.004354 Intensity: 6904 At Setting: 464

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
709141	SC&A	100650	143	S	9-26-07	6010C	Pb only ; 10x dilution all samples
709141	SC&A	100668	144	S	9-26-07	6010C	↓

5-OCT-07

Source Solution Numbers

Stds.	Number	Stds.	Number
S0	129-116-08	ICV	41804
S1	41233	CCV	41821
S2	41234	ICSA	41647
S3	–	ICSAB	41806
S4	41816	CRI	–
S5	–	Low Ck	41820
Ints	41746	LR	41613

Post Digestion Spikes

Spike 9.9 mls of sample with 0.1 mls of 41513

Samples:

709141-013-013-1/1

709141-033-033-1/1

Analyst: RES Date: 5/OCT/07 Reviewed: [signature] Date: 5/Oct/2007

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	Seq
1	STD0	1	10/4/2007	11:00	31	S 709141-010-010-1/1	1	10/4/2007	15:48	61	CVCCV4 K	1	10/4/2007	20:43	
2	STD1	1	10/4/2007	11:09	32	S 709141-020-020-1/1	1	10/4/2007	15:57	62	BCCCB4	1	10/4/2007	20:53	
3	STD2	1	10/4/2007	11:19	33	S 709141-021-021-1/1	1	10/4/2007	16:06	63	S 709141-037-037-1/1	1	10/4/2007	21:02	
4	STD3	1	10/4/2007	11:28	34	S 709141-022-022-1/1	1	10/4/2007	16:16	64	S 709141-038-038-1/1	1	10/4/2007	21:12	
5	STD4	1	10/4/2007	11:38	35	S 709141-023-023-1/1	1	10/4/2007	16:25	65	S 709141-039-039-1/1	1	10/4/2007	21:21	
6	ICV	1	10/4/2007	11:41	36	S 709141-024-024-1/1	1	10/4/2007	16:34	66	S 709141-040-040-1/1	1	10/4/2007	21:30	
7	BICB	1	10/4/2007	11:50	37	S 709141-025-025-1/1	1	10/4/2007	16:44	67	S 709141-041-041-1/1	1	10/4/2007	21:39	
8	CVCCV	1	10/4/2007	11:59	38	S 709141-026-026-1/1	1	10/4/2007	16:53	68	S 709141-042-042-1/1	1	10/4/2007	21:49	
9	BCCCB	1	10/4/2007	12:09	39	CVCCV3 K	1	10/4/2007	17:02	69	S 709141-043-043-1/1	1	10/4/2007	21:58	
10	PQL AR	1	10/4/2007	12:18	40	BCCCB3	1	10/4/2007	17:15	70	S 709141-044-044-1/1	1	10/4/2007	22:07	
11	PQL Al, Fe, Mn, K	1	10/4/2007	12:31	41	S 709141-027-027-1/1	1	10/4/2007	17:24	71	BICSAI Ca, P,	1	10/4/2007	22:26	
12	BICSAI Ca, Mn, Fe	1	10/4/2007	12:41	42	S 709141-028-028-1/1	1	10/4/2007	17:33	72	BICSAB	1	10/4/2007	22:25	
13	BICSABI	1	10/4/2007	12:50	43	S 709141-029-029-1/1	1	10/4/2007	17:43	73	CVCCV5 K	1	10/4/2007	22:35	
14	LR	1	10/4/2007	13:00	44	S 709141-030-030-1/1	1	10/4/2007	17:52	74	BCCCB5	1	10/4/2007	22:40	
15	CVCCV3 K	1	10/4/2007	13:15	45	S 709141-031-031-1/1	1	10/4/2007	18:02						
16	BCCCB3	1	10/4/2007	13:25	46	S 709141-032-032-1/1	1	10/4/2007	18:11						
17	BLK100850	1	10/4/2007	13:34	47	BICSAI Ca, P, Zn	1	10/4/2007	18:20						
18	BLKS100850	1	10/4/2007	13:44	48	BICSABI	1	10/4/2007	18:30						
19	S 709141-013-013-1/1	1	10/4/2007	13:53	49	CVCCV4 K	1	10/4/2007	18:45						
20	SP709141-013-013-1/	1	10/4/2007	14:02	50	BCCCB4	1	10/4/2007	18:55						
21	SD709141-013-013-1/	1	10/4/2007	14:12	51	BLK 144	1	10/4/2007	19:07						
22	PS709141-013-013-1/	1	10/4/2007	14:21	52	BKS 144	1	10/4/2007	19:17						
23	SE709141-013-013-1/	50	10/4/2007	14:30	53	S 709141-033-033-1/1	1	10/4/2007	19:26						
24	S 709141-014-014-1/1	1	10/4/2007	14:39	54	SP709141-033-033-1/	1	10/4/2007	19:35						
25	S 709141-015-015-1/1	1	10/4/2007	14:49	55	SD709141-033-033-1/	1	10/4/2007	19:45						
26	S 709141-016-016-1/1	1	10/4/2007	14:58	56	PS709141-033-033-1/	1	10/4/2007	19:54						
27	CVCCV3 K	1	10/4/2007	15:10	57	SE709141-033-033-1/	50	10/4/2007	20:03						
28	BCCCB3	1	10/4/2007	15:20	58	S 709141-034-034-1/1	1	10/4/2007	20:12						
29	S 709141-017-017-1/1	1	10/4/2007	15:29	59	S 709141-035-035-1/1	1	10/4/2007	20:22						
30	S 709141-018-018-1/1	1	10/4/2007	15:38	60	S 709141-036-036-1/1	1	10/4/2007	20:31						

Analyst Signature: AR Date: 10-5-07 Analyst Signature:

Sample Dilutions:

Sample Dilutions:

Method: TRACEPB Standard: STD0
Run Time: 10/04/07 11:00:26

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	.02675	.00506	-.00080	.00607	-.00675	-.00076	.07863
#1	.02685	.00595	-.00242	.00595	-.00657	-.00112	.07918
#2	.02665	.00416	.00081	.00619	-.00692	-.00039	.07807

Elem	CR	CO	CU	FE	MG	MN	NI
Avge	.00074	-.00172	.03269	.00316	.00032	.00083	-.01407
#1	.00065	-.00126	.03281	.00267	.00042	.00070	-.01402
#2	.00084	-.00218	.03256	.00366	.00022	.00095	-.01412

Elem	K	AG	NA	TL	V	ZN	B
Avge	.00676	.00146	-.00081	-.00493	.00008	.00133	.00230
#1	.00607	.00143	-.00098	-.00551	.00008	.00146	.00225
#2	.00745	.00148	-.00064	-.00435	.00008	.00120	.00234

Elem	MO	SN	SR	TI	1/PB	2/PB	1/SE
Avge	.00137	.00122	.00634	.00130	.00044	-.00410	-.01143
#1	.00163	.00163	.00629	.00132	.00376	-.00494	-.01039
#2	.00112	.00081	.00639	.00128	-.00287	-.00326	-.01247

Elem	2/SE	TE	ZR	SI
Avge	.01565	-.02188	3.9477	.08202
#1	.01194	-.01755	3.9576	.08109
#2	.01937	-.02620	3.9378	.08296

Method: TRACEPB Standard: STD1
Run Time: 10/04/07 11:09:45

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	6.3139	.43399	.35307	2.8700	.11474	2.5154	.75604
#1	6.3129	.43564	.35546	2.8681	.11506	2.5216	.75866
#2	6.3149	.43234	.35067	2.8720	.11441	2.5092	.75343

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	.83591	1.0291	6.6873	1.2320	1.2693	.53159	.17591
#1	.83653	1.0334	6.6974	1.2345	1.2694	.53332	.17572
#2	.83530	1.0248	6.6773	1.2295	1.2693	.52985	.17609

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.20355	.37661	.72874	.50604	.42803	3.4624	1.7095
#1	.20440	.37731	.72890	.50598	.42880	3.4646	1.7154
#2	.20270	.37592	.72857	.50610	.42727	3.4601	1.7036

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1.1259	1.3808	.35460	.76253	.48488	4.5737	.35090
#1	1.1324	1.3884	.35837	.76125	.48422	4.5843	.35022
#2	1.1195	1.3731	.35084	.76381	.48554	4.5631	.35158

Method: TRACEPB Standard: STD2
Run Time: 10/04/07 11:19:24

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	12.439	.86526	.70557	5.6988	.23696	5.0162	1.5079
#1	12.451	.86764	.70816	5.7209	.23804	5.0294	1.5093
#2	12.427	.86288	.70299	5.6767	.23587	5.0030	1.5065

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	1.6749	2.0404	13.334	2.4614	2.5428	1.0596	.35894
#1	1.6772	2.0518	13.357	2.4653	2.5475	1.0620	.35898
#2	1.6726	2.0289	13.312	2.4575	2.5382	1.0571	.35891

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.40774	.74846	1.4439	1.0111	.86040	6.9002	3.4395
#1	.40926	.74933	1.4496	1.0102	.86358	6.9372	3.4584
#2	.40622	.74758	1.4382	1.0119	.85722	6.8632	3.4205

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	2.2474	2.7288	.72001	1.5057	.99963	5.1566	.61582
#1	2.2440	2.7258	.72086	1.5100	1.0028	5.1000	.61620
#2	2.2508	2.7317	.71915	1.5014	.99648	5.2133	.61544

Method: TRACEPB Standard: STD3
Run Time: 10/04/07 11:28:42

Elem	CA	MG	K	NA
Avge	25.625	8.8799	11.018	2.9801
#1	25.696	8.9010	10.999	2.9786
#2	25.554	8.8587	11.037	2.9817

Method: TRACEPB Standard: STD4
Run Time: 10/04/07 11:35:32

Elem	1/PB	2/PB
Avge	4.4669	5.4425
#1	4.4512	5.4520
#2	4.4826	5.4330

Standardization Report 10/04/07 11:41:02 AM page 1

Method: TRACEPB Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AL	308.215	Multiple	Standards	8003.26	-215.707	10/04/07 11:19:24
SB	206.838	Multiple	Standards	1160.41	-5.86381	10/04/07 11:19:24
AS	189.042	Multiple	Standards	1402.26	1.12389	10/04/07 11:19:24
BA	493.409	Multiple	Standards	175.211	-1.07203	10/04/07 11:19:24
BE	313.042	Multiple	Standards	416.462	2.80998	10/04/07 11:19:24
CD	226.502	Multiple	Standards	201.260	.148517	10/04/07 11:19:24
CA	317.933	STD3	STD0	1.06873	-.050970	10/04/07 11:35:32
CR	267.716	Multiple	Standards	662.178	-.493889	10/04/07 11:19:24
CO	228.616	Multiple	Standards	597.881	1.02953	10/04/07 11:19:24
CU	324.753	Multiple	Standards	499.506	-16.3172	10/04/07 11:19:24
FE	271.441	Multiple	Standards	7497.40	-24.0522	10/04/07 11:19:24
PB	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
MG	279.078	STD3	STD0	.981494	-.000195	10/04/07 11:35:32
MN	257.610	Multiple	Standards	405.630	-.335730	10/04/07 11:19:24
NI	231.604	Multiple	Standards	390.542	5.48915	10/04/07 11:19:24
K	766.491	STD3	STD0	.939353	-.010475	10/04/07 11:35:32
SE	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
AG	328.068	Multiple	Standards	944.199	-1.37700	10/04/07 11:19:24
NA	330.232	STD3	STD0	.763252	-.000737	10/04/07 11:35:32
TL	190.864	Multiple	Standards	2814.93	13.8828	10/04/07 11:19:24
V	292.402	Multiple	Standards	2445.79	-.203213	10/04/07 11:19:24
ZN	206.200	Multiple	Standards	1336.34	-1.78335	10/04/07 11:19:24
B	249.678	Multiple	Standards	690.064	-1.59372	10/04/07 11:19:24
MO	202.030	Multiple	Standards	990.578	-1.35927	10/04/07 11:19:24
SN	189.989	Multiple	Standards	1170.23	-1.41857	10/04/07 11:19:24
SR	421.552	Multiple	Standards	144.866	-.921861	10/04/07 11:19:24
TI	334.941	Multiple	Standards	291.805	-.371946	10/04/07 11:19:24
1/PB	220.351	Multiple	Standards	460.541	-.134235	10/04/07 11:35:32
2/PB	220.352	Multiple	Standards	360.401	1.41663	10/04/07 11:35:32
1/SE	196.021	Multiple	Standards	1362.34	15.5742	10/04/07 11:19:24
2/SE	196.022	Multiple	Standards	641.928	-10.0500	10/04/07 11:19:24
TE	214.200	Multiple	Standards	1032.41	22.5975	10/04/07 11:19:24
ZR	349.600	Multiple	Standards	803.845	-3173.41	10/04/07 11:19:24
SI	288.158	Multiple	Standards	1866.48	-153.105	10/04/07 11:19:24

Method: TRACEPB

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AL	308.215	STD0	.000000	-1.61923	1.61923
		STD1	50000.0	50316.2	-316.223
		STD2	100000.	99337.1	662.938
CorCoef: 0.99997					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SB	206.838	STD0	.000000	.003383	-.003383
		STD1	500.000	497.742	2.25763
		STD2	1000.00	998.191	1.80865
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AS	189.042	STD0	.000000	-.002384	.002384
		STD1	500.000	496.217	3.78320
		STD2	1000.00	990.526	9.47357
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BA	493.409	STD0	.000000	-.007690	.007690
		STD1	500.000	501.788	-1.78796
		STD2	1000.00	997.424	2.57587
CorCoef: 0.99999					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BE	313.042	STD0	.000000	.000383	-.000383
		STD1	50.0000	50.5934	-.593380
		STD2	100.000	101.493	-1.49325
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CD	226.502	STD0	.000000	-.003854	.003854
		STD1	500.000	506.399	-6.39874
		STD2	1000.00	1009.71	-9.71442
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
CA	317.933	STD0	.033061	.078627	-.045566
		STD3	27.3352	25.6249	1.71030
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CR	267.716	STD0	.000000	-.002840	.002840
		STD1	500.000	500.141	-.141418
		STD2	1000.00	998.011	1.98895
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CO	228.616	STD0	.000000	.001038	-.001038
		STD1	500.000	500.806	-.805908
		STD2	1000.00	1002.44	-2.44208
CorCoef: 1.00000					

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CU	324.753	STD0	.000000	.009245	-.009245
		STD1	500.000	497.728	2.27228
		STD2	1000.00	1002.85	-2.85077

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
FE	271.441	STD0	.000000	-.346405	.346405
		STD1	50000.0	50113.4	-113.402
		STD2	100000.	99949.7	50.3203

CorCoef: 1.00000

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	.000322	-.000201
		STD3	8.71535	8.87987	-.164521

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MN	257.610	STD0	.000000	-.000898	.000898
		STD1	500.000	499.406	.594299
		STD2	1000.00	998.093	1.90741

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
NI	231.604	STD0	.000000	-.004830	.004830
		STD1	500.000	501.216	-1.21594
		STD2	1000.00	998.568	1.43195

