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

October 24, 2007

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

Dear Mr. Miller:

On September 17, 2007, 50 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 7842_7845. 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: 7842_7845

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2000-ST	OH207-7842-01
SB-CZ-SS-2001-ST	OH207-7842-02
SB-CZ-SS-2002-ST	OH207-7842-03
SB-CZ-SS-2003-ST	OH207-7842-04
SB-CZ-SS-2004-ST	OH207-7842-05
SB-CZ-SS-2005-ST	OH207-7842-06
SB-CZ-SS-2006-ST	OH207-7842-07
SB-CZ-SS-2007-ST	OH207-7842-08
SB-CZ-SS-2008-ST	OH207-7842-09
SB-CZ-SS-2009-ST	OH207-7842-10
SB-CZ-SS-2010-ST	OH207-7842-11
SB-CZ-SS-2011-ST	OH207-7842-12
SB-CZ-SS-2012-ST	OH207-7842-13
SB-CZ-SS-2013-ST	OH207-7842-14
SB-CZ-SS-2014-ST	OH207-7842-15
SB-CZ-SS-2015-ST	OH207-7842-16
SB-CZ-SS-2016-ST	OH207-7842-17
SB-CZ-SS-2017-ST	OH207-7842-18
SB-CZ-SS-2018-ST	OH207-7842-19
SB-CZ-SS-2019-ST	OH207-7842-20
Preparation Blank (PB)	SCAQC-7842-PB1
Laboratory Control (LC)	SCAQC-7842-LC1
Laboratory Duplicate (LD)	SCAQC-7842-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: 7842_7845

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2020-ST	OH207-7843-01
SB-CZ-SS-2021-ST	OH207-7843-02
SB-CZ-SS-2022-ST	OH207-7843-03
SB-CZ-SS-2023-ST	OH207-7843-04
SB-CZ-SS-2024-ST	OH207-7843-05
Preparation Blank (PB)	SCAQC-7843-PB1
Laboratory Control (LC)	SCAQC-7843-LC1
Laboratory Duplicate (LD)	SCAQC-7843-LD1

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Sanford Cohen & Associates
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1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC070001 (AL001)

Laboratory Report Identification Code: 7842_7845

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2000-SD	OH207-7844-01
SB-CZ-SS-2001-SD	OH207-7844-02
SB-CZ-SS-2002-SD	OH207-7844-03
SB-CZ-SS-2003-SD	OH207-7844-04
SB-CZ-SS-2004-SD	OH207-7844-05
SB-CZ-SS-2005-SD	OH207-7844-06
SB-CZ-SS-2006-SD	OH207-7844-07
SB-CZ-SS-2007-SD	OH207-7844-08
SB-CZ-SS-2008-SD	OH207-7844-09
SB-CZ-SS-2009-SD	OH207-7844-10
SB-CZ-SS-2010-SD	OH207-7844-11
SB-CZ-SS-2011-SD	OH207-7844-12
SB-CZ-SS-2012-SD	OH207-7844-13
SB-CZ-SS-2013-SD	OH207-7844-14
SB-CZ-SS-2014-SD	OH207-7844-15
SB-CZ-SS-2015-SD	OH207-7844-16
SB-CZ-SS-2016-SD	OH207-7844-17
SB-CZ-SS-2017-SD	OH207-7844-18
SB-CZ-SS-2018-SD	OH207-7844-19
SB-CZ-SS-2019-SD	OH207-7844-20
Preparation Blank (PB)	SCAQC-7844-PB1
Laboratory Control (LC)	SCAQC-7844-LC1
Laboratory Duplicate (LD)	SCAQC-7844-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: 7842_7845

Site Sample Number	Laboratory Sample Number
SB-CZ-SS-2020-ST	OH207-7845-01
SB-CZ-SS-2021-ST	OH207-7845-02
SB-CZ-SS-2022-ST	OH207-7845-03
SB-CZ-SS-2023-ST	OH207-7845-04
SB-CZ-SS-2024-ST	OH207-7845-05
Preparation Blank (PB)	SCAQC-7845-PB1
Laboratory Control (LC)	SCAQC-7845-LC1
Laboratory Duplicate (LD)	SCAQC-7845-LD1

Comments: There were no problems encountered during sample receiving.

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

Signature

Cynthia White — Name
Laboratory Director — Title
10/24/2007 — Date

USEPA - CLP

COVER PAGE

Lab Name: GPL LABORATORIES, LLLP Contract:

Lab Code: Case No.: NRAS No.: SDG No.: 709115

SOW No.: SW6010C

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2000-SD	S 709115-026-026-1/1
SB-CZ-SS-2000-ST	S 709115-001-001-1/1
SB-CZ-SS-2000-ST MS	SP709115-001-001-1/1
SB-CZ-SS-2000-ST MSD	SD709115-001-001-1/1
SB-CZ-SS-2001-SD	S 709115-027-027-1/1
SB-CZ-SS-2001-ST	S 709115-002-002-1/1
SB-CZ-SS-2002-SD	S 709115-028-028-1/1
SB-CZ-SS-2002-ST	S 709115-003-003-1/1
SB-CZ-SS-2003-SD	S 709115-029-029-1/1
SB-CZ-SS-2003-ST	S 709115-004-004-1/1
SB-CZ-SS-2004-SD	S 709115-030-030-1/1
SB-CZ-SS-2004-ST	S 709115-005-005-1/1
SB-CZ-SS-2005-SD	S 709115-031-031-1/1
SB-CZ-SS-2005-ST	S 709115-006-006-1/1
SB-CZ-SS-2006-SD	S 709115-032-032-1/1
SB-CZ-SS-2006-ST	S 709115-007-007-1/1
SB-CZ-SS-2007-SD	S 709115-033-033-1/1
SB-CZ-SS-2007-ST	S 709115-008-008-1/1
SB-CZ-SS-2008-SD	S 709115-034-034-1/1
SB-CZ-SS-2008-ST	S 709115-009-009-1/1
SB-CZ-SS-2009-SD	S 709115-035-035-1/1
SB-CZ-SS-2009-ST	S 709115-010-010-1/1
SB-CZ-SS-2010-SD	S 709115-036-036-1/1
SB-CZ-SS-2010-ST	S 709115-011-011-1/1
SB-CZ-SS-2011-SD	S 709115-037-037-1/1
SB-CZ-SS-2011-ST	S 709115-012-012-1/1
SB-CZ-SS-2012-SD	S 709115-038-038-1/1
SB-CZ-SS-2012-ST	S 709115-013-013-1/1
SB-CZ-SS-2013-SD	S 709115-039-039-1/1
SB-CZ-SS-2013-ST	S 709115-014-014-1/1
SB-CZ-SS-2014-SD	S 709115-040-040-1/1
SB-CZ-SS-2014-ST	S 709115-015-015-1/1
SB-CZ-SS-2015-SD	S 709115-041-041-1/1
SB-CZ-SS-2015-SD MS	SP709115-041-041-1/1
SB-CZ-SS-2015-SD MSD	SD709115-041-041-1/1

EPA Sample No.	Lab Sample ID
SB-CZ-SS-2015-ST	S 709115-016-016-1/1
SB-CZ-SS-2016-SD	S 709115-042-042-1/1
SB-CZ-SS-2016-ST	S 709115-017-017-1/1
SB-CZ-SS-2017-SD	S 709115-043-043-1/1
SB-CZ-SS-2017-ST	S 709115-018-018-1/1
SB-CZ-SS-2018-SD	S 709115-044-044-1/1
SB-CZ-SS-2018-ST	S 709115-019-019-1/1
SB-CZ-SS-2019-SD	S 709115-045-045-1/1
SB-CZ-SS-2019-ST	S 709115-020-020-1/1
SB-CZ-SS-2020-SD	S 709115-046-046-1/1
SB-CZ-SS-2020-ST	S 709115-021-021-1/1
SB-CZ-SS-2020-ST MS	SP709115-021-021-1/1
SB-CZ-SS-2020-ST MSD	SD709115-021-021-1/1
SB-CZ-SS-2021-SD	S 709115-047-047-1/1
SB-CZ-SS-2021-ST	S 709115-022-022-1/1
SB-CZ-SS-2022-SD	S 709115-048-048-1/1
SB-CZ-SS-2022-ST	S 709115-023-023-1/1
SB-CZ-SS-2023-SD	S 709115-049-049-1/1
SB-CZ-SS-2023-ST	S 709115-024-024-1/1
SB-CZ-SS-2024-SD	S 709115-050-050-1/1
SB-CZ-SS-2024-ST	S 709115-025-025-1/1

		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 Turner

Date: 10/1/2007 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# 13

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					OH201	78412	Laboratory	Comments
1	8/16/2007		Soil	SB-CZ-SS-2000-ST	1		X						01		
2	8/16/2007		Soil	SB-CZ-SS-2001-ST	1		X						02		
3	8/16/2007		Soil	SB-CZ-SS-2002-ST	1		X						03		
4	8/16/2007		Soil	SB-CZ-SS-2003-ST	1		X						04		
5	8/16/2007		Soil	SB-CZ-SS-2004-ST	1		X						05		
6	8/16/2007		Soil	SB-CZ-SS-2005-ST	1		X						06		
7	8/16/2007		Soil	SB-CZ-SS-2006-ST	1		X						07		
8	8/16/2007		Soil	SB-CZ-SS-2007-ST	1		X						08		
9	8/16/2007		Soil	SB-CZ-SS-2008-ST	1		X						09		
10	8/16/2007		Soil	SB-CZ-SS-2009-ST	1		X						10		
11	8/16/2007		Soil	SB-CZ-SS-2010-ST	1		X						11		
12	8/16/2007		Soil	SB-CZ-SS-2011-ST	1		X						12		
13	8/16/2007		Soil	SB-CZ-SS-2012-ST	1		X						13		
14	8/16/2007		Soil	SB-CZ-SS-2013-ST	1		X						14		

Laboratory Prefix

Study I.D.

Pg_____ of

Sampled by and Title Alfred Craig FSP	Date/Time 8/27/07	Relinquished by: Alfred Craig FSP	Date/Time	QC Level 1 2 3	
Received by:	Date/Time	Relinquished by:	Date/Time	COC	ICE
Received by: Carolyn Queen SC's	Date/Time 9/10/07 9:00	Relinquished by: C. Queen SC's	Date/Time 9/10/07 13:45	ANA REQ	TEMP
Remarks: Samples 2000 - 2012 didn't have collection times on containers		Sample shipped via UPS FED-EX HAND OTHER	Air Bill #	Cust Seal	pH
				Sample	

Page 1

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	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 13

Laboratory Prefix

Study I.D.

Pg_____ of

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead							Laboratory	Comments
												04207	7842		
1	8/16/2007		Soil	SB-CZ-SS-2014-ST	1		X						15		
2	8/20/2007		Soil	SB-CZ-SS-2015-ST	1		X						16		
3	8/20/2007		Soil	SB-CZ-SS-2016-ST	1		X						17		
4	8/20/2007		Soil	SB-CZ-SS-2017-ST	1		X						18		
5	8/21/2007		Soil	SB-CZ-SS-2018-ST	1		X						19		
6	8/21/2007		Soil	SB-CZ-SS-2019-ST	1		X						20		
7	8/21/2007		Soil	SB-CZ-SS-2020-ST	1		X					04207	7843-01		
8	8/21/2007		Soil	SB-CZ-SS-2021-ST	1		X						02		
9	8/21/2007		Soil	SB-CZ-SS-2022-ST	1		X						03		
10	8/21/2007		Soil	SB-CZ-SS-2023-ST	1		X						04		
11	8/21/2007		Soil	SB-CZ-SS-2024-ST	1		X						05		
12															
13															
14															

Sampled by and Title Alfred Craig FSP	Date/Time 8/27/07	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: C. Owens - SC&A	Date/Time 9/17/07 13:45	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
07-3080.03	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 13

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					041207	7844	Laboratory	Comments
1	8/16/2007		Soil	SB-CZ-SS-2000-SD	1		X						01		
2	8/16/2007		Soil	SB-CZ-SS-2001-SD	1		X						02		
3	8/16/2007		Soil	SB-CZ-SS-2002-SD	1		X						03		
4	8/16/2007		Soil	SB-CZ-SS-2003-SD	1		X						04		
5	8/16/2007		Soil	SB-CZ-SS-2004-SD	1		X						05		
6	8/16/2007		Soil	SB-CZ-SS-2005-SD	1		X						06		
7	8/16/2007		Soil	SB-CZ-SS-2006-SD	1		X						07		
8	8/16/2007		Soil	SB-CZ-SS-2007-SD	1		X						08		
9	8/16/2007		Soil	SB-CZ-SS-2008-SD	1		X						09		
10	8/16/2007		Soil	SB-CZ-SS-2009-SD	1		X						10		
11	8/16/2007		Soil	SB-CZ-SS-2010-SD	1		X						11		
12	8/16/2007		Soil	SB-CZ-SS-2011-SD	1		X						12		
13	8/16/2007		Soil	SB-CZ-SS-2012-SD	1		X						13		
14	8/16/2007		Soil	SB-CZ-SS-2013-SD	1		X						14		

Laboratory Prefix

Study I.D.

Pg_____ of

Sampled by and Title Alfred Craig FSP	Date/Time 8/27/07	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 9/4/07 9:00	Relinquished by: C. Owens - SC&A	Date/Time 9/4/07 13:45	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	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 13

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Gamma Spec & Lead					011207	7844	Laboratory	Comments
1	8/16/2007		Soil	SB-CZ-SS-2014-SD	1		X						15		
2	8/20/2007		Soil	SB-CZ-SS-2015-SD	1		X						16		
3	8/20/2007		Soil	SB-CZ-SS-2016-SD	1		X						17		
4	8/20/2007		Soil	SB-CZ-SS-2017-SD	1		X						18		
5	8/21/2007		Soil	SB-CZ-SS-2018-SD	1		X						19		
6	8/21/2007		Soil	SB-CZ-SS-2019-SD	1		X						20		
7	8/21/2007		Soil	SB-CZ-SS-2020-SD	1		X					011207	7845-01		
8	8/21/2007		Soil	SB-CZ-SS-2021-SD	1		X						02		
9	8/21/2007		Soil	SB-CZ-SS-2022-SD	1		X						03		
10	8/21/2007		Soil	SB-CZ-SS-2023-SD	1		X						04		
11	8/21/2007		Soil	SB-CZ-SS-2024-SD	1		X						05		
12															
13															
14															

Laboratory Prefix

Study I.D.

Pg_____ of

Sampled by and Title Alfred Craig FSP	Date/Time 8/27/07	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. Lewis - SC&A	Date/Time 9/4/07 9:00	Relinquished by: C. Lewis - SC&A	Date/Time 9/4/07 13:45	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 0276
8625 3505 8081
8974 3314 4484
8625 3505 8070
8625 3505 8060
8974 3314 4495
8592 3952 0277
8625 3505 8092

Container Intact: ☑Yes ☐No
Any Leakage: ☐Yes ☑No
Airbill Present: ☑Yes ☐No #: [illegible]
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 Swipe with contained Stone Mtn. 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 Red Hill 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
Sample containers didn't have collection times.

If any discrepancies, Date/Time Client Contacted: Per Al Owen collection times are not required for Chain of Custody

Work Assignment was changed per Wade Phillips on 9/10/07. CO

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

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

Signature: C. Owen

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

CASE NARRATIVE

Laboratory Report Identification Number: 7842_7845

NELAC Certification ID: NLC070001 (AL001)

October 24, 2007

I. Introduction

On September 17, 2007, 50 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, 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 several contact with the Technical Representative regarding the startup of this contract, soil permit issues, and gamma library modifications.

IV. Quality Control

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7842-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7842-LC1	Laboratory Control
SB-CS-SS-2000-ST	SCAQC-7842-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7843-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7843-LC1	Laboratory Control
SB-CZ-SS-2020-ST	SCAQC-7843-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-7844-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7844-LC1	Laboratory Control
SB-CZ-SS-2000-SD	SCAQC-7844-LD1	Laboratory Duplicate

SC&A QC Information - *Gamma*

Site Sample Number	Laboratory Sample Number	Quality Control Type
Laboratory Type II Water	SCAQC-7845-PB1	Preparation Blank
Mixed Gamma Std (S142)	SCAQC-7845-LC1	Laboratory Control
SB-CZ-SS-2020-SD	SCAQC-7845-LD1	Laboratory Duplicate

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100487	Preparation Blank
NA	BKS100487	Laboratory Control
SB-CZ-SS-2000-ST	SP709115-001-001-1/1	MS/MSD

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100502	Preparation Blank
NA	BKS100502	Laboratory Control
SB-CZ-SS-2020-ST	SP709115-021-021-1/1	MS/MSD

GPL QC Information - *Lead*

Site Sample Number	Laboratory Sample Number	Quality Control Type
NA	BLK100503	Preparation Blank
NA	BKS100503	Laboratory Control
SB-CZ-SS-2015-SD	SP709115-041-041-1/1	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

10/24/2007
Date

SAMPLE AND QC RESULTS SUMMARY

SC&A, Inc.
Southeastern Environmental Laboratory

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2000-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-01	09/18/07 09:52	2.51	0.338	0.422	0.175
DOE 4.5.2.3	CO-60	OH207-7842-01	09/18/07 09:52	0.009	0.013	0.013	0.019
DOE 4.5.2.3	RH-101	OH207-7842-01	09/18/07 09:52	-0.017	0.013	0.013	0.020
DOE 4.5.2.3	SB-125	OH207-7842-01	09/18/07 09:52	0.003	0.036	0.036	0.062
DOE 4.5.2.3	CS-137	OH207-7842-01	09/18/07 09:52	0.291	0.042	0.051	0.023
DOE 4.5.2.3	EU-155	OH207-7842-01	09/18/07 09:52	0.047	0.047	0.048	0.083
DOE 4.5.2.3	TL-208	OH207-7842-01	09/18/07 09:52	0.211	0.038	0.043	0.023
DOE 4.5.2.3	PO-209	OH207-7842-01	09/18/07 09:52	-1.57	2.37	2.38	3.92
DOE 4.5.2.3	BI-211	OH207-7842-01	09/18/07 09:52	-0.208	0.335	0.336	0.564
DOE 4.5.2.3	BI-212	OH207-7842-01	09/18/07 09:52	0.581	0.168	0.178	0.157
DOE 4.5.2.3	PB-212	OH207-7842-01	09/18/07 09:52	0.612	0.064	0.088	0.036
DOE 4.5.2.3	BI-214	OH207-7842-01	09/18/07 09:52	0.440	0.070	0.083	0.043
DOE 4.5.2.3	PB-214	OH207-7842-01	09/18/07 09:52	0.414	0.060	0.073	0.044
DOE 4.5.2.3	RA-223	OH207-7842-01	09/18/07 09:52	0.171	0.118	0.120	0.115
DOE 4.5.2.3	AC-228	OH207-7842-01	09/18/07 09:52	0.753	0.106	0.130	0.058
DOE 4.5.2.3	PA-233	OH207-7842-01	09/18/07 09:52	0.022	0.023	0.024	0.043
DOE 4.5.2.3	PA-234M	OH207-7842-01	09/18/07 09:52	-0.048	1.41	1.41	2.51
DOE 4.5.2.3	TH-234	OH207-7842-01	09/18/07 09:52	0.927	0.374	0.385	0.344
DOE 4.5.2.3	U-235	OH207-7842-01	09/18/07 09:52	-0.029	0.085	0.085	0.140
DOE 4.5.2.3	NP-236	OH207-7842-01	09/18/07 09:52	0.007	0.030	0.030	0.046
DOE 4.5.2.3	NP-237	OH207-7842-01	09/18/07 09:52	0.352	0.150	0.155	0.189
DOE 4.5.2.3	NP-239	OH207-7842-01	09/18/07 09:52	-0.046	0.086	0.087	0.138
DOE 4.5.2.3	AM-241	OH207-7842-01	09/18/07 09:52	0.006	0.084	0.084	0.132
DOE 4.5.2.3	AM-243	OH207-7842-01	09/18/07 09:52	0.147	0.045	0.047	0.044
DOE 4.5.2.3	CM-243/244	OH207-7842-01	09/18/07 09:52	-9.5e-04	0.043	0.043	0.073
DOE 4.5.2.3	AM-246	OH207-7842-01	09/18/07 09:52	0.047	0.041	0.041	0.080
DOE 4.5.2.3	CF-249	OH207-7842-01	09/18/07 09:52	-9.3e-04	0.015	0.015	0.025