CorCoef: 1.00000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	STD0	-.004126	.006759	-.010885
		STD3	10.3396	11.0183	-.678699

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	-.002538	.002538
		STD1	500.000	500.546	-.546173
		STD2	1000.00	999.062	.938232

CorCoef: 1.00000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
NA	330.232	STD0	-.001357	-.000812	-.000545
		STD3	2.27386	2.98014	-.706280

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TL	190.864	STD0	.000000	.007747	-.007747
		STD1	500.000	509.045	-9.04462
		STD2	1000.00	1024.29	-24.2867
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD0	.000000	.002202	-.002202
		STD1	500.000	497.639	2.36099
		STD2	1000.00	997.040	2.95996
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZN	206.200	STD0	.000000	-.005741	.005741
		STD1	500.000	501.498	-1.49817
		STD2	1000.00	998.404	1.59631
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	STD0	.000000	-.009699	.009699
		STD1	500.000	501.281	-1.28119
		STD2	1000.00	994.804	5.19641
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MO	202.030	STD0	.000000	.000420	-.000420
		STD1	500.000	499.916	.084015
		STD2	1000.00	1000.17	-.168030
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SN	189.989	STD0	.000000	.008115	-.008115
		STD1	500.000	499.477	.522949
		STD2	1000.00	1005.45	-5.44580
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SR	421.552	STD0	.000000	-.003290	.003290
		STD1	500.000	500.658	-.658020
		STD2	1000.00	998.684	1.31616
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TI	334.941	STD0	.000000	.007940	-.007940
		STD1	500.000	498.463	1.53705
		STD2	1000.00	1003.28	-3.27814
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/PB	220.351	STD0	.000000	.070641	-.070641
		STD1	500.000	518.407	-18.4073
		STD2	1000.00	1034.89	-34.8873
		STD4	2000.00	2057.06	-57.0630
CorCoef:	0.99969				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/PB	220.352	STD0	.000000	-.062497	.062497
		STD1	500.000	499.052	.948029
		STD2	1000.00	984.868	15.1317
		STD4	2000.00	1962.91	37.0945

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/SE	196.021	STD0	.000000	-.001081	.001081
		STD1	500.000	498.665	1.33469
		STD2	1000.00	996.465	3.53455

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/SE	196.022	STD0	.000000	-.002992	.002992
		STD1	500.000	479.440	20.5602
		STD2	1000.00	956.486	43.5137

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TE	214.200	STD0	.000000	.010298	-.010298
		STD1	500.000	523.190	-23.1902
		STD2	1000.00	1054.62	-54.6194

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZR	349.600	STD0	.000000	-.043383	.043383
		STD1	500.000	503.157	-3.15680
		STD2	1000.00	971.728	28.2722

CorCoef: 0.99979

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SI	288.158	STD0	.000000	-.009211	.009211
		STD1	500.000	501.843	-1.84293
		STD2	1000.00	996.314	3.68579

CorCoef: 0.99999

Method: TRACEPB Sample Name: IVICV Operator: LCM
Run Time: 10/04/07 11:41:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	5042.778	404.8950	Q422.5505	416.5582	41.68172	41.62967	4807.665
#1	5044.067	405.5467	Q422.2245	417.8616	41.77860	41.60788	4822.591
#2	5041.489	404.2433	Q422.8766	415.2548	41.58483	41.65146	4792.739
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	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	404.1272	Q430.1473	397.9697	5054.241	413.4139	4998.964	411.6102
#1	405.0490	Q431.2955	395.9749	5057.302	413.3926	5003.574	412.8537
#2	403.2054	Q428.9990	399.9644	5051.181	413.4353	4994.354	410.3668
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	416.8341	Q4601.180	411.6303	400.2779	9644.565	401.7013	407.9821
#1	417.6496	Q4609.657	411.5831	401.5469	9651.265	402.9047	407.9460
#2	416.0186	Q4592.702	411.6776	399.0089	9637.864	400.4978	408.0181
Errors	QC Pass	QC Fail	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	Q421.0213	Q422.3800	403.8002	414.0431	407.4014	407.3086	408.6585
#1	Q422.3192	Q422.3390	404.7788	416.0107	407.7840	407.0923	407.7804
#2	419.7233	Q422.4211	402.8216	412.0754	407.0188	407.5250	409.5364
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	415.7914	414.2882	410.3010	Q-11.1108	Q-1.85977	Q125.9187
#1	416.1984	413.6601	410.5442	Q-13.2906	Q-13.1459	Q125.6716
#2	415.3845	414.9163	410.0578	Q-8.93102	Q9.426305	Q126.1658
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: TRACEPB Sample Name: IBICB Operator: LCM
Run Time: 10/04/07 11:50:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	-.032329	-.922678	1.424429	.1407829	-.055118	-.095942	-8.21416
#1	.7179409	-1.89329	.6882917	.1685046	-.044031	-.098258	-8.30649
#2	-.782599	.0479352	2.160567	.1130612	-.066205	-.093625	-8.12183
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	-.173983	-.018740	.5526442	7.560883	-.102661	-7.80240	.1326168
#1	.2781357	.3493230	.3722100	6.617855	-.125185	-8.89767	.1837549
#2	-.626103	-.386802	.7330785	8.503911	-.080136	-6.70713	.0814787
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	.6160269	-16.0611	-.276531	-.449244	-146.779	3.303524	-.028624
#1	.6361220	-13.1230	.8927634	-.329913	-206.355	2.198449	.0768174
#2	.5959319	-18.9993	-1.44583	-.568575	-87.2031	4.408600	-.134065
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	.4435441	.0766276	.9688082	-1.53409	.1263417	.0685789	-3.09137
#1	.4965576	.4666863	.9786351	-2.25067	.1450480	.1092867	-3.68314
#2	.3905306	-.313431	.9589813	-.817515	.1076354	.0278710	-2.49960
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	1.391177	-4.72347	1.946421	-10.0422	-8.95608	-1.00727
#1	1.653275	-4.60858	3.642917	-12.5602	-11.1822	-.728780
#2	1.129079	-4.83836	.2499240	-7.52415	-6.72997	-1.28577
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: CVCCV Operator: LCM
Run Time: 10/04/07 11:59:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50504.69	512.7455	507.0884	497.1026	50.13802	497.9585	100498.8
#1	50424.48	511.9378	507.3303	497.5632	49.81250	496.8530	100262.5
#2	50584.89	513.5532	506.8465	496.6420	50.46354	499.0641	100735.1
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	498.4745	498.4754	509.2330	49392.11	500.6271	99978.64	502.2206
#1	497.3141	496.5936	506.3223	49319.61	497.4305	99737.52	501.1824
#2	499.6348	500.3572	512.1437	49464.60	503.8238	100219.8	503.2588
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	499.4692	Q78815.56	507.9590	516.2562	98403.06	507.6943	501.8739
#1	500.2607	Q78652.82	504.8958	512.6362	98027.45	510.7028	499.2162
#2	498.6777	Q78978.31	511.0223	519.8762	98778.67	504.6859	504.5317
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	498.3043	513.5233	501.7718	506.7408	501.8869	507.4103	493.3938
#1	493.9428	512.2368	499.1160	505.6519	502.1795	504.9136	492.4545
#2	502.6658	514.8099	504.4277	507.8299	501.5942	509.9069	494.3331
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	504.2434	508.6531	507.6116	512.1869	508.1605	524.0820
#1	499.9181	507.4141	503.6363	502.8120	481.5183	524.3772
#2	508.5687	509.8921	511.5869	521.5618	534.8026	523.7867
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: TRACEPB Sample Name: BCCCB Operator: LCM
Run Time: 10/04/07 12:09:30
Comment:
Mode: CONC Corr.. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	12.70738	-2.92788	2.039271	.0109017	-.096414	-.006344	8.890978
#1	15.50863	-3.01640	.3992317	.0222851	-.206991	.0504786	18.44299
#2	9.906122	-2.83937	3.679310	-.000482	.0141639	-.063167	-.661040
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	-.089051	-.086035	.4566054	1.476410	1.052972	1.664571	.0165185
#1	-.607159	-.249148	.4216271	3.978559	1.120699	3.479585	.0459838
#2	.4290572	.0770784	.4915837	-1.02574	.9852458	-.150443	-.012947
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	.5721809	-2.75412	-.142582	-.341737	-135.466	-2.51465	.0399031
#1	.3210245	.8550132	-.071360	-.434514	-127.171	-1.77277	.0739164
#2	.8233373	-6.36324	-.213804	-.248960	-143.762	-3.25653	.0058897
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	.7475961	.3714608	-.456086	-.403940	.0354339	-.027098	-2.08202
#1	.6176683	.1185919	-.200980	-1.91912	.0573155	-.088929	-2.33496
#2	.8775240	.6243297	-.711193	1.111241	.0135523	.0347334	-1.82908
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	2.619952	-2.20274	.8870918	-6.81820	.7964317	.2652378
#1	2.848011	-6.26138	3.023347	-7.76533	-.275954	-1.34187
#2	2.391893	1.855894	-1.24916	-5.87108	1.868817	1.872344
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: PQL Operator: LCM
Run Time: 10/04/07 12:31:57
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	Q349.9228	17.96219	20.60751	4.911706	1.958714	6.167247	1094.416
#1	Q369.3141	17.53661	20.71352	4.855640	1.976462	6.150842	1125.624
#2	Q330.5316	18.38776	20.50149	4.967772	1.940966	6.183652	1063.208
Errors	QC Fail	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	4.688664	4.699716	10.14936	Q205.5614	11.13613	Q401.1319	5.014520
#1	4.737545	4.555214	9.756317	Q211.8620	11.37607	Q427.9096	4.963777
#2	4.639783	4.844217	10.54240	Q199.2609	10.89618	Q374.3542	5.065263
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	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	11.06546	201.7186	19.03784	5.243529	2426.723	30.46924	9.578883
#1	10.75398	Q199.8646	19.94055	5.137249	2398.829	30.15155	9.476699
#2	11.37693	203.5727	18.13513	5.349810	2454.617	30.78694	9.681067
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	Q25.90458	15.21455	4.154815	25.34204	5.009026	25.29966	8.808390
#1	Q24.57350	15.76235	4.170493	24.74643	4.979547	25.30666	8.452624
#2	Q27.23567	14.66674	4.139136	25.93766	5.038505	25.29267	9.164156
Errors	QC Fail	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	12.29957	18.60020	19.25627	-8.95187	-74.8270	54.34366
#1	12.83736	18.65978	20.58055	-10.6094	-53.1040	52.55729
#2	11.76177	18.54062	17.93201	-7.29436	-96.5500	56.13002
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						50.00000
Range						20.00000

Method: TRACEPB Sample Name: IAICSAI Operator: LCM
Run Time: 10/04/07 12:41:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	484636.8	1.673104	1.920776	.8456752	.4746640	1.799290	520675.4
#1	483373.1	2.297068	3.138301	.8440666	.4471402	1.690039	521942.5
#2	485900.5	1.049140	.7032519	.8472838	.5021877	1.908541	519408.2
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	1.302739	Q2.709734	2.161086	192136.2	4.993088	504209.5	Q13.28348
#1	1.586869	Q2.593943	2.211817	192170.5	4.826042	504510.4	Q13.36890
#2	1.018609	Q2.825526	2.110355	192101.9	Q5.160133	503908.6	Q13.19806
Errors	QC Pass	QC Fail	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	3.488676	-21.3342	1.533298	-.658593	-82.9126	4.066099	.7689885
#1	2.746997	-24.4790	-.004503	-.746630	-154.050	5.803657	.5428301
#2	4.230356	-18.1893	3.071099	-.570557	-11.7748	2.328541	.9951468
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	Q24.38395	3.399845	-.889129	-2.21704	Q4.199926	1.046547	-15.6647
#1	Q24.74660	3.291672	-1.81108	-2.48756	Q4.214359	1.074424	-12.8967
#2	Q24.02131	3.508018	.0328254	-1.94651	Q4.185493	1.018670	-18.4327
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	15.32146	-5.43652	5.017746	-29.2838	-134.502	Q40.39987
#1	13.68683	-12.1368	6.061188	-25.4071	-132.433	Q40.59847
#2	16.95609	1.263769	3.974304	-33.1606	-136.570	Q40.20127
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACEPB Sample Name: IBICSABI Operator: LCM
Run Time: 10/04/07 12:50:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	479927.1	623.0734	101.0489	505.3245	485.5783	948.5321	510960.3
#1	480272.8	624.6633	101.2084	506.2283	487.1653	947.4160	510602.6
#2	479581.4	621.4834	100.8894	504.4207	483.9912	949.6482	511318.0
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	484.3456	473.9043	529.9150	190377.0	51.56352	498163.8	500.4950
#1	483.4984	473.4335	529.4601	190313.2	52.21073	497735.7	500.3699
#2	485.1929	474.3750	530.3701	190440.8	50.91630	498592.0	500.6201
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	949.7769	5217.436	50.83500	211.7018	10169.68	97.21745	487.0146
#1	947.5517	5209.439	51.83791	211.5664	10131.09	100.4353	488.7515
#2	952.0021	5225.435	49.83210	211.8372	10208.28	93.99960	485.2776
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	955.7085	1042.255	983.6642	1003.934	508.6388	982.4672	33.11517
#1	953.1248	1041.307	983.5045	1003.313	509.4302	984.2746	36.45865
#2	958.2923	1043.204	983.8239	1004.556	507.8474	980.6599	29.77170
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	60.78720	50.36531	51.06940	169.3330	Q47.62269	Q1334.012
#1	60.08622	54.17231	50.67025	168.0914	Q47.82652	Q1333.463
#2	61.48817	46.55830	51.46854	170.5746	Q47.41885	Q1334.561
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: TRACEPB Sample Name: LR Operator: LCM
Run Time: 10/04/07 13:00:21
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	244.5351	5091.320	2029.365	9681.139	492.6857	2015.413	138.9160
#1	182.4783	5110.434	2036.252	9727.206	494.7600	2028.894	90.74986
#2	306.5919	5072.206	2022.477	9635.070	490.6114	2001.932	187.0821
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	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	10115.15	10046.68	10210.15	506959.1	19976.08	152.6403	9806.464
#1	10172.85	10103.01	10247.02	510531.4	20068.65	92.18272	9862.585
#2	10057.44	9990.356	10173.29	503386.8	19883.50	213.0978	9750.343
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass
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	7553.115	-1.38075	2012.675	1019.121	96.57364	2028.431	10055.98
#1	7589.854	.1818906	2024.139	1027.948	102.9927	2031.214	10089.77
#2	7516.377	-2.94340	2001.212	1010.294	90.15456	2025.649	10022.19
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	Q20322.51	5081.910	9844.326	10112.65	1986.754	10060.20	19795.12
#1	Q20490.82	5100.016	9876.541	10173.44	1996.313	10106.50	19877.35
#2	Q20154.19	5063.803	9812.112	10051.84	1977.196	10013.91	19712.88
Errors	QC Fail	QC Pass	QC Pass	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	20066.56	2002.661	2017.682	-110.007	-126.477	11533.03
#1	20164.30	2010.009	2031.203	-108.659	-115.414	11545.21
#2	19968.81	1995.313	2004.161	-111.355	-137.540	11520.85
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