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2001-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-02	09/18/07 20:17	2.40	0.360	0.432	0.209
DOE 4.5.2.3	CO-60	OH207-7842-02	09/18/07 20:17	-0.010	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7842-02	09/18/07 20:17	-0.006	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7842-02	09/18/07 20:17	-0.011	0.040	0.040	0.069
DOE 4.5.2.3	CS-137	OH207-7842-02	09/18/07 20:17	0.191	0.032	0.038	0.028
DOE 4.5.2.3	EU-155	OH207-7842-02	09/18/07 20:17	0.007	0.043	0.043	0.074
DOE 4.5.2.3	TL-208	OH207-7842-02	09/18/07 20:17	0.244	0.039	0.046	0.025
DOE 4.5.2.3	PO-209	OH207-7842-02	09/18/07 20:17	-0.473	2.88	2.88	5.07
DOE 4.5.2.3	BI-211	OH207-7842-02	09/18/07 20:17	-0.125	0.424	0.424	0.710
DOE 4.5.2.3	BI-212	OH207-7842-02	09/18/07 20:17	0.499	0.244	0.250	0.175
DOE 4.5.2.3	PB-212	OH207-7842-02	09/18/07 20:17	0.668	0.068	0.095	0.038
DOE 4.5.2.3	BI-214	OH207-7842-02	09/18/07 20:17	0.522	0.084	0.099	0.042
DOE 4.5.2.3	PB-214	OH207-7842-02	09/18/07 20:17	0.627	0.087	0.108	0.048
DOE 4.5.2.3	RA-223	OH207-7842-02	09/18/07 20:17	0.222	0.152	0.153	0.129
DOE 4.5.2.3	AC-228	OH207-7842-02	09/18/07 20:17	0.670	0.126	0.143	0.088
DOE 4.5.2.3	PA-233	OH207-7842-02	09/18/07 20:17	0.010	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7842-02	09/18/07 20:17	1.31	1.70	1.71	3.25
DOE 4.5.2.3	TH-234	OH207-7842-02	09/18/07 20:17	0.714	0.267	0.277	0.307
DOE 4.5.2.3	U-235	OH207-7842-02	09/18/07 20:17	-0.011	0.091	0.091	0.154
DOE 4.5.2.3	NP-236	OH207-7842-02	09/18/07 20:17	0.007	0.028	0.028	0.040
DOE 4.5.2.3	NP-237	OH207-7842-02	09/18/07 20:17	0.260	0.099	0.102	0.133
DOE 4.5.2.3	NP-239	OH207-7842-02	09/18/07 20:17	0.039	0.096	0.096	0.165
DOE 4.5.2.3	AM-241	OH207-7842-02	09/18/07 20:17	0.021	0.028	0.028	0.042
DOE 4.5.2.3	AM-243	OH207-7842-02	09/18/07 20:17	0.107	0.030	0.032	0.024
DOE 4.5.2.3	CM-243/244	OH207-7842-02	09/18/07 20:17	-0.022	0.039	0.039	0.065
DOE 4.5.2.3	AM-246	OH207-7842-02	09/18/07 20:17	0.024	0.046	0.047	0.087
DOE 4.5.2.3	CF-249	OH207-7842-02	09/18/07 20:17	0.008	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2002-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-03	09/19/07 10:58	2.32	0.331	0.404	0.232
DOE 4.5.2.3	CO-60	OH207-7842-03	09/19/07 10:58	1.3e-04	0.012	0.012	0.021
DOE 4.5.2.3	RH-101	OH207-7842-03	09/19/07 10:58	-0.006	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7842-03	09/19/07 10:58	-0.016	0.037	0.037	0.062
DOE 4.5.2.3	CS-137	OH207-7842-03	09/19/07 10:58	0.176	0.039	0.043	0.025
DOE 4.5.2.3	EU-155	OH207-7842-03	09/19/07 10:58	0.045	0.049	0.049	0.084
DOE 4.5.2.3	TL-208	OH207-7842-03	09/19/07 10:58	0.200	0.036	0.041	0.022
DOE 4.5.2.3	PO-209	OH207-7842-03	09/19/07 10:58	-0.042	2.72	2.72	4.76
DOE 4.5.2.3	BI-211	OH207-7842-03	09/19/07 10:58	-0.377	0.368	0.370	0.589
DOE 4.5.2.3	BI-212	OH207-7842-03	09/19/07 10:58	0.480	0.154	0.161	0.175
DOE 4.5.2.3	PB-212	OH207-7842-03	09/19/07 10:58	0.618	0.063	0.088	0.037
DOE 4.5.2.3	BI-214	OH207-7842-03	09/19/07 10:58	0.548	0.083	0.099	0.044
DOE 4.5.2.3	PB-214	OH207-7842-03	09/19/07 10:58	0.527	0.078	0.094	0.045
DOE 4.5.2.3	RA-223	OH207-7842-03	09/19/07 10:58	0.266	0.110	0.113	0.114
DOE 4.5.2.3	AC-228	OH207-7842-03	09/19/07 10:58	0.702	0.124	0.142	0.079
DOE 4.5.2.3	PA-233	OH207-7842-03	09/19/07 10:58	0.012	0.025	0.025	0.045
DOE 4.5.2.3	PA-234M	OH207-7842-03	09/19/07 10:58	0.314	1.44	1.44	2.60
DOE 4.5.2.3	TH-234	OH207-7842-03	09/19/07 10:58	0.820	0.338	0.347	0.473
DOE 4.5.2.3	U-235	OH207-7842-03	09/19/07 10:58	0.041	0.088	0.088	0.146
DOE 4.5.2.3	NP-236	OH207-7842-03	09/19/07 10:58	0.022	0.032	0.032	0.049
DOE 4.5.2.3	NP-237	OH207-7842-03	09/19/07 10:58	0.357	0.140	0.145	0.168
DOE 4.5.2.3	NP-239	OH207-7842-03	09/19/07 10:58	-0.024	0.091	0.091	0.157
DOE 4.5.2.3	AM-241	OH207-7842-03	09/19/07 10:58	0.057	0.072	0.072	0.126
DOE 4.5.2.3	AM-243	OH207-7842-03	09/19/07 10:58	0.115	0.039	0.041	0.044
DOE 4.5.2.3	CM-243/244	OH207-7842-03	09/19/07 10:58	0.002	0.045	0.045	0.075
DOE 4.5.2.3	AM-246	OH207-7842-03	09/19/07 10:58	0.009	0.044	0.044	0.079
DOE 4.5.2.3	CF-249	OH207-7842-03	09/19/07 10:58	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-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2003-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-04	09/19/07 11:00	3.04	0.376	0.484	0.191
DOE 4.5.2.3	CO-60	OH207-7842-04	09/19/07 11:00	-8.4e-04	0.015	0.015	0.026
DOE 4.5.2.3	RH-101	OH207-7842-04	09/19/07 11:00	6.7e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7842-04	09/19/07 11:00	-0.016	0.035	0.036	0.061
DOE 4.5.2.3	CS-137	OH207-7842-04	09/19/07 11:00	0.232	0.041	0.047	0.026
DOE 4.5.2.3	EU-155	OH207-7842-04	09/19/07 11:00	0.018	0.041	0.041	0.072
DOE 4.5.2.3	TL-208	OH207-7842-04	09/19/07 11:00	0.200	0.038	0.043	0.024
DOE 4.5.2.3	PO-209	OH207-7842-04	09/19/07 11:00	-0.441	2.72	2.72	4.79
DOE 4.5.2.3	BI-211	OH207-7842-04	09/19/07 11:00	-0.187	0.404	0.405	0.669
DOE 4.5.2.3	BI-212	OH207-7842-04	09/19/07 11:00	0.415	0.182	0.187	0.191
DOE 4.5.2.3	PB-212	OH207-7842-04	09/19/07 11:00	0.509	0.068	0.085	0.049
DOE 4.5.2.3	BI-214	OH207-7842-04	09/19/07 11:00	0.532	0.077	0.094	0.044
DOE 4.5.2.3	PB-214	OH207-7842-04	09/19/07 11:00	0.539	0.081	0.097	0.047
DOE 4.5.2.3	RA-223	OH207-7842-04	09/19/07 11:00	0.187	0.103	0.105	0.118
DOE 4.5.2.3	AC-228	OH207-7842-04	09/19/07 11:00	0.653	0.121	0.138	0.080
DOE 4.5.2.3	PA-233	OH207-7842-04	09/19/07 11:00	0.002	0.026	0.026	0.043
DOE 4.5.2.3	PA-234M	OH207-7842-04	09/19/07 11:00	0.975	1.72	1.72	3.23
DOE 4.5.2.3	TH-234	OH207-7842-04	09/19/07 11:00	0.727	0.265	0.275	0.389
DOE 4.5.2.3	U-235	OH207-7842-04	09/19/07 11:00	-0.004	0.088	0.088	0.149
DOE 4.5.2.3	NP-236	OH207-7842-04	09/19/07 11:00	-0.001	0.027	0.027	0.039
DOE 4.5.2.3	NP-237	OH207-7842-04	09/19/07 11:00	0.425	0.122	0.129	0.117
DOE 4.5.2.3	NP-239	OH207-7842-04	09/19/07 11:00	-0.060	0.100	0.100	0.165
DOE 4.5.2.3	AM-241	OH207-7842-04	09/19/07 11:00	-0.094	0.028	0.030	0.041
DOE 4.5.2.3	AM-243	OH207-7842-04	09/19/07 11:00	0.086	0.024	0.025	0.024
DOE 4.5.2.3	CM-243/244	OH207-7842-04	09/19/07 11:00	0.009	0.037	0.037	0.065
DOE 4.5.2.3	AM-246	OH207-7842-04	09/19/07 11:00	0.019	0.050	0.050	0.091
DOE 4.5.2.3	CF-249	OH207-7842-04	09/19/07 11:00	-0.002	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2004-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-05	09/19/07 13:00	4.29	0.456	0.626	0.155
DOE 4.5.2.3	CO-60	OH207-7842-05	09/19/07 13:00	0.006	0.013	0.013	0.018
DOE 4.5.2.3	RH-101	OH207-7842-05	09/19/07 13:00	0.004	0.012	0.012	0.021
DOE 4.5.2.3	SB-125	OH207-7842-05	09/19/07 13:00	0.004	0.033	0.033	0.057
DOE 4.5.2.3	CS-137	OH207-7842-05	09/19/07 13:00	0.184	0.033	0.038	0.021
DOE 4.5.2.3	EU-155	OH207-7842-05	09/19/07 13:00	-0.005	0.044	0.044	0.074
DOE 4.5.2.3	TL-208	OH207-7842-05	09/19/07 13:00	0.195	0.036	0.041	0.021
DOE 4.5.2.3	PO-209	OH207-7842-05	09/19/07 13:00	-0.344	2.11	2.11	3.70
DOE 4.5.2.3	BI-211	OH207-7842-05	09/19/07 13:00	-0.022	0.331	0.331	0.582
DOE 4.5.2.3	BI-212	OH207-7842-05	09/19/07 13:00	0.437	0.161	0.167	0.146
DOE 4.5.2.3	PB-212	OH207-7842-05	09/19/07 13:00	0.584	0.066	0.088	0.043
DOE 4.5.2.3	BI-214	OH207-7842-05	09/19/07 13:00	0.369	0.061	0.071	0.041
DOE 4.5.2.3	PB-214	OH207-7842-05	09/19/07 13:00	0.365	0.059	0.069	0.043
DOE 4.5.2.3	RA-223	OH207-7842-05	09/19/07 13:00	0.184	0.098	0.100	0.102
DOE 4.5.2.3	AC-228	OH207-7842-05	09/19/07 13:00	0.698	0.110	0.130	0.075
DOE 4.5.2.3	PA-233	OH207-7842-05	09/19/07 13:00	0.004	0.021	0.021	0.037
DOE 4.5.2.3	PA-234M	OH207-7842-05	09/19/07 13:00	0.472	1.32	1.32	2.42
DOE 4.5.2.3	TH-234	OH207-7842-05	09/19/07 13:00	0.678	0.268	0.277	0.449
DOE 4.5.2.3	U-235	OH207-7842-05	09/19/07 13:00	0.024	0.078	0.078	0.131
DOE 4.5.2.3	NP-236	OH207-7842-05	09/19/07 13:00	-1.3e-04	0.029	0.029	0.045
DOE 4.5.2.3	NP-237	OH207-7842-05	09/19/07 13:00	0.374	0.145	0.149	0.161
DOE 4.5.2.3	NP-239	OH207-7842-05	09/19/07 13:00	3.9e-04	0.083	0.083	0.135
DOE 4.5.2.3	AM-241	OH207-7842-05	09/19/07 13:00	-0.034	0.072	0.072	0.123
DOE 4.5.2.3	AM-243	OH207-7842-05	09/19/07 13:00	0.139	0.042	0.045	0.041
DOE 4.5.2.3	CM-243/244	OH207-7842-05	09/19/07 13:00	-0.017	0.040	0.040	0.067
DOE 4.5.2.3	AM-246	OH207-7842-05	09/19/07 13:00	0.012	0.038	0.038	0.069
DOE 4.5.2.3	CF-249	OH207-7842-05	09/19/07 13:00	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-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2005-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-06	09/19/07 14:41	3.10	0.423	0.524	0.176
DOE 4.5.2.3	CO-60	OH207-7842-06	09/19/07 14:41	0.001	0.013	0.013	0.020
DOE 4.5.2.3	RH-101	OH207-7842-06	09/19/07 14:41	0.011	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7842-06	09/19/07 14:41	0.023	0.035	0.035	0.062
DOE 4.5.2.3	CS-137	OH207-7842-06	09/19/07 14:41	0.230	0.046	0.051	0.026
DOE 4.5.2.3	EU-155	OH207-7842-06	09/19/07 14:41	0.027	0.049	0.049	0.083
DOE 4.5.2.3	TL-208	OH207-7842-06	09/19/07 14:41	0.139	0.031	0.034	0.022
DOE 4.5.2.3	PO-209	OH207-7842-06	09/19/07 14:41	1.52	2.15	2.16	4.16
DOE 4.5.2.3	BI-211	OH207-7842-06	09/19/07 14:41	0.287	0.394	0.395	0.668
DOE 4.5.2.3	BI-212	OH207-7842-06	09/19/07 14:41	0.271	0.235	0.237	0.161
DOE 4.5.2.3	PB-212	OH207-7842-06	09/19/07 14:41	0.455	0.053	0.070	0.038
DOE 4.5.2.3	BI-214	OH207-7842-06	09/19/07 14:41	0.249	0.057	0.062	0.046
DOE 4.5.2.3	PB-214	OH207-7842-06	09/19/07 14:41	0.276	0.051	0.058	0.045
DOE 4.5.2.3	RA-223	OH207-7842-06	09/19/07 14:41	0.142	0.100	0.101	0.112
DOE 4.5.2.3	AC-228	OH207-7842-06	09/19/07 14:41	0.508	0.112	0.123	0.086
DOE 4.5.2.3	PA-233	OH207-7842-06	09/19/07 14:41	0.023	0.026	0.026	0.047
DOE 4.5.2.3	PA-234M	OH207-7842-06	09/19/07 14:41	0.374	1.64	1.64	2.96
DOE 4.5.2.3	TH-234	OH207-7842-06	09/19/07 14:41	0.519	0.282	0.286	0.488
DOE 4.5.2.3	U-235	OH207-7842-06	09/19/07 14:41	0.009	0.088	0.088	0.144
DOE 4.5.2.3	NP-236	OH207-7842-06	09/19/07 14:41	-0.003	0.030	0.030	0.047
DOE 4.5.2.3	NP-237	OH207-7842-06	09/19/07 14:41	0.274	0.142	0.145	0.189
DOE 4.5.2.3	NP-239	OH207-7842-06	09/19/07 14:41	0.012	0.085	0.085	0.149
DOE 4.5.2.3	AM-241	OH207-7842-06	09/19/07 14:41	-0.032	0.073	0.073	0.123
DOE 4.5.2.3	AM-243	OH207-7842-06	09/19/07 14:41	0.091	0.032	0.034	0.041
DOE 4.5.2.3	CM-243/244	OH207-7842-06	09/19/07 14:41	-0.002	0.044	0.044	0.075
DOE 4.5.2.3	AM-246	OH207-7842-06	09/19/07 14:41	-0.002	0.047	0.047	0.082
DOE 4.5.2.3	CF-249	OH207-7842-06	09/19/07 14:41	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-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2006-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-07	09/19/07 14:42	3.41	0.482	0.590	0.270
DOE 4.5.2.3	CO-60	OH207-7842-07	09/19/07 14:42	-0.019	0.018	0.019	0.028
DOE 4.5.2.3	RH-101	OH207-7842-07	09/19/07 14:42	0.009	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7842-07	09/19/07 14:42	-0.013	0.048	0.048	0.083
DOE 4.5.2.3	CS-137	OH207-7842-07	09/19/07 14:42	0.356	0.052	0.063	0.032
DOE 4.5.2.3	EU-155	OH207-7842-07	09/19/07 14:42	0.008	0.049	0.049	0.086
DOE 4.5.2.3	TL-208	OH207-7842-07	09/19/07 14:42	0.219	0.038	0.044	0.029
DOE 4.5.2.3	PO-209	OH207-7842-07	09/19/07 14:42	1.61	3.10	3.10	5.83
DOE 4.5.2.3	BI-211	OH207-7842-07	09/19/07 14:42	-0.418	0.490	0.492	0.781
DOE 4.5.2.3	BI-212	OH207-7842-07	09/19/07 14:42	0.352	0.228	0.230	0.229
DOE 4.5.2.3	PB-212	OH207-7842-07	09/19/07 14:42	0.612	0.069	0.092	0.046
DOE 4.5.2.3	BI-214	OH207-7842-07	09/19/07 14:42	0.362	0.075	0.083	0.057
DOE 4.5.2.3	PB-214	OH207-7842-07	09/19/07 14:42	0.336	0.074	0.082	0.057
DOE 4.5.2.3	RA-223	OH207-7842-07	09/19/07 14:42	0.240	0.138	0.140	0.153
DOE 4.5.2.3	AC-228	OH207-7842-07	09/19/07 14:42	0.576	0.120	0.134	0.107
DOE 4.5.2.3	PA-233	OH207-7842-07	09/19/07 14:42	-0.015	0.031	0.032	0.052
DOE 4.5.2.3	PA-234M	OH207-7842-07	09/19/07 14:42	2.39	2.02	2.04	4.04
DOE 4.5.2.3	TH-234	OH207-7842-07	09/19/07 14:42	0.730	0.359	0.366	0.479
DOE 4.5.2.3	U-235	OH207-7842-07	09/19/07 14:42	-0.019	0.102	0.102	0.172
DOE 4.5.2.3	NP-236	OH207-7842-07	09/19/07 14:42	0.005	0.032	0.032	0.046
DOE 4.5.2.3	NP-237	OH207-7842-07	09/19/07 14:42	0.230	0.125	0.127	0.149
DOE 4.5.2.3	NP-239	OH207-7842-07	09/19/07 14:42	-0.082	0.111	0.111	0.181
DOE 4.5.2.3	AM-241	OH207-7842-07	09/19/07 14:42	-0.131	0.036	0.038	0.051
DOE 4.5.2.3	AM-243	OH207-7842-07	09/19/07 14:42	0.102	0.032	0.034	0.029
DOE 4.5.2.3	CM-243/244	OH207-7842-07	09/19/07 14:42	-0.008	0.044	0.044	0.076
DOE 4.5.2.3	AM-246	OH207-7842-07	09/19/07 14:42	-0.021	0.059	0.059	0.102
DOE 4.5.2.3	CF-249	OH207-7842-07	09/19/07 14:42	0.009	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2007-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-08	09/19/07 17:47	5.14	0.548	0.752	0.162
DOE 4.5.2.3	CO-60	OH207-7842-08	09/19/07 17:47	-0.003	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7842-08	09/19/07 17:47	-9.5e-06	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7842-08	09/19/07 17:47	-0.008	0.036	0.036	0.060
DOE 4.5.2.3	CS-137	OH207-7842-08	09/19/07 17:47	0.260	0.045	0.052	0.026
DOE 4.5.2.3	EU-155	OH207-7842-08	09/19/07 17:47	0.029	0.049	0.049	0.083
DOE 4.5.2.3	TL-208	OH207-7842-08	09/19/07 17:47	0.199	0.038	0.043	0.022
DOE 4.5.2.3	PO-209	OH207-7842-08	09/19/07 17:47	0.494	2.60	2.60	4.64
DOE 4.5.2.3	BI-211	OH207-7842-08	09/19/07 17:47	-0.289	0.404	0.405	0.667
DOE 4.5.2.3	BI-212	OH207-7842-08	09/19/07 17:47	0.366	0.171	0.175	0.173
DOE 4.5.2.3	PB-212	OH207-7842-08	09/19/07 17:47	0.602	0.062	0.086	0.038
DOE 4.5.2.3	BI-214	OH207-7842-08	09/19/07 17:47	0.395	0.072	0.082	0.044
DOE 4.5.2.3	PB-214	OH207-7842-08	09/19/07 17:47	0.404	0.065	0.076	0.043
DOE 4.5.2.3	RA-223	OH207-7842-08	09/19/07 17:47	0.169	0.111	0.112	0.117
DOE 4.5.2.3	AC-228	OH207-7842-08	09/19/07 17:47	0.737	0.135	0.154	0.088
DOE 4.5.2.3	PA-233	OH207-7842-08	09/19/07 17:47	-0.005	0.025	0.025	0.042
DOE 4.5.2.3	PA-234M	OH207-7842-08	09/19/07 17:47	1.26	1.61	1.62	3.01
DOE 4.5.2.3	TH-234	OH207-7842-08	09/19/07 17:47	1.05	0.365	0.380	0.478
DOE 4.5.2.3	U-235	OH207-7842-08	09/19/07 17:47	0.056	0.087	0.087	0.145
DOE 4.5.2.3	NP-236	OH207-7842-08	09/19/07 17:47	-0.001	0.030	0.030	0.047
DOE 4.5.2.3	NP-237	OH207-7842-08	09/19/07 17:47	0.218	0.146	0.147	0.191
DOE 4.5.2.3	NP-239	OH207-7842-08	09/19/07 17:47	0.052	0.087	0.087	0.154
DOE 4.5.2.3	AM-241	OH207-7842-08	09/19/07 17:47	-0.047	0.071	0.071	0.119
DOE 4.5.2.3	AM-243	OH207-7842-08	09/19/07 17:47	0.138	0.044	0.046	0.041
DOE 4.5.2.3	CM-243/244	OH207-7842-08	09/19/07 17:47	0.026	0.044	0.044	0.075
DOE 4.5.2.3	AM-246	OH207-7842-08	09/19/07 17:47	0.037	0.048	0.048	0.089
DOE 4.5.2.3	CF-249	OH207-7842-08	09/19/07 17:47	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-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2008-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-09	09/19/07 17:49	4.22	0.571	0.710	0.262
DOE 4.5.2.3	CO-60	OH207-7842-09	09/19/07 17:49	0.004	0.019	0.019	0.030
DOE 4.5.2.3	RH-101	OH207-7842-09	09/19/07 17:49	0.018	0.017	0.017	0.030
DOE 4.5.2.3	SB-125	OH207-7842-09	09/19/07 17:49	-0.009	0.044	0.044	0.076
DOE 4.5.2.3	CS-137	OH207-7842-09	09/19/07 17:49	0.286	0.042	0.051	0.031
DOE 4.5.2.3	EU-155	OH207-7842-09	09/19/07 17:49	0.027	0.047	0.047	0.082
DOE 4.5.2.3	TL-208	OH207-7842-09	09/19/07 17:49	0.230	0.040	0.046	0.026
DOE 4.5.2.3	PO-209	OH207-7842-09	09/19/07 17:49	1.41	3.07	3.08	5.73
DOE 4.5.2.3	BI-211	OH207-7842-09	09/19/07 17:49	-0.219	0.527	0.528	0.875
DOE 4.5.2.3	BI-212	OH207-7842-09	09/19/07 17:49	0.390	0.218	0.222	0.206
DOE 4.5.2.3	PB-212	OH207-7842-09	09/19/07 17:49	0.540	0.064	0.084	0.048
DOE 4.5.2.3	BI-214	OH207-7842-09	09/19/07 17:49	0.337	0.071	0.079	0.058
DOE 4.5.2.3	PB-214	OH207-7842-09	09/19/07 17:49	0.382	0.069	0.079	0.056
DOE 4.5.2.3	RA-223	OH207-7842-09	09/19/07 17:49	0.228	0.138	0.140	0.140
DOE 4.5.2.3	AC-228	OH207-7842-09	09/19/07 17:49	0.722	0.152	0.169	0.083
DOE 4.5.2.3	PA-233	OH207-7842-09	09/19/07 17:49	-0.004	0.030	0.030	0.051
DOE 4.5.2.3	PA-234M	OH207-7842-09	09/19/07 17:49	-1.26	1.97	1.97	3.41
DOE 4.5.2.3	TH-234	OH207-7842-09	09/19/07 17:49	0.812	0.310	0.320	0.339
DOE 4.5.2.3	U-235	OH207-7842-09	09/19/07 17:49	0.020	0.099	0.099	0.170
DOE 4.5.2.3	NP-236	OH207-7842-09	09/19/07 17:49	0.040	0.031	0.031	0.046
DOE 4.5.2.3	NP-237	OH207-7842-09	09/19/07 17:49	0.215	0.086	0.089	0.163
DOE 4.5.2.3	NP-239	OH207-7842-09	09/19/07 17:49	0.009	0.106	0.106	0.180
DOE 4.5.2.3	AM-241	OH207-7842-09	09/19/07 17:49	0.002	0.034	0.034	0.050
DOE 4.5.2.3	AM-243	OH207-7842-09	09/19/07 17:49	0.101	0.032	0.033	0.026
DOE 4.5.2.3	CM-243/244	OH207-7842-09	09/19/07 17:49	-0.011	0.043	0.043	0.073
DOE 4.5.2.3	AM-246	OH207-7842-09	09/19/07 17:49	0.015	0.055	0.056	0.102
DOE 4.5.2.3	CF-249	OH207-7842-09	09/19/07 17:49	0.012	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2009-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-10	09/19/07 21:27	4.53	0.528	0.695	0.209
DOE 4.5.2.3	CO-60	OH207-7842-10	09/19/07 21:27	0.003	0.014	0.014	0.025
DOE 4.5.2.3	RH-101	OH207-7842-10	09/19/07 21:27	-0.018	0.016	0.016	0.024
DOE 4.5.2.3	SB-125	OH207-7842-10	09/19/07 21:27	-0.023	0.039	0.039	0.065
DOE 4.5.2.3	CS-137	OH207-7842-10	09/19/07 21:27	0.332	0.052	0.062	0.028
DOE 4.5.2.3	EU-155	OH207-7842-10	09/19/07 21:27	0.053	0.052	0.052	0.090
DOE 4.5.2.3	TL-208	OH207-7842-10	09/19/07 21:27	0.216	0.040	0.046	0.025
DOE 4.5.2.3	PO-209	OH207-7842-10	09/19/07 21:27	-0.342	2.58	2.58	4.52
DOE 4.5.2.3	BI-211	OH207-7842-10	09/19/07 21:27	-0.117	0.426	0.426	0.732
DOE 4.5.2.3	BI-212	OH207-7842-10	09/19/07 21:27	0.412	0.208	0.212	0.176
DOE 4.5.2.3	PB-212	OH207-7842-10	09/19/07 21:27	0.509	0.063	0.081	0.050
DOE 4.5.2.3	BI-214	OH207-7842-10	09/19/07 21:27	0.421	0.078	0.089	0.047
DOE 4.5.2.3	PB-214	OH207-7842-10	09/19/07 21:27	0.418	0.071	0.082	0.050
DOE 4.5.2.3	RA-223	OH207-7842-10	09/19/07 21:27	0.082	0.076	0.076	0.137
DOE 4.5.2.3	AC-228	OH207-7842-10	09/19/07 21:27	0.702	0.132	0.150	0.088
DOE 4.5.2.3	PA-233	OH207-7842-10	09/19/07 21:27	0.004	0.026	0.026	0.044
DOE 4.5.2.3	PA-234M	OH207-7842-10	09/19/07 21:27	0.500	1.61	1.61	2.94
DOE 4.5.2.3	TH-234	OH207-7842-10	09/19/07 21:27	0.773	0.362	0.370	0.506
DOE 4.5.2.3	U-235	OH207-7842-10	09/19/07 21:27	0.098	0.092	0.092	0.156
DOE 4.5.2.3	NP-236	OH207-7842-10	09/19/07 21:27	0.016	0.031	0.031	0.053
DOE 4.5.2.3	NP-237	OH207-7842-10	09/19/07 21:27	0.312	0.159	0.162	0.207
DOE 4.5.2.3	NP-239	OH207-7842-10	09/19/07 21:27	-0.020	0.094	0.094	0.162
DOE 4.5.2.3	AM-241	OH207-7842-10	09/19/07 21:27	-0.008	0.079	0.079	0.136
DOE 4.5.2.3	AM-243	OH207-7842-10	09/19/07 21:27	0.143	0.047	0.049	0.044
DOE 4.5.2.3	CM-243/244	OH207-7842-10	09/19/07 21:27	0.033	0.047	0.047	0.081
DOE 4.5.2.3	AM-246	OH207-7842-10	09/19/07 21:27	0.009	0.050	0.050	0.089
DOE 4.5.2.3	CF-249	OH207-7842-10	09/19/07 21:27	0.008	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2010-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-11	09/19/07 21:30	4.73	0.528	0.709	0.182
DOE 4.5.2.3	CO-60	OH207-7842-11	09/19/07 21:30	-0.007	0.018	0.018	0.023
DOE 4.5.2.3	RH-101	OH207-7842-11	09/19/07 21:30	0.002	0.015	0.015	0.026
DOE 4.5.2.3	SB-125	OH207-7842-11	09/19/07 21:30	0.003	0.039	0.039	0.068
DOE 4.5.2.3	CS-137	OH207-7842-11	09/19/07 21:30	0.182	0.034	0.038	0.030
DOE 4.5.2.3	EU-155	OH207-7842-11	09/19/07 21:30	0.042	0.044	0.044	0.077
DOE 4.5.2.3	TL-208	OH207-7842-11	09/19/07 21:30	0.210	0.033	0.039	0.025
DOE 4.5.2.3	PO-209	OH207-7842-11	09/19/07 21:30	-3.54	3.12	3.14	4.95
DOE 4.5.2.3	BI-211	OH207-7842-11	09/19/07 21:30	0.213	0.471	0.472	0.835
DOE 4.5.2.3	BI-212	OH207-7842-11	09/19/07 21:30	0.437	0.150	0.156	0.292
DOE 4.5.2.3	PB-212	OH207-7842-11	09/19/07 21:30	0.619	0.065	0.090	0.041
DOE 4.5.2.3	BI-214	OH207-7842-11	09/19/07 21:30	0.390	0.063	0.074	0.044
DOE 4.5.2.3	PB-214	OH207-7842-11	09/19/07 21:30	0.459	0.069	0.083	0.050
DOE 4.5.2.3	RA-223	OH207-7842-11	09/19/07 21:30	0.205	0.118	0.120	0.126
DOE 4.5.2.3	AC-228	OH207-7842-11	09/19/07 21:30	0.604	0.131	0.145	0.088
DOE 4.5.2.3	PA-233	OH207-7842-11	09/19/07 21:30	-0.008	0.028	0.028	0.047
DOE 4.5.2.3	PA-234M	OH207-7842-11	09/19/07 21:30	0.258	1.77	1.77	3.27
DOE 4.5.2.3	TH-234	OH207-7842-11	09/19/07 21:30	0.818	0.310	0.321	0.418
DOE 4.5.2.3	U-235	OH207-7842-11	09/19/07 21:30	0.033	0.094	0.094	0.161
DOE 4.5.2.3	NP-236	OH207-7842-11	09/19/07 21:30	0.006	0.028	0.028	0.041
DOE 4.5.2.3	NP-237	OH207-7842-11	09/19/07 21:30	0.409	0.122	0.129	0.130
DOE 4.5.2.3	NP-239	OH207-7842-11	09/19/07 21:30	-0.007	0.104	0.105	0.176
DOE 4.5.2.3	AM-241	OH207-7842-11	09/19/07 21:30	-0.064	0.031	0.031	0.047
DOE 4.5.2.3	AM-243	OH207-7842-11	09/19/07 21:30	0.110	0.035	0.037	0.026
DOE 4.5.2.3	CM-243/244	OH207-7842-11	09/19/07 21:30	0.002	0.040	0.040	0.068
DOE 4.5.2.3	AM-246	OH207-7842-11	09/19/07 21:30	0.040	0.051	0.051	0.097
DOE 4.5.2.3	CF-249	OH207-7842-11	09/19/07 21:30	-9.8e-04	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

. Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2011-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-12	09/20/07 09:45	4.57	0.529	0.699	0.227
DOE 4.5.2.3	CO-60	OH207-7842-12	09/20/07 09:45	-0.004	0.015	0.015	0.025
DOE 4.5.2.3	RH-101	OH207-7842-12	09/20/07 09:45	-0.024	0.016	0.016	0.024
DOE 4.5.2.3	SB-125	OH207-7842-12	09/20/07 09:45	-0.003	0.038	0.038	0.066
DOE 4.5.2.3	CS-137	OH207-7842-12	09/20/07 09:45	0.370	0.055	0.066	0.027
DOE 4.5.2.3	EU-155	OH207-7842-12	09/20/07 09:45	0.059	0.053	0.054	0.094
DOE 4.5.2.3	TL-208	OH207-7842-12	09/20/07 09:45	0.237	0.044	0.050	0.025
DOE 4.5.2.3	PO-209	OH207-7842-12	09/20/07 09:45	-0.984	2.74	2.74	4.70
DOE 4.5.2.3	BI-211	OH207-7842-12	09/20/07 09:45	-0.158	0.406	0.406	0.697
DOE 4.5.2.3	BI-212	OH207-7842-12	09/20/07 09:45	0.507	0.172	0.179	0.183
DOE 4.5.2.3	PB-212	OH207-7842-12	09/20/07 09:45	0.624	0.065	0.090	0.039
DOE 4.5.2.3	BI-214	OH207-7842-12	09/20/07 09:45	0.403	0.079	0.089	0.043
DOE 4.5.2.3	PB-214	OH207-7842-12	09/20/07 09:45	0.451	0.067	0.081	0.047
DOE 4.5.2.3	RA-223	OH207-7842-12	09/20/07 09:45	0.183	0.138	0.139	0.125
DOE 4.5.2.3	AC-228	OH207-7842-12	09/20/07 09:45	0.672	0.120	0.137	0.080
DOE 4.5.2.3	PA-233	OH207-7842-12	09/20/07 09:45	0.004	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7842-12	09/20/07 09:45	0.204	1.62	1.63	2.93
DOE 4.5.2.3	TH-234	OH207-7842-12	09/20/07 09:45	0.763	0.420	0.427	0.532
DOE 4.5.2.3	U-235	OH207-7842-12	09/20/07 09:45	-0.002	0.095	0.095	0.159
DOE 4.5.2.3	NP-236	OH207-7842-12	09/20/07 09:45	0.007	0.032	0.032	0.053
DOE 4.5.2.3	NP-237	OH207-7842-12	09/20/07 09:45	0.310	0.152	0.156	0.214
DOE 4.5.2.3	NP-239	OH207-7842-12	09/20/07 09:45	0.077	0.095	0.095	0.161
DOE 4.5.2.3	AM-241	OH207-7842-12	09/20/07 09:45	0.032	0.086	0.086	0.152
DOE 4.5.2.3	AM-243	OH207-7842-12	09/20/07 09:45	0.140	0.050	0.052	0.047
DOE 4.5.2.3	CM-243/244	OH207-7842-12	09/20/07 09:45	-0.013	0.048	0.048	0.080
DOE 4.5.2.3	AM-246	OH207-7842-12	09/20/07 09:45	-0.011	0.048	0.048	0.082
DOE 4.5.2.3	CF-249	OH207-7842-12	09/20/07 09:45	-0.008	0.017	0.017	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2012-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-13	09/20/07 10:14	4.02	0.573	0.700	0.212
DOE 4.5.2.3	CO-60	OH207-7842-13	09/20/07 10:14	-0.003	0.017	0.017	0.029
DOE 4.5.2.3	RH-101	OH207-7842-13	09/20/07 10:14	-0.012	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7842-13	09/20/07 10:14	-0.019	0.044	0.044	0.075
DOE 4.5.2.3	CS-137	OH207-7842-13	09/20/07 10:14	0.274	0.047	0.055	0.027
DOE 4.5.2.3	EU-155	OH207-7842-13	09/20/07 10:14	0.030	0.045	0.045	0.080
DOE 4.5.2.3	TL-208	OH207-7842-13	09/20/07 10:14	0.174	0.035	0.039	0.027
DOE 4.5.2.3	PO-209	OH207-7842-13	09/20/07 10:14	1.04	3.24	3.25	5.95
DOE 4.5.2.3	BI-211	OH207-7842-13	09/20/07 10:14	-0.135	0.501	0.502	0.843
DOE 4.5.2.3	BI-212	OH207-7842-13	09/20/07 10:14	0.354	0.179	0.183	0.178
DOE 4.5.2.3	PB-212	OH207-7842-13	09/20/07 10:14	0.554	0.062	0.083	0.045
DOE 4.5.2.3	BI-214	OH207-7842-13	09/20/07 10:14	0.246	0.063	0.067	0.054
DOE 4.5.2.3	PB-214	OH207-7842-13	09/20/07 10:14	0.424	0.072	0.084	0.050
DOE 4.5.2.3	RA-223	OH207-7842-13	09/20/07 10:14	0.284	0.133	0.136	0.126
DOE 4.5.2.3	AC-228	OH207-7842-13	09/20/07 10:14	0.506	0.150	0.158	0.102
DOE 4.5.2.3	PA-233	OH207-7842-13	09/20/07 10:14	-0.028	0.029	0.029	0.047
DOE 4.5.2.3	PA-234M	OH207-7842-13	09/20/07 10:14	-0.176	1.90	1.90	3.44
DOE 4.5.2.3	TH-234	OH207-7842-13	09/20/07 10:14	0.543	0.385	0.389	0.328
DOE 4.5.2.3	U-235	OH207-7842-13	09/20/07 10:14	0.009	0.094	0.094	0.161
DOE 4.5.2.3	NP-236	OH207-7842-13	09/20/07 10:14	0.016	0.028	0.028	0.041
DOE 4.5.2.3	NP-237	OH207-7842-13	09/20/07 10:14	0.068	0.102	0.102	0.169
DOE 4.5.2.3	NP-239	OH207-7842-13	09/20/07 10:14	-0.046	0.104	0.104	0.173
DOE 4.5.2.3	AM-241	OH207-7842-13	09/20/07 10:14	0.028	0.031	0.031	0.047
DOE 4.5.2.3	AM-243	OH207-7842-13	09/20/07 10:14	0.103	0.032	0.033	0.027
DOE 4.5.2.3	CM-243/244	OH207-7842-13	09/20/07 10:14	-0.023	0.041	0.041	0.070
DOE 4.5.2.3	AM-246	OH207-7842-13	09/20/07 10:14	-0.039	0.052	0.052	0.086
DOE 4.5.2.3	CF-249	OH207-7842-13	09/20/07 10:14	0.001	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2013-ST
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7842 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	OH207-7842-14	09/20/07 13:18	6.17	0.624	0.877	0.239
DOE 4.5.2.3	CO-60	OH207-7842-14	09/20/07 13:18	-0.001	0.016	0.016	0.024
DOE 4.5.2.3	RH-101	OH207-7842-14	09/20/07 13:18	-0.022	0.016	0.016	0.025
DOE 4.5.2.3	SB-125	OH207-7842-14	09/20/07 13:18	-0.009	0.040	0.040	0.069
DOE 4.5.2.3	CS-137	OH207-7842-14	09/20/07 13:18	0.064	0.032	0.033	0.027
DOE 4.5.2.3	EU-155	OH207-7842-14	09/20/07 13:18	0.009	0.044	0.044	0.076
DOE 4.5.2.3	TL-208	OH207-7842-14	09/20/07 13:18	0.240	0.039	0.046	0.027
DOE 4.5.2.3	PO-209	OH207-7842-14	09/20/07 13:18	-0.695	2.96	2.96	5.18
DOE 4.5.2.3	BI-211	OH207-7842-14	09/20/07 13:18	0.112	0.460	0.461	0.800
DOE 4.5.2.3	BI-212	OH207-7842-14	09/20/07 13:18	0.661	0.229	0.239	0.181
DOE 4.5.2.3	PB-212	OH207-7842-14	09/20/07 13:18	0.765	0.075	0.107	0.043
DOE 4.5.2.3	BI-214	OH207-7842-14	09/20/07 13:18	0.422	0.073	0.084	0.050
DOE 4.5.2.3	PB-214	OH207-7842-14	09/20/07 13:18	0.522	0.074	0.091	0.047
DOE 4.5.2.3	RA-223	OH207-7842-14	09/20/07 13:18	0.181	0.114	0.116	0.134
DOE 4.5.2.3	AC-228	OH207-7842-14	09/20/07 13:18	0.777	0.142	0.162	0.087
DOE 4.5.2.3	PA-233	OH207-7842-14	09/20/07 13:18	-0.003	0.029	0.029	0.049
DOE 4.5.2.3	PA-234M	OH207-7842-14	09/20/07 13:18	0.803	1.74	1.74	3.26
DOE 4.5.2.3	TH-234	OH207-7842-14	09/20/07 13:18	0.715	0.345	0.353	0.327
DOE 4.5.2.3	U-235	OH207-7842-14	09/20/07 13:18	0.033	0.093	0.093	0.159
DOE 4.5.2.3	NP-236	OH207-7842-14	09/20/07 13:18	0.036	0.029	0.029	0.043
DOE 4.5.2.3	NP-237	OH207-7842-14	09/20/07 13:18	0.230	0.088	0.091	0.154
DOE 4.5.2.3	NP-239	OH207-7842-14	09/20/07 13:18	-0.034	0.101	0.101	0.168
DOE 4.5.2.3	AM-241	OH207-7842-14	09/20/07 13:18	0.019	0.030	0.030	0.045
DOE 4.5.2.3	AM-243	OH207-7842-14	09/20/07 13:18	0.123	0.036	0.038	0.025
DOE 4.5.2.3	CM-243/244	OH207-7842-14	09/20/07 13:18	-0.002	0.040	0.040	0.069
DOE 4.5.2.3	AM-246	OH207-7842-14	09/20/07 13:18	0.011	0.051	0.051	0.092
DOE 4.5.2.3	CF-249	OH207-7842-14	09/20/07 13:18	0.008	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2014-ST				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-15	09/20/07 13:25	5.15	0.536	0.743	0.169
DOE 4.5.2.3	CO-60	OH207-7842-15	09/20/07 13:25	0.003	0.014	0.014	0.020
DOE 4.5.2.3	RH-101	OH207-7842-15	09/20/07 13:25	-8.2e-04	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7842-15	09/20/07 13:25	-0.001	0.037	0.037	0.062
DOE 4.5.2.3	CS-137	OH207-7842-15	09/20/07 13:25	0.242	0.041	0.048	0.024
DOE 4.5.2.3	EU-155	OH207-7842-15	09/20/07 13:25	-5.8e-05	0.047	0.047	0.080
DOE 4.5.2.3	TL-208	OH207-7842-15	09/20/07 13:25	0.201	0.034	0.040	0.022
DOE 4.5.2.3	PO-209	OH207-7842-15	09/20/07 13:25	-0.042	2.47	2.47	4.34
DOE 4.5.2.3	BI-211	OH207-7842-15	09/20/07 13:25	-0.214	0.364	0.365	0.608
DOE 4.5.2.3	BI-212	OH207-7842-15	09/20/07 13:25	0.480	0.197	0.202	0.155
DOE 4.5.2.3	PB-212	OH207-7842-15	09/20/07 13:25	0.622	0.063	0.089	0.036
DOE 4.5.2.3	BI-214	OH207-7842-15	09/20/07 13:25	0.387	0.071	0.081	0.046
DOE 4.5.2.3	PB-214	OH207-7842-15	09/20/07 13:25	0.435	0.067	0.080	0.045
DOE 4.5.2.3	RA-223	OH207-7842-15	09/20/07 13:25	0.207	0.108	0.110	0.112
DOE 4.5.2.3	AC-228	OH207-7842-15	09/20/07 13:25	0.709	0.123	0.142	0.079
DOE 4.5.2.3	PA-233	OH207-7842-15	09/20/07 13:25	0.018	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7842-15	09/20/07 13:25	-0.216	1.39	1.39	2.43
DOE 4.5.2.3	TH-234	OH207-7842-15	09/20/07 13:25	0.972	0.373	0.385	0.480
DOE 4.5.2.3	U-235	OH207-7842-15	09/20/07 13:25	-0.023	0.087	0.087	0.141
DOE 4.5.2.3	NP-236	OH207-7842-15	09/20/07 13:25	0.032	0.029	0.029	0.047
DOE 4.5.2.3	NP-237	OH207-7842-15	09/20/07 13:25	0.304	0.147	0.150	0.194
DOE 4.5.2.3	NP-239	OH207-7842-15	09/20/07 13:25	0.020	0.080	0.080	0.140
DOE 4.5.2.3	AM-241	OH207-7842-15	09/20/07 13:25	-0.019	0.071	0.071	0.121
DOE 4.5.2.3	AM-243	OH207-7842-15	09/20/07 13:25	0.141	0.044	0.047	0.041
DOE 4.5.2.3	CM-243/244	OH207-7842-15	09/20/07 13:25	0.025	0.043	0.043	0.073
DOE 4.5.2.3	AM-246	OH207-7842-15	09/20/07 13:25	0.033	0.048	0.048	0.088
DOE 4.5.2.3	CF-249	OH207-7842-15	09/20/07 13:25	0.016	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2015-ST				
Other Sample ID:		Collection Date:	8/20/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-16	09/20/07 13:56	2.61	0.403	0.480	0.173
DOE 4.5.2.3	CO-60	OH207-7842-16	09/20/07 13:56	0.008	0.014	0.014	0.020
DOE 4.5.2.3	RH-101	OH207-7842-16	09/20/07 13:56	-0.009	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7842-16	09/20/07 13:56	-6.8e-04	0.037	0.037	0.064
DOE 4.5.2.3	CS-137	OH207-7842-16	09/20/07 13:56	0.285	0.047	0.055	0.028
DOE 4.5.2.3	EU-155	OH207-7842-16	09/20/07 13:56	0.022	0.050	0.050	0.087
DOE 4.5.2.3	TL-208	OH207-7842-16	09/20/07 13:56	0.188	0.038	0.042	0.024
DOE 4.5.2.3	PO-209	OH207-7842-16	09/20/07 13:56	2.28	2.68	2.69	5.13
DOE 4.5.2.3	BI-211	OH207-7842-16	09/20/07 13:56	0.168	0.367	0.367	0.687
DOE 4.5.2.3	BI-212	OH207-7842-16	09/20/07 13:56	0.349	0.203	0.206	0.195
DOE 4.5.2.3	PB-212	OH207-7842-16	09/20/07 13:56	0.480	0.064	0.080	0.054
DOE 4.5.2.3	BI-214	OH207-7842-16	09/20/07 13:56	0.253	0.065	0.069	0.048
DOE 4.5.2.3	PB-214	OH207-7842-16	09/20/07 13:56	0.270	0.061	0.067	0.050
DOE 4.5.2.3	RA-223	OH207-7842-16	09/20/07 13:56	0.278	0.130	0.133	0.120
DOE 4.5.2.3	AC-228	OH207-7842-16	09/20/07 13:56	0.630	0.116	0.132	0.085
DOE 4.5.2.3	PA-233	OH207-7842-16	09/20/07 13:56	-0.004	0.024	0.024	0.043
DOE 4.5.2.3	PA-234M	OH207-7842-16	09/20/07 13:56	0.828	1.55	1.55	2.95
DOE 4.5.2.3	TH-234	OH207-7842-16	09/20/07 13:56	0.912	0.424	0.434	0.528
DOE 4.5.2.3	U-235	OH207-7842-16	09/20/07 13:56	-0.015	0.088	0.088	0.146
DOE 4.5.2.3	NP-236	OH207-7842-16	09/20/07 13:56	-0.025	0.031	0.031	0.050
DOE 4.5.2.3	NP-237	OH207-7842-16	09/20/07 13:56	0.370	0.137	0.142	0.213
DOE 4.5.2.3	NP-239	OH207-7842-16	09/20/07 13:56	-0.050	0.093	0.093	0.148
DOE 4.5.2.3	AM-241	OH207-7842-16	09/20/07 13:56	0.021	0.085	0.085	0.151
DOE 4.5.2.3	AM-243	OH207-7842-16	09/20/07 13:56	0.120	0.043	0.045	0.048
DOE 4.5.2.3	CM-243/244	OH207-7842-16	09/20/07 13:56	-0.019	0.046	0.046	0.077
DOE 4.5.2.3	AM-246	OH207-7842-16	09/20/07 13:56	0.012	0.040	0.040	0.075
DOE 4.5.2.3	CF-249	OH207-7842-16	09/20/07 13:56	0.002	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2016-ST
Other Sample ID: Collection Date: 8/20/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7842 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	OH207-7842-17	09/20/07 17:00	2.56	0.386	0.463	0.189
DOE 4.5.2.3	CO-60	OH207-7842-17	09/20/07 17:00	-0.002	0.013	0.013	0.021
DOE 4.5.2.3	RH-101	OH207-7842-17	09/20/07 17:00	0.002	0.014	0.014	0.024
DOE 4.5.2.3	SB-125	OH207-7842-17	09/20/07 17:00	0.003	0.037	0.037	0.065
DOE 4.5.2.3	CS-137	OH207-7842-17	09/20/07 17:00	0.330	0.051	0.061	0.029
DOE 4.5.2.3	EU-155	OH207-7842-17	09/20/07 17:00	0.048	0.051	0.051	0.090
DOE 4.5.2.3	TL-208	OH207-7842-17	09/20/07 17:00	0.156	0.034	0.037	0.024
DOE 4.5.2.3	PO-209	OH207-7842-17	09/20/07 17:00	-0.711	2.40	2.41	4.19
DOE 4.5.2.3	BI-211	OH207-7842-17	09/20/07 17:00	-0.261	0.397	0.398	0.666
DOE 4.5.2.3	BI-212	OH207-7842-17	09/20/07 17:00	0.374	0.162	0.166	0.176
DOE 4.5.2.3	PB-212	OH207-7842-17	09/20/07 17:00	0.494	0.057	0.075	0.037
DOE 4.5.2.3	BI-214	OH207-7842-17	09/20/07 17:00	0.318	0.069	0.076	0.047
DOE 4.5.2.3	PB-214	OH207-7842-17	09/20/07 17:00	0.320	0.063	0.070	0.050
DOE 4.5.2.3	RA-223	OH207-7842-17	09/20/07 17:00	0.210	0.103	0.105	0.124
DOE 4.5.2.3	AC-228	OH207-7842-17	09/20/07 17:00	0.568	0.112	0.125	0.079
DOE 4.5.2.3	PA-233	OH207-7842-17	09/20/07 17:00	-0.006	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7842-17	09/20/07 17:00	-0.450	1.48	1.48	2.60
DOE 4.5.2.3	TH-234	OH207-7842-17	09/20/07 17:00	0.406	0.338	0.341	0.531
DOE 4.5.2.3	U-235	OH207-7842-17	09/20/07 17:00	0.029	0.090	0.090	0.153
DOE 4.5.2.3	NP-236	OH207-7842-17	09/20/07 17:00	0.002	0.033	0.033	0.050
DOE 4.5.2.3	NP-237	OH207-7842-17	09/20/07 17:00	0.179	0.173	0.174	0.219
DOE 4.5.2.3	NP-239	OH207-7842-17	09/20/07 17:00	0.012	0.085	0.085	0.141
DOE 4.5.2.3	AM-241	OH207-7842-17	09/20/07 17:00	-0.016	0.085	0.085	0.148
DOE 4.5.2.3	AM-243	OH207-7842-17	09/20/07 17:00	0.085	0.039	0.040	0.045
DOE 4.5.2.3	CM-243/244	OH207-7842-17	09/20/07 17:00	-0.011	0.047	0.047	0.079
DOE 4.5.2.3	AM-246	OH207-7842-17	09/20/07 17:00	0.032	0.042	0.042	0.082
DOE 4.5.2.3	CF-249	OH207-7842-17	09/20/07 17:00	0.009	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2017-ST				
Other Sample ID:		Collection Date:	8/20/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7842	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	OH207-7842-18	09/20/07 17:01	3.60	0.437	0.566	0.205
DOE 4.5.2.3	CO-60	OH207-7842-18	09/20/07 17:01	-0.010	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	OH207-7842-18	09/20/07 17:01	0.003	0.014	0.014	0.024
DOE 4.5.2.3	SB-125	OH207-7842-18	09/20/07 17:01	0.031	0.038	0.038	0.067
DOE 4.5.2.3	CS-137	OH207-7842-18	09/20/07 17:01	0.272	0.044	0.051	0.026
DOE 4.5.2.3	EU-155	OH207-7842-18	09/20/07 17:01	0.017	0.050	0.050	0.085
DOE 4.5.2.3	TL-208	OH207-7842-18	09/20/07 17:01	0.179	0.036	0.040	0.024
DOE 4.5.2.3	PO-209	OH207-7842-18	09/20/07 17:01	-1.26	2.63	2.64	4.42
DOE 4.5.2.3	BI-211	OH207-7842-18	09/20/07 17:01	-0.464	0.416	0.419	0.660
DOE 4.5.2.3	BI-212	OH207-7842-18	09/20/07 17:01	0.444	0.184	0.190	0.174
DOE 4.5.2.3	PB-212	OH207-7842-18	09/20/07 17:01	0.499	0.056	0.075	0.038
DOE 4.5.2.3	BI-214	OH207-7842-18	09/20/07 17:01	0.368	0.068	0.077	0.047
DOE 4.5.2.3	PB-214	OH207-7842-18	09/20/07 17:01	0.362	0.067	0.076	0.046
DOE 4.5.2.3	RA-223	OH207-7842-18	09/20/07 17:01	0.109	0.105	0.106	0.118
DOE 4.5.2.3	AC-228	OH207-7842-18	09/20/07 17:01	0.566	0.114	0.127	0.071
DOE 4.5.2.3	PA-233	OH207-7842-18	09/20/07 17:01	0.035	0.027	0.027	0.048
DOE 4.5.2.3	PA-234M	OH207-7842-18	09/20/07 17:01	0.628	1.54	1.54	2.84
DOE 4.5.2.3	TH-234	OH207-7842-18	09/20/07 17:01	0.307	0.280	0.282	0.490
DOE 4.5.2.3	U-235	OH207-7842-18	09/20/07 17:01	-8.7e-04	0.090	0.090	0.147
DOE 4.5.2.3	NP-236	OH207-7842-18	09/20/07 17:01	0.018	0.029	0.029	0.049
DOE 4.5.2.3	NP-237	OH207-7842-18	09/20/07 17:01	0.340	0.146	0.150	0.193
DOE 4.5.2.3	NP-239	OH207-7842-18	09/20/07 17:01	0.006	0.087	0.087	0.153
DOE 4.5.2.3	AM-241	OH207-7842-18	09/20/07 17:01	-0.021	0.072	0.072	0.123
DOE 4.5.2.3	AM-243	OH207-7842-18	09/20/07 17:01	0.111	0.039	0.040	0.043
DOE 4.5.2.3	CM-243/244	OH207-7842-18	09/20/07 17:01	0.020	0.045	0.046	0.078
DOE 4.5.2.3	AM-246	OH207-7842-18	09/20/07 17:01	-0.019	0.050	0.050	0.084
DOE 4.5.2.3	CF-249	OH207-7842-18	09/20/07 17:01	0.007	0.016	0.016	0.027