Method: TRACEPB Sample Name: CVCCV3 Operator: LCM
Run Time: 10/04/07 13:15:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50421.21	511.4656	506.7806	492.8367	49.88052	498.9175	99335.81
#1	50449.36	511.4155	504.8892	493.8665	49.90041	500.1894	99471.51
#2	50393.06	511.5158	508.6721	491.8070	49.86063	497.6458	99200.11
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	499.2687	498.0884	508.8601	49155.81	499.8738	99793.61	500.3992
#1	499.3481	498.8261	508.3404	49261.91	499.3841	99857.12	501.7405
#2	499.1895	497.3508	509.3797	49049.71	500.3635	99730.10	499.0579
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	498.5110	Q79087.08	505.4302	518.0632	98502.75	505.8107	497.8950
#1	498.9739	Q79103.05	506.7009	519.6695	98468.71	508.3121	495.7325
#2	498.0480	Q79071.12	504.1596	516.4570	98536.80	503.3093	500.0573
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	494.0138	518.1025	504.9053	506.6000	502.2246	505.6138	491.8874
#1	494.6040	517.9321	505.4907	506.3537	502.2835	505.0159	488.8579
#2	493.4235	518.2730	504.3199	506.8462	502.1657	506.2116	494.9169
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	503.8665	510.2401	503.0248	512.9854	Q293.7269	525.5311
#1	504.6467	509.1516	505.4751	509.1552	Q272.8568	524.6405
#2	503.0863	511.3286	500.5745	516.8157	Q314.5970	526.4217
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: TRACEPB Sample Name: BCCCB3 Operator: LCM
Run Time: 10/04/07 13:25:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	22.92939	-.423256	-1.27009	.1727523	.0095635	.0258279	-18.6885
#1	31.00979	-1.63216	-.341333	.2708440	.0420322	.1854496	-10.8171
#2	14.84899	.7856432	-2.19884	.0746605	-.022905	-.133794	-26.5599
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	.1564823	-.040202	.2557562	14.79610	1.292190	19.16300	.2063093
#1	.0119990	-.357569	.3401805	26.02665	1.141335	33.39291	.3652438
#2	.3009657	.2771649	.1713318	3.565552	1.443046	4.933096	.0473748
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	.1677671	10.26224	-1.30445	.3536144	-291.259	3.634433	.0781803
#1	.6838958	17.26261	-1.36438	.5191050	-380.587	5.850871	-.062212
#2	-.348362	3.261870	-1.24453	.1881238	-201.932	1.417996	.2185721
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	-.302848	.6613975	1.891128	-.448074	.1156809	.2379459	-.697997
#1	-.082651	.9049565	2.367112	-1.61768	.1885503	.2140534	.1258209
#2	-.523045	.4178384	1.415144	.7215349	.0428115	.2618386	-1.52182
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	2.286771	-1.28715	-1.31347	-3.82664	-143.284	-4.55985
#1	1.648582	-2.53558	-.779160	-5.54007	-148.867	-1.80213
#2	2.924959	-.038712	-1.84777	-2.11321	-137.701	-7.31757
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: BLK100650 Operator: LCM
Run Time: 10/04/07 13:34:49
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	38.86111	2.560021	1.198115	1.415506	.0706641	-.455959	477.0754
#1	37.76046	3.431295	1.825979	1.407361	.1264491	-.431956	479.4533
#2	39.96176	1.688747	.5702506	1.423650	.0148790	-.479963	474.6976
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	1.033021	-1.36368	1.243319	H123.2249	2.044292	99.20387	1.709078
#1	1.235611	-1.17648	1.432063	H126.0911	2.062145	97.94637	1.725390
#2	.8304302	-1.55088	1.054574	H120.3587	2.026440	100.4614	1.692767
Errors	LC Pass	LC Pass	LC Pass	LC High	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	-3.25334	37.05075	1.235157	-.220693	607.3774	-4.61560	.9307721
#1	-3.04126	47.61338	2.497649	-.007799	765.2912	-6.38221	1.433315
#2	-3.46543	26.48812	-.027335	-.433586	449.4636	-2.84900	.4282293
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	H23.96301	2.498351	.9953865	H22.56176	1.789843	1.615423	3.452057
#1	H24.14659	2.490817	1.370254	H23.42394	1.779939	1.811598	4.408763
#2	H23.77944	2.505885	.6205185	H21.69959	1.799747	1.419248	2.495350
Errors	LC High	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	1.340066	-11.9356	7.820031	-38.6130	-153.964	41.10841
#1	.8884890	-8.48676	7.989323	-35.5485	-150.314	40.38248
#2	1.791643	-15.3845	7.650740	-41.6776	-157.614	41.83434
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACEPB Sample Name: BKS100650 Operator: LCM
Run Time: 10/04/07 13:44:05
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9668.941	99.64208	95.13137	982.0905	49.46842	99.35987	9727.079
#1	9692.052	100.1676	95.13718	984.0226	49.69847	99.65345	9757.736
#2	9645.830	99.11654	95.12556	980.1582	49.23837	99.06629	9696.422
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	507.2020	485.9416	505.2504	9700.157	960.7404	9457.455	988.9363
#1	509.0889	487.5163	506.7813	9720.428	964.2833	9480.823	991.7735
#2	505.3150	484.3670	503.7195	9679.887	957.1974	9434.086	986.0991
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	492.4617	8849.490	91.41420	101.4893	9606.825	90.18527	501.0140
#1	493.1081	8884.745	92.46531	102.7229	9795.359	90.36642	504.4335
#2	491.8154	8814.234	90.36309	100.2556	9418.291	90.00414	497.5946
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	1000.835	951.1156	500.2835	517.1265	1002.899	1995.805	952.7246
#1	1006.883	952.4049	501.6553	520.0785	1003.736	2004.786	958.3898
#2	994.7861	949.8263	498.9115	514.1745	1002.062	1986.825	947.0594
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	964.7477	69.97776	102.1319	339.7705	205.2387	L6667.565
#1	967.2296	73.20512	102.0950	344.0234	216.8353	L6684.529
#2	962.2659	66.75040	102.1689	335.5176	193.6422	L6650.600
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Low
High						12000.00
Low						8000.000

Method: TRACEPB Sample Name: S 709141-013-013-1/1 Operator: LCM
Run Time: 10/04/07 13:53:20
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	29445.76	-.707384	10.75633	33.77659	.6393696	-1.08871	2078.461
#1	29500.37	-.735285	9.053211	33.91826	.6723651	-1.45315	2090.893
#2	29391.16	-.679483	12.45944	33.63491	.6063741	-.724264	2066.030
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	397.1803	9.788873	114.7486	248091.8	34.54652	1395.556	453.9998
#1	399.0718	9.776478	115.6610	249342.8	35.50906	1405.546	456.3533
#2	395.2888	9.801268	113.8361	246840.7	33.58398	1385.566	451.6464
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	72.78867	272.0085	9.472219	.6077188	225.8595	6.741213	579.1220
#1	73.99786	274.6575	10.34752	1.104478	257.9910	5.921860	584.4674
#2	71.57947	269.3595	8.596918	.1109601	193.7279	7.560566	573.7766
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	126.2401	-2.35802	3.774785	5.492260	41.11785	12917.81	27.08076
#1	126.9630	-2.44401	4.066096	5.380537	41.39297	13039.37	27.75717
#2	125.5172	-2.27203	3.483474	5.603983	40.84274	12796.25	26.40436
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	38.27898	-.079640	14.24774	-29.0341	-6.63317	587.0831
#1	39.38461	2.423519	14.30922	-31.8348	4.825781	594.7900
#2	37.17335	-2.58280	14.18626	-26.2334	-18.0921	579.3763
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SP709141-013-013-1/1 Operator: LCM
Run Time: 10/04/07 14:02:36
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	38180.60	4.162233	16.72749	137.4486	5.610277	9.014916	2923.886
#1	38152.85	6.217338	17.01075	137.6584	5.561954	9.092438	2922.698
#2	38208.35	2.107129	16.44424	137.2389	5.658600	8.937395	2925.074
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	437.1756	60.32940	161.9869	238500.8	133.2678	2445.777	544.7601
#1	437.0873	60.34771	162.7860	238583.0	132.0095	2440.282	545.3228
#2	437.2639	60.31110	161.1878	238418.5	134.5261	2451.272	544.1976
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	143.1569	1323.379	16.00745	10.24847	1209.199	13.87433	614.5433
#1	141.8938	1325.681	17.36122	10.12128	1215.242	16.44922	617.3638
#2	144.4199	1321.077	14.65368	10.37566	1203.155	11.29945	611.7229
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	231.6579	98.87895	44.33743	48.14754	149.2101	13153.11	127.3084
#1	231.2383	98.72051	44.23271	51.78009	149.3141	13220.24	125.1501
#2	232.0775	99.03739	44.44215	44.51499	149.1062	13085.98	129.4666
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	136.2472	8.889721	19.56588	7.720993	39.01678	858.4700
#1	135.4388	12.47641	19.80319	9.075455	47.65443	860.7212
#2	137.0555	5.303027	19.32858	6.366531	30.37913	856.2188
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SD709141-013-013-1/1 Operator: LCM
Run Time: 10/04/07 14:12:09
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	36678.67	2.859500	16.31169	140.7702	5.613819	9.327060	2901.654
#1	36613.02	3.127017	15.31470	140.9099	5.656945	9.437990	2903.570
#2	36744.33	2.591982	17.30869	140.6305	5.570694	9.216129	2899.738
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	430.1257	61.08753	162.7858	236653.5	133.8420	2398.273	553.6679
#1	430.7287	60.84636	163.0538	237019.4	133.6539	2401.168	554.7404
#2	429.5226	61.32870	162.5179	236287.5	134.0302	2395.377	552.5954
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	139.0232	1301.791	16.88689	11.36914	1182.481	16.08296	605.0113
#1	140.4947	1306.338	18.61164	11.34521	1237.045	19.16575	606.1387
#2	137.5517	1297.245	15.16215	11.39308	1127.918	13.00018	603.8839
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	226.5933	97.92433	43.95307	49.90549	147.6802	12847.90	131.5428
#1	226.1253	98.60459	43.62540	49.10078	147.6435	12876.11	130.0670
#2	227.0612	97.24408	44.28075	50.71020	147.7169	12819.68	133.0186
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	134.9912	12.79806	18.93088	5.864082	24.82306	835.1809
#1	135.4469	11.49503	22.16951	3.473892	24.47867	836.0798
#2	134.5356	14.10110	15.69224	8.254273	25.16745	834.2819
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: PS709141-013-013-1/1 Operator: LCM
Run Time: 10/04/07 14:21:24
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	29930.47	81.38183	86.10536	52.85419	10.21982	18.49837	6861.722
#1	29765.73	81.04160	86.54195	52.78519	10.29269	18.51767	6829.856
#2	30095.21	81.72206	85.66877	52.92318	10.14696	18.47908	6893.588
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	408.0295	38.88047	142.5041	244133.2	113.7615	6318.007	522.1499
#1	406.5864	38.03616	142.3957	243189.7	113.5291	6281.878	519.9683
#2	409.4726	39.72479	142.6125	245076.7	113.9940	6354.135	524.3315
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	111.0881	5065.010	80.63641	42.78037	5038.637	105.2339	584.8773
#1	111.3132	5045.578	81.71867	42.60843	4945.154	101.6033	582.9157
#2	110.8630	5084.441	79.55416	42.95230	5132.119	108.8645	586.8390
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	202.8386	70.05167	32.00918	104.1389	60.88736	12622.36	109.0905
#1	202.3023	70.81819	31.67133	105.2070	60.71643	12603.27	103.9681
#2	203.3749	69.28514	32.34702	103.0707	61.05828	12641.46	114.2129
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	116.0966	75.06032	83.42410	471.4674	445.4493	5587.577
#1	118.3092	72.41155	86.37189	475.9857	439.8036	5565.100
#2	113.8842	77.70908	80.47632	466.9491	451.0950	5610.055
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SE709141-013-013-1/1 Operator: LCM
Run Time: 10/04/07 14:30:39
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	6079.068	.8942882	1.465716	6.852039	.0801768	-.443723	365.4944
#1	6302.898	-.888804	1.883171	7.149248	.1816585	-.310932	383.6134
#2	5855.238	2.677380	1.048261	6.554831	-.021305	-.576514	347.3755
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	81.64637	1.925132	23.11956	50693.54	8.133841	287.6777	93.08563
#1	84.35977	1.914831	24.44371	52604.71	8.757343	299.2192	96.61499
#2	78.93297	1.935434	21.79541	48782.37	7.510337	276.1362	89.55628
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	15.44148	41.57301	.4490714	-.185633	-120.424	4.000913	119.0530
#1	16.29647	43.39016	.6990440	-.264158	-80.7852	4.290281	123.3089
#2	14.58647	39.75584	.1990988	-.107107	-160.062	3.711545	114.7972
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	27.63741	-1.12377	-.489894	.9105676	8.429495	2675.726	6.616947
#1	28.04637	-1.22216	-.601895	3.083412	8.730834	2768.994	5.601582
#2	27.22846	-1.02538	-.377893	-1.26228	8.128157	2582.458	7.632313
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	8.891861	1.659468	-.156529	-12.2548	-106.568	121.3659
#1	10.33471	-2.05353	2.074905	-13.5213	-119.649	126.9184
#2	7.449009	5.372469	-2.38796	-10.9883	-93.4862	115.8135
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-014-014-1/1 Operator: LCM
Run Time: 10/04/07 14:39:55
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	19430.02	-1.71021	8.878674	14.77529	.5222473	-1.92131	286.2285
#1	19418.31	-.789686	10.26963	14.83144	.5791553	-1.86027	281.1634
#2	19441.74	-2.63074	7.487717	14.71915	.4653393	-1.98235	291.2935
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	461.5258	9.923653	98.84177	257986.8	38.10923	906.2471	353.4359
#1	461.2536	9.745411	98.24468	257570.6	37.42936	909.0038	352.7585
#2	461.7981	10.10189	99.43887	258403.1	38.78909	903.4903	354.1134
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	70.33382	258.3252	7.874757	-.054574	195.8450	7.578386	657.2692
#1	70.42725	261.7894	8.519733	-.008090	205.1331	9.946919	654.3253
#2	70.24039	254.8611	7.229781	-.101058	186.5569	5.209854	660.2131
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	106.1924	-4.46011	1.169842	2.012296	10.72566	14742.32	35.77593
#1	105.5339	-5.07121	.8298978	4.500387	10.91150	14693.72	37.60116
#2	106.8510	-3.84901	1.509787	-.475796	10.53982	14790.92	33.95071
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	39.27528	.7504916	11.43637	-34.9709	-41.5716	1186.890
#1	37.34296	2.959553	11.29931	-40.7717	-54.0041	1182.780
#2	41.20759	-1.45857	11.57343	-29.1702	-29.1392	1191.000
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-015-015-1/1 Operator: LCM
Run Time: 10/04/07 14:49:30
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	35182.79	-1.82749	12.77285	17.82402	.6361244	-2.25437	222.7714
#1	35060.09	-1.72684	14.30802	17.77141	.7229989	-2.09459	223.9864
#2	35305.49	-1.92813	11.23768	17.87663	.5492500	-2.41415	221.5565
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	411.9255	6.435970	80.63523	268838.9	22.04624	666.2708	293.5330
#1	409.0271	6.335043	80.74413	267531.2	21.90238	664.7482	292.5254
#2	414.8239	6.536898	80.52633	270146.5	22.19009	667.7933	294.5406
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	71.54950	241.4056	11.94275	.0770113	266.7913	8.820034	570.5359
#1	70.70225	240.7570	12.96656	.1650240	291.1059	6.028820	566.9603
#2	72.39676	242.0541	10.91893	-.011001	242.4768	11.61125	574.1116
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	76.75131	-4.21377	2.321708	5.017013	7.070774	12695.59	17.41367
#1	76.54279	-4.04417	2.827248	7.426428	7.061936	12628.23	16.52564
#2	76.95984	-4.38337	1.816167	2.607597	7.079611	12762.95	18.30169
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	24.36201	4.189402	15.81899	-31.1105	-43.9656	630.8882
#1	24.59024	4.232666	17.33308	-27.5560	-72.4990	627.6331
#2	24.13378	4.146137	14.30490	-34.6649	-15.4321	634.1434
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-016-016-1/1 Operator: LCM
Run Time: 10/04/07 14:58:45
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	57198.31	-1.58571	4.826684	19.86006	.5776742	-1.57523	250.8161
#1	57077.84	-.878567	4.477066	19.86489	.5068268	-1.34337	252.8210
#2	57318.77	-2.29285	5.176303	19.85524	.6485217	-1.80710	248.8112
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	395.2573	6.058997	117.1956	192424.1	21.09507	672.0246	277.9365
#1	394.2940	5.945425	116.4063	192206.9	21.04090	671.8798	277.5845
#2	396.2206	6.172569	117.9850	192641.2	21.14925	672.1694	278.2885
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	162.9520	218.8830	6.727995	.3819959	112.3147	5.780144	409.9629
#1	162.6790	218.9382	5.685168	.4563996	139.3695	8.008606	408.7696
#2	163.2250	218.8279	7.770823	.3075921	85.25993	3.551681	411.1562
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	70.09229	-4.34024	.3913279	1.166591	7.859858	10453.83	14.95730
#1	70.05928	-4.08772	.2156887	1.631508	7.900554	10420.08	10.92432
#2	70.12529	-4.59276	.5669671	.7016735	7.819162	10487.59	18.99027
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	24.16351	-2.82724	11.50522	-30.2816	58.69822	702.7578
#1	26.09880	-9.18740	13.12106	-31.7217	56.15013	698.2746
#2	22.22822	3.532927	9.889381	-28.8415	61.24630	707.2411
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: CVCCV3 Operator: LCM
Run Time: 10/04/07 15:10:53
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50064.51	503.4232	500.2253	482.7755	49.45175	495.3340	99935.00
#1	49941.14	503.1193	503.7364	483.1443	49.29170	494.7474	99976.08
#2	50187.88	503.7271	496.7141	482.4068	49.61180	495.9205	99893.93
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	498.6127	492.3557	508.5160	48373.28	495.2015	100512.6	493.0220
#1	498.6439	491.5748	508.3860	48379.75	494.0449	100507.4	492.8982
#2	498.5816	493.1366	508.6459	48366.81	496.3581	100517.9	493.1458
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	494.3582	Q78708.70	497.7582	519.2543	98297.69	498.5322	493.3781
#1	492.5450	Q78493.79	499.2487	518.8824	97794.71	501.9759	491.5874
#2	496.1714	Q78923.62	496.2676	519.6261	98800.67	495.0885	495.1689
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	491.0121	523.5725	493.2905	503.1323	502.8140	501.9524	487.0767
#1	492.0964	522.3775	491.0836	503.9013	503.4062	501.4505	480.1484
#2	489.9278	524.7675	495.4973	502.3632	502.2218	502.4543	494.0050
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	499.2635	496.8382	498.2177	511.3038	Q313.3696	523.3961
#1	500.9927	495.7750	500.9852	512.5365	Q302.7438	522.0673
#2	497.5342	497.9015	495.4502	510.0710	Q323.9953	524.7249
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: TRACEPB Sample Name: BCCCB3 Operator: LCM
Run Time: 10/04/07 15:20:09
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	39.90362	-1.28573	.1121153	.0828530	.0473268	-.192759	-39.4836
#1	47.91025	-1.23938	-.386229	.1585205	-.008967	-.018866	-30.4182
#2	31.89700	-1.33208	.6104600	.0071855	.1036209	-.366651	-48.5490
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	-.045292	-.244776	-.626493	9.432854	.0192270	22.23341	.0708122
#1	-.043650	-.004563	-.698891	18.42068	.3821929	34.14172	.1466567
#2	-.046935	-.484990	-.554096	.4450302	-.343739	10.32510	-.005032
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	1.504466	15.50223	-.496144	-.697219	-316.831	4.986587	.1746555
#1	1.496100	27.95013	-1.20809	-.628245	-213.476	6.780292	-.134821
#2	1.512833	3.054328	.2158075	-.766193	-420.187	3.192882	.4841321
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	-.840642	-.230544	-.535049	.0677627	.1066587	.5340559	-1.45301
#1	-.875148	-.245135	-.685954	.3040056	.1736028	.5536724	-1.50086
#2	-.806136	-.215953	-.384145	-.168480	.0397146	.5144395	-1.40516
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	.7548372	.9580385	-1.22376	-9.90154	-125.474	-5.20382
#1	1.323208	-.630405	-1.49732	-7.61473	-126.667	-3.34709
#2	.1864666	2.546482	-.950203	-12.1883	-124.280	-7.06055
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: S 709141-017-017-1/1 Operator: LCM
Run Time: 10/04/07 15:29:25
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	28882.31	-1.42563	6.768586	19.68036	.6367378	-1.71225	520.8751
#1	28890.07	-2.78003	6.645075	19.72709	.6107177	-1.49182	523.4106
#2	28874.55	-.071229	6.892097	19.63363	.6627580	-1.93269	518.3396
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	427.0478	7.315657	93.35614	283953.9	34.78369	1275.803	319.5010
#1	426.5189	6.850288	93.14978	284089.2	36.52027	1278.953	319.7749
#2	427.5767	7.781025	93.56249	283818.5	33.04711	1272.654	319.2271
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	65.28082	224.9613	7.926714	-.038520	258.1963	6.185730	633.7885
#1	64.90259	222.6516	5.927917	-.886385	218.8591	6.794807	635.4612
#2	65.65906	227.2709	9.925512	.8093445	297.5335	5.576652	632.1158
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	94.31270	-5.04133	1.819084	1.658115	12.26641	14664.03	30.98070
#1	93.69365	-4.81069	2.059574	2.123886	12.23481	14680.19	29.82138
#2	94.93174	-5.27196	1.578595	1.192345	12.29802	14647.86	32.14003
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	36.68471	-.415995	12.09766	-35.3859	-18.2681	616.3505
#1	39.86929	-2.88123	10.33205	-38.4350	-33.0301	616.3019
#2	33.50013	2.049237	13.86326	-32.3369	-3.50619	616.3991
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-018-018-1/1 Operator: LCM
Run Time: 10/04/07 15:38:59
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	78251.15	-1.43860	10.08343	14.55961	.5187468	-1.24677	60.61572
#1	78079.84	-1.79772	10.39560	14.56230	.4803931	-1.32134	59.31017
#2	78422.45	-1.07949	9.771271	14.55692	.5571005	-1.17220	61.92127
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	351.7071	4.813973	150.4166	155910.9	24.65243	446.4586	241.8838
#1	351.8130	4.849079	149.4189	155788.2	24.84955	445.8573	241.8261
#2	351.6012	4.778868	151.4143	156033.7	24.45531	447.0600	241.9416
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	150.8442	136.0514	7.127561	.4461725	-87.6314	7.359016	320.1492
#1	150.5658	136.2281	8.927273	.9863782	-48.1865	8.283474	318.0783
#2	151.1226	135.8748	5.327848	-.094033	-127.076	6.434559	322.2202
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	67.40361	-1.33555	2.255825	2.184958	4.604477	8025.555	19.48984
#1	67.15400	-1.48873	2.212974	3.310644	4.608447	8003.493	18.99509
#2	67.65322	-1.18238	2.298677	1.059272	4.600508	8047.618	19.98460
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	27.23325	2.904155	9.238836	-22.5356	86.84106	477.2335
#1	27.77627	3.861519	11.45972	-23.2194	72.94963	477.5519
#2	26.69024	1.946791	7.017948	-21.8517	100.7325	476.9150
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-019-019-1/1 Operator: LCM
Run Time: 10/04/07 15:48:15
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	14015.32	-.258784	5.775046	24.27776	.5373442	-1.28845	891.5964
#1	13626.18	-1.85867	6.205557	23.71979	.6123626	-1.15022	865.9905
#2	14404.45	1.341106	5.344536	24.83572	.4623258	-1.42668	917.2023
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	285.9004	6.306706	109.2781	213997.7	90.34991	1076.229	353.9451
#1	277.6614	5.700653	107.5571	208283.6	88.92829	1050.293	344.8712
#2	294.1395	6.912760	110.9992	219711.8	91.77153	1102.166	363.0190
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	45.74678	179.0301	3.559095	.6719371	49.88496	5.304165	592.4548
#1	44.45905	168.7177	4.016104	.3702942	15.57905	7.872429	584.6313
#2	47.03450	189.3424	3.102086	.9735799	84.19087	2.735901	600.2784
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	103.5794	-4.58951	1.919689	10.42669	20.47068	12864.25	87.09158
#1	100.2297	-4.93430	1.385759	7.679726	19.87850	12698.85	87.89475
#2	106.9292	-4.24472	2.453619	13.17366	21.06286	13029.65	86.28843
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	91.97864	2.875274	3.900505	-32.6634	-178.480	700.9878
#1	89.44458	8.184318	1.931511	-31.4387	-332.958	689.4173
#2	94.51269	-2.43377	5.869499	-33.8880	-24.0011	712.5582
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-020-020-1/1 Operator: LCM
Run Time: 10/04/07 15:57:31
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9351.275	.2733021	5.432168	17.60184	.3120794	-1.09293	469.2252
#1	9374.972	1.162094	3.839921	17.63997	.3465854	-1.24394	468.4273
#2	9327.578	-.615490	7.024415	17.56371	.2775735	-.941916	470.0231
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	245.5108	8.633285	86.70085	185236.5	74.81715	1100.427	331.0813
#1	246.3177	8.337721	87.33086	185598.2	74.93081	1105.516	332.6739
#2	244.7038	8.928850	86.07084	184874.8	74.70349	1095.337	329.4887
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	42.45603	159.2487	2.754317	-.006242	172.6131	8.517853	594.6576
#1	41.91670	161.5342	2.304246	.2150579	135.4078	7.942680	598.2531
#2	42.99536	156.9632	3.204388	-.227543	209.8184	9.093025	591.0621
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	103.7050	-5.77532	2.193461	3.287289	14.19238	14132.30	73.41016
#1	104.4112	-5.65142	1.818900	3.775444	14.14229	14294.55	72.99147
#2	102.9989	-5.89922	2.568022	2.799133	14.24248	13970.04	73.82884
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	75.52028	-1.47262	4.867355	-31.5589	-66.6826	857.0938
#1	75.90009	-2.81619	4.864029	-29.1674	-51.7031	907.5381
#2	75.14047	-.129061	4.870682	-33.9505	-81.6621	806.6495
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-021-021-1/1 Operator: LCM
Run Time: 10/04/07 16:06:46
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	17084.71	1.103267	6.541591	26.61977	.5615446	-.360459	293.1655
#1	17066.47	.9645481	8.182705	26.71345	.5960599	-.495892	295.2016
#2	17102.96	1.241985	4.900476	26.52610	.5270293	-.225027	291.1295
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	290.6904	14.05878	402.9993	231353.1	143.2338	1342.752	517.6348
#1	291.4590	14.91675	402.3088	231839.1	143.4176	1349.024	518.8596
#2	289.9218	13.20081	403.6898	230867.1	143.0500	1336.479	516.4099
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	66.53185	191.1541	5.743131	-.027055	283.9492	11.27882	659.2714
#1	67.24608	188.3706	5.921393	-.013012	286.7443	12.21981	657.8624
#2	65.81760	193.9375	5.564868	-.041099	281.1541	10.33782	660.6803
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	233.9485	-6.18276	2.087201	4.811239	18.99774	15797.58	137.5593
#1	234.0540	-6.35072	2.006489	5.858089	19.02334	15800.84	135.8299
#2	233.8429	-6.01479	2.167913	3.764389	18.97214	15794.31	139.2888
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	146.0705	-2.06829	9.648331	-36.8479	-48.4697	669.3335
#1	147.2110	-5.32009	11.54162	-39.2966	-58.3673	664.6815
#2	144.9300	1.183502	7.755043	-34.3992	-38.5721	673.9855
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-022-022-1/1 Operator: LCM
Run Time: 10/04/07 16:16:20
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	17062.84	-.279054	7.286816	32.52657	.5853491	-2.01483	353.7684
#1	17109.51	-1.87713	7.714212	32.68604	.5684724	-1.89841	357.0036
#2	17016.17	1.319024	6.859419	32.36711	.6022259	-2.13125	350.5332
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	342.3081	12.94748	98.74536	273364.8	31.02751	1293.897	462.1280
#1	342.7732	12.95241	98.92914	273948.4	31.37364	1296.870	463.7905
#2	341.8431	12.94254	98.56158	272781.2	30.68139	1290.925	460.4656
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	60.34457	368.3193	7.460059	.4803123	305.5737	10.81350	680.1908
#1	60.24895	366.4612	5.951373	.4039575	251.2567	9.193382	682.2824
#2	60.44020	370.1774	8.968745	.5566671	359.8907	12.43362	678.0991
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	138.9892	-6.12880	1.310294	.7021360	39.19176	16900.79	29.76340
#1	138.6353	-6.29159	.9497026	.1260433	39.57844	16970.98	29.82565
#2	139.3431	-5.96601	1.670885	1.278229	38.80508	16830.60	29.70116
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	31.65916	1.828582	10.27528	-36.1901	-19.3667	1528.723
#1	32.14725	2.579852	7.636620	-41.0748	-27.2969	1571.127
#2	31.17108	1.077311	12.91395	-31.3054	-11.4366	1486.318
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-023-023-1/1 Operator: LCM
Run Time: 10/04/07 16:25:36
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	17967.99	-1.14013	7.718584	9.482510	.6014919	-1.94981	111.7779
#1	17914.54	-2.01265	9.513867	9.429263	.5851867	-2.21025	108.5101
#2	18021.44	-.267616	5.923300	9.535755	.6177971	-1.68937	115.0457
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	236.2771	9.004799	71.30881	255638.5	15.30597	545.0061	256.5957
#1	236.8174	9.082544	71.44523	255714.3	15.34725	541.2389	256.7392
#2	235.7368	8.927053	71.17239	255562.7	15.26469	548.7734	256.4522
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	22.01542	209.6263	9.636388	.2468575	176.7906	8.897676	574.4019
#1	22.17600	206.9289	11.31797	.1969841	28.23453	10.09296	577.3267
#2	21.85485	212.3237	7.954801	.2967310	325.3467	7.702389	571.4772
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	93.22931	-5.29296	1.930433	-.079265	4.173607	13731.48	11.58259
#1	93.30816	-5.88295	1.977693	-.327442	4.183809	13799.46	12.54322
#2	93.15045	-4.70298	1.883173	.1689129	4.163405	13663.49	10.62197
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	17.16721	1.873402	13.51754	-37.6482	36.56248	522.3175
#1	16.74875	2.628326	15.66245	-37.8826	55.43403	525.9570
#2	17.58567	1.118478	11.37262	-37.4138	17.69093	518.6781
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-024-024-1/1 Operator: LCM
Run Time: 10/04/07 16:34:51
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	17441.61	-2.29605	7.497420	20.42081	.5066653	-2.29761	214.7006
#1	17731.26	-2.51652	9.042145	20.67002	.4871714	-2.27822	220.1154
#2	17151.96	-2.07558	5.952695	20.17159	.5261592	-2.31700	209.2858
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	388.9775	15.31727	108.1917	234707.4	14.32292	1153.511	359.9988
#1	396.1502	16.19771	109.6476	239042.2	14.44067	1176.614	366.4339
#2	381.8049	14.43684	106.7357	230372.7	14.20516	1130.408	353.5638
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	62.72482	386.7743	4.942078	.3158040	292.8310	12.26262	635.4800
#1	63.67679	392.4955	8.991650	.6440622	313.5441	14.37383	643.5687
#2	61.77287	381.0530	.8925055	-.012454	272.1179	10.15141	627.3912
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	120.5501	-5.16966	1.991119	.2666216	12.33943	15309.17	11.74511
#1	122.4992	-4.79162	2.590197	-.373089	12.39588	15570.29	10.87505
#2	118.6010	-5.54770	1.392041	.9063320	12.28298	15048.05	12.61517
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	15.61144	.0207686	7.402218	-31.3622	-14.8737	1725.133
#1	16.22305	4.472781	11.25056	-30.1626	30.38731	1801.815
#2	14.99982	-4.43124	3.553871	-32.5619	-60.1347	1648.450
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-025-025-1/1 Operator: LCM
Run Time: 10/04/07 16:44:06
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24277.17	-1.24653	9.455551	18.47174	.4298734	-2.05229	274.3388
#1	24319.04	-1.60743	6.567878	18.53765	.4239187	-1.97026	278.9243
#2	24235.29	-.885627	12.34323	18.40583	.4358281	-2.13433	269.7533
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	281.1132	7.461187	91.07380	257358.1	42.47060	710.2528	307.3348
#1	280.9976	7.357580	91.14236	257793.9	42.59451	711.0640	308.4656
#2	281.2287	7.564794	91.00523	256922.3	42.34669	709.4416	306.2041
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	29.48916	267.9234	10.27917	-.090394	204.8886	5.630093	589.2744
#1	29.45658	263.8683	10.54454	-.352659	112.0554	5.551674	589.1675
#2	29.52175	271.9785	10.01379	.1718712	297.7218	5.708511	589.3813
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	97.97147	-4.78756	1.261972	6.834228	14.54453	14499.45	38.11071
#1	98.36977	-5.43035	1.428428	6.873510	14.54134	14504.58	36.81412
#2	97.57316	-4.14477	1.095516	6.794945	14.54771	14494.32	39.40729
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	44.65016	8.436817	11.19983	-35.4313	3.981921	625.4220
#1	45.48436	9.858107	10.88725	-35.3708	16.93997	626.3060
#2	43.81596	7.015528	11.51241	-35.4918	-8.97613	624.5380
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-026-026-1/1 Operator: LCM
Run Time: 10/04/07 16:53:40
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	12552.02	-2.25736	7.241635	13.53715	.4814295	-2.02738	137.5542
#1	12614.23	-2.37537	5.439939	13.79202	.5063044	-2.09414	137.1398
#2	12489.81	-2.13935	9.043332	13.28227	.4565547	-1.96062	137.9686
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	223.2039	11.24394	87.51118	200035.3	13.89255	908.6844	298.5877
#1	225.0246	10.96725	88.17804	201464.1	14.27617	917.0800	300.1434
#2	221.3831	11.52063	86.84434	198606.4	13.50893	900.2889	297.0320
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	32.58956	241.2275	2.170590	-.168665	240.8151	8.022751	582.1431
#1	32.58120	249.5741	4.560909	-.075047	224.5051	7.540199	586.5817
#2	32.59793	232.8808	-.219729	-.262283	257.1251	8.505302	577.7045
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	97.30699	-5.76554	1.632874	1.200138	10.79867	15302.29	13.12996
#1	97.95826	-5.36858	1.931050	1.472589	10.73682	15484.30	15.42130
#2	96.65573	-6.16250	1.334697	.9276867	10.86053	15120.28	10.83863
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	14.27346	-5.99048	6.250698	-32.6940	-37.1326	1085.891
#1	13.70318	-3.36372	8.522797	-35.2845	-36.2450	1084.003
#2	14.84375	-8.61725	3.978600	-30.1035	-38.0202	1087.779
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: CVCCV3 Operator: LCM
Run Time: 10/04/07 17:06:09
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	49842.38	504.9134	502.5385	480.2253	49.26366	493.1035	100058.2
#1	49757.85	503.6437	502.1770	478.8910	49.37633	491.9879	99962.62
#2	49926.91	506.1831	502.9000	481.5595	49.15098	494.2190	100153.8
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	496.8422	489.8797	508.5391	48040.52	493.7015	100855.9	490.0215
#1	495.6602	488.1923	510.9571	47888.78	494.2791	100696.3	488.5871
#2	498.0242	491.5672	506.1211	48192.26	493.1238	101015.5	491.4560
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	492.0122	Q78616.66	502.9028	518.2237	97954.22	494.6987	492.7455
#1	489.8814	Q78556.21	503.3258	517.5695	97603.73	490.0860	494.9439
#2	494.1429	Q78677.11	502.4799	518.8781	98304.72	499.3113	490.5472
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	489.6859	522.5011	490.1534	501.5792	504.1799	500.0230	485.7470
#1	490.0006	522.6103	487.0804	499.4397	504.2563	502.2086	488.0359
#2	489.3711	522.3918	493.2264	503.7187	504.1035	497.8374	483.4581
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	497.6784	495.2292	506.7391	510.4063	Q321.9618	525.3317
#1	497.4004	498.2229	505.8768	514.3596	Q357.1007	522.9643
#2	497.9563	492.2356	507.6015	506.4530	Q286.8229	527.6990