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2018-ST
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7842 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	OH207-7842-19	09/20/07 17:03	2.76	0.500	0.571	0.296
DOE 4.5.2.3	CO-60	OH207-7842-19	09/20/07 17:03	0.013	0.021	0.021	0.032
DOE 4.5.2.3	RH-101	OH207-7842-19	09/20/07 17:03	-0.002	0.020	0.020	0.034
DOE 4.5.2.3	SB-125	OH207-7842-19	09/20/07 17:03	0.012	0.056	0.056	0.100
DOE 4.5.2.3	CS-137	OH207-7842-19	09/20/07 17:03	0.502	0.072	0.088	0.037
DOE 4.5.2.3	EU-155	OH207-7842-19	09/20/07 17:03	0.059	0.058	0.059	0.104
DOE 4.5.2.3	TL-208	OH207-7842-19	09/20/07 17:03	0.273	0.045	0.053	0.037
DOE 4.5.2.3	PO-209	OH207-7842-19	09/20/07 17:03	-1.08	3.99	4.00	7.02
DOE 4.5.2.3	BI-211	OH207-7842-19	09/20/07 17:03	-0.392	0.594	0.595	0.965
DOE 4.5.2.3	BI-212	OH207-7842-19	09/20/07 17:03	0.403	0.252	0.256	0.262
DOE 4.5.2.3	PB-212	OH207-7842-19	09/20/07 17:03	0.792	0.086	0.117	0.053
DOE 4.5.2.3	BI-214	OH207-7842-19	09/20/07 17:03	0.401	0.093	0.101	0.071
DOE 4.5.2.3	PB-214	OH207-7842-19	09/20/07 17:03	0.450	0.102	0.111	0.071
DOE 4.5.2.3	RA-223	OH207-7842-19	09/20/07 17:03	0.353	0.197	0.200	0.171
DOE 4.5.2.3	AC-228	OH207-7842-19	09/20/07 17:03	0.801	0.158	0.177	0.136
DOE 4.5.2.3	PA-233	OH207-7842-19	09/20/07 17:03	-0.007	0.041	0.041	0.069
DOE 4.5.2.3	PA-234M	OH207-7842-19	09/20/07 17:03	1.30	2.42	2.42	4.64
DOE 4.5.2.3	TH-234	OH207-7842-19	09/20/07 17:03	1.16	0.423	0.438	0.590
DOE 4.5.2.3	U-235	OH207-7842-19	09/20/07 17:03	-0.056	0.121	0.121	0.202
DOE 4.5.2.3	NP-236	OH207-7842-19	09/20/07 17:03	0.066	0.038	0.039	0.058
DOE 4.5.2.3	NP-237	OH207-7842-19	09/20/07 17:03	0.528	0.133	0.143	0.198
DOE 4.5.2.3	NP-239	OH207-7842-19	09/20/07 17:03	-0.046	0.132	0.132	0.220
DOE 4.5.2.3	AM-241	OH207-7842-19	09/20/07 17:03	-0.121	0.043	0.045	0.064
DOE 4.5.2.3	AM-243	OH207-7842-19	09/20/07 17:03	0.158	0.049	0.051	0.034
DOE 4.5.2.3	CM-243/244	OH207-7842-19	09/20/07 17:03	-0.022	0.052	0.053	0.090
DOE 4.5.2.3	AM-246	OH207-7842-19	09/20/07 17:03	-0.026	0.061	0.061	0.105
DOE 4.5.2.3	CF-249	OH207-7842-19	09/20/07 17:03	-4.6e-04	0.024	0.024	0.043

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2019-ST
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7842 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	OH207-7842-20	09/20/07 20:45	2.91	0.427	0.516	0.188
DOE 4.5.2.3	CO-60	OH207-7842-20	09/20/07 20:45	-0.008	0.014	0.014	0.022
DOE 4.5.2.3	RH-101	OH207-7842-20	09/20/07 20:45	-0.010	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7842-20	09/20/07 20:45	0.003	0.040	0.040	0.069
DOE 4.5.2.3	CS-137	OH207-7842-20	09/20/07 20:45	0.392	0.061	0.072	0.027
DOE 4.5.2.3	EU-155	OH207-7842-20	09/20/07 20:45	0.054	0.052	0.052	0.091
DOE 4.5.2.3	TL-208	OH207-7842-20	09/20/07 20:45	0.231	0.042	0.048	0.023
DOE 4.5.2.3	PO-209	OH207-7842-20	09/20/07 20:45	1.12	2.79	2.79	5.10
DOE 4.5.2.3	BI-211	OH207-7842-20	09/20/07 20:45	-0.243	0.395	0.396	0.665
DOE 4.5.2.3	BI-212	OH207-7842-20	09/20/07 20:45	0.519	0.178	0.185	0.173
DOE 4.5.2.3	PB-212	OH207-7842-20	09/20/07 20:45	0.634	0.067	0.093	0.041
DOE 4.5.2.3	BI-214	OH207-7842-20	09/20/07 20:45	0.326	0.074	0.081	0.051
DOE 4.5.2.3	PB-214	OH207-7842-20	09/20/07 20:45	0.369	0.071	0.080	0.050
DOE 4.5.2.3	RA-223	OH207-7842-20	09/20/07 20:45	0.187	0.155	0.156	0.120
DOE 4.5.2.3	AC-228	OH207-7842-20	09/20/07 20:45	0.740	0.125	0.145	0.077
DOE 4.5.2.3	PA-233	OH207-7842-20	09/20/07 20:45	-0.002	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7842-20	09/20/07 20:45	-0.186	1.53	1.53	2.71
DOE 4.5.2.3	TH-234	OH207-7842-20	09/20/07 20:45	0.809	0.330	0.340	0.559
DOE 4.5.2.3	U-235	OH207-7842-20	09/20/07 20:45	0.029	0.091	0.091	0.155
DOE 4.5.2.3	NP-236	OH207-7842-20	09/20/07 20:45	0.023	0.033	0.033	0.053
DOE 4.5.2.3	NP-237	OH207-7842-20	09/20/07 20:45	0.271	0.164	0.166	0.232
DOE 4.5.2.3	NP-239	OH207-7842-20	09/20/07 20:45	0.042	0.096	0.096	0.161
DOE 4.5.2.3	AM-241	OH207-7842-20	09/20/07 20:45	0.005	0.089	0.089	0.155
DOE 4.5.2.3	AM-243	OH207-7842-20	09/20/07 20:45	0.161	0.055	0.058	0.047
DOE 4.5.2.3	CM-243/244	OH207-7842-20	09/20/07 20:45	-0.046	0.048	0.048	0.078
DOE 4.5.2.3	AM-246	OH207-7842-20	09/20/07 20:45	0.015	0.043	0.043	0.079
DOE 4.5.2.3	CF-249	OH207-7842-20	09/20/07 20:45	0.006	0.017	0.017	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2020-ST
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7843 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	OH207-7843-01	09/20/07 20:46	4.20	0.501	0.654	0.171
DOE 4.5.2.3	CO-60	OH207-7843-01	09/20/07 20:46	0.009	0.014	0.014	0.022
DOE 4.5.2.3	RH-101	OH207-7843-01	09/20/07 20:46	0.003	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	OH207-7843-01	09/20/07 20:46	0.010	0.040	0.040	0.069
DOE 4.5.2.3	CS-137	OH207-7843-01	09/20/07 20:46	0.128	0.039	0.041	0.026
DOE 4.5.2.3	EU-155	OH207-7843-01	09/20/07 20:46	0.057	0.055	0.055	0.095
DOE 4.5.2.3	TL-208	OH207-7843-01	09/20/07 20:46	0.255	0.044	0.051	0.025
DOE 4.5.2.3	PO-209	OH207-7843-01	09/20/07 20:46	-0.736	2.86	2.87	4.93
DOE 4.5.2.3	BI-211	OH207-7843-01	09/20/07 20:46	-0.395	0.440	0.442	0.714
DOE 4.5.2.3	BI-212	OH207-7843-01	09/20/07 20:46	0.580	0.189	0.197	0.194
DOE 4.5.2.3	PB-212	OH207-7843-01	09/20/07 20:46	0.699	0.072	0.101	0.042
DOE 4.5.2.3	BI-214	OH207-7843-01	09/20/07 20:46	0.418	0.074	0.085	0.050
DOE 4.5.2.3	PB-214	OH207-7843-01	09/20/07 20:46	0.417	0.070	0.081	0.050
DOE 4.5.2.3	RA-223	OH207-7843-01	09/20/07 20:46	0.180	0.100	0.102	0.134
DOE 4.5.2.3	AC-228	OH207-7843-01	09/20/07 20:46	0.860	0.144	0.168	0.091
DOE 4.5.2.3	PA-233	OH207-7843-01	09/20/07 20:46	0.013	0.028	0.028	0.049
DOE 4.5.2.3	PA-234M	OH207-7843-01	09/20/07 20:46	1.35	1.75	1.76	3.30
DOE 4.5.2.3	TH-234	OH207-7843-01	09/20/07 20:46	0.979	0.384	0.396	0.540
DOE 4.5.2.3	U-235	OH207-7843-01	09/20/07 20:46	-0.009	0.098	0.098	0.159
DOE 4.5.2.3	NP-236	OH207-7843-01	09/20/07 20:46	0.028	0.035	0.035	0.054
DOE 4.5.2.3	NP-237	OH207-7843-01	09/20/07 20:46	0.267	0.156	0.158	0.187
DOE 4.5.2.3	NP-239	OH207-7843-01	09/20/07 20:46	-0.007	0.096	0.096	0.168
DOE 4.5.2.3	AM-241	OH207-7843-01	09/20/07 20:46	-0.032	0.084	0.084	0.142
DOE 4.5.2.3	AM-243	OH207-7843-01	09/20/07 20:46	0.141	0.047	0.050	0.046
DOE 4.5.2.3	CM-243/244	OH207-7843-01	09/20/07 20:46	0.039	0.049	0.050	0.085
DOE 4.5.2.3	AM-246	OH207-7843-01	09/20/07 20:46	0.023	0.051	0.051	0.093
DOE 4.5.2.3	CF-249	OH207-7843-01	09/20/07 20:46	0.007	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2021-ST
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7843 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	OH207-7843-02	09/20/07 20:48	4.86	0.524	0.715	0.263
DOE 4.5.2.3	CO-60	OH207-7843-02	09/20/07 20:48	0.007	0.017	0.017	0.027
DOE 4.5.2.3	RH-101	OH207-7843-02	09/20/07 20:48	0.010	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7843-02	09/20/07 20:48	-3.3e-04	0.043	0.043	0.075
DOE 4.5.2.3	CS-137	OH207-7843-02	09/20/07 20:48	0.042	0.019	0.020	0.036
DOE 4.5.2.3	EU-155	OH207-7843-02	09/20/07 20:48	0.042	0.049	0.049	0.086
DOE 4.5.2.3	TL-208	OH207-7843-02	09/20/07 20:48	0.312	0.047	0.056	0.030
DOE 4.5.2.3	PO-209	OH207-7843-02	09/20/07 20:48	-0.780	3.08	3.08	5.39
DOE 4.5.2.3	BI-211	OH207-7843-02	09/20/07 20:48	-0.389	0.488	0.490	0.784
DOE 4.5.2.3	BI-212	OH207-7843-02	09/20/07 20:48	0.558	0.175	0.184	0.219
DOE 4.5.2.3	PB-212	OH207-7843-02	09/20/07 20:48	0.975	0.093	0.135	0.046
DOE 4.5.2.3	BI-214	OH207-7843-02	09/20/07 20:48	0.492	0.083	0.096	0.054
DOE 4.5.2.3	PB-214	OH207-7843-02	09/20/07 20:48	0.522	0.083	0.098	0.054
DOE 4.5.2.3	RA-223	OH207-7843-02	09/20/07 20:48	0.481	0.148	0.155	0.135
DOE 4.5.2.3	AC-228	OH207-7843-02	09/20/07 20:48	1.14	0.175	0.209	0.100
DOE 4.5.2.3	PA-233	OH207-7843-02	09/20/07 20:48	0.017	0.031	0.031	0.053
DOE 4.5.2.3	PA-234M	OH207-7843-02	09/20/07 20:48	0.974	2.05	2.06	3.81
DOE 4.5.2.3	TH-234	OH207-7843-02	09/20/07 20:48	1.38	0.452	0.473	0.347
DOE 4.5.2.3	U-235	OH207-7843-02	09/20/07 20:48	0.111	0.112	0.112	0.171
DOE 4.5.2.3	NP-236	OH207-7843-02	09/20/07 20:48	0.008	0.029	0.030	0.047
DOE 4.5.2.3	NP-237	OH207-7843-02	09/20/07 20:48	0.269	0.138	0.141	0.177
DOE 4.5.2.3	NP-239	OH207-7843-02	09/20/07 20:48	-0.065	0.110	0.110	0.181
DOE 4.5.2.3	AM-241	OH207-7843-02	09/20/07 20:48	0.030	0.034	0.034	0.051
DOE 4.5.2.3	AM-243	OH207-7843-02	09/20/07 20:48	0.156	0.041	0.044	0.029
DOE 4.5.2.3	CM-243/244	OH207-7843-02	09/20/07 20:48	0.006	0.045	0.045	0.077
DOE 4.5.2.3	AM-246	OH207-7843-02	09/20/07 20:48	0.040	0.057	0.057	0.107
DOE 4.5.2.3	CF-249	OH207-7843-02	09/20/07 20:48	0.011	0.018	0.018	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2022-ST
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7843 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	OH207-7843-03	09/21/07 12:18	1.87	0.372	0.416	0.212
DOE 4.5.2.3	CO-60	OH207-7843-03	09/21/07 12:18	3.3e-04	0.015	0.015	0.027
DOE 4.5.2.3	RH-101	OH207-7843-03	09/21/07 12:18	-0.012	0.017	0.017	0.027
DOE 4.5.2.3	SB-125	OH207-7843-03	09/21/07 12:18	0.022	0.045	0.045	0.080
DOE 4.5.2.3	CS-137	OH207-7843-03	09/21/07 12:18	0.205	0.035	0.040	0.035
DOE 4.5.2.3	EU-155	OH207-7843-03	09/21/07 12:18	0.033	0.048	0.048	0.084
DOE 4.5.2.3	TL-208	OH207-7843-03	09/21/07 12:18	0.286	0.049	0.057	0.029
DOE 4.5.2.3	PO-209	OH207-7843-03	09/21/07 12:18	-1.59	3.10	3.10	5.29
DOE 4.5.2.3	BI-211	OH207-7843-03	09/21/07 12:18	-0.242	0.526	0.527	0.868
DOE 4.5.2.3	BI-212	OH207-7843-03	09/21/07 12:18	0.563	0.233	0.240	0.228
DOE 4.5.2.3	PB-212	OH207-7843-03	09/21/07 12:18	0.834	0.082	0.117	0.046
DOE 4.5.2.3	BI-214	OH207-7843-03	09/21/07 12:18	0.514	0.089	0.103	0.052
DOE 4.5.2.3	PB-214	OH207-7843-03	09/21/07 12:18	0.678	0.088	0.111	0.058
DOE 4.5.2.3	RA-223	OH207-7843-03	09/21/07 12:18	0.263	0.129	0.131	0.140
DOE 4.5.2.3	AC-228	OH207-7843-03	09/21/07 12:18	0.842	0.184	0.203	0.104
DOE 4.5.2.3	PA-233	OH207-7843-03	09/21/07 12:18	0.030	0.031	0.031	0.054
DOE 4.5.2.3	PA-234M	OH207-7843-03	09/21/07 12:18	-0.074	1.88	1.88	3.41
DOE 4.5.2.3	TH-234	OH207-7843-03	09/21/07 12:18	0.719	0.299	0.307	0.349
DOE 4.5.2.3	U-235	OH207-7843-03	09/21/07 12:18	0.003	0.102	0.102	0.174
DOE 4.5.2.3	NP-236	OH207-7843-03	09/21/07 12:18	0.045	0.030	0.031	0.048
DOE 4.5.2.3	NP-237	OH207-7843-03	09/21/07 12:18	0.469	0.113	0.122	0.161
DOE 4.5.2.3	NP-239	OH207-7843-03	09/21/07 12:18	0.029	0.112	0.112	0.190
DOE 4.5.2.3	AM-241	OH207-7843-03	09/21/07 12:18	0.034	0.032	0.032	0.049
DOE 4.5.2.3	AM-243	OH207-7843-03	09/21/07 12:18	0.136	0.037	0.039	0.027
DOE 4.5.2.3	CM-243/244	OH207-7843-03	09/21/07 12:18	0.011	0.043	0.043	0.075
DOE 4.5.2.3	AM-246	OH207-7843-03	09/21/07 12:18	0.034	0.050	0.050	0.095
DOE 4.5.2.3	CF-249	OH207-7843-03	09/21/07 12:18	-0.004	0.019	0.019	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2023-ST				
Other Sample ID:		Collection Date:	8/21/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7843	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	OH207-7843-04	09/21/07 13:16	3.30	0.436	0.547	0.144
DOE 4.5.2.3	CO-60	OH207-7843-04	09/21/07 13:16	0.013	0.014	0.014	0.023
DOE 4.5.2.3	RH-101	OH207-7843-04	09/21/07 13:16	-7.8e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7843-04	09/21/07 13:16	0.017	0.039	0.039	0.068
DOE 4.5.2.3	CS-137	OH207-7843-04	09/21/07 13:16	0.219	0.038	0.044	0.025
DOE 4.5.2.3	EU-155	OH207-7843-04	09/21/07 13:16	0.010	0.049	0.049	0.084
DOE 4.5.2.3	TL-208	OH207-7843-04	09/21/07 13:16	0.245	0.041	0.048	0.023
DOE 4.5.2.3	PO-209	OH207-7843-04	09/21/07 13:16	-0.446	2.84	2.84	4.93
DOE 4.5.2.3	BI-211	OH207-7843-04	09/21/07 13:16	-0.159	0.396	0.396	0.674
DOE 4.5.2.3	BI-212	OH207-7843-04	09/21/07 13:16	0.479	0.158	0.165	0.172
DOE 4.5.2.3	PB-212	OH207-7843-04	09/21/07 13:16	0.624	0.065	0.090	0.039
DOE 4.5.2.3	BI-214	OH207-7843-04	09/21/07 13:16	0.336	0.072	0.079	0.048
DOE 4.5.2.3	PB-214	OH207-7843-04	09/21/07 13:16	0.386	0.068	0.078	0.048
DOE 4.5.2.3	RA-223	OH207-7843-04	09/21/07 13:16	0.150	0.078	0.080	0.144
DOE 4.5.2.3	AC-228	OH207-7843-04	09/21/07 13:16	0.721	0.129	0.147	0.087
DOE 4.5.2.3	PA-233	OH207-7843-04	09/21/07 13:16	-0.016	0.025	0.025	0.042
DOE 4.5.2.3	PA-234M	OH207-7843-04	09/21/07 13:16	0.480	1.46	1.46	2.69
DOE 4.5.2.3	TH-234	OH207-7843-04	09/21/07 13:16	0.884	0.389	0.399	0.501
DOE 4.5.2.3	U-235	OH207-7843-04	09/21/07 13:16	-0.100	0.095	0.096	0.149
DOE 4.5.2.3	NP-236	OH207-7843-04	09/21/07 13:16	0.027	0.032	0.032	0.050
DOE 4.5.2.3	NP-237	OH207-7843-04	09/21/07 13:16	0.338	0.149	0.153	0.206
DOE 4.5.2.3	NP-239	OH207-7843-04	09/21/07 13:16	0.018	0.089	0.089	0.157
DOE 4.5.2.3	AM-241	OH207-7843-04	09/21/07 13:16	-0.016	0.079	0.079	0.134
DOE 4.5.2.3	AM-243	OH207-7843-04	09/21/07 13:16	0.127	0.041	0.043	0.045
DOE 4.5.2.3	CM-243/244	OH207-7843-04	09/21/07 13:16	0.020	0.045	0.045	0.076
DOE 4.5.2.3	AM-246	OH207-7843-04	09/21/07 13:16	0.030	0.049	0.049	0.090
DOE 4.5.2.3	CF-249	OH207-7843-04	09/21/07 13:16	0.012	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2024-ST
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7843 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	OH207-7843-05	09/21/07 15:20	3.67	0.575	0.682	0.336
DOE 4.5.2.3	CO-60	OH207-7843-05	09/21/07 15:20	-0.007	0.022	0.022	0.033
DOE 4.5.2.3	RH-101	OH207-7843-05	09/21/07 15:20	-0.005	0.020	0.020	0.033
DOE 4.5.2.3	SB-125	OH207-7843-05	09/21/07 15:20	-0.026	0.055	0.055	0.093
DOE 4.5.2.3	CS-137	OH207-7843-05	09/21/07 15:20	0.288	0.055	0.062	0.042
DOE 4.5.2.3	EU-155	OH207-7843-05	09/21/07 15:20	0.027	0.057	0.058	0.100
DOE 4.5.2.3	TL-208	OH207-7843-05	09/21/07 15:20	0.244	0.043	0.049	0.033
DOE 4.5.2.3	PO-209	OH207-7843-05	09/21/07 15:20	-1.25	3.51	3.52	6.13
DOE 4.5.2.3	BI-211	OH207-7843-05	09/21/07 15:20	-0.323	0.604	0.605	0.992
DOE 4.5.2.3	BI-212	OH207-7843-05	09/21/07 15:20	0.579	0.266	0.272	0.296
DOE 4.5.2.3	PB-212	OH207-7843-05	09/21/07 15:20	0.853	0.089	0.124	0.053
DOE 4.5.2.3	BI-214	OH207-7843-05	09/21/07 15:20	0.392	0.092	0.100	0.062
DOE 4.5.2.3	PB-214	OH207-7843-05	09/21/07 15:20	0.496	0.103	0.115	0.065
DOE 4.5.2.3	RA-223	OH207-7843-05	09/21/07 15:20	0.269	0.173	0.175	0.177
DOE 4.5.2.3	AC-228	OH207-7843-05	09/21/07 15:20	0.776	0.211	0.224	0.116
DOE 4.5.2.3	PA-233	OH207-7843-05	09/21/07 15:20	0.012	0.038	0.038	0.065
DOE 4.5.2.3	PA-234M	OH207-7843-05	09/21/07 15:20	0.425	2.42	2.42	4.48
DOE 4.5.2.3	TH-234	OH207-7843-05	09/21/07 15:20	1.14	0.402	0.417	0.571
DOE 4.5.2.3	U-235	OH207-7843-05	09/21/07 15:20	0.128	0.119	0.119	0.208
DOE 4.5.2.3	NP-236	OH207-7843-05	09/21/07 15:20	-0.020	0.039	0.039	0.054
DOE 4.5.2.3	NP-237	OH207-7843-05	09/21/07 15:20	0.507	0.158	0.166	0.168
DOE 4.5.2.3	NP-239	OH207-7843-05	09/21/07 15:20	0.086	0.130	0.131	0.226
DOE 4.5.2.3	AM-241	OH207-7843-05	09/21/07 15:20	-0.122	0.041	0.043	0.061
DOE 4.5.2.3	AM-243	OH207-7843-05	09/21/07 15:20	0.144	0.042	0.045	0.034
DOE 4.5.2.3	CM-243/244	OH207-7843-05	09/21/07 15:20	-0.004	0.052	0.052	0.090
DOE 4.5.2.3	AM-246	OH207-7843-05	09/21/07 15:20	0.039	0.069	0.069	0.129
DOE 4.5.2.3	CF-249	OH207-7843-05	09/21/07 15:20	-0.010	0.024	0.024	0.040