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: TRACEPB Sample Name: BCCCB3 Operator: LCM
Run Time: 10/04/07 17:15:24
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	34.41184	-.295026	.2213952	.0172073	.0575713	-.226321	-50.7897
#1	36.09846	-.646097	-.209175	.0735114	.0752774	.0002300	-46.8214
#2	32.72521	.0560449	.6519648	-.039097	.0398651	-.452872	-54.7579
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	-.096066	-.400193	-.420240	7.402693	-.573764	12.59940	.0607814
#1	-.086680	-.341874	-.642698	17.87749	-.963541	20.55191	.0950600
#2	-.105452	-.458512	-.197782	-3.07210	-.183987	4.646884	.0265027
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	.6222440	4.277877	-.963492	-.031524	-303.372	5.541421	.2741841
#1	.3054822	8.913696	.1417249	-.348041	-318.793	5.306169	-.066984
#2	.9390057	-.357941	-2.06871	.2849935	-287.951	5.776674	.6153519
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	-.887274	-.330995	-.625783	-.732818	.0637649	.6472374	-1.29579
#1	-.887301	-.610330	-.196736	-1.58305	.0901269	.6717501	.1828188
#2	-.887248	-.051660	-1.05483	.1174157	.0374029	.6227248	-2.77439
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	-.213256	-4.42870	.7686886	-6.54843	-221.146	-5.43728
#1	-1.53722	.3478335	.0383355	-11.3318	-238.218	-5.29917
#2	1.110712	-9.20523	1.499042	-1.76505	-204.075	-5.57539
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: S 709141-027-027-1/1 Operator: LCM
Run Time: 10/04/07 17:24:40
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	35369.20	-2.85544	8.126053	28.08205	.6721612	-1.23866	257.8268
#1	35330.44	-2.14159	7.037049	28.08176	.6890893	-1.33750	259.3236
#2	35407.97	-3.56929	9.215057	28.08235	.6552331	-1.13982	256.3301
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	355.7140	7.203145	99.36296	239671.9	25.84354	823.8472	334.4226
#1	356.2894	7.217518	99.67491	239826.6	27.82024	825.9906	334.6441
#2	355.1386	7.188772	99.05100	239517.3	23.86685	821.7037	334.2010
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	66.12041	285.9808	9.804779	.3646453	210.0320	7.076462	498.6048
#1	66.17044	289.8838	9.850972	.4437275	212.5133	7.372738	499.7857
#2	66.07037	282.0777	9.758585	.2855632	207.5507	6.780186	497.4239
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	101.9629	-3.51110	1.327066	1.454603	17.16122	11932.12	20.65710
#1	101.9547	-3.13244	1.520372	.8858032	17.18679	11962.10	21.76379
#2	101.9711	-3.88975	1.133760	2.023403	17.13566	11902.15	19.55042
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	28.43631	4.955280	12.22921	-31.5542	-79.6311	549.1705
#1	30.84795	4.190780	12.68073	-30.4335	-78.8467	551.2629
#2	26.02468	5.719781	11.77769	-32.6749	-80.4156	547.0783
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-028-028-1/1 Operator: LCM
Run Time: 10/04/07 17:33:55
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	12135.36	-3.09796	8.011041	16.18030	.4816230	-2.75096	179.1671
#1	12129.79	-2.95235	7.665696	16.20082	.5302597	-2.60764	177.3989
#2	12140.93	-3.24357	8.356385	16.15977	.4329863	-2.89429	180.9352
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	224.7503	17.34480	87.93630	244624.2	12.62007	922.7134	386.4737
#1	224.2131	16.62266	87.73667	244330.0	12.76880	920.8637	385.9183
#2	225.2874	18.06694	88.13591	244918.3	12.47135	924.5630	387.0291
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	35.87673	185.5659	7.513817	.3975848	324.4636	7.889517	701.2037
#1	36.01533	186.2483	8.703689	-.114377	254.5803	8.099274	699.1724
#2	35.73814	184.8834	6.323945	.9095464	394.3469	7.679760	703.2350
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	132.4708	-7.16477	1.519736	-2.03585	8.141443	16793.47	13.31872
#1	131.2292	-8.03286	.7803019	-1.96157	8.249773	16826.29	12.55387
#2	133.7124	-6.29668	2.259170	-2.11014	8.033114	16760.65	14.08357
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	12.27022	1.501990	10.51922	-37.2546	-110.818	1238.003
#1	12.87576	2.233628	11.93821	-46.1833	-127.963	1257.535
#2	11.66468	.7703514	9.100227	-28.3258	-93.6728	1218.471
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-029-029-1/1 Operator: LCM
Run Time: 10/04/07 17:43:29
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	42820.87	1.138154	6.253058	22.68787	.6858072	-2.11524	213.4509
#1	42615.00	-.192274	4.305227	22.62457	.7386277	-1.98406	211.2992
#2	43026.75	2.468581	8.200890	22.75118	.6329868	-2.24642	215.6026
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	406.1447	8.187379	77.90656	224963.9	23.92096	784.5267	273.4191
#1	403.3296	7.826054	77.66965	223232.0	23.60587	773.0750	271.5875
#2	408.9598	8.548704	78.14348	226695.8	24.23605	795.9785	275.2507
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	84.58980	263.5083	8.057654	.4050812	137.1782	5.975557	447.0960
#1	83.39587	252.1630	6.816577	.5886381	-31.9975	5.680317	447.0780
#2	85.78374	274.8536	9.298731	.2215243	306.3540	6.270798	447.1138
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	77.51828	-3.56658	.9572040	1.820997	14.51194	10308.31	21.37430
#1	77.09253	-3.65378	.4139993	-.045340	14.43942	10306.49	23.93493
#2	77.94404	-3.47938	1.500409	3.687334	14.58446	10310.13	18.81366
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	25.19387	5.906973	9.132488	-27.8590	-152.942	524.0837
#1	23.44084	7.443812	6.502457	-28.5792	-170.778	523.6549
#2	26.94691	4.370134	11.76252	-27.1389	-135.107	524.5126
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-030-030-1/1 Operator: LCM
Run Time: 10/04/07 17:52:44
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	22000.10	-1.73445	9.394276	18.39097	.5912000	-2.01744	142.1818
#1	21993.69	-2.17536	9.391565	18.35421	.6432656	-2.05600	138.5201
#2	22006.51	-1.29353	9.396986	18.42773	.5391345	-1.97889	145.8434
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	448.7874	9.070870	78.35008	246816.6	19.74706	779.7525	283.7492
#1	448.8687	9.135340	78.85661	246733.8	19.67665	781.8743	283.7842
#2	448.7060	9.006401	77.84355	246899.5	19.81746	777.6307	283.7143
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	54.03966	268.6787	9.412212	-.300795	129.5943	10.53725	526.8370
#1	53.44416	266.8649	11.47708	-.099412	25.04381	11.39046	528.9290
#2	54.63516	270.4925	7.347347	-.502178	234.1448	9.684029	524.7450
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	92.28465	-4.50167	1.159614	-1.03066	12.07666	12194.48	15.01449
#1	92.93826	-4.51273	1.312615	-1.39230	12.12089	12236.76	15.75844
#2	91.63104	-4.49060	1.006614	-.669024	12.03243	12152.20	14.27055
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	22.11295	-2.01220	15.12390	-36.3060	-152.762	503.4872
#1	21.63537	-.931790	17.68099	-33.8116	-145.682	499.9957
#2	22.59053	-3.09260	12.56680	-38.8003	-159.842	506.9788
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-031-031-1/1 Operator: LCM
Run Time: 10/04/07 18:02:00
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	14201.07	-1.44997	10.19228	12.42986	.5688989	-2.16872	82.96655
#1	14168.90	-.863185	10.56657	12.38055	.7470351	-2.09236	81.10184
#2	14233.25	-2.03676	9.817982	12.47917	.3907627	-2.24509	84.83126
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	508.0953	21.76666	112.6614	244696.6	11.54143	1675.023	482.2605
#1	507.4444	21.91858	113.0853	244304.8	11.50212	1673.262	481.4097
#2	508.7461	21.61475	112.2375	245088.4	11.58074	1676.785	483.1113
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	84.41927	210.2784	8.003228	-.361922	336.4013	10.62911	719.2738
#1	84.62454	206.2556	6.481375	-.655195	288.7492	10.95431	720.4530
#2	84.21399	214.3012	9.525082	-.068648	384.0532	10.30391	718.0947
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	142.7970	-6.46314	.8038737	.3846254	8.510925	18053.61	7.614057
#1	142.3696	-6.30932	-.052563	2.723332	8.576143	18105.78	7.889639
#2	143.2244	-6.61696	1.660310	-1.95408	8.445707	18001.44	7.338474
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	13.50481	1.096351	11.45630	-35.8149	-124.924	936.4058
#1	13.30810	-1.63197	10.53770	-34.2027	-117.143	946.5283
#2	13.70152	3.824673	12.37490	-37.4270	-132.704	926.2834
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-032-032-1/1 Operator: LCM
Run Time: 10/04/07 18:11:29
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	13508.27	-1.78436	9.100721	9.912956	.4873770	-1.72108	53.42771
#1	13475.60	-1.98630	9.219957	9.942049	.4802202	-1.65142	55.31125
#2	13540.95	-1.58242	8.981484	9.883864	.4945339	-1.79075	51.54418
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	421.3775	15.18709	96.39452	236654.8	15.77800	1176.242	405.0467
#1	420.5223	15.17450	96.67372	236080.2	14.63634	1181.714	404.7559
#2	422.2327	15.19968	96.11532	237229.3	16.91966	1170.770	405.3375
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	57.25023	158.1300	4.928759	.1501266	199.5024	4.617529	733.0160
#1	57.11974	157.7705	4.737177	.4539623	154.1278	3.291450	732.7102
#2	57.38072	158.4896	5.120340	-.153709	244.8770	5.943607	733.3217
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	114.7992	-7.32648	2.768772	1.629539	7.601923	17174.42	12.53528
#1	114.3108	-6.97173	2.855473	.7129002	7.662585	17195.10	11.60489
#2	115.2875	-7.68124	2.682071	2.546179	7.541261	17153.75	13.46567
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	17.39897	1.630787	6.577297	-34.0885	-145.360	987.3678
#1	16.15168	1.921139	6.144730	-34.3476	-154.351	1008.938
#2	18.64626	1.340435	7.009865	-33.8294	-136.369	965.7975
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: IAICSAI Operator: LCM
Run Time: 10/04/07 18:26:44
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	481904.3	4.644525	1.476270	.8514213	.5535370	.9794807	516280.5
#1	482436.8	1.694325	3.881243	.8860449	.5617022	1.359173	517362.9
#2	481371.8	7.594724	-.928703	.8167977	.5453716	.5997887	515198.2
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	1.362928	Q2.820793	2.005511	187455.2	3.460986	504629.3	Q13.30224
#1	1.314729	Q2.573645	1.881679	187670.1	3.152544	505055.1	Q13.39918
#2	1.411127	Q3.067941	2.129342	187240.4	3.769429	504203.6	Q13.20530
Errors	QC Pass	QC Fail	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	3.906302	-25.3704	3.076130	-.581760	-127.432	.2425804	1.712184
#1	4.279832	-24.9497	Q10.01196	-.238905	-66.1850	-4.07566	1.420931
#2	3.532771	-25.7912	-3.85970	-.924615	-188.679	4.560825	2.003437
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	Q23.54906	2.524755	-1.31703	-.798217	Q4.266389	3.044995	-16.7559
#1	Q23.67025	1.720288	-2.37526	-1.64009	Q4.282892	3.316459	-19.8373
#2	Q23.42787	3.329223	-.258801	.0436565	Q4.249885	2.773531	-13.6745
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	13.56895	7.281156	.9732132	-28.3087	-238.639	Q39.25925
#1	14.64691	11.18923	9.422913	-36.4247	-247.650	Q39.34437
#2	12.49099	3.373086	-7.47649	-20.1927	-229.627	Q39.17412
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACEPB Sample Name: IBICSABI Operator: LCM
Run Time: 10/04/07 18:36:09
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	475591.8	608.8043	99.88393	495.9500	479.3736	935.5508	507743.8
#1	483661.1	623.4050	101.9178	504.3589	485.0771	952.5476	518716.7
#2	467522.3	594.2035	97.85004	487.5411	473.6701	918.5541	496770.8
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	480.6537	466.8523	528.9643	185751.4	54.64584	498897.2	491.8043
#1	489.7729	475.2117	535.7056	189240.8	55.82755	508121.7	500.7360
#2	471.5345	458.4929	522.2230	182262.0	53.46413	489672.8	482.8726
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	938.7134	5213.448	46.76311	211.4900	10206.28	105.2103	484.5272
#1	956.6703	5300.968	48.32236	213.9894	10385.33	105.8427	490.8362
#2	920.7564	5125.928	45.20385	208.9906	10027.24	104.5779	478.2181
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	934.8636	1048.271	971.4521	990.1657	509.3384	969.4233	28.99423
#1	947.2324	1067.665	985.3848	1005.268	519.4305	983.0187	27.21796
#2	922.4947	1028.877	957.5194	975.0634	499.2463	955.8279	30.77051
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	67.47109	48.40409	45.94217	160.7700	Q-71.5886	Q1335.986
#1	70.13178	47.36747	48.79927	Q159.6498	Q-54.9767	Q1361.928
#2	64.81039	49.44072	43.08506	161.8902	Q-88.2005	Q1310.044
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: TRACEPB Sample Name: CVCCV4 Operator: LCM
Run Time: 10/04/07 18:45:39
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50033.07	506.4374	501.2421	484.1932	49.61488	494.6026	98668.55
#1	49967.56	503.7864	500.2971	482.7267	49.61600	493.3301	98423.32
#2	50098.57	509.0884	502.1872	485.6596	49.61375	495.8752	98913.78
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	495.7408	491.6471	504.8785	48146.39	494.2546	99961.12	491.7134
#1	494.0837	490.1661	504.3854	48033.93	492.9332	99812.73	490.4356
#2	497.3980	493.1281	505.3717	48258.86	495.5760	100109.5	492.9912
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	494.3540	Q78443.19	506.4414	516.1938	98071.81	501.8529	495.5512
#1	493.3793	Q78279.86	504.0515	513.5927	97883.52	496.8053	495.4898
#2	495.3286	Q78606.52	508.8313	518.7949	98260.09	506.9005	495.6127
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	491.9665	519.2763	494.9636	500.4225	502.5310	499.2084	490.0408
#1	490.8726	518.8616	494.2663	499.1104	502.4245	499.0637	490.5668
#2	493.0605	519.6909	495.6609	501.7346	502.6375	499.3532	489.5147
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	496.3612	507.4760	505.9237	505.5526	Q211.8079	521.7931
#1	494.1161	503.4925	504.3306	502.9661	Q205.3310	522.3483
#2	498.6062	511.4595	507.5168	508.1392	Q218.2847	521.2379
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: TRACEPB Sample Name: BCCCB4 Operator: LCM
Run Time: 10/04/07 18:55:16
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	Q70.61835	Q-.046387	Q.8897773	Q.1333717	Q.0387904	Q.0896429	Q10.17429
#1	Q87.45318	Q.7552467	Q1.362360	Q.2225518	Q.0613168	Q.2404509	Q37.43632
#2	Q53.78352	Q-.848021	Q.4171944	Q.0441916	Q.0162639	Q-.061165	Q-17.0877
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail
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	Q-.009928	Q-.036223	Q.0136978	Q26.53127	Q.8681497	Q66.04050	Q.1259298
#1	Q.0668176	Q.1179541	Q.1810824	Q39.38882	Q1.083081	Q92.33965	Q.1796998
#2	Q-.086674	Q-.190400	Q-.153687	Q13.67372	Q.6532183	Q39.74135	Q.0721598
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail
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	Q.7951790	Q14.11350	Q-1.31113	Q-.648223	Q-135.030	Q1.791119	Q.2415985
#1	Q.5320084	Q24.78684	Q-2.21940	Q-.684587	Q-164.206	Q2.842865	Q-.064279
#2	Q1.058350	Q3.440173	Q-.402864	Q-.611860	Q-105.854	Q.7393733	Q.5474760
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail
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	Q-.994284	Q-.700940	Q-.034858	Q-1.06676	Q.1542246	Q.2677023	-2.94517
#1	Q-.690563	Q-.425395	Q.7082687	Q.5279430	Q.2344836	Q.4099442	-3.92908
#2	Q-1.29801	Q-.976485	Q-.777986	Q-2.66147	Q.0739657	Q.1254604	-1.96126
Errors	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	QC Fail	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	2.774302	-.628302	-1.65301	Q-7.01627	Q-253.211	Q-3.58234
#1	3.588650	-1.94644	-2.35630	Q-5.80979	Q-266.340	Q-3.38259
#2	1.959954	.6898380	-.949718	Q-8.22275	Q-240.082	Q-3.78208
Errors	NOCHECK	NOCHECK	NOCHECK	QC Fail	QC Fail	QC Fail
Value				500.0000	500.0000	500.0000
Range				10.00000	10.00000	10.00000

Method: TRACEPB Sample Name: BLK 144 Operator: LCM
Run Time: 10/04/07 19:07:45
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32.65557	3.699566	2.497924	.7467063	-.030709	-.325246	22.49326
#1	33.16211	2.888116	3.031397	.7120662	-.107539	-.522264	23.24294
#2	32.14903	4.511017	1.964451	.7813464	.0461205	-.128228	21.74359
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	.5363906	-1.20243	.0723619	14.62096	1.541547	2.373828	.3025912
#1	.1956385	-1.56749	.1561336	7.509014	2.060742	-1.49821	.2509532
#2	.8771427	-.837371	-.011410	21.73291	1.022352	6.245864	.3542292
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	-3.98703	9.219353	-.350719	-.343890	381.8044	-6.83448	.7870266
#1	-4.15916	17.38987	.5889926	.2072243	392.9770	-9.98017	1.707002
#2	-3.81490	1.048836	-1.29043	-.895005	370.6319	-3.68879	-.132948
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	3.635459	4.248066	-.972418	H22.63902	.5427560	1.222513	-.081232
#1	3.937975	4.414400	-.585564	H23.69831	.5365180	1.459825	.2894159
#2	3.332943	4.081731	-1.35927	H21.57973	.5489941	.9852016	-.451879
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	2.352419	-18.0260	8.486479	-37.8537	-260.279	8.434922
#1	2.945883	-16.5056	9.135860	-37.3194	-262.412	4.288221
#2	1.758955	-19.5464	7.837098	-38.3880	-258.146	12.58162
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACEPB Sample Name: BKS 144 Operator: LCM
Run Time: 10/04/07 19:17:00
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9985.501	103.6774	99.34314	1006.610	50.92980	101.6142	9649.488
#1	9968.493	102.5827	99.20259	1005.259	50.78046	101.2474	9628.690
#2	10002.51	104.7721	99.48368	1007.961	51.07915	101.9810	9670.286
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	519.6106	497.2039	517.5598	9917.340	989.6199	9757.089	1012.298
#1	518.9862	496.0830	516.8269	9900.921	988.9623	9748.885	1010.258
#2	520.2350	498.3248	518.2928	9933.758	990.2775	9765.293	1014.337
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	505.6967	9115.079	93.23433	103.1751	9881.065	95.48299	517.3890
#1	505.2367	9127.488	91.54769	103.5681	9900.600	96.24175	515.6984
#2	506.1567	9102.670	94.92096	102.7821	9861.530	94.72423	519.0798
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	1003.701	973.4691	512.0646	536.7700	1032.372	2032.975	982.0689
#1	1004.421	972.2658	511.9962	535.8018	1031.720	2030.043	980.8392
#2	1002.981	974.6725	512.1331	537.7383	1033.024	2035.908	983.2986
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	993.3950	75.17720	102.2625	346.3205	120.6282	8825.863
#1	993.0235	67.41660	103.6129	351.3826	120.3599	8820.789
#2	993.7665	82.93780	100.9121	341.2584	120.8965	8830.936
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						12000.00
Low						8000.000