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2000-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-01	09/23/07 21:10	2.62	0.398	0.476	0.228
DOE 4.5.2.3	CO-60	OH207-7844-01	09/23/07 21:10	-0.001	0.017	0.017	0.029
DOE 4.5.2.3	RH-101	OH207-7844-01	09/23/07 21:10	-0.003	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7844-01	09/23/07 21:10	0.001	0.042	0.042	0.074
DOE 4.5.2.3	CS-137	OH207-7844-01	09/23/07 21:10	0.030	0.026	0.026	0.034
DOE 4.5.2.3	EU-155	OH207-7844-01	09/23/07 21:10	0.037	0.047	0.047	0.083
DOE 4.5.2.3	TL-208	OH207-7844-01	09/23/07 21:10	0.226	0.043	0.049	0.031
DOE 4.5.2.3	PO-209	OH207-7844-01	09/23/07 21:10	1.25	3.16	3.16	5.82
DOE 4.5.2.3	BI-211	OH207-7844-01	09/23/07 21:10	-0.113	0.479	0.480	0.809
DOE 4.5.2.3	BI-212	OH207-7844-01	09/23/07 21:10	0.534	0.210	0.217	0.216
DOE 4.5.2.3	PB-212	OH207-7844-01	09/23/07 21:10	0.756	0.079	0.109	0.045
DOE 4.5.2.3	BI-214	OH207-7844-01	09/23/07 21:10	0.419	0.072	0.084	0.112
DOE 4.5.2.3	PB-214	OH207-7844-01	09/23/07 21:10	0.438	0.078	0.089	0.054
DOE 4.5.2.3	RA-223	OH207-7844-01	09/23/07 21:10	0.291	0.138	0.141	0.137
DOE 4.5.2.3	AC-228	OH207-7844-01	09/23/07 21:10	0.664	0.137	0.153	0.082
DOE 4.5.2.3	PA-233	OH207-7844-01	09/23/07 21:10	0.012	0.030	0.030	0.052
DOE 4.5.2.3	PA-234M	OH207-7844-01	09/23/07 21:10	-0.058	1.96	1.96	3.56
DOE 4.5.2.3	TH-234	OH207-7844-01	09/23/07 21:10	0.866	0.335	0.346	0.324
DOE 4.5.2.3	U-235	OH207-7844-01	09/23/07 21:10	-0.034	0.099	0.099	0.167
DOE 4.5.2.3	NP-236	OH207-7844-01	09/23/07 21:10	0.020	0.032	0.032	0.046
DOE 4.5.2.3	NP-237	OH207-7844-01	09/23/07 21:10	0.413	0.142	0.148	0.141
DOE 4.5.2.3	NP-239	OH207-7844-01	09/23/07 21:10	-0.008	0.109	0.109	0.183
DOE 4.5.2.3	AM-241	OH207-7844-01	09/23/07 21:10	0.003	0.033	0.033	0.049
DOE 4.5.2.3	AM-243	OH207-7844-01	09/23/07 21:10	0.135	0.039	0.041	0.027
DOE 4.5.2.3	CM-243/244	OH207-7844-01	09/23/07 21:10	0.015	0.043	0.043	0.075
DOE 4.5.2.3	AM-246	OH207-7844-01	09/23/07 21:10	0.021	0.055	0.055	0.102
DOE 4.5.2.3	CF-249	OH207-7844-01	09/23/07 21:10	0.016	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2001-SD				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7844	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	OH207-7844-02	09/24/07 10:53	2.16	0.356	0.417	0.187
DOE 4.5.2.3	CO-60	OH207-7844-02	09/24/07 10:53	3.9e-04	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7844-02	09/24/07 10:53	2.9e-04	0.014	0.014	0.024
DOE 4.5.2.3	SB-125	OH207-7844-02	09/24/07 10:53	-0.009	0.035	0.035	0.060
DOE 4.5.2.3	CS-137	OH207-7844-02	09/24/07 10:53	0.009	0.015	0.015	0.027
DOE 4.5.2.3	EU-155	OH207-7844-02	09/24/07 10:53	0.029	0.041	0.041	0.071
DOE 4.5.2.3	TL-208	OH207-7844-02	09/24/07 10:53	0.209	0.037	0.043	0.022
DOE 4.5.2.3	PO-209	OH207-7844-02	09/24/07 10:53	-0.060	2.45	2.45	4.37
DOE 4.5.2.3	BI-211	OH207-7844-02	09/24/07 10:53	-0.186	0.400	0.401	0.660
DOE 4.5.2.3	BI-212	OH207-7844-02	09/24/07 10:53	0.565	0.240	0.247	0.166
DOE 4.5.2.3	PB-212	OH207-7844-02	09/24/07 10:53	0.710	0.068	0.099	0.037
DOE 4.5.2.3	BI-214	OH207-7844-02	09/24/07 10:53	0.533	0.072	0.090	0.043
DOE 4.5.2.3	PB-214	OH207-7844-02	09/24/07 10:53	0.603	0.079	0.099	0.047
DOE 4.5.2.3	RA-223	OH207-7844-02	09/24/07 10:53	0.237	0.120	0.122	0.118
DOE 4.5.2.3	AC-228	OH207-7844-02	09/24/07 10:53	0.831	0.141	0.163	0.080
DOE 4.5.2.3	PA-233	OH207-7844-02	09/24/07 10:53	0.022	0.026	0.026	0.045
DOE 4.5.2.3	PA-234M	OH207-7844-02	09/24/07 10:53	0.052	1.61	1.61	2.90
DOE 4.5.2.3	TH-234	OH207-7844-02	09/24/07 10:53	0.875	0.293	0.306	0.268
DOE 4.5.2.3	U-235	OH207-7844-02	09/24/07 10:53	0.047	0.086	0.086	0.148
DOE 4.5.2.3	NP-236	OH207-7844-02	09/24/07 10:53	0.013	0.026	0.026	0.038
DOE 4.5.2.3	NP-237	OH207-7844-02	09/24/07 10:53	0.406	0.126	0.132	0.116
DOE 4.5.2.3	NP-239	OH207-7844-02	09/24/07 10:53	0.042	0.092	0.092	0.158
DOE 4.5.2.3	AM-241	OH207-7844-02	09/24/07 10:53	0.027	0.026	0.026	0.039
DOE 4.5.2.3	AM-243	OH207-7844-02	09/24/07 10:53	0.105	0.029	0.031	0.022
DOE 4.5.2.3	CM-243/244	OH207-7844-02	09/24/07 10:53	0.014	0.037	0.037	0.064
DOE 4.5.2.3	AM-246	OH207-7844-02	09/24/07 10:53	0.010	0.045	0.045	0.082
DOE 4.5.2.3	CF-249	OH207-7844-02	09/24/07 10:53	-0.001	0.015	0.015	0.026

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2002-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-03	09/24/07 14:04	4.36	0.554	0.705	0.238
DOE 4.5.2.3	CO-60	OH207-7844-03	09/24/07 14:04	-0.012	0.017	0.017	0.029
DOE 4.5.2.3	RH-101	OH207-7844-03	09/24/07 14:04	-0.009	0.018	0.018	0.029
DOE 4.5.2.3	SB-125	OH207-7844-03	09/24/07 14:04	-0.010	0.045	0.045	0.078
DOE 4.5.2.3	CS-137	OH207-7844-03	09/24/07 14:04	0.008	0.019	0.019	0.034
DOE 4.5.2.3	EU-155	OH207-7844-03	09/24/07 14:04	0.066	0.052	0.053	0.092
DOE 4.5.2.3	TL-208	OH207-7844-03	09/24/07 14:04	0.380	0.054	0.066	0.030
DOE 4.5.2.3	PO-209	OH207-7844-03	09/24/07 14:04	0.702	3.27	3.27	5.89
DOE 4.5.2.3	BI-211	OH207-7844-03	09/24/07 14:04	0.435	0.523	0.525	0.938
DOE 4.5.2.3	BI-212	OH207-7844-03	09/24/07 14:04	0.540	0.233	0.239	0.217
DOE 4.5.2.3	PB-212	OH207-7844-03	09/24/07 14:04	1.12	0.102	0.151	0.045
DOE 4.5.2.3	BI-214	OH207-7844-03	09/24/07 14:04	0.561	0.091	0.107	0.057
DOE 4.5.2.3	PB-214	OH207-7844-03	09/24/07 14:04	0.666	0.093	0.114	0.055
DOE 4.5.2.3	RA-223	OH207-7844-03	09/24/07 14:04	0.292	0.143	0.146	0.148
DOE 4.5.2.3	AC-228	OH207-7844-03	09/24/07 14:04	1.22	0.172	0.211	0.101
DOE 4.5.2.3	PA-233	OH207-7844-03	09/24/07 14:04	3.6e-04	0.033	0.033	0.055
DOE 4.5.2.3	PA-234M	OH207-7844-03	09/24/07 14:04	1.68	2.04	2.05	3.86
DOE 4.5.2.3	TH-234	OH207-7844-03	09/24/07 14:04	0.926	0.339	0.352	0.353
DOE 4.5.2.3	U-235	OH207-7844-03	09/24/07 14:04	0.045	0.109	0.109	0.187
DOE 4.5.2.3	NP-236	OH207-7844-03	09/24/07 14:04	0.032	0.034	0.035	0.050
DOE 4.5.2.3	NP-237	OH207-7844-03	09/24/07 14:04	0.485	0.148	0.155	0.153
DOE 4.5.2.3	NP-239	OH207-7844-03	09/24/07 14:04	0.045	0.117	0.117	0.200
DOE 4.5.2.3	AM-241	OH207-7844-03	09/24/07 14:04	0.030	0.034	0.034	0.051
DOE 4.5.2.3	AM-243	OH207-7844-03	09/24/07 14:04	0.166	0.042	0.046	0.029
DOE 4.5.2.3	CM-243/244	OH207-7844-03	09/24/07 14:04	0.023	0.047	0.047	0.082
DOE 4.5.2.3	AM-246	OH207-7844-03	09/24/07 14:04	0.059	0.061	0.061	0.114
DOE 4.5.2.3	CF-249	OH207-7844-03	09/24/07 14:04	-0.003	0.020	0.020	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2003-SD				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7844	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	OH207-7844-04	09/24/07 14:40	3.40	0.387	0.515	0.152
DOE 4.5.2.3	CO-60	OH207-7844-04	09/24/07 14:40	-7.6e-04	0.010	0.010	0.018
DOE 4.5.2.3	RH-101	OH207-7844-04	09/24/07 14:40	-0.002	0.012	0.012	0.019
DOE 4.5.2.3	SB-125	OH207-7844-04	09/24/07 14:40	-0.019	0.029	0.029	0.048
DOE 4.5.2.3	CS-137	OH207-7844-04	09/24/07 14:40	0.010	0.012	0.012	0.022
DOE 4.5.2.3	EU-155	OH207-7844-04	09/24/07 14:40	0.005	0.043	0.043	0.073
DOE 4.5.2.3	TL-208	OH207-7844-04	09/24/07 14:40	0.224	0.035	0.041	0.018
DOE 4.5.2.3	PO-209	OH207-7844-04	09/24/07 14:40	-1.03	2.25	2.25	3.79
DOE 4.5.2.3	BI-211	OH207-7844-04	09/24/07 14:40	-0.260	0.326	0.327	0.538
DOE 4.5.2.3	BI-212	OH207-7844-04	09/24/07 14:40	0.450	0.159	0.165	0.145
DOE 4.5.2.3	PB-212	OH207-7844-04	09/24/07 14:40	0.624	0.061	0.088	0.031
DOE 4.5.2.3	BI-214	OH207-7844-04	09/24/07 14:40	0.467	0.072	0.085	0.033
DOE 4.5.2.3	PB-214	OH207-7844-04	09/24/07 14:40	0.473	0.058	0.075	0.037
DOE 4.5.2.3	RA-223	OH207-7844-04	09/24/07 14:40	0.205	0.095	0.097	0.097
DOE 4.5.2.3	AC-228	OH207-7844-04	09/24/07 14:40	0.713	0.106	0.128	0.064
DOE 4.5.2.3	PA-233	OH207-7844-04	09/24/07 14:40	0.005	0.020	0.020	0.035
DOE 4.5.2.3	PA-234M	OH207-7844-04	09/24/07 14:40	1.04	1.22	1.23	2.31
DOE 4.5.2.3	TH-234	OH207-7844-04	09/24/07 14:40	0.678	0.288	0.295	0.422
DOE 4.5.2.3	U-235	OH207-7844-04	09/24/07 14:40	0.056	0.075	0.075	0.128
DOE 4.5.2.3	NP-236	OH207-7844-04	09/24/07 14:40	0.016	0.025	0.025	0.043
DOE 4.5.2.3	NP-237	OH207-7844-04	09/24/07 14:40	0.310	0.146	0.149	0.168
DOE 4.5.2.3	NP-239	OH207-7844-04	09/24/07 14:40	-0.012	0.076	0.076	0.123
DOE 4.5.2.3	AM-241	OH207-7844-04	09/24/07 14:40	0.020	0.068	0.068	0.119
DOE 4.5.2.3	AM-243	OH207-7844-04	09/24/07 14:40	0.111	0.038	0.040	0.037
DOE 4.5.2.3	CM-243/244	OH207-7844-04	09/24/07 14:40	-0.013	0.038	0.038	0.064
DOE 4.5.2.3	AM-246	OH207-7844-04	09/24/07 14:40	-0.024	0.035	0.035	0.057
DOE 4.5.2.3	CF-249	OH207-7844-04	09/24/07 14:40	0.014	0.013	0.013	0.023

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2004-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-05	09/24/07 17:16	2.95	0.552	0.626	0.195
DOE 4.5.2.3	CO-60	OH207-7844-05	09/24/07 17:16	-0.007	0.017	0.017	0.026
DOE 4.5.2.3	RH-101	OH207-7844-05	09/24/07 17:16	0.004	0.015	0.015	0.026
DOE 4.5.2.3	SB-125	OH207-7844-05	09/24/07 17:16	-0.029	0.041	0.041	0.068
DOE 4.5.2.3	CS-137	OH207-7844-05	09/24/07 17:16	0.034	0.022	0.023	0.028
DOE 4.5.2.3	EU-155	OH207-7844-05	09/24/07 17:16	7.4e-04	0.044	0.044	0.076
DOE 4.5.2.3	TL-208	OH207-7844-05	09/24/07 17:16	0.166	0.043	0.046	0.028
DOE 4.5.2.3	PO-209	OH207-7844-05	09/24/07 17:16	1.93	3.09	3.09	5.78
DOE 4.5.2.3	BI-211	OH207-7844-05	09/24/07 17:16	-0.266	0.449	0.450	0.734
DOE 4.5.2.3	BI-212	OH207-7844-05	09/24/07 17:16	0.394	0.202	0.206	0.241
DOE 4.5.2.3	PB-212	OH207-7844-05	09/24/07 17:16	0.530	0.068	0.086	0.048
DOE 4.5.2.3	BI-214	OH207-7844-05	09/24/07 17:16	0.401	0.071	0.082	0.052
DOE 4.5.2.3	PB-214	OH207-7844-05	09/24/07 17:16	0.345	0.069	0.077	0.055
DOE 4.5.2.3	RA-223	OH207-7844-05	09/24/07 17:16	0.271	0.119	0.122	0.130
DOE 4.5.2.3	AC-228	OH207-7844-05	09/24/07 17:16	0.772	0.127	0.148	0.103
DOE 4.5.2.3	PA-233	OH207-7844-05	09/24/07 17:16	-0.002	0.029	0.029	0.049
DOE 4.5.2.3	PA-234M	OH207-7844-05	09/24/07 17:16	0.894	1.91	1.91	3.61
DOE 4.5.2.3	TH-234	OH207-7844-05	09/24/07 17:16	0.273	0.298	0.299	0.349
DOE 4.5.2.3	U-235	OH207-7844-05	09/24/07 17:16	0.102	0.098	0.099	0.171
DOE 4.5.2.3	NP-236	OH207-7844-05	09/24/07 17:16	5.9e-04	0.028	0.028	0.044
DOE 4.5.2.3	NP-237	OH207-7844-05	09/24/07 17:16	0.159	0.138	0.139	0.160
DOE 4.5.2.3	NP-239	OH207-7844-05	09/24/07 17:16	0.025	0.102	0.102	0.175
DOE 4.5.2.3	AM-241	OH207-7844-05	09/24/07 17:16	0.027	0.034	0.034	0.052
DOE 4.5.2.3	AM-243	OH207-7844-05	09/24/07 17:16	0.111	0.034	0.035	0.027
DOE 4.5.2.3	CM-243/244	OH207-7844-05	09/24/07 17:16	-0.009	0.040	0.040	0.068
DOE 4.5.2.3	AM-246	OH207-7844-05	09/24/07 17:16	0.020	0.055	0.055	0.102
DOE 4.5.2.3	CF-249	OH207-7844-05	09/24/07 17:16	-4.7e-04	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080,04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2005-SD				
Other Sample ID:		Collection Date:	8/16/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7844	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	OH207-7844-06	09/24/07 18:02	2.02	0.352	0.405	0.178
DOE 4.5.2.3	CO-60	OH207-7844-06	09/24/07 18:02	6.7e-04	0.013	0.013	0.023
DOE 4.5.2.3	RH-101	OH207-7844-06	09/24/07 18:02	-0.008	0.014	0.014	0.021
DOE 4.5.2.3	SB-125	OH207-7844-06	09/24/07 18:02	0.015	0.036	0.036	0.063
DOE 4.5.2.3	CS-137	OH207-7844-06	09/24/07 18:02	0.017	0.015	0.016	0.029
DOE 4.5.2.3	EU-155	OH207-7844-06	09/24/07 18:02	0.053	0.049	0.049	0.086
DOE 4.5.2.3	TL-208	OH207-7844-06	09/24/07 18:02	0.174	0.032	0.036	0.023
DOE 4.5.2.3	PO-209	OH207-7844-06	09/24/07 18:02	1.16	2.49	2.49	4.62
DOE 4.5.2.3	BI-211	OH207-7844-06	09/24/07 18:02	-0.338	0.384	0.386	0.623
DOE 4.5.2.3	BI-212	OH207-7844-06	09/24/07 18:02	0.465	0.169	0.175	0.177
DOE 4.5.2.3	PB-212	OH207-7844-06	09/24/07 18:02	0.470	0.054	0.072	0.036
DOE 4.5.2.3	BI-214	OH207-7844-06	09/24/07 18:02	0.259	0.057	0.062	0.046
DOE 4.5.2.3	PB-214	OH207-7844-06	09/24/07 18:02	0.360	0.056	0.067	0.045
DOE 4.5.2.3	RA-223	OH207-7844-06	09/24/07 18:02	0.243	0.112	0.115	0.110
DOE 4.5.2.3	AC-228	OH207-7844-06	09/24/07 18:02	0.509	0.116	0.127	0.081
DOE 4.5.2.3	PA-233	OH207-7844-06	09/24/07 18:02	-0.010	0.025	0.025	0.042
DOE 4.5.2.3	PA-234M	OH207-7844-06	09/24/07 18:02	-0.544	1.58	1.58	2.71
DOE 4.5.2.3	TH-234	OH207-7844-06	09/24/07 18:02	0.726	0.291	0.300	0.487
DOE 4.5.2.3	U-235	OH207-7844-06	09/24/07 18:02	0.044	0.089	0.089	0.148
DOE 4.5.2.3	NP-236	OH207-7844-06	09/24/07 18:02	0.021	0.029	0.029	0.049
DOE 4.5.2.3	NP-237	OH207-7844-06	09/24/07 18:02	0.215	0.155	0.156	0.208
DOE 4.5.2.3	NP-239	OH207-7844-06	09/24/07 18:02	-0.048	0.083	0.083	0.142
DOE 4.5.2.3	AM-241	OH207-7844-06	09/24/07 18:02	0.035	0.074	0.074	0.129
DOE 4.5.2.3	AM-243	OH207-7844-06	09/24/07 18:02	0.134	0.044	0.046	0.041
DOE 4.5.2.3	CM-243/244	OH207-7844-06	09/24/07 18:02	-0.009	0.044	0.044	0.073
DOE 4.5.2.3	AM-246	OH207-7844-06	09/24/07 18:02	-0.042	0.049	0.049	0.077
DOE 4.5.2.3	CF-249	OH207-7844-06	09/24/07 18:02	0.012	0.015	0.015	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2006-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-07	09/24/07 21:53	3.15	0.406	0.514	0.136
DOE 4.5.2.3	CO-60	OH207-7844-07	09/24/07 21:53	-0.002	0.013	0.013	0.017
DOE 4.5.2.3	RH-101	OH207-7844-07	09/24/07 21:53	9.2e-04	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7844-07	09/24/07 21:53	0.035	0.036	0.036	0.065
DOE 4.5.2.3	CS-137	OH207-7844-07	09/24/07 21:53	0.067	0.024	0.024	0.027
DOE 4.5.2.3	EU-155	OH207-7844-07	09/24/07 21:53	0.076	0.048	0.049	0.087
DOE 4.5.2.3	TL-208	OH207-7844-07	09/24/07 21:53	0.179	0.035	0.039	0.023
DOE 4.5.2.3	PO-209	OH207-7844-07	09/24/07 21:53	-0.408	2.51	2.51	4.40
DOE 4.5.2.3	BI-211	OH207-7844-07	09/24/07 21:53	-0.195	0.336	0.337	0.570
DOE 4.5.2.3	BI-212	OH207-7844-07	09/24/07 21:53	0.273	0.180	0.182	0.169
DOE 4.5.2.3	PB-212	OH207-7844-07	09/24/07 21:53	0.544	0.058	0.080	0.034
DOE 4.5.2.3	BI-214	OH207-7844-07	09/24/07 21:53	0.368	0.062	0.072	0.044
DOE 4.5.2.3	PB-214	OH207-7844-07	09/24/07 21:53	0.368	0.066	0.076	0.041
DOE 4.5.2.3	RA-223	OH207-7844-07	09/24/07 21:53	0.174	0.097	0.099	0.115
DOE 4.5.2.3	AC-228	OH207-7844-07	09/24/07 21:53	0.612	0.113	0.129	0.084
DOE 4.5.2.3	PA-233	OH207-7844-07	09/24/07 21:53	-0.003	0.022	0.022	0.039
DOE 4.5.2.3	PA-234M	OH207-7844-07	09/24/07 21:53	0.655	1.46	1.46	2.74
DOE 4.5.2.3	TH-234	OH207-7844-07	09/24/07 21:53	0.493	0.324	0.328	0.486
DOE 4.5.2.3	U-235	OH207-7844-07	09/24/07 21:53	-0.074	0.089	0.090	0.144
DOE 4.5.2.3	NP-236	OH207-7844-07	09/24/07 21:53	0.008	0.031	0.031	0.049
DOE 4.5.2.3	NP-237	OH207-7844-07	09/24/07 21:53	0.281	0.155	0.157	0.198
DOE 4.5.2.3	NP-239	OH207-7844-07	09/24/07 21:53	0.012	0.086	0.086	0.143
DOE 4.5.2.3	AM-241	OH207-7844-07	09/24/07 21:53	0.015	0.080	0.080	0.141
DOE 4.5.2.3	AM-243	OH207-7844-07	09/24/07 21:53	0.113	0.043	0.045	0.043
DOE 4.5.2.3	CM-243/244	OH207-7844-07	09/24/07 21:53	0.003	0.044	0.044	0.076
DOE 4.5.2.3	AM-246	OH207-7844-07	09/24/07 21:53	-0.006	0.044	0.044	0.077
DOE 4.5.2.3	CF-249	OH207-7844-07	09/24/07 21:53	0.002	0.015	0.015	0.026