Method: TRACEPB Sample Name: S 709141-033-033-1/1 Operator: LCM
Run Time: 10/04/07 19:26:16
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	75026.75	-.553407	7.646090	11.92950	.3520958	-.173163	30.10194
#1	75109.30	-1.02752	9.425711	11.95068	.3393476	-.035450	34.01767
#2	74944.20	-.079294	5.866470	11.90832	.3648440	-.310877	26.18620
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	305.7252	3.569039	76.48264	124133.1	10.86907	343.4787	173.8905
#1	305.9414	3.714781	76.55559	124247.1	11.09928	339.8498	174.1178
#2	305.5089	3.423297	76.40968	124019.1	10.63887	347.1076	173.6631
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	86.30975	86.18591	7.807836	1.292956	3.857822	3.262274	249.5179
#1	86.71416	87.77258	6.481967	1.451449	72.10781	1.935709	250.0361
#2	85.90535	84.59923	9.133706	1.134464	-64.3922	4.588839	248.9998
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	39.74769	-.002374	.8068531	.6426296	5.169679	7122.220	5.834953
#1	39.79105	.4254295	.7658165	-1.28151	5.184800	7137.163	7.269813
#2	39.70432	-.430178	.8478895	2.566767	5.154558	7107.276	4.400093
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	13.38567	5.938295	8.742105	-20.2521	127.8256	2979.294
#1	13.01350	3.966740	7.739078	-19.5342	115.6003	2976.739
#2	13.75784	7.909850	9.745132	-20.9700	140.0510	2981.849
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SP709141-033-033-1/1 Operator: LCM
Run Time: 10/04/07 19:35:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	93824.34	3.002205	16.17851	111.6245	5.190436	9.705908	951.0680
#1	93637.61	1.990242	15.56727	111.3089	5.168510	9.899527	952.6841
#2	94011.07	4.014167	16.78973	111.9401	5.212363	9.512290	949.4518
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	395.5949	51.57204	136.0640	139288.7	108.5570	1358.921	288.8628
#1	395.5602	51.36344	135.5450	139125.6	108.1722	1358.066	288.5864
#2	395.6296	51.78066	136.5830	139451.9	108.9417	1359.776	289.1393
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	150.5625	1011.498	18.41782	11.34550	923.8737	14.88694	324.5202
#1	149.8114	1009.791	16.84353	11.19998	968.8586	13.75312	323.6502
#2	151.3137	1013.205	19.99211	11.49102	878.8887	16.02076	325.3902
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	141.8217	95.27840	46.70446	52.37289	108.8605	7993.686	100.8672
#1	142.2662	94.61637	45.94216	52.29532	108.6347	7967.882	97.68988
#2	141.3773	95.94044	47.46675	52.45045	109.0862	8019.490	104.0446
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	112.4013	15.28258	19.98502	15.13893	254.8213	1039.753
#1	113.4128	8.284788	21.12247	16.49979	242.5015	1038.139
#2	111.3898	22.28037	18.84756	13.77807	267.1411	1041.366
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SD709141-033-033-1/1 Operator: LCM
Run Time: 10/04/07 19:45:06
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	94954.86	4.996274	16.61447	111.7665	5.284455	9.604631	952.2231
#1	94895.20	4.876416	15.93269	111.8871	5.365554	9.674452	948.9598
#2	95014.52	5.116132	17.29625	111.6459	5.203357	9.534811	955.4864
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	403.7394	51.78048	142.8340	143410.6	108.9212	1377.553	295.6771
#1	403.8186	51.99113	142.5983	143527.3	109.1779	1383.294	295.5943
#2	403.6602	51.56983	143.0698	143293.9	108.6644	1371.812	295.7599
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	164.8645	1003.197	19.59382	11.71526	889.9442	12.40519	334.6609
#1	164.7874	1008.452	22.29963	11.56545	913.9413	16.37999	334.0587
#2	164.9415	997.9412	16.88802	11.86507	865.9471	8.430386	335.2631
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	144.1475	95.34296	46.08083	49.44175	108.3863	8221.420	103.5258
#1	143.0895	95.67470	45.22783	50.47381	108.6598	8204.085	104.6641
#2	145.2055	95.01122	46.93384	48.40968	108.1127	8238.755	102.3875
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	111.6184	14.90695	21.93684	9.862591	273.9710	1255.836
#1	111.4344	21.76912	22.56446	8.670402	255.4461	1255.904
#2	111.8025	8.044770	21.30922	11.05478	292.4958	1255.768
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: PS709141-033-033-1/1 Operator: LCM
Run Time: 10/04/07 19:54:22
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	75715.31	81.75513	88.48317	32.05293	10.27469	20.20813	4861.163
#1	75750.77	82.39208	86.58930	32.10408	10.23480	20.05377	4855.711
#2	75679.86	81.11817	90.37704	32.00178	10.31459	20.36249	4866.614
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	322.2490	33.52379	107.0568	125187.4	91.46072	5343.239	252.6227
#1	321.3916	32.95252	106.8662	125166.3	90.96077	5340.429	252.6398
#2	323.1063	34.09506	107.2475	125208.6	91.96068	5346.049	252.6056
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	125.8197	4907.965	78.67836	45.90896	4827.199	103.6544	269.8278
#1	126.0116	4915.425	78.00609	45.64999	4842.423	106.9738	269.2548
#2	125.6279	4900.504	79.35063	46.16792	4811.974	100.3349	270.4008
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	118.8880	71.15878	31.76040	104.4893	25.80591	7080.957	87.32333
#1	118.4621	71.32007	31.75950	105.3812	25.81209	7061.589	90.64382
#2	119.3139	70.99749	31.76131	103.5974	25.79973	7100.325	84.00285
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	93.52901	76.20412	79.91504	492.6425	607.9308	8032.265
#1	91.11892	78.90628	77.55563	490.5609	594.6729	8026.534
#2	95.93909	73.50197	82.27446	494.7241	621.1888	8037.996
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SE709141-033-033-1/1 Operator: LCM
Run Time: 10/04/07 20:03:37
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	15538.52	-1.79916	4.159342	2.345147	.0243725	-.090051	-18.6944
#1	15526.49	-1.74410	2.647927	2.416799	.0200945	-.047430	-17.3100
#2	15550.56	-1.85422	5.670756	2.273494	.0286504	-.132671	-20.0788
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	62.04745	.4344305	15.85844	25581.90	2.425898	59.82220	35.76186
#1	61.47768	.1353736	16.11805	25541.81	2.418239	62.89949	35.76015
#2	62.61721	.7334874	15.59883	25622.00	2.433557	56.74493	35.76358
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	17.61816	1.009923	1.111490	.4882167	-81.0018	-.158405	51.44828
#1	18.17866	1.210829	1.834013	.6780407	-141.564	.2921372	51.19986
#2	17.05766	.8090172	.3889677	.2983927	-20.4397	-.608947	51.69670
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	9.064094	-1.10672	-1.23811	-.987352	.9868846	1465.925	.5751319
#1	9.048814	-.818877	-.418562	-.846959	1.012258	1462.615	.1498899
#2	9.079374	-1.39457	-2.05766	-1.12775	.9615117	1469.234	1.000374
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	3.350901	-1.09418	2.213900	-9.26126	-183.556	613.5100
#1	3.551993	.6522880	2.424540	-8.05199	-225.449	612.0993
#2	3.149809	-2.84064	2.003261	-10.4705	-141.663	614.9208
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-034-034-1/1 Operator: LCM
Run Time: 10/04/07 20:12:53
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	60894.04	-2.03358	6.387204	14.87622	.5622975	.1374235	19.79666
#1	61079.50	-1.91817	10.21025	15.00031	.5207562	-.030483	19.96561
#2	60708.58	-2.14899	2.564156	14.75213	.6038388	.3053303	19.62770
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	563.1734	2.982750	69.04604	284178.4	20.51668	320.4628	231.2808
#1	565.0458	3.384300	68.87004	285503.7	20.29432	319.6773	232.1616
#2	561.3010	2.581200	69.22202	282853.1	20.73904	321.2484	230.3999
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	63.58262	129.2133	12.96492	.7896226	160.6109	5.356216	551.4945
#1	64.30765	128.7004	13.87351	.9821825	132.1701	6.143921	551.7833
#2	62.85759	129.7263	12.05634	.5970626	189.0518	4.568512	551.2056
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	55.59824	-3.63012	1.090641	4.296178	4.324249	12062.12	15.13440
#1	55.75884	-4.33586	1.208711	2.561157	4.348256	12084.30	13.22217
#2	55.43765	-2.92438	.9725711	6.031199	4.300242	12039.95	17.04662
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	23.20735	4.698163	17.09787	-25.5379	-13.1992	610.3759
#1	23.82988	3.790104	18.91477	-23.3856	-14.0505	613.1064
#2	22.58482	5.606222	15.28097	-27.6902	-12.3479	607.6453
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-035-035-1/1 Operator: LCM
Run Time: 10/04/07 20:22:27
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24947.11	-.320813	9.394771	31.33616	.4655274	.1117477	1518.274
#1	24947.15	-.393784	11.55474	31.37557	.4532092	.0222111	1523.173
#2	24947.07	-.247843	7.234802	31.29674	.4778457	.2012844	1513.376
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	383.8953	12.27166	111.4789	226404.6	35.90778	1358.908	424.2797
#1	384.4386	12.19719	111.8645	226653.1	35.40171	1358.341	424.9182
#2	383.3519	12.34613	111.0933	226156.1	36.41385	1359.474	423.6411
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	71.98311	257.9448	7.037460	.2098485	192.9756	-1.79998	564.5376
#1	72.42463	258.3221	8.451478	.2150295	299.1603	-1.56930	566.6907
#2	71.54159	257.5675	5.623443	.2046675	86.79092	-2.03065	562.3845
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	113.5442	-1.90261	2.418187	3.919318	32.98515	12684.75	31.78505
#1	113.0491	-2.40982	2.710032	5.211767	33.04878	12726.85	29.68289
#2	114.0394	-1.39539	2.126342	2.626869	32.92152	12642.66	33.88720
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	37.96876	2.883989	9.113728	-26.8723	-156.412	788.5356
#1	38.26074	5.634235	9.859673	-25.2414	-154.160	789.8395
#2	37.67679	.1337423	8.367783	-28.5032	-158.664	787.2319
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-036-036-1/1 Operator: LCM
Run Time: 10/04/07 20:31:43
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	32120.69	-3.56446	8.464683	11.47873	.5353035	1.401054	180.7692
#1	32127.77	-6.17293	7.755967	11.53952	.5835776	1.433098	182.6981
#2	32113.62	-.955995	9.173399	11.41794	.4870294	1.369011	178.8404
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	577.5915	8.221447	97.35292	321680.8	26.72253	593.6594	355.0612
#1	577.6201	8.010656	97.25446	322001.2	26.77146	594.8957	355.4664
#2	577.5630	8.432238	97.45138	321360.3	26.67359	592.4231	354.6559
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	66.34718	199.9199	13.42695	.3367267	147.5842	5.830460	657.6399
#1	66.88790	203.5534	14.27910	-.315249	240.8895	5.398666	657.5258
#2	65.80647	196.2863	12.57480	.9887022	54.27899	6.262253	657.7541
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	96.89946	-4.18888	1.618684	2.778608	8.400242	13659.99	24.71688
#1	96.60387	-4.38867	1.640649	2.635656	8.403030	13664.02	22.19028
#2	97.19504	-3.98908	1.596719	2.921560	8.397454	13655.95	27.24347
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	27.72483	7.223687	16.52821	-29.7062	-124.345	623.9124
#1	29.06153	9.268553	16.78399	-33.6449	-129.286	626.7858
#2	26.38814	5.178822	16.27244	-25.7675	-119.403	621.0391
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: CVCCV4 Operator: LCM
Run Time: 10/04/07 20:43:52
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50800.61	513.3197	511.1232	499.5316	50.24876	497.9749	99703.88
#1	50704.76	510.5789	509.2838	497.8482	50.24786	497.9760	99701.34
#2	50896.45	516.0606	512.9627	501.2149	50.24967	497.9739	99706.41
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	499.7451	499.2405	505.7425	49000.64	502.5954	100226.4	501.5831
#1	498.6452	497.8494	505.6436	48899.01	501.4766	100214.9	500.5568
#2	500.8449	500.6315	505.8414	49102.27	503.7142	100237.9	502.6095
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	501.7730	Q79369.57	512.5153	520.4782	100300.3	513.4769	503.2139
#1	500.9614	Q79134.13	511.3125	520.1453	100173.6	513.0821	502.7001
#2	502.5847	Q79605.01	513.7181	520.8110	100427.0	513.8717	503.7276
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	493.1748	513.0319	507.8759	511.7961	504.3754	502.8278	494.5566
#1	492.6679	514.8593	503.9337	509.9047	503.5204	502.5874	493.4879
#2	493.6816	511.2043	511.8181	513.6875	505.2303	503.0682	495.6253
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	506.6144	515.2213	511.1619	510.3503	Q190.1483	525.7145
#1	505.4705	520.9163	506.5102	508.6837	Q191.2241	523.7961
#2	507.7582	509.5264	515.8136	512.0168	Q189.0725	527.6328
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: TRACEPB Sample Name: BCCCB4 Operator: LCM
Run Time: 10/04/07 20:53:08
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	10.90988	-.740780	-1.07201	.0219912	-.064229	-.097500	1.194173
#1	12.84375	-1.80273	-1.46842	.0305718	-.102336	-.218610	3.635365
#2	8.976024	.3211737	-.675594	.0134105	-.026122	.0236100	-1.24702
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	-.207363	-.283073	.2131484	11.36996	.1860139	12.96884	-.001267
#1	-.493807	-.209649	.0573683	10.77617	1.136578	15.75592	-.017898
#2	.0790812	-.356498	.3689285	11.96374	-.764550	10.18177	.0153636
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	.2353788	1.142888	-1.55020	-.506158	-184.298	1.492544	.1720815
#1	.2785522	3.128018	-1.63562	-.241374	-232.215	-.527054	.1375726
#2	.1922055	-.842242	-1.46478	-.770941	-136.381	3.512141	.2065904
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	-.980699	-1.05415	.0660324	-1.99104	.0576141	.6432233	-2.31531
#1	-.961121	-1.18857	.0814789	-1.48507	.0668144	.7707643	-3.03914
#2	-1.00028	-.919734	.0505859	-2.49701	.0484137	.5156823	-1.59149
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	1.436090	-5.45755	.4031400	-6.57695	-272.590	-2.89511
#1	3.223928	-8.05048	1.571472	-8.05023	-279.231	-2.64734
#2	-.351749	-2.86462	-.765192	-5.10368	-265.949	-3.14288
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: S 709141-037-037-1/1 Operator: LCM
Run Time: 10/04/07 21:02:25
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	59624.99	-1.76717	9.886448	15.10905	.4547514	1.427219	81.30157
#1	59630.69	-2.85842	11.92631	15.08743	.5249828	1.573849	84.49980
#2	59619.30	-.675916	7.846580	15.13066	.3845199	1.280590	78.10334
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	397.4346	3.613894	65.87133	231744.4	19.65462	351.2676	205.4378
#1	397.5933	3.474480	65.98647	231822.3	19.47138	350.9721	205.7038
#2	397.2760	3.753307	65.75619	231666.6	19.83786	351.5631	205.1719
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	102.0675	169.8032	16.62721	.5616535	134.2379	2.806162	444.8451
#1	102.3674	168.1432	14.89881	.4744190	79.26572	.5240669	447.1787
#2	101.7677	171.4632	18.35561	.6488881	189.2101	5.088257	442.5116
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	52.33315	-2.77247	2.128090	4.048618	4.416475	10321.53	15.33387
#1	52.54827	-3.07679	2.352127	2.003347	4.406406	10361.42	14.93714
#2	52.11803	-2.46815	1.904053	6.093888	4.426545	10281.65	15.73059
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	21.81463	12.19756	18.84152	-25.4890	-127.562	772.5564
#1	21.73811	11.26485	16.71527	-26.5277	-123.844	772.4971
#2	21.89115	13.13027	20.96777	-24.4502	-131.280	772.6157
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-038-038-1/1 Operator: LCM
Run Time: 10/04/07 21:12:00
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	49161.49	-3.42031	3.560537	15.58003	.5949172	2.009747	111.2971
#1	49118.27	-4.24197	4.268264	15.51652	.5906819	1.864006	108.7163
#2	49204.71	-2.59865	2.852810	15.64355	.5991524	2.155487	113.8779
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	571.5061	5.721272	85.26794	309847.4	40.46870	549.4019	251.1947
#1	571.6896	5.412632	84.40899	310175.8	40.46289	552.7660	251.0956
#2	571.3226	6.029911	86.12688	309518.9	40.47451	546.0378	251.2938
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	95.58716	135.3590	15.69276	1.062235	160.0478	.7562332	553.3283
#1	95.38721	138.5871	17.48428	1.447075	173.0894	-.590538	552.6007
#2	95.78710	132.1309	13.90123	.6773960	147.0063	2.103004	554.0558
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	74.38354	-4.35801	1.329794	1.986180	6.022073	12556.23	37.37280
#1	74.37883	-4.54425	1.294197	.8760338	6.009452	12538.19	37.67717
#2	74.38824	-4.17178	1.365391	3.096327	6.034694	12574.28	37.06843
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	42.01613	7.172934	19.95223	-28.3192	-50.0955	574.0335
#1	41.85523	3.969794	24.24108	-27.7100	-57.4489	575.5283
#2	42.17703	10.37607	15.66338	-28.9284	-42.7421	572.5386
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-039-039-1/1 Operator: LCM
Run Time: 10/04/07 21:21:16
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	37968.20	-1.53361	5.633150	11.89534	.3868376	1.198414	115.9730
#1	38179.40	-.195830	5.529291	11.91678	.4293805	1.115122	115.1144
#2	37757.00	-2.87140	5.737009	11.87390	.3442947	1.281706	116.8316
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	403.1868	7.907201	80.07173	276798.3	20.83316	723.9995	281.3068
#1	404.4128	7.750042	80.65205	277712.1	21.29915	724.9001	282.3880
#2	401.9607	8.064360	79.49140	275884.6	20.36716	723.0990	280.2255
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	68.89371	154.9188	11.45119	.6217760	210.5006	1.523140	564.5065
#1	68.94789	153.9285	12.31139	.6460202	174.5159	-1.75681	567.4316
#2	68.83952	155.9091	10.59098	.5975318	246.4853	4.803085	561.5815
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	77.24498	-4.63675	2.057159	2.937157	5.600144	13392.69	15.91654
#1	77.64929	-5.66279	1.663940	3.396946	5.597430	13467.61	15.50483
#2	76.84066	-3.61072	2.450378	2.477367	5.602858	13317.77	16.32824
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	23.29102	3.079625	15.63649	-26.9244	-93.9188	680.6109
#1	24.19579	4.631148	16.15107	-22.5776	-78.9377	682.8187
#2	22.38624	1.528101	15.12191	-31.2711	-108.900	678.4031
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-040-040-1/1 Operator: LCM
Run Time: 10/04/07 21:30:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	73395.05	.6179485	4.890840	15.07626	.2793924	.7874236	80.28075
#1	73722.34	1.951734	4.477339	15.14034	.3185676	.7655430	81.41307
#2	73067.77	-.715837	5.304340	15.01218	.2402171	.8093042	79.14844
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	265.4908	8.613110	138.3559	108518.8	13.33520	461.6771	312.9210
#1	266.8267	8.894607	139.2306	108903.6	12.00762	461.7073	314.2703
#2	264.1549	8.331613	137.4812	108134.0	14.66278	461.6468	311.5717
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	183.9750	175.4760	5.168700	.2777754	62.27039	-1.33280	232.5833
#1	184.6431	176.8342	5.260620	.1709844	73.40991	-1.51447	234.4390
#2	183.3069	174.1179	5.076781	.3845664	51.13088	-1.15114	230.7277
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	65.46359	-.874070	-.008543	2.114572	3.435812	6069.648	5.377983
#1	65.24657	-.781382	-.137770	2.952243	3.444372	6105.041	4.012989
#2	65.68063	-.966758	.1206830	1.276902	3.427252	6034.257	6.742977
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	17.31342	-.053287	7.779179	-16.4560	-108.466	1012.796
#1	16.00450	-1.36919	8.575005	-16.2917	-88.2549	1017.387
#2	18.62234	1.262619	6.983353	-16.6203	-128.677	1008.205
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-041-041-1/1 Operator: LCM
Run Time: 10/04/07 21:39:48
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	14471.14	-.994218	7.461009	19.25024	.2518625	1.879648	292.9839
#1	14427.97	-.914853	4.672263	19.14161	.2366211	1.495178	289.4810
#2	14514.31	-1.07358	10.24976	19.35887	.2671038	2.264118	296.4869
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	341.3191	12.59995	94.52701	257751.3	16.83858	1088.045	342.5040
#1	340.9048	12.27273	94.54244	257509.5	17.06717	1088.605	341.8556
#2	341.7333	12.92718	94.51157	257993.0	16.60999	1087.486	343.1525
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	55.66076	80.44101	6.414109	.4779463	287.0135	-.583677	734.0103
#1	55.22695	81.22258	7.744223	.4828169	346.0620	2.749638	731.8064
#2	56.09457	79.65943	5.083994	.4730757	227.9649	-3.91699	736.2142
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	89.24590	-4.96353	1.484545	4.594638	11.22530	16234.26	15.96267
#1	89.28085	-4.86600	2.022089	5.050322	11.24707	16208.96	18.03777
#2	89.21094	-5.06106	.9470007	4.138954	11.20353	16259.55	13.88758
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	17.27606	1.907186	8.667160	-27.8709	-172.221	618.2730
#1	16.58136	6.713195	8.259224	-26.9176	-182.542	624.0297
#2	17.97076	-2.89882	9.075096	-28.8242	-161.900	612.5162
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-042-042-1/1 Operator: LCM
Run Time: 10/04/07 21:49:24
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	17939.58	-4.83553	7.359609	23.53445	.2478702	1.974892	227.6385
#1	18043.86	-5.37549	7.365274	23.81657	.1184233	2.039738	229.8000
#2	17835.29	-4.29558	7.353944	23.25234	.3773169	1.910046	225.4769
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	399.1974	10.45591	87.90350	304676.4	28.91916	988.3844	401.3045
#1	400.8795	10.65774	89.42515	306806.1	28.14033	995.5433	403.9082
#2	397.5153	10.25407	86.38187	302546.7	29.69799	981.2254	398.7008
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	45.47313	214.5915	11.29856	.3629575	-1.79504	.7315597	699.8232
#1	45.97737	218.4707	12.27829	.6734396	-179.405	5.219765	706.3198
#2	44.96890	210.7124	10.31884	.0524754	175.8147	-3.75665	693.3266
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	114.1621	-5.36045	2.288646	2.129099	33.22063	16340.67	25.84375
#1	114.8531	-5.69440	1.856927	.8874359	33.44261	16546.49	25.61810
#2	113.4711	-5.02650	2.720364	3.370762	32.99865	16134.86	26.06939
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	30.45644	-1.94564	17.92025	-27.9358	-127.111	911.1005
#1	29.40093	1.071120	17.88144	-26.1922	-130.115	933.1340
#2	31.51195	-4.96239	17.95905	-29.6795	-124.107	889.0670
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-043-043-1/1 Operator: LCM
Run Time: 10/04/07 21:58:40
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	15044.46	4.686765	5.001922	21.95216	.3105231	2.793584	208.7520
#1	15044.22	3.304423	6.000558	22.07701	.3163195	3.045969	210.9546
#2	15044.70	6.069106	4.003285	21.82731	.3047267	2.541199	206.5494
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	335.9224	23.34521	141.7793	279668.5	145.9468	1802.347	626.9651
#1	335.7635	23.16338	141.3438	279572.2	146.1179	1794.722	627.2383
#2	336.0812	23.52705	142.2148	279764.7	145.7757	1809.971	626.6919
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	78.23086	161.8671	7.366635	.8483285	334.9310	2.456585	797.5906
#1	78.68366	160.3992	7.241466	.6495153	293.9781	1.780296	795.3597
#2	77.77806	163.3349	7.491804	1.047142	375.8839	3.132874	799.8215
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	180.9768	-8.13389	2.529365	6.325360	14.15460	20219.65	145.2373
#1	180.7975	-7.55046	2.011536	7.432600	14.25039	20216.90	144.4489
#2	181.1562	-8.71733	3.047194	5.218121	14.05882	20222.40	146.0257
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	146.3010	-.610874	11.35486	-31.1227	-170.539	950.9465
#1	146.9517	.0845776	10.81938	-33.8111	-176.624	957.7888
#2	145.6503	-1.30633	11.89034	-28.4343	-164.454	944.1042
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709141-044-044-1/1 Operator: LCM
Run Time: 10/04/07 22:07:56
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	25604.74	-1.24106	9.948786	41.31883	.4788497	3.156860	407.3326
#1	25600.66	-3.04152	9.428501	41.33225	.5233016	2.733417	402.6091
#2	25608.83	.5594120	10.46907	41.30541	.4343977	3.580303	412.0560
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	433.4893	11.97141	101.1660	348408.1	32.59222	1015.351	480.9097
#1	433.9067	11.55116	101.8526	348589.6	33.24127	1014.063	481.0312
#2	433.0718	12.39165	100.4794	348226.7	31.94317	1016.639	480.7882
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	57.90186	305.0636	12.60974	.6941862	211.9966	.2857781	703.7654
#1	57.68583	303.4961	15.65950	.6849977	244.5684	-1.03255	706.5089
#2	58.11790	306.6311	9.559972	.7033748	179.4248	1.604111	701.0220
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	135.4591	-4.15074	2.590738	6.433557	60.32463	16337.38	29.34618
#1	135.3657	-4.11703	2.235740	5.226671	60.43823	16417.11	31.28016
#2	135.5525	-4.18445	2.945736	7.640442	60.21103	16257.64	27.41221
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	34.21482	2.731178	17.54862	-25.3909	-134.279	736.4082
#1	34.22138	6.514995	20.23135	-29.0116	-118.395	742.7341
#2	34.20825	-1.05264	14.86588	-21.7702	-150.163	730.0823
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: IAICSAI Operator: LCM
Run Time: 10/04/07 22:20:05
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	497351.7	-3.76972	1.911259	.9360276	.3989900	4.392387	531957.2
#1	498304.6	-5.16991	2.170678	.9136271	.3891724	4.520784	535097.1
#2	496398.8	-2.36954	1.651840	.9584281	.4088076	4.263990	528817.4
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	1.943662	Q2.877747	3.447274	195840.9	Q5.820665	513933.7	Q13.45289
#1	2.105779	Q3.047333	3.232984	196653.0	4.996922	516071.0	Q13.57555
#2	1.781546	Q2.708160	3.661564	195028.8	Q6.644410	511796.4	Q13.33023
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	4.617832	-13.7348	-2.02073	-.132055	60.99131	3.195909	1.601269
#1	4.661736	-10.5188	-1.58596	.0999811	150.9650	2.754269	2.202337
#2	4.573929	-16.9508	-2.45551	-.364091	-28.9824	3.637550	1.000201
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	Q25.10517	3.698148	-2.30180	-3.47156	Q4.355874	3.936089	-9.85732
#1	Q24.89896	4.549385	-2.48437	-3.89339	Q4.396741	4.474136	-8.30145
#2	Q25.31137	2.846910	-2.11923	-3.04974	Q4.315007	3.398041	-11.4132
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	13.65909	-3.08518	-1.48897	-33.0324	-267.405	Q46.33809
#1	11.64555	-5.86010	.5506515	-34.7362	-265.810	Q47.08630
#2	15.67264	-.310263	-3.52860	-31.3286	-269.001	Q45.58987
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACEPB Sample Name: IBICSABI Operator: LCM
Run Time: 10/04/07 22:29:21
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	497191.2	640.3025	104.6651	529.6803	505.6961	976.7508	525292.1
#1	492003.0	632.8311	101.2888	523.6003	502.0444	965.3981	518492.0
#2	502379.3	647.7740	108.0414	535.7603	509.3478	988.1035	532092.2
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	497.2820	490.9429	539.4503	195541.3	55.79573	510267.7	518.3922
#1	490.9211	484.9157	535.6086	193196.3	56.14058	504260.3	512.2479
#2	503.6428	496.9701	543.2921	197886.4	55.45089	516275.1	524.5366
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	982.0851	5395.946	59.17791	218.4552	10758.67	104.0093	508.8489
#1	970.6796	5344.725	56.88514	216.8237	10614.66	101.1627	504.8449
#2	993.4906	5447.167	Q61.47069	220.0868	10902.68	106.8560	512.8529
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	983.2111	1052.418	1040.516	1048.824	524.8333	1000.375	37.11945
#1	974.2460	1041.826	1024.406	1035.313	518.8975	992.6609	38.89073
#2	992.1762	1063.010	1056.626	1062.336	530.7689	1008.090	35.34817
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	65.13348	61.57880	57.97697	178.5402	Q-87.4191	Q1377.191
#1	64.76509	58.91390	55.87030	173.6743	Q-96.5816	Q1360.930
#2	65.50186	64.24369	60.08363	183.4060	Q-78.2565	Q1393.451
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: TRACEPB Sample Name: CVCCV5 Operator: LCM
Run Time: 10/04/07 22:38:57
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	51960.31	531.8091	525.9379	516.0398	51.91927	514.1935	101401.3
#1	52146.36	532.6125	526.3669	517.4744	51.72826	514.4011	101285.5
#2	51774.25	531.0057	525.5090	514.6051	52.11029	513.9860	101517.2
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	513.0953	515.5299	513.9816	50544.57	517.8257	101949.4	518.0812
#1	513.3477	515.8401	514.1398	50570.46	518.0586	101964.4	518.6653
#2	512.8428	515.2195	513.8235	50518.69	517.5928	101934.5	517.4969
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	517.3819	Q80792.17	534.8078	530.9923	101860.1	531.4722	517.7363
#1	516.6102	Q81057.23	533.7266	531.7097	102241.4	525.4834	516.6289
#2	518.1536	Q80527.11	535.8890	530.2750	101478.7	537.4610	518.8438
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	513.3866	519.0381	530.0266	533.8215	515.3212	512.6693	511.8972
#1	512.8724	517.2061	528.6534	536.6611	516.7057	512.6130	510.5962
#2	513.9008	520.8700	531.3997	530.9820	513.9367	512.7257	513.1983
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	520.7895	542.1643	531.1291	527.4371	Q197.0290	540.7042
#1	521.7894	538.4760	531.3516	526.8128	Q192.1859	541.1657
#2	519.7895	545.8525	530.9067	528.0614	Q201.8721	540.2426
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: TRACEPB Sample Name: BCCCB5 Operator: LCM
Run Time: 10/04/07 22:48:14
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	17.71851	-.777473	-3.08108	.1362693	-.116340	.1087544	39.61054
#1	24.79068	-1.33364	-3.32000	.1652990	-.131006	.1407635	47.24142
#2	10.64634	-.221305	-2.84216	.1072396	-.101674	.0767452	31.97966
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	.0424981	.0922318	1.724965	17.32634	.0515371	25.87901	.0644656
#1	-.301264	-.412804	1.945757	16.73348	-.361940	33.09654	.0890803
#2	.3862600	.5972680	1.504173	17.91919	.4650138	18.66148	.0398510
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	.1309334	1.855317	-.058840	-.050533	-78.1911	.3412065	-.025487
#1	.1770254	-.353256	3.068851	-.197013	-148.446	-.676334	-.203250
#2	.0848413	4.063891	-3.18653	.0959468	-7.93572	1.358747	.1522771
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	-.834266	-.053341	.8790529	-1.20436	.0772210	.1224470	-2.87350
#1	-.657154	.1112902	.7135826	-3.15334	.0928254	.0436469	-3.53213
#2	-1.01138	-.217973	1.044523	.7446183	.0616167	.2012470	-2.21488
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	1.513536	-3.32436	1.573548	-7.98594	-274.448	1.489259
#1	1.222630	-.223372	4.714568	-11.0778	-274.212	.9006251
#2	1.804442	-6.42535	-1.56747	-4.89403	-274.684	2.077893
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000