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2007SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-08	09/24/07 21:55	5.56	0.570	0.796	0.169
DOE 4.5.2.3	CO-60	OH207-7844-08	09/24/07 21:55	-0.002	0.013	0.013	0.021
DOE 4.5.2.3	RH-101	OH207-7844-08	09/24/07 21:55	0.011	0.013	0.013	0.022
DOE 4.5.2.3	SB-125	OH207-7844-08	09/24/07 21:55	-0.012	0.033	0.033	0.055
DOE 4.5.2.3	CS-137	OH207-7844-08	09/24/07 21:55	5.7e-04	0.014	0.014	0.025
DOE 4.5.2.3	EU-155	OH207-7844-08	09/24/07 21:55	0.015	0.047	0.047	0.079
DOE 4.5.2.3	TL-208	OH207-7844-08	09/24/07 21:55	0.207	0.034	0.040	0.021
DOE 4.5.2.3	PO-209	OH207-7844-08	09/24/07 21:55	1.45	2.46	2.47	4.49
DOE 4.5.2.3	BI-211	OH207-7844-08	09/24/07 21:55	-0.226	0.345	0.346	0.572
DOE 4.5.2.3	BI-212	OH207-7844-08	09/24/07 21:55	0.297	0.171	0.174	0.150
DOE 4.5.2.3	PB-212	OH207-7844-08	09/24/07 21:55	0.574	0.058	0.081	0.034
DOE 4.5.2.3	BI-214	OH207-7844-08	09/24/07 21:55	0.342	0.061	0.070	0.043
DOE 4.5.2.3	PB-214	OH207-7844-08	09/24/07 21:55	0.444	0.063	0.077	0.040
DOE 4.5.2.3	RA-223	OH207-7844-08	09/24/07 21:55	0.267	0.121	0.124	0.103
DOE 4.5.2.3	AC-228	OH207-7844-08	09/24/07 21:55	0.654	0.131	0.147	0.082
DOE 4.5.2.3	PA-233	OH207-7844-08	09/24/07 21:55	0.007	0.022	0.022	0.039
DOE 4.5.2.3	PA-234M	OH207-7844-08	09/24/07 21:55	0.636	1.49	1.49	2.70
DOE 4.5.2.3	TH-234	OH207-7844-08	09/24/07 21:55	1.07	0.379	0.394	0.461
DOE 4.5.2.3	U-235	OH207-7844-08	09/24/07 21:55	0.041	0.081	0.082	0.135
DOE 4.5.2.3	NP-236	OH207-7844-08	09/24/07 21:55	0.009	0.030	0.030	0.045
DOE 4.5.2.3	NP-237	OH207-7844-08	09/24/07 21:55	0.213	0.091	0.093	0.180
DOE 4.5.2.3	NP-239	OH207-7844-08	09/24/07 21:55	-0.012	0.081	0.081	0.140
DOE 4.5.2.3	AM-241	OH207-7844-08	09/24/07 21:55	-0.049	0.067	0.067	0.111
DOE 4.5.2.3	AM-243	OH207-7844-08	09/24/07 21:55	0.118	0.037	0.039	0.039
DOE 4.5.2.3	CM-243/244	OH207-7844-08	09/24/07 21:55	0.013	0.042	0.042	0.072
DOE 4.5.2.3	AM-246	OH207-7844-08	09/24/07 21:55	-0.017	0.042	0.042	0.071
DOE 4.5.2.3	CF-249	OH207-7844-08	09/24/07 21:55	0.008	0.015	0.015	0.026

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2008-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-09	09/24/07 21:56	3.17	0.431	0.535	0.219
DOE 4.5.2.3	CO-60	OH207-7844-09	09/24/07 21:56	0.012	0.015	0.015	0.026
DOE 4.5.2.3	RH-101	OH207-7844-09	09/24/07 21:56	1.5e-04	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7844-09	09/24/07 21:56	0.008	0.038	0.038	0.067
DOE 4.5.2.3	CS-137	OH207-7844-09	09/24/07 21:56	0.033	0.024	0.024	0.029
DOE 4.5.2.3	EU-155	OH207-7844-09	09/24/07 21:56	-0.024	0.042	0.043	0.072
DOE 4.5.2.3	TL-208	OH207-7844-09	09/24/07 21:56	0.180	0.037	0.041	0.027
DOE 4.5.2.3	PO-209	OH207-7844-09	09/24/07 21:56	0.917	2.69	2.69	5.00
DOE 4.5.2.3	BI-211	OH207-7844-09	09/24/07 21:56	-0.314	0.472	0.473	0.766
DOE 4.5.2.3	BI-212	OH207-7844-09	09/24/07 21:56	0.288	0.148	0.151	0.280
DOE 4.5.2.3	PB-212	OH207-7844-09	09/24/07 21:56	0.544	0.061	0.082	0.040
DOE 4.5.2.3	BI-214	OH207-7844-09	09/24/07 21:56	0.310	0.064	0.071	0.049
DOE 4.5.2.3	PB-214	OH207-7844-09	09/24/07 21:56	0.336	0.063	0.071	0.049
DOE 4.5.2.3	RA-223	OH207-7844-09	09/24/07 21:56	0.163	0.113	0.114	0.124
DOE 4.5.2.3	AC-228	OH207-7844-09	09/24/07 21:56	0.604	0.120	0.134	0.083
DOE 4.5.2.3	PA-233	OH207-7844-09	09/24/07 21:56	0.016	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7844-09	09/24/07 21:56	-0.589	1.75	1.75	3.12
DOE 4.5.2.3	TH-234	OH207-7844-09	09/24/07 21:56	0.463	0.305	0.308	0.343
DOE 4.5.2.3	U-235	OH207-7844-09	09/24/07 21:56	-0.030	0.091	0.091	0.153
DOE 4.5.2.3	NP-236	OH207-7844-09	09/24/07 21:56	-0.002	0.026	0.026	0.040
DOE 4.5.2.3	NP-237	OH207-7844-09	09/24/07 21:56	0.176	0.103	0.104	0.160
DOE 4.5.2.3	NP-239	OH207-7844-09	09/24/07 21:56	-0.030	0.097	0.097	0.162
DOE 4.5.2.3	AM-241	OH207-7844-09	09/24/07 21:56	0.030	0.030	0.030	0.046
DOE 4.5.2.3	AM-243	OH207-7844-09	09/24/07 21:56	0.095	0.033	0.035	0.026
DOE 4.5.2.3	CM-243/244	OH207-7844-09	09/24/07 21:56	0.012	0.038	0.038	0.067
DOE 4.5.2.3	AM-246	OH207-7844-09	09/24/07 21:56	0.027	0.049	0.049	0.093
DOE 4.5.2.3	CF-249	OH207-7844-09	09/24/07 21:56	0.010	0.017	0.017	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2009-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-10	09/25/07 09:41	4.18	0.488	0.643	0.176
DOE 4.5.2.3	CO-60	OH207-7844-10	09/25/07 09:41	0.003	0.015	0.015	0.023
DOE 4.5.2.3	RH-101	OH207-7844-10	09/25/07 09:41	0.003	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7844-10	09/25/07 09:41	-0.009	0.040	0.040	0.069
DOE 4.5.2.3	CS-137	OH207-7844-10	09/25/07 09:41	0.045	0.035	0.036	0.029
DOE 4.5.2.3	EU-155	OH207-7844-10	09/25/07 09:41	0.043	0.042	0.043	0.075
DOE 4.5.2.3	TL-208	OH207-7844-10	09/25/07 09:41	0.177	0.037	0.041	0.026
DOE 4.5.2.3	PO-209	OH207-7844-10	09/25/07 09:41	-0.752	2.82	2.82	4.94
DOE 4.5.2.3	BI-211	OH207-7844-10	09/25/07 09:41	-0.118	0.424	0.424	0.714
DOE 4.5.2.3	BI-212	OH207-7844-10	09/25/07 09:41	0.326	0.199	0.201	0.226
DOE 4.5.2.3	PB-212	OH207-7844-10	09/25/07 09:41	0.578	0.062	0.085	0.042
DOE 4.5.2.3	BI-214	OH207-7844-10	09/25/07 09:41	0.387	0.070	0.080	0.046
DOE 4.5.2.3	PB-214	OH207-7844-10	09/25/07 09:41	0.447	0.078	0.090	0.049
DOE 4.5.2.3	RA-223	OH207-7844-10	09/25/07 09:41	0.120	0.117	0.118	0.127
DOE 4.5.2.3	AC-228	OH207-7844-10	09/25/07 09:41	0.650	0.129	0.145	0.096
DOE 4.5.2.3	PA-233	OH207-7844-10	09/25/07 09:41	5.7e-04	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7844-10	09/25/07 09:41	1.17	1.68	1.68	3.23
DOE 4.5.2.3	TH-234	OH207-7844-10	09/25/07 09:41	0.649	0.288	0.296	0.313
DOE 4.5.2.3	U-235	OH207-7844-10	09/25/07 09:41	0.024	0.089	0.089	0.153
DOE 4.5.2.3	NP-236	OH207-7844-10	09/25/07 09:41	0.016	0.026	0.026	0.040
DOE 4.5.2.3	NP-237	OH207-7844-10	09/25/07 09:41	0.290	0.102	0.106	0.147
DOE 4.5.2.3	NP-239	OH207-7844-10	09/25/07 09:41	0.019	0.097	0.097	0.165
DOE 4.5.2.3	AM-241	OH207-7844-10	09/25/07 09:41	0.036	0.030	0.030	0.046
DOE 4.5.2.3	AM-243	OH207-7844-10	09/25/07 09:41	0.109	0.032	0.033	0.026
DOE 4.5.2.3	CM-243/244	OH207-7844-10	09/25/07 09:41	0.009	0.038	0.038	0.066
DOE 4.5.2.3	AM-246	OH207-7844-10	09/25/07 09:41	0.014	0.053	0.053	0.097
DOE 4.5.2.3	CF-249	OH207-7844-10	09/25/07 09:41	0.005	0.017	0.017	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2010-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-11	09/25/07 12:45	5.11	0.534	0.738	0.174
DOE 4.5.2.3	CO-60	OH207-7844-11	09/25/07 12:45	7.1e-04	0.017	0.017	0.023
DOE 4.5.2.3	RH-101	OH207-7844-11	09/25/07 12:45	-0.004	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7844-11	09/25/07 12:45	0.008	0.037	0.037	0.065
DOE 4.5.2.3	CS-137	OH207-7844-11	09/25/07 12:45	0.037	0.032	0.033	0.027
DOE 4.5.2.3	EU-155	OH207-7844-11	09/25/07 12:45	0.016	0.042	0.042	0.073
DOE 4.5.2.3	TL-208	OH207-7844-11	09/25/07 12:45	0.203	0.037	0.042	0.025
DOE 4.5.2.3	PO-209	OH207-7844-11	09/25/07 12:45	-0.425	2.56	2.56	4.52
DOE 4.5.2.3	BI-211	OH207-7844-11	09/25/07 12:45	0.228	0.430	0.431	0.766
DOE 4.5.2.3	BI-212	OH207-7844-11	09/25/07 12:45	0.542	0.230	0.236	0.180
DOE 4.5.2.3	PB-212	OH207-7844-11	09/25/07 12:45	0.589	0.062	0.085	0.039
DOE 4.5.2.3	BI-214	OH207-7844-11	09/25/07 12:45	0.356	0.070	0.079	0.049
DOE 4.5.2.3	PB-214	OH207-7844-11	09/25/07 12:45	0.388	0.061	0.072	0.051
DOE 4.5.2.3	RA-223	OH207-7844-11	09/25/07 12:45	0.119	0.140	0.140	0.120
DOE 4.5.2.3	AC-228	OH207-7844-11	09/25/07 12:45	0.687	0.126	0.143	0.090
DOE 4.5.2.3	PA-233	OH207-7844-11	09/25/07 12:45	0.017	0.026	0.026	0.046
DOE 4.5.2.3	PA-234M	OH207-7844-11	09/25/07 12:45	0.596	1.63	1.64	3.05
DOE 4.5.2.3	TH-234	OH207-7844-11	09/25/07 12:45	0.617	0.294	0.300	0.283
DOE 4.5.2.3	U-235	OH207-7844-11	09/25/07 12:45	-0.021	0.086	0.086	0.146
DOE 4.5.2.3	NP-236	OH207-7844-11	09/25/07 12:45	0.010	0.027	0.027	0.040
DOE 4.5.2.3	NP-237	OH207-7844-11	09/25/07 12:45	0.320	0.117	0.121	0.123
DOE 4.5.2.3	NP-239	OH207-7844-11	09/25/07 12:45	0.054	0.098	0.098	0.168
DOE 4.5.2.3	AM-241	OH207-7844-11	09/25/07 12:45	0.042	0.029	0.029	0.044
DOE 4.5.2.3	AM-243	OH207-7844-11	09/25/07 12:45	0.108	0.030	0.032	0.024
DOE 4.5.2.3	CM-243/244	OH207-7844-11	09/25/07 12:45	0.012	0.038	0.038	0.065
DOE 4.5.2.3	AM-246	OH207-7844-11	09/25/07 12:45	-0.009	0.052	0.052	0.090
DOE 4.5.2.3	CF-249	OH207-7844-11	09/25/07 12:45	-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-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2011-SD

Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7844 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	OH207-7844-12	09/25/07 15:49	4.25	0.522	0.673	0.282
DOE 4.5.2.3	CO-60	OH207-7844-12	09/25/07 15:49	0.007	0.017	0.017	0.032
DOE 4.5.2.3	RH-101	OH207-7844-12	09/25/07 15:49	0.003	0.016	0.016	0.028
DOE 4.5.2.3	SB-125	OH207-7844-12	09/25/07 15:49	-0.011	0.041	0.041	0.071
DOE 4.5.2.3	CS-137	OH207-7844-12	09/25/07 15:49	0.074	0.024	0.025	0.032
DOE 4.5.2.3	EU-155	OH207-7844-12	09/25/07 15:49	0.031	0.046	0.046	0.081
DOE 4.5.2.3	TL-208	OH207-7844-12	09/25/07 15:49	0.218	0.047	0.052	0.030
DOE 4.5.2.3	PO-209	OH207-7844-12	09/25/07 15:49	1.09	3.24	3.24	5.94
DOE 4.5.2.3	BI-211	OH207-7844-12	09/25/07 15:49	-0.017	0.527	0.527	0.900
DOE 4.5.2.3	BI-212	OH207-7844-12	09/25/07 15:49	0.446	0.196	0.201	0.194
DOE 4.5.2.3	PB-212	OH207-7844-12	09/25/07 15:49	0.662	0.070	0.097	0.043
DOE 4.5.2.3	BI-214	OH207-7844-12	09/25/07 15:49	0.369	0.063	0.073	0.056
DOE 4.5.2.3	PB-214	OH207-7844-12	09/25/07 15:49	0.459	0.074	0.087	0.055
DOE 4.5.2.3	RA-223	OH207-7844-12	09/25/07 15:49	0.230	0.114	0.116	0.140
DOE 4.5.2.3	AC-228	OH207-7844-12	09/25/07 15:49	0.754	0.146	0.164	0.106
DOE 4.5.2.3	PA-233	OH207-7844-12	09/25/07 15:49	-0.001	0.031	0.031	0.052
DOE 4.5.2.3	PA-234M	OH207-7844-12	09/25/07 15:49	0.887	2.03	2.03	3.80
DOE 4.5.2.3	TH-234	OH207-7844-12	09/25/07 15:49	0.501	0.315	0.319	0.378
DOE 4.5.2.3	U-235	OH207-7844-12	09/25/07 15:49	-0.056	0.098	0.098	0.163
DOE 4.5.2.3	NP-236	OH207-7844-12	09/25/07 15:49	0.012	0.030	0.030	0.046
DOE 4.5.2.3	NP-237	OH207-7844-12	09/25/07 15:49	0.245	0.116	0.119	0.158
DOE 4.5.2.3	NP-239	OH207-7844-12	09/25/07 15:49	0.076	0.105	0.105	0.182
DOE 4.5.2.3	AM-241	OH207-7844-12	09/25/07 15:49	0.049	0.033	0.033	0.050
DOE 4.5.2.3	AM-243	OH207-7844-12	09/25/07 15:49	0.113	0.033	0.035	0.028
DOE 4.5.2.3	CM-243/244	OH207-7844-12	09/25/07 15:49	0.019	0.042	0.042	0.074
DOE 4.5.2.3	AM-246	OH207-7844-12	09/25/07 15:49	0.004	0.054	0.054	0.097
DOE 4.5.2.3	CF-249	OH207-7844-12	09/25/07 15:49	-0.004	0.018	0.018	0.030

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2012-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-13	09/25/07 20:47	3.35	0.468	0.576	0.194
DOE 4.5.2.3	CO-60	OH207-7844-13	09/25/07 20:47	0.006	0.016	0.016	0.023
DOE 4.5.2.3	RH-101	OH207-7844-13	09/25/07 20:47	-0.006	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7844-13	09/25/07 20:47	0.004	0.039	0.039	0.069
DOE 4.5.2.3	CS-137	OH207-7844-13	09/25/07 20:47	0.069	0.023	0.024	0.030
DOE 4.5.2.3	EU-155	OH207-7844-13	09/25/07 20:47	0.045	0.041	0.041	0.073
DOE 4.5.2.3	TL-208	OH207-7844-13	09/25/07 20:47	0.193	0.032	0.037	0.025
DOE 4.5.2.3	PO-209	OH207-7844-13	09/25/07 20:47	-0.964	2.92	2.92	5.08
DOE 4.5.2.3	BI-211	OH207-7844-13	09/25/07 20:47	-0.303	0.436	0.437	0.706
DOE 4.5.2.3	BI-212	OH207-7844-13	09/25/07 20:47	0.349	0.187	0.190	0.199
DOE 4.5.2.3	PB-212	OH207-7844-13	09/25/07 20:47	0.590	0.063	0.086	0.038
DOE 4.5.2.3	BI-214	OH207-7844-13	09/25/07 20:47	0.281	0.060	0.066	0.047
DOE 4.5.2.3	PB-214	OH207-7844-13	09/25/07 20:47	0.355	0.067	0.076	0.047
DOE 4.5.2.3	RA-223	OH207-7844-13	09/25/07 20:47	0.265	0.146	0.148	0.128
DOE 4.5.2.3	AC-228	OH207-7844-13	09/25/07 20:47	0.576	0.132	0.144	0.101
DOE 4.5.2.3	PA-233	OH207-7844-13	09/25/07 20:47	-8.6e-04	0.027	0.027	0.046
DOE 4.5.2.3	PA-234M	OH207-7844-13	09/25/07 20:47	2.23	1.78	1.80	3.55
DOE 4.5.2.3	TH-234	OH207-7844-13	09/25/07 20:47	0.500	0.236	0.241	0.410
DOE 4.5.2.3	U-235	OH207-7844-13	09/25/07 20:47	0.041	0.091	0.091	0.156
DOE 4.5.2.3	NP-236	OH207-7844-13	09/25/07 20:47	0.006	0.027	0.027	0.040
DOE 4.5.2.3	NP-237	OH207-7844-13	09/25/07 20:47	0.264	0.113	0.116	0.129
DOE 4.5.2.3	NP-239	OH207-7844-13	09/25/07 20:47	0.037	0.093	0.093	0.160
DOE 4.5.2.3	AM-241	OH207-7844-13	09/25/07 20:47	-0.099	0.031	0.033	0.045
DOE 4.5.2.3	AM-243	OH207-7844-13	09/25/07 20:47	0.088	0.027	0.028	0.025
DOE 4.5.2.3	CM-243/244	OH207-7844-13	09/25/07 20:47	0.002	0.037	0.037	0.065
DOE 4.5.2.3	AM-246	OH207-7844-13	09/25/07 20:47	0.007	0.055	0.055	0.099
DOE 4.5.2.3	CF-249	OH207-7844-13	09/25/07 20:47	-0.002	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2013-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-14	09/26/07 10:00	5.77	0.621	0.848	0.254
DOE 4.5.2.3	CO-60	OH207-7844-14	09/26/07 10:00	-0.012	0.017	0.017	0.028
DOE 4.5.2.3	RH-101	OH207-7844-14	09/26/07 10:00	-0.001	0.016	0.016	0.028
DOE 4.5.2.3	SB-125	OH207-7844-14	09/26/07 10:00	-0.009	0.042	0.042	0.073
DOE 4.5.2.3	CS-137	OH207-7844-14	09/26/07 10:00	0.016	0.017	0.017	0.031
DOE 4.5.2.3	EU-155	OH207-7844-14	09/26/07 10:00	0.016	0.049	0.049	0.085
DOE 4.5.2.3	TL-208	OH207-7844-14	09/26/07 10:00	0.275	0.040	0.049	0.027
DOE 4.5.2.3	PO-209	OH207-7844-14	09/26/07 10:00	0.614	3.36	3.36	6.04
DOE 4.5.2.3	BI-211	OH207-7844-14	09/26/07 10:00	-0.075	0.519	0.519	0.877
DOE 4.5.2.3	BI-212	OH207-7844-14	09/26/07 10:00	0.219	0.210	0.211	0.221
DOE 4.5.2.3	PB-212	OH207-7844-14	09/26/07 10:00	0.814	0.081	0.115	0.047
DOE 4.5.2.3	BI-214	OH207-7844-14	09/26/07 10:00	0.462	0.091	0.102	0.055
DOE 4.5.2.3	PB-214	OH207-7844-14	09/26/07 10:00	0.484	0.076	0.090	0.055
DOE 4.5.2.3	RA-223	OH207-7844-14	09/26/07 10:00	0.411	0.150	0.155	0.142
DOE 4.5.2.3	AC-228	OH207-7844-14	09/26/07 10:00	0.908	0.138	0.165	0.096
DOE 4.5.2.3	PA-233	OH207-7844-14	09/26/07 10:00	0.011	0.031	0.031	0.053
DOE 4.5.2.3	PA-234M	OH207-7844-14	09/26/07 10:00	1.31	1.96	1.96	3.70
DOE 4.5.2.3	TH-234	OH207-7844-14	09/26/07 10:00	0.782	0.326	0.336	0.325
DOE 4.5.2.3	U-235	OH207-7844-14	09/26/07 10:00	0.141	0.105	0.106	0.183
DOE 4.5.2.3	NP-236	OH207-7844-14	09/26/07 10:00	0.024	0.032	0.033	0.048
DOE 4.5.2.3	NP-237	OH207-7844-14	09/26/07 10:00	0.451	0.131	0.139	0.141
DOE 4.5.2.3	NP-239	OH207-7844-14	09/26/07 10:00	0.033	0.108	0.108	0.185
DOE 4.5.2.3	AM-241	OH207-7844-14	09/26/07 10:00	0.006	0.035	0.035	0.051
DOE 4.5.2.3	AM-243	OH207-7844-14	09/26/07 10:00	0.148	0.039	0.042	0.028
DOE 4.5.2.3	CM-243/244	OH207-7844-14	09/26/07 10:00	-0.007	0.044	0.044	0.075
DOE 4.5.2.3	AM-246	OH207-7844-14	09/26/07 10:00	0.034	0.061	0.061	0.112
DOE 4.5.2.3	CF-249	OH207-7844-14	09/26/07 10:00	-7.2e-04	0.019	0.019	0.034

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2014-SD
Other Sample ID: Collection Date: 8/16/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-15	09/26/07 13:02	4.56	0.506	0.682	0.130
DOE 4.5.2.3	CO-60	OH207-7844-15	09/26/07 13:02	-0.005	0.017	0.017	0.027
DOE 4.5.2.3	RH-101	OH207-7844-15	09/26/07 13:02	-0.010	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	OH207-7844-15	09/26/07 13:02	0.020	0.040	0.040	0.071
DOE 4.5.2.3	CS-137	OH207-7844-15	09/26/07 13:02	0.056	0.028	0.029	0.028
DOE 4.5.2.3	EU-155	OH207-7844-15	09/26/07 13:02	0.014	0.043	0.043	0.074
DOE 4.5.2.3	TL-208	OH207-7844-15	09/26/07 13:02	0.214	0.039	0.044	0.026
DOE 4.5.2.3	PO-209	OH207-7844-15	09/26/07 13:02	1.59	3.04	3.05	5.62
DOE 4.5.2.3	BI-211	OH207-7844-15	09/26/07 13:02	0.044	0.425	0.425	0.739
DOE 4.5.2.3	BI-212	OH207-7844-15	09/26/07 13:02	0.461	0.241	0.246	0.202
DOE 4.5.2.3	PB-212	OH207-7844-15	09/26/07 13:02	0.671	0.070	0.097	0.041
DOE 4.5.2.3	BI-214	OH207-7844-15	09/26/07 13:02	0.473	0.076	0.089	0.049
DOE 4.5.2.3	PB-214	OH207-7844-15	09/26/07 13:02	0.432	0.080	0.091	0.051
DOE 4.5.2.3	RA-223	OH207-7844-15	09/26/07 13:02	0.289	0.147	0.150	0.128
DOE 4.5.2.3	AC-228	OH207-7844-15	09/26/07 13:02	0.603	0.147	0.159	0.090
DOE 4.5.2.3	PA-233	OH207-7844-15	09/26/07 13:02	0.005	0.028	0.028	0.048
DOE 4.5.2.3	PA-234M	OH207-7844-15	09/26/07 13:02	-0.421	1.76	1.76	3.15
DOE 4.5.2.3	TH-234	OH207-7844-15	09/26/07 13:02	0.960	0.355	0.368	0.295
DOE 4.5.2.3	U-235	OH207-7844-15	09/26/07 13:02	0.066	0.092	0.092	0.160
DOE 4.5.2.3	NP-236	OH207-7844-15	09/26/07 13:02	0.034	0.028	0.028	0.043
DOE 4.5.2.3	NP-237	OH207-7844-15	09/26/07 13:02	0.330	0.096	0.101	0.130
DOE 4.5.2.3	NP-239	OH207-7844-15	09/26/07 13:02	-0.074	0.103	0.103	0.169
DOE 4.5.2.3	AM-241	OH207-7844-15	09/26/07 13:02	0.003	0.032	0.032	0.046
DOE 4.5.2.3	AM-243	OH207-7844-15	09/26/07 13:02	0.123	0.036	0.038	0.026
DOE 4.5.2.3	CM-243/244	OH207-7844-15	09/26/07 13:02	0.004	0.039	0.039	0.067
DOE 4.5.2.3	AM-246	OH207-7844-15	09/26/07 13:02	0.027	0.051	0.051	0.096
DOE 4.5.2.3	CF-249	OH207-7844-15	09/26/07 13:02	-0.005	0.017	0.017	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2015SD

Other Sample ID: Collection Date: 8/20/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7844 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	OH207-7844-16	09/26/07 16:04	2.18	0.354	0.416	0.212
DOE 4.5.2.3	CO-60	OH207-7844-16	09/26/07 16:04	-0.003	0.015	0.015	0.027
DOE 4.5.2.3	RH-101	OH207-7844-16	09/26/07 16:04	-0.006	0.017	0.017	0.028
DOE 4.5.2.3	SB-125	OH207-7844-16	09/26/07 16:04	-0.023	0.046	0.046	0.078
DOE 4.5.2.3	CS-137	OH207-7844-16	09/26/07 16:04	0.128	0.044	0.046	0.031
DOE 4.5.2.3	EU-155	OH207-7844-16	09/26/07 16:04	0.027	0.045	0.045	0.080
DOE 4.5.2.3	TL-208	OH207-7844-16	09/26/07 16:04	0.156	0.036	0.039	0.032
DOE 4.5.2.3	PO-209	OH207-7844-16	09/26/07 16:04	-0.643	3.10	3.10	5.52
DOE 4.5.2.3	BI-211	OH207-7844-16	09/26/07 16:04	-0.425	0.520	0.521	0.831
DOE 4.5.2.3	BI-212	OH207-7844-16	09/26/07 16:04	0.414	0.209	0.213	0.242
DOE 4.5.2.3	PB-212	OH207-7844-16	09/26/07 16:04	0.600	0.085	0.104	0.046
DOE 4.5.2.3	BI-214	OH207-7844-16	09/26/07 16:04	0.260	0.063	0.069	0.054
DOE 4.5.2.3	PB-214	OH207-7844-16	09/26/07 16:04	0.237	0.063	0.067	0.054
DOE 4.5.2.3	RA-223	OH207-7844-16	09/26/07 16:04	0.075	0.108	0.109	0.165
DOE 4.5.2.3	AC-228	OH207-7844-16	09/26/07 16:04	0.658	0.144	0.158	0.098
DOE 4.5.2.3	PA-233	OH207-7844-16	09/26/07 16:04	-0.007	0.030	0.030	0.050
DOE 4.5.2.3	PA-234M	OH207-7844-16	09/26/07 16:04	0.912	1.86	1.86	3.63
DOE 4.5.2.3	TH-234	OH207-7844-16	09/26/07 16:04	0.560	0.334	0.339	0.483
DOE 4.5.2.3	U-235	OH207-7844-16	09/26/07 16:04	0.020	0.100	0.100	0.171
DOE 4.5.2.3	NP-236	OH207-7844-16	09/26/07 16:04	0.018	0.028	0.028	0.046
DOE 4.5.2.3	NP-237	OH207-7844-16	09/26/07 16:04	0.184	0.121	0.123	0.152
DOE 4.5.2.3	NP-239	OH207-7844-16	09/26/07 16:04	0.041	0.105	0.105	0.182
DOE 4.5.2.3	AM-241	OH207-7844-16	09/26/07 16:04	-0.114	0.036	0.038	0.052
DOE 4.5.2.3	AM-243	OH207-7844-16	09/26/07 16:04	0.093	0.034	0.035	0.027
DOE 4.5.2.3	CM-243/244	OH207-7844-16	09/26/07 16:04	-0.004	0.041	0.041	0.072
DOE 4.5.2.3	AM-246	OH207-7844-16	09/26/07 16:04	0.013	0.057	0.057	0.106
DOE 4.5.2.3	CF-249	OH207-7844-16	09/26/07 16:04	-0.014	0.020	0.020	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2016-SD

Other Sample ID: Collection Date: 8/20/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7844 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	OH207-7844-17	09/26/07 19:59	2.12	0.350	0.409	0.136
DOE 4.5.2.3	CO-60	OH207-7844-17	09/26/07 19:59	-0.008	0.011	0.011	0.019
DOE 4.5.2.3	RH-101	OH207-7844-17	09/26/07 19:59	2.5e-04	0.012	0.012	0.020
DOE 4.5.2.3	SB-125	OH207-7844-17	09/26/07 19:59	0.003	0.033	0.033	0.057
DOE 4.5.2.3	CS-137	OH207-7844-17	09/26/07 19:59	0.130	0.028	0.031	0.023
DOE 4.5.2.3	EU-155	OH207-7844-17	09/26/07 19:59	0.013	0.043	0.043	0.072
DOE 4.5.2.3	TL-208	OH207-7844-17	09/26/07 19:59	0.148	0.032	0.035	0.021
DOE 4.5.2.3	PO-209	OH207-7844-17	09/26/07 19:59	0.768	2.21	2.21	4.05
DOE 4.5.2.3	BI-211	OH207-7844-17	09/26/07 19:59	-0.256	0.326	0.327	0.534
DOE 4.5.2.3	BI-212	OH207-7844-17	09/26/07 19:59	0.359	0.144	0.148	0.165
DOE 4.5.2.3	PB-212	OH207-7844-17	09/26/07 19:59	0.398	0.047	0.061	0.033
DOE 4.5.2.3	BI-214	OH207-7844-17	09/26/07 19:59	0.322	0.062	0.070	0.036
DOE 4.5.2.3	PB-214	OH207-7844-17	09/26/07 19:59	0.304	0.050	0.059	0.039
DOE 4.5.2.3	RA-223	OH207-7844-17	09/26/07 19:59	0.155	0.064	0.066	0.119
DOE 4.5.2.3	AC-228	OH207-7844-17	09/26/07 19:59	0.471	0.102	0.112	0.071
DOE 4.5.2.3	PA-233	OH207-7844-17	09/26/07 19:59	0.004	0.022	0.022	0.038
DOE 4.5.2.3	PA-234M	OH207-7844-17	09/26/07 19:59	-0.346	1.29	1.29	2.24
DOE 4.5.2.3	TH-234	OH207-7844-17	09/26/07 19:59	0.565	0.274	0.280	0.420
DOE 4.5.2.3	U-235	OH207-7844-17	09/26/07 19:59	0.077	0.080	0.080	0.134
DOE 4.5.2.3	NP-236	OH207-7844-17	09/26/07 19:59	0.027	0.026	0.026	0.043
DOE 4.5.2.3	NP-237	OH207-7844-17	09/26/07 19:59	0.207	0.131	0.133	0.152
DOE 4.5.2.3	NP-239	OH207-7844-17	09/26/07 19:59	-0.020	0.074	0.074	0.127
DOE 4.5.2.3	AM-241	OH207-7844-17	09/26/07 19:59	-0.085	0.063	0.064	0.102
DOE 4.5.2.3	AM-243	OH207-7844-17	09/26/07 19:59	0.083	0.032	0.033	0.037
DOE 4.5.2.3	CM-243/244	OH207-7844-17	09/26/07 19:59	0.013	0.038	0.038	0.065
DOE 4.5.2.3	AM-246	OH207-7844-17	09/26/07 19:59	0.033	0.038	0.038	0.073
DOE 4.5.2.3	CF-249	OH207-7844-17	09/26/07 19:59	-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-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2017-SD

Other Sample ID: Collection Date: 8/20/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7844 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	OH207-7844-18	09/26/07 20:01	2.87	0.383	0.478	0.180
DOE 4.5.2.3	CO-60	OH207-7844-18	09/26/07 20:01	-0.003	0.013	0.013	0.020
DOE 4.5.2.3	RH-101	OH207-7844-18	09/26/07 20:01	0.003	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7844-18	09/26/07 20:01	-0.007	0.033	0.033	0.058
DOE 4.5.2.3	CS-137	OH207-7844-18	09/26/07 20:01	0.052	0.027	0.028	0.022
DOE 4.5.2.3	EU-155	OH207-7844-18	09/26/07 20:01	0.042	0.039	0.039	0.068
DOE 4.5.2.3	TL-208	OH207-7844-18	09/26/07 20:01	0.159	0.034	0.038	0.023
DOE 4.5.2.3	PO-209	OH207-7844-18	09/26/07 20:01	-1.83	2.56	2.57	4.29
DOE 4.5.2.3	BI-211	OH207-7844-18	09/26/07 20:01	0.014	0.430	0.430	0.738
DOE 4.5.2.3	BI-212	OH207-7844-18	09/26/07 20:01	0.288	0.139	0.142	0.189
DOE 4.5.2.3	PB-212	OH207-7844-18	09/26/07 20:01	0.484	0.054	0.073	0.036
DOE 4.5.2.3	BI-214	OH207-7844-18	09/26/07 20:01	0.316	0.061	0.069	0.045
DOE 4.5.2.3	PB-214	OH207-7844-18	09/26/07 20:01	0.419	0.060	0.073	0.043
DOE 4.5.2.3	RA-223	OH207-7844-18	09/26/07 20:01	0.147	0.078	0.080	0.139
DOE 4.5.2.3	AC-228	OH207-7844-18	09/26/07 20:01	0.620	0.111	0.127	0.080
DOE 4.5.2.3	PA-233	OH207-7844-18	09/26/07 20:01	-0.042	0.026	0.026	0.039
DOE 4.5.2.3	PA-234M	OH207-7844-18	09/26/07 20:01	0.975	1.64	1.64	3.12
DOE 4.5.2.3	TH-234	OH207-7844-18	09/26/07 20:01	0.539	0.276	0.281	0.311
DOE 4.5.2.3	U-235	OH207-7844-18	09/26/07 20:01	-0.090	0.085	0.085	0.139
DOE 4.5.2.3	NP-236	OH207-7844-18	09/26/07 20:01	-0.001	0.025	0.025	0.036
DOE 4.5.2.3	NP-237	OH207-7844-18	09/26/07 20:01	0.149	0.105	0.106	0.130
DOE 4.5.2.3	NP-239	OH207-7844-18	09/26/07 20:01	0.032	0.087	0.087	0.148
DOE 4.5.2.3	AM-241	OH207-7844-18	09/26/07 20:01	0.019	0.027	0.027	0.040
DOE 4.5.2.3	AM-243	OH207-7844-18	09/26/07 20:01	0.064	0.022	0.023	0.023
DOE 4.5.2.3	CM-243/244	OH207-7844-18	09/26/07 20:01	0.026	0.034	0.035	0.061
DOE 4.5.2.3	AM-246	OH207-7844-18	09/26/07 20:01	0.023	0.044	0.044	0.083
DOE 4.5.2.3	CF-249	OH207-7844-18	09/26/07 20:01	0.015	0.016	0.016	0.029

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2018-SD
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-19	09/27/07 09:35	1.93	0.477	0.515	0.280
DOE 4.5.2.3	CO-60	OH207-7844-19	09/27/07 09:35	-0.014	0.019	0.019	0.031
DOE 4.5.2.3	RH-101	OH207-7844-19	09/27/07 09:35	0.011	0.018	0.018	0.030
DOE 4.5.2.3	SB-125	OH207-7844-19	09/27/07 09:35	-0.013	0.046	0.046	0.080
DOE 4.5.2.3	CS-137	OH207-7844-19	09/27/07 09:35	0.064	0.034	0.034	0.034
DOE 4.5.2.3	EU-155	OH207-7844-19	09/27/07 09:35	-0.002	0.050	0.050	0.086
DOE 4.5.2.3	TL-208	OH207-7844-19	09/27/07 09:35	0.234	0.043	0.049	0.031
DOE 4.5.2.3	PO-209	OH207-7844-19	09/27/07 09:35	1.85	3.07	3.08	5.81
DOE 4.5.2.3	BI-211	OH207-7844-19	09/27/07 09:35	-0.193	0.528	0.528	0.881
DOE 4.5.2.3	BI-212	OH207-7844-19	09/27/07 09:35	0.590	0.208	0.217	0.208
DOE 4.5.2.3	PB-212	OH207-7844-19	09/27/07 09:35	0.713	0.076	0.104	0.047
DOE 4.5.2.3	BI-214	OH207-7844-19	09/27/07 09:35	0.562	0.090	0.106	0.055
DOE 4.5.2.3	PB-214	OH207-7844-19	09/27/07 09:35	0.556	0.097	0.112	0.060
DOE 4.5.2.3	RA-223	OH207-7844-19	09/27/07 09:35	0.165	0.144	0.145	0.146
DOE 4.5.2.3	AC-228	OH207-7844-19	09/27/07 09:35	0.686	0.144	0.159	0.120
DOE 4.5.2.3	PA-233	OH207-7844-19	09/27/07 09:35	-0.033	0.032	0.033	0.052
DOE 4.5.2.3	PA-234M	OH207-7844-19	09/27/07 09:35	-0.691	2.13	2.13	3.78
DOE 4.5.2.3	TH-234	OH207-7844-19	09/27/07 09:35	0.914	0.380	0.391	0.324
DOE 4.5.2.3	U-235	OH207-7844-19	09/27/07 09:35	0.086	0.106	0.107	0.185
DOE 4.5.2.3	NP-236	OH207-7844-19	09/27/07 09:35	1.2e-05	0.033	0.033	0.048
DOE 4.5.2.3	NP-237	OH207-7844-19	09/27/07 09:35	0.451	0.122	0.130	0.138
DOE 4.5.2.3	NP-239	OH207-7844-19	09/27/07 09:35	-0.033	0.116	0.116	0.193
DOE 4.5.2.3	AM-241	OH207-7844-19	09/27/07 09:35	0.032	0.036	0.036	0.054
DOE 4.5.2.3	AM-243	OH207-7844-19	09/27/07 09:35	0.136	0.039	0.041	0.030
DOE 4.5.2.3	CM-243/244	OH207-7844-19	09/27/07 09:35	-0.035	0.045	0.046	0.077
DOE 4.5.2.3	AM-246	OH207-7844-19	09/27/07 09:35	-0.017	0.056	0.056	0.098
DOE 4.5.2.3	CF-249	OH207-7844-19	09/27/07 09:35	-0.005	0.020	0.020	0.035

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2019-SD
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7844 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	OH207-7844-20	09/27/07 09:39	2.69	0.376	0.462	0.239
DOE 4.5.2.3	CO-60	OH207-7844-20	09/27/07 09:39	0.011	0.015	0.015	0.020
DOE 4.5.2.3	RH-101	OH207-7844-20	09/27/07 09:39	-0.003	0.014	0.014	0.023
DOE 4.5.2.3	SB-125	OH207-7844-20	09/27/07 09:39	9.1e-05	0.037	0.037	0.064
DOE 4.5.2.3	CS-137	OH207-7844-20	09/27/07 09:39	0.035	0.030	0.030	0.025
DOE 4.5.2.3	EU-155	OH207-7844-20	09/27/07 09:39	0.077	0.049	0.050	0.087
DOE 4.5.2.3	TL-208	OH207-7844-20	09/27/07 09:39	0.221	0.042	0.047	0.024
DOE 4.5.2.3	PO-209	OH207-7844-20	09/27/07 09:39	0.292	2.71	2.71	4.83
DOE 4.5.2.3	BI-211	OH207-7844-20	09/27/07 09:39	-0.097	0.380	0.380	0.658
DOE 4.5.2.3	BI-212	OH207-7844-20	09/27/07 09:39	0.348	0.208	0.211	0.175
DOE 4.5.2.3	PB-212	OH207-7844-20	09/27/07 09:39	0.655	0.068	0.094	0.036
DOE 4.5.2.3	BI-214	OH207-7844-20	09/27/07 09:39	0.649	0.098	0.118	0.043
DOE 4.5.2.3	PB-214	OH207-7844-20	09/27/07 09:39	0.640	0.077	0.100	0.044
DOE 4.5.2.3	RA-223	OH207-7844-20	09/27/07 09:39	0.162	0.114	0.115	0.116
DOE 4.5.2.3	AC-228	OH207-7844-20	09/27/07 09:39	0.724	0.123	0.143	0.091
DOE 4.5.2.3	PA-233	OH207-7844-20	09/27/07 09:39	-0.005	0.024	0.024	0.041
DOE 4.5.2.3	PA-234M	OH207-7844-20	09/27/07 09:39	0.162	1.59	1.59	2.84
DOE 4.5.2.3	TH-234	OH207-7844-20	09/27/07 09:39	0.684	0.394	0.399	0.502
DOE 4.5.2.3	U-235	OH207-7844-20	09/27/07 09:39	-0.010	0.087	0.087	0.144
DOE 4.5.2.3	NP-236	OH207-7844-20	09/27/07 09:39	0.024	0.031	0.031	0.052
DOE 4.5.2.3	NP-237	OH207-7844-20	09/27/07 09:39	0.331	0.159	0.162	0.214
DOE 4.5.2.3	NP-239	OH207-7844-20	09/27/07 09:39	0.009	0.088	0.088	0.145
DOE 4.5.2.3	AM-241	OH207-7844-20	09/27/07 09:39	0.022	0.085	0.085	0.149
DOE 4.5.2.3	AM-243	OH207-7844-20	09/27/07 09:39	0.126	0.043	0.045	0.043
DOE 4.5.2.3	CM-243/244	OH207-7844-20	09/27/07 09:39	-0.023	0.044	0.045	0.074
DOE 4.5.2.3	AM-246	OH207-7844-20	09/27/07 09:39	0.062	0.044	0.045	0.087
DOE 4.5.2.3	CF-249	OH207-7844-20	09/27/07 09:39	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-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2020-SD
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7845 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	OH207-7845-01	09/28/07 09:24	2.33	0.475	0.529	0.258
DOE 4.5.2.3	CO-60	OH207-7845-01	09/28/07 09:24	0.007	0.016	0.016	0.026
DOE 4.5.2.3	RH-101	OH207-7845-01	09/28/07 09:24	0.004	0.017	0.017	0.030
DOE 4.5.2.3	SB-125	OH207-7845-01	09/28/07 09:24	-5.4e-04	0.044	0.044	0.077
DOE 4.5.2.3	CS-137	OH207-7845-01	09/28/07 09:24	-0.011	0.019	0.019	0.031
DOE 4.5.2.3	EU-155	OH207-7845-01	09/28/07 09:24	0.075	0.053	0.054	0.094
DOE 4.5.2.3	TL-208	OH207-7845-01	09/28/07 09:24	0.290	0.050	0.058	0.032
DOE 4.5.2.3	PO-209	OH207-7845-01	09/28/07 09:24	1.92	3.36	3.37	6.28
DOE 4.5.2.3	BI-211	OH207-7845-01	09/28/07 09:24	0.194	0.520	0.520	0.922
DOE 4.5.2.3	BI-212	OH207-7845-01	09/28/07 09:24	0.422	0.222	0.226	0.232
DOE 4.5.2.3	PB-212	OH207-7845-01	09/28/07 09:24	0.794	0.097	0.125	0.067
DOE 4.5.2.3	BI-214	OH207-7845-01	09/28/07 09:24	0.385	0.080	0.089	0.058
DOE 4.5.2.3	PB-214	OH207-7845-01	09/28/07 09:24	0.394	0.075	0.084	0.056
DOE 4.5.2.3	RA-223	OH207-7845-01	09/28/07 09:24	0.320	0.166	0.169	0.142
DOE 4.5.2.3	AC-228	OH207-7845-01	09/28/07 09:24	0.948	0.171	0.195	0.113
DOE 4.5.2.3	PA-233	OH207-7845-01	09/28/07 09:24	0.006	0.032	0.032	0.055
DOE 4.5.2.3	PA-234M	OH207-7845-01	09/28/07 09:24	1.20	2.12	2.12	4.01
DOE 4.5.2.3	TH-234	OH207-7845-01	09/28/07 09:24	1.04	0.365	0.379	0.348
DOE 4.5.2.3	U-235	OH207-7845-01	09/28/07 09:24	0.029	0.107	0.107	0.182
DOE 4.5.2.3	NP-236	OH207-7845-01	09/28/07 09:24	0.024	0.033	0.033	0.049
DOE 4.5.2.3	NP-237	OH207-7845-01	09/28/07 09:24	0.528	0.164	0.173	0.152
DOE 4.5.2.3	NP-239	OH207-7845-01	09/28/07 09:24	0.061	0.113	0.113	0.195
DOE 4.5.2.3	AM-241	OH207-7845-01	09/28/07 09:24	0.037	0.038	0.038	0.057
DOE 4.5.2.3	AM-243	OH207-7845-01	09/28/07 09:24	0.149	0.041	0.043	0.030
DOE 4.5.2.3	CM-243/244	OH207-7845-01	09/28/07 09:24	0.038	0.048	0.048	0.084
DOE 4.5.2.3	AM-246	OH207-7845-01	09/28/07 09:24	0.062	0.061	0.062	0.118
DOE 4.5.2.3	CF-249	OH207-7845-01	09/28/07 09:24	-0.003	0.019	0.019	0.033

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2021-SD
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7845 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	OH207-7845-02	09/27/07 18:50	4.90	0.550	0.736	0.194
DOE 4.5.2.3	CO-60	OH207-7845-02	09/27/07 18:50	-0.016	0.016	0.016	0.025
DOE 4.5.2.3	RH-101	OH207-7845-02	09/27/07 18:50	0.020	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	OH207-7845-02	09/27/07 18:50	-0.034	0.040	0.040	0.064
DOE 4.5.2.3	CS-137	OH207-7845-02	09/27/07 18:50	0.017	0.017	0.017	0.032
DOE 4.5.2.3	EU-155	OH207-7845-02	09/27/07 18:50	0.056	0.056	0.057	0.097
DOE 4.5.2.3	TL-208	OH207-7845-02	09/27/07 18:50	0.320	0.050	0.060	0.026
DOE 4.5.2.3	PO-209	OH207-7845-02	09/27/07 18:50	-0.123	2.74	2.74	4.79
DOE 4.5.2.3	BI-211	OH207-7845-02	09/27/07 18:50	-0.372	0.466	0.467	0.763
DOE 4.5.2.3	BI-212	OH207-7845-02	09/27/07 18:50	0.533	0.180	0.188	0.200
DOE 4.5.2.3	PB-212	OH207-7845-02	09/27/07 18:50	0.979	0.092	0.134	0.042
DOE 4.5.2.3	BI-214	OH207-7845-02	09/27/07 18:50	0.523	0.084	0.099	0.051
DOE 4.5.2.3	PB-214	OH207-7845-02	09/27/07 18:50	0.488	0.071	0.086	0.054
DOE 4.5.2.3	RA-223	OH207-7845-02	09/27/07 18:50	0.302	0.144	0.147	0.134
DOE 4.5.2.3	AC-228	OH207-7845-02	09/27/07 18:50	1.09	0.161	0.194	0.101
DOE 4.5.2.3	PA-233	OH207-7845-02	09/27/07 18:50	-0.013	0.028	0.028	0.047
DOE 4.5.2.3	PA-234M	OH207-7845-02	09/27/07 18:50	2.26	1.80	1.82	3.45
DOE 4.5.2.3	TH-234	OH207-7845-02	09/27/07 18:50	1.89	0.550	0.582	0.420
DOE 4.5.2.3	U-235	OH207-7845-02	09/27/07 18:50	0.035	0.102	0.102	0.169
DOE 4.5.2.3	NP-236	OH207-7845-02	09/27/07 18:50	0.054	0.037	0.038	0.058
DOE 4.5.2.3	NP-237	OH207-7845-02	09/27/07 18:50	0.360	0.173	0.177	0.235
DOE 4.5.2.3	NP-239	OH207-7845-02	09/27/07 18:50	-0.024	0.096	0.096	0.165
DOE 4.5.2.3	AM-241	OH207-7845-02	09/27/07 18:50	0.039	0.095	0.095	0.148
DOE 4.5.2.3	AM-243	OH207-7845-02	09/27/07 18:50	0.197	0.054	0.057	0.049
DOE 4.5.2.3	CM-243/244	OH207-7845-02	09/27/07 18:50	-0.017	0.051	0.051	0.085
DOE 4.5.2.3	AM-246	OH207-7845-02	09/27/07 18:50	0.041	0.049	0.049	0.091
DOE 4.5.2.3	CF-249	OH207-7845-02	09/27/07 18:50	0.012	0.018	0.018	0.031

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

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Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2022-SD

Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00

Batch Number: 7845 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	OH207-7845-03	09/28/07 12:26	2.44	0.371	0.444	0.227
DOE 4.5.2.3	CO-60	OH207-7845-03	09/28/07 12:26	-0.003	0.015	0.015	0.025
DOE 4.5.2.3	RH-101	OH207-7845-03	09/28/07 12:26	-0.007	0.015	0.015	0.026
DOE 4.5.2.3	SB-125	OH207-7845-03	09/28/07 12:26	0.007	0.040	0.040	0.071
DOE 4.5.2.3	CS-137	OH207-7845-03	09/28/07 12:26	0.016	0.018	0.018	0.032
DOE 4.5.2.3	EU-155	OH207-7845-03	09/28/07 12:26	0.052	0.046	0.046	0.081
DOE 4.5.2.3	TL-208	OH207-7845-03	09/28/07 12:26	0.312	0.043	0.053	0.026
DOE 4.5.2.3	PO-209	OH207-7845-03	09/28/07 12:26	1.89	2.98	2.99	5.50
DOE 4.5.2.3	BI-211	OH207-7845-03	09/28/07 12:26	-0.390	0.454	0.455	0.724
DOE 4.5.2.3	BI-212	OH207-7845-03	09/28/07 12:26	0.662	0.184	0.195	0.198
DOE 4.5.2.3	PB-212	OH207-7845-03	09/28/07 12:26	0.972	0.090	0.132	0.042
DOE 4.5.2.3	BI-214	OH207-7845-03	09/28/07 12:26	0.539	0.077	0.094	0.049
DOE 4.5.2.3	PB-214	OH207-7845-03	09/28/07 12:26	0.551	0.082	0.099	0.052
DOE 4.5.2.3	RA-223	OH207-7845-03	09/28/07 12:26	0.288	0.153	0.156	0.133
DOE 4.5.2.3	AC-228	OH207-7845-03	09/28/07 12:26	1.06	0.150	0.183	0.089
DOE 4.5.2.3	PA-233	OH207-7845-03	09/28/07 12:26	0.003	0.029	0.029	0.048
DOE 4.5.2.3	PA-234M	OH207-7845-03	09/28/07 12:26	0.623	1.76	1.76	3.25
DOE 4.5.2.3	TH-234	OH207-7845-03	09/28/07 12:26	0.852	0.280	0.293	0.306
DOE 4.5.2.3	U-235	OH207-7845-03	09/28/07 12:26	0.028	0.095	0.095	0.162
DOE 4.5.2.3	NP-236	OH207-7845-03	09/28/07 12:26	0.018	0.028	0.028	0.043
DOE 4.5.2.3	NP-237	OH207-7845-03	09/28/07 12:26	0.375	0.116	0.122	0.133
DOE 4.5.2.3	NP-239	OH207-7845-03	09/28/07 12:26	-0.042	0.103	0.103	0.172
DOE 4.5.2.3	AM-241	OH207-7845-03	09/28/07 12:26	0.039	0.029	0.029	0.044
DOE 4.5.2.3	AM-243	OH207-7845-03	09/28/07 12:26	0.167	0.043	0.046	0.025
DOE 4.5.2.3	CM-243/244	OH207-7845-03	09/28/07 12:26	0.004	0.041	0.041	0.071
DOE 4.5.2.3	AM-246	OH207-7845-03	09/28/07 12:26	0.003	0.050	0.050	0.090
DOE 4.5.2.3	CF-249	OH207-7845-03	09/28/07 12:26	0.012	0.018	0.018	0.032

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

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Radioanalytical Results

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2023-SD				
Other Sample ID:		Collection Date:	8/21/2007	Date Received:	9/10/2007 9:00:00
		Batch Number:	7845	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	OH207-7845-04	09/28/07 15:37	3.27	0.516	0.611	0.254
DOE 4.5.2.3	CO-60	OH207-7845-04	09/28/07 15:37	-0.003	0.017	0.017	0.030
DOE 4.5.2.3	RH-101	OH207-7845-04	09/28/07 15:37	-0.005	0.017	0.017	0.029
DOE 4.5.2.3	SB-125	OH207-7845-04	09/28/07 15:37	-0.007	0.045	0.045	0.078
DOE 4.5.2.3	CS-137	OH207-7845-04	09/28/07 15:37	0.086	0.026	0.028	0.033
DOE 4.5.2.3	EU-155	OH207-7845-04	09/28/07 15:37	0.030	0.049	0.050	0.087
DOE 4.5.2.3	TL-208	OH207-7845-04	09/28/07 15:37	0.227	0.044	0.049	0.031
DOE 4.5.2.3	PO-209	OH207-7845-04	09/28/07 15:37	2.21	3.34	3.35	6.29
DOE 4.5.2.3	BI-211	OH207-7845-04	09/28/07 15:37	0.157	0.523	0.523	0.923
DOE 4.5.2.3	BI-212	OH207-7845-04	09/28/07 15:37	0.353	0.250	0.252	0.277
DOE 4.5.2.3	PB-212	OH207-7845-04	09/28/07 15:37	0.588	0.081	0.100	0.055
DOE 4.5.2.3	BI-214	OH207-7845-04	09/28/07 15:37	0.353	0.073	0.081	0.113
DOE 4.5.2.3	PB-214	OH207-7845-04	09/28/07 15:37	0.419	0.074	0.085	0.060
DOE 4.5.2.3	RA-223	OH207-7845-04	09/28/07 15:37	0.287	0.152	0.154	0.149
DOE 4.5.2.3	AC-228	OH207-7845-04	09/28/07 15:37	0.841	0.149	0.171	0.116
DOE 4.5.2.3	PA-233	OH207-7845-04	09/28/07 15:37	0.030	0.033	0.033	0.057
DOE 4.5.2.3	PA-234M	OH207-7845-04	09/28/07 15:37	5.76	4.14	4.18	3.42
DOE 4.5.2.3	TH-234	OH207-7845-04	09/28/07 15:37	0.468	0.291	0.295	0.502
DOE 4.5.2.3	U-235	OH207-7845-04	09/28/07 15:37	0.060	0.104	0.104	0.180
DOE 4.5.2.3	NP-236	OH207-7845-04	09/28/07 15:37	0.020	0.030	0.030	0.049
DOE 4.5.2.3	NP-237	OH207-7845-04	09/28/07 15:37	0.212	0.108	0.111	0.171
DOE 4.5.2.3	NP-239	OH207-7845-04	09/28/07 15:37	0.040	0.110	0.110	0.190
DOE 4.5.2.3	AM-241	OH207-7845-04	09/28/07 15:37	-0.145	0.038	0.041	0.053
DOE 4.5.2.3	AM-243	OH207-7845-04	09/28/07 15:37	0.132	0.038	0.040	0.029
DOE 4.5.2.3	CM-243/244	OH207-7845-04	09/28/07 15:37	-0.021	0.045	0.045	0.077
DOE 4.5.2.3	AM-246	OH207-7845-04	09/28/07 15:37	-0.028	0.059	0.059	0.100
DOE 4.5.2.3	CF-249	OH207-7845-04	09/28/07 15:37	0.009	0.020	0.020	0.036

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2024-SD
Other Sample ID: Collection Date: 8/21/2007 Date Received: 9/10/2007 9:00:00
Batch Number: 7845 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	OH207-7845-05	09/28/07 19:02	2.17	0.374	0.432	0.231
DOE 4.5.2.3	CO-60	OH207-7845-05	09/28/07 19:02	2.1e-04	0.014	0.014	0.020
DOE 4.5.2.3	RH-101	OH207-7845-05	09/28/07 19:02	-0.006	0.015	0.015	0.024
DOE 4.5.2.3	SB-125	OH207-7845-05	09/28/07 19:02	-0.005	0.037	0.037	0.063
DOE 4.5.2.3	CS-137	OH207-7845-05	09/28/07 19:02	-0.002	0.016	0.016	0.028
DOE 4.5.2.3	EU-155	OH207-7845-05	09/28/07 19:02	0.016	0.056	0.056	0.095
DOE 4.5.2.3	TL-208	OH207-7845-05	09/28/07 19:02	0.313	0.046	0.056	0.025
DOE 4.5.2.3	PO-209	OH207-7845-05	09/28/07 19:02	0.748	2.57	2.57	4.69
DOE 4.5.2.3	BI-211	OH207-7845-05	09/28/07 19:02	-0.315	0.408	0.409	0.676
DOE 4.5.2.3	BI-212	OH207-7845-05	09/28/07 19:02	0.725	0.227	0.238	0.201
DOE 4.5.2.3	PB-212	OH207-7845-05	09/28/07 19:02	0.936	0.089	0.129	0.039
DOE 4.5.2.3	BI-214	OH207-7845-05	09/28/07 19:02	0.364	0.068	0.077	0.048
DOE 4.5.2.3	PB-214	OH207-7845-05	09/28/07 19:02	0.405	0.064	0.076	0.048
DOE 4.5.2.3	RA-223	OH207-7845-05	09/28/07 19:02	0.288	0.123	0.126	0.117
DOE 4.5.2.3	AC-228	OH207-7845-05	09/28/07 19:02	1.01	0.143	0.175	0.080
DOE 4.5.2.3	PA-233	OH207-7845-05	09/28/07 19:02	0.001	0.025	0.025	0.044
DOE 4.5.2.3	PA-234M	OH207-7845-05	09/28/07 19:02	0.438	1.47	1.47	2.71
DOE 4.5.2.3	TH-234	OH207-7845-05	09/28/07 19:02	1.20	0.424	0.440	0.576
DOE 4.5.2.3	U-235	OH207-7845-05	09/28/07 19:02	0.071	0.096	0.097	0.165
DOE 4.5.2.3	NP-236	OH207-7845-05	09/28/07 19:02	0.041	0.033	0.033	0.056
DOE 4.5.2.3	NP-237	OH207-7845-05	09/28/07 19:02	0.497	0.164	0.172	0.187
DOE 4.5.2.3	NP-239	OH207-7845-05	09/28/07 19:02	-0.035	0.098	0.098	0.158
DOE 4.5.2.3	AM-241	OH207-7845-05	09/28/07 19:02	0.058	0.088	0.089	0.157
DOE 4.5.2.3	AM-243	OH207-7845-05	09/28/07 19:02	0.191	0.059	0.062	0.050
DOE 4.5.2.3	CM-243/244	OH207-7845-05	09/28/07 19:02	0.023	0.050	0.050	0.086
DOE 4.5.2.3	AM-246	OH207-7845-05	09/28/07 19:02	0.014	0.045	0.045	0.082
DOE 4.5.2.3	CF-249	OH207-7845-05	09/28/07 19:02	-1.7e-04	0.016	0.016	0.028

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

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Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7842_7845

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-7842-LC1	09/18/07 15:30	31.4	1.97	3.71	0.092
DOE 4.5.2.3	CS-137	SCAQC-7842-LC1	09/18/07 15:30	31.2	3.38	4.60	0.166
DOE 4.5.2.3	AM-241	SCAQC-7842-LC1	09/18/07 15:30	71.0	5.79	9.16	1.02

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7842_7845

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-7843-LC1	09/21/07 11:02	32.1	2.02	3.79	0.101
DOE 4.5.2.3	CS-137	SCAQC-7843-LC1	09/21/07 11:02	30.2	2.22	3.75	0.187
DOE 4.5.2.3	AM-241	SCAQC-7843-LC1	09/21/07 11:02	76.8	4.90	9.11	0.331

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7842_7845

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-7844-LC1	09/23/07 16:05	32.4	2.05	3.84	0.093
DOE 4.5.2.3	CS-137	SCAQC-7844-LC1	09/23/07 16:05	29.8	2.19	3.70	0.192
DOE 4.5.2.3	AM-241	SCAQC-7844-LC1	09/23/07 16:05	76.7	4.89	9.10	0.338

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S7842_7845

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-7845-LC1	09/28/07 09:22	31.7	1.82	3.66	0.105
DOE 4.5.2.3	CS-137	SCAQC-7845-LC1	09/28/07 09:22	30.4	3.49	4.63	0.164
DOE 4.5.2.3	AM-241	SCAQC-7845-LC1	09/28/07 09:22	76.2	5.13	9.19	0.990

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Gamma	SCAQC-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2000-ST
Other Sample ID: LD1 Collection Date: 8/16/2007 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-7842-LD1	09/18/07 15:32	2.90	0.416	0.507	0.227
DOE 4.5.2.3	CO-60	SCAQC-7842-LD1	09/18/07 15:32	-0.007	0.015	0.015	0.025
DOE 4.5.2.3	RH-101	SCAQC-7842-LD1	09/18/07 15:32	-0.004	0.016	0.016	0.026
DOE 4.5.2.3	SB-125	SCAQC-7842-LD1	09/18/07 15:32	-0.004	0.040	0.040	0.070
DOE 4.5.2.3	CS-137	SCAQC-7842-LD1	09/18/07 15:32	0.254	0.042	0.049	0.029
DOE 4.5.2.3	EU-155	SCAQC-7842-LD1	09/18/07 15:32	0.020	0.045	0.045	0.079
DOE 4.5.2.3	TL-208	SCAQC-7842-LD1	09/18/07 15:32	0.191	0.039	0.044	0.029
DOE 4.5.2.3	PO-209	SCAQC-7842-LD1	09/18/07 15:32	0.416	2.86	2.86	5.20
DOE 4.5.2.3	BI-211	SCAQC-7842-LD1	09/18/07 15:32	-0.288	0.485	0.486	0.793
DOE 4.5.2.3	BI-212	SCAQC-7842-LD1	09/18/07 15:32	0.516	0.198	0.205	0.185
DOE 4.5.2.3	PB-212	SCAQC-7842-LD1	09/18/07 15:32	0.671	0.070	0.097	0.044
DOE 4.5.2.3	BI-214	SCAQC-7842-LD1	09/18/07 15:32	0.390	0.070	0.080	0.047
DOE 4.5.2.3	PB-214	SCAQC-7842-LD1	09/18/07 15:32	0.435	0.068	0.081	0.051
DOE 4.5.2.3	RA-223	SCAQC-7842-LD1	09/18/07 15:32	0.168	0.130	0.131	0.134
DOE 4.5.2.3	AC-228	SCAQC-7842-LD1	09/18/07 15:32	0.682	0.135	0.151	0.104
DOE 4.5.2.3	PA-233	SCAQC-7842-LD1	09/18/07 15:32	-0.014	0.029	0.029	0.047
DOE 4.5.2.3	PA-234M	SCAQC-7842-LD1	09/18/07 15:32	0.524	1.81	1.81	3.37
DOE 4.5.2.3	TH-234	SCAQC-7842-LD1	09/18/07 15:32	0.901	0.360	0.371	0.362
DOE 4.5.2.3	U-235	SCAQC-7842-LD1	09/18/07 15:32	0.094	0.096	0.096	0.167
DOE 4.5.2.3	NP-236	SCAQC-7842-LD1	09/18/07 15:32	-0.003	0.030	0.030	0.042
DOE 4.5.2.3	NP-237	SCAQC-7842-LD1	09/18/07 15:32	0.170	0.097	0.098	0.152
DOE 4.5.2.3	NP-239	SCAQC-7842-LD1	09/18/07 15:32	0.013	0.101	0.101	0.172
DOE 4.5.2.3	AM-241	SCAQC-7842-LD1	09/18/07 15:32	0.027	0.031	0.031	0.047
DOE 4.5.2.3	AM-243	SCAQC-7842-LD1	09/18/07 15:32	0.123	0.036	0.038	0.026
DOE 4.5.2.3	CM-243/244	SCAQC-7842-LD1	09/18/07 15:32	0.026	0.041	0.041	0.072
DOE 4.5.2.3	AM-246	SCAQC-7842-LD1	09/18/07 15:32	0.062	0.052	0.052	0.102
DOE 4.5.2.3	CF-249	SCAQC-7842-LD1	09/18/07 15:32	0.005	0.018	0.018	0.031

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7842-LD1	OH207-7842-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2000-ST				
Other Sample ID:	LD1	Collection Date:	8/16/2007	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-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2020-ST

Other Sample ID: LD1 Collection Date: 8/21/2007 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-7843-LD1	09/21/07 10:08	3.96	0.494	0.633	0.225
DOE 4.5.2.3	CO-60	SCAQC-7843-LD1	09/21/07 10:08	-0.003	0.016	0.016	0.024
DOE 4.5.2.3	RH-101	SCAQC-7843-LD1	09/21/07 10:08	-0.009	0.015	0.015	0.025
DOE 4.5.2.3	SB-125	SCAQC-7843-LD1	09/21/07 10:08	0.018	0.040	0.040	0.070
DOE 4.5.2.3	CS-137	SCAQC-7843-LD1	09/21/07 10:08	0.081	0.027	0.028	0.029
DOE 4.5.2.3	EU-155	SCAQC-7843-LD1	09/21/07 10:08	-0.005	0.056	0.056	0.095
DOE 4.5.2.3	TL-208	SCAQC-7843-LD1	09/21/07 10:08	0.222	0.042	0.048	0.027
DOE 4.5.2.3	PO-209	SCAQC-7843-LD1	09/21/07 10:08	0.431	2.65	2.65	4.78
DOE 4.5.2.3	BI-211	SCAQC-7843-LD1	09/21/07 10:08	0.333	0.400	0.402	0.689
DOE 4.5.2.3	BI-212	SCAQC-7843-LD1	09/21/07 10:08	0.484	0.194	0.200	0.192
DOE 4.5.2.3	PB-212	SCAQC-7843-LD1	09/21/07 10:08	0.786	0.079	0.111	0.042
DOE 4.5.2.3	BI-214	SCAQC-7843-LD1	09/21/07 10:08	0.506	0.090	0.103	0.049
DOE 4.5.2.3	PB-214	SCAQC-7843-LD1	09/21/07 10:08	0.542	0.077	0.094	0.046
DOE 4.5.2.3	RA-223	SCAQC-7843-LD1	09/21/07 10:08	0.140	0.125	0.126	0.133
DOE 4.5.2.3	AC-228	SCAQC-7843-LD1	09/21/07 10:08	0.951	0.134	0.164	0.086
DOE 4.5.2.3	PA-233	SCAQC-7843-LD1	09/21/07 10:08	-0.007	0.028	0.028	0.048
DOE 4.5.2.3	PA-234M	SCAQC-7843-LD1	09/21/07 10:08	-0.154	1.66	1.66	2.93
DOE 4.5.2.3	TH-234	SCAQC-7843-LD1	09/21/07 10:08	0.684	0.460	0.465	0.574
DOE 4.5.2.3	U-235	SCAQC-7843-LD1	09/21/07 10:08	-0.091	0.099	0.099	0.159
DOE 4.5.2.3	NP-236	SCAQC-7843-LD1	09/21/07 10:08	-0.006	0.035	0.035	0.056
DOE 4.5.2.3	NP-237	SCAQC-7843-LD1	09/21/07 10:08	0.241	0.158	0.160	0.207
DOE 4.5.2.3	NP-239	SCAQC-7843-LD1	09/21/07 10:08	-0.009	0.104	0.104	0.170
DOE 4.5.2.3	AM-241	SCAQC-7843-LD1	09/21/07 10:08	-0.040	0.090	0.090	0.154
DOE 4.5.2.3	AM-243	SCAQC-7843-LD1	09/21/07 10:08	0.146	0.053	0.055	0.050
DOE 4.5.2.3	CM-243/244	SCAQC-7843-LD1	09/21/07 10:08	0.011	0.051	0.051	0.087
DOE 4.5.2.3	AM-246	SCAQC-7843-LD1	09/21/07 10:08	0.006	0.050	0.050	0.089
DOE 4.5.2.3	CF-249	SCAQC-7843-LD1	09/21/07 10:08	0.010	0.016	0.016	0.029

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7843-LD1	OH207-7843-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2020-ST				
Other Sample ID:	LD1	Collection Date:	8/21/2007	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-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil
Site Sample ID: SB-CZ-SS-2000-SD
Other Sample ID: LD1 Collection Date: 8/16/2007 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-7844-LD1	09/23/07 17:33	2.71	0.420	0.500	0.228
DOE 4.5.2.3	CO-60	SCAQC-7844-LD1	09/23/07 17:33	-9.3e-04	0.015	0.015	0.027
DOE 4.5.2.3	RH-101	SCAQC-7844-LD1	09/23/07 17:33	-0.003	0.016	0.016	0.027
DOE 4.5.2.3	SB-125	SCAQC-7844-LD1	09/23/07 17:33	0.048	0.042	0.042	0.078
DOE 4.5.2.3	CS-137	SCAQC-7844-LD1	09/23/07 17:33	0.041	0.021	0.021	0.039
DOE 4.5.2.3	EU-155	SCAQC-7844-LD1	09/23/07 17:33	0.022	0.047	0.047	0.082
DOE 4.5.2.3	TL-208	SCAQC-7844-LD1	09/23/07 17:33	0.259	0.042	0.049	0.026
DOE 4.5.2.3	PO-209	SCAQC-7844-LD1	09/23/07 17:33	1.62	3.00	3.01	5.62
DOE 4.5.2.3	BI-211	SCAQC-7844-LD1	09/23/07 17:33	-0.150	0.462	0.463	0.776
DOE 4.5.2.3	BI-212	SCAQC-7844-LD1	09/23/07 17:33	0.463	0.262	0.266	0.224
DOE 4.5.2.3	PB-212	SCAQC-7844-LD1	09/23/07 17:33	0.750	0.077	0.107	0.044
DOE 4.5.2.3	BI-214	SCAQC-7844-LD1	09/23/07 17:33	0.406	0.075	0.085	0.055
DOE 4.5.2.3	PB-214	SCAQC-7844-LD1	09/23/07 17:33	0.430	0.073	0.085	0.054
DOE 4.5.2.3	RA-223	SCAQC-7844-LD1	09/23/07 17:33	0.198	0.106	0.107	0.134
DOE 4.5.2.3	AC-228	SCAQC-7844-LD1	09/23/07 17:33	0.738	0.150	0.168	0.098
DOE 4.5.2.3	PA-233	SCAQC-7844-LD1	09/23/07 17:33	4.6e-04	0.031	0.031	0.052
DOE 4.5.2.3	PA-234M	SCAQC-7844-LD1	09/23/07 17:33	2.17	1.88	1.89	3.73
DOE 4.5.2.3	TH-234	SCAQC-7844-LD1	09/23/07 17:33	0.722	0.257	0.267	0.456
DOE 4.5.2.3	U-235	SCAQC-7844-LD1	09/23/07 17:33	0.051	0.099	0.099	0.171
DOE 4.5.2.3	NP-236	SCAQC-7844-LD1	09/23/07 17:33	0.019	0.031	0.031	0.045
DOE 4.5.2.3	NP-237	SCAQC-7844-LD1	09/23/07 17:33	0.370	0.120	0.126	0.139
DOE 4.5.2.3	NP-239	SCAQC-7844-LD1	09/23/07 17:33	0.028	0.109	0.109	0.186
DOE 4.5.2.3	AM-241	SCAQC-7844-LD1	09/23/07 17:33	-0.003	0.034	0.034	0.049
DOE 4.5.2.3	AM-243	SCAQC-7844-LD1	09/23/07 17:33	0.117	0.034	0.036	0.026
DOE 4.5.2.3	CM-243/244	SCAQC-7844-LD1	09/23/07 17:33	-0.013	0.043	0.043	0.073
DOE 4.5.2.3	AM-246	SCAQC-7844-LD1	09/23/07 17:33	-0.014	0.055	0.055	0.096
DOE 4.5.2.3	CF-249	SCAQC-7844-LD1	09/23/07 17:33	0.008	0.018	0.018	0.032

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7844-LD1	OH207-7844-01

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2000-SD				
Other Sample ID:	LD1	Collection Date:	8/16/2007	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-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name: Cabrera Services-Oah Chain-of-Custody Number: COC #13/07-3080.04 Matrix: Soil

Site Sample ID: SB-CZ-SS-2020-SD

Other Sample ID: LD1 Collection Date: 8/21/2007 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-7845-LD1	09/27/07 18:48	2.75	0.386	0.474	0.180
DOE 4.5.2.3	CO-60	SCAQC-7845-LD1	09/27/07 18:48	0.011	0.013	0.013	0.025
DOE 4.5.2.3	RH-101	SCAQC-7845-LD1	09/27/07 18:48	-0.017	0.015	0.015	0.023
DOE 4.5.2.3	SB-125	SCAQC-7845-LD1	09/27/07 18:48	0.005	0.036	0.036	0.064
DOE 4.5.2.3	CS-137	SCAQC-7845-LD1	09/27/07 18:48	-0.009	0.015	0.015	0.025
DOE 4.5.2.3	EU-155	SCAQC-7845-LD1	09/27/07 18:48	0.114	0.055	0.057	0.099
DOE 4.5.2.3	TL-208	SCAQC-7845-LD1	09/27/07 18:48	0.269	0.043	0.051	0.026
DOE 4.5.2.3	PO-209	SCAQC-7845-LD1	09/27/07 18:48	-0.368	2.75	2.75	4.81
DOE 4.5.2.3	BI-211	SCAQC-7845-LD1	09/27/07 18:48	-0.107	0.412	0.412	0.714
DOE 4.5.2.3	BI-212	SCAQC-7845-LD1	09/27/07 18:48	0.507	0.188	0.195	0.194
DOE 4.5.2.3	PB-212	SCAQC-7845-LD1	09/27/07 18:48	0.842	0.082	0.118	0.042
DOE 4.5.2.3	BI-214	SCAQC-7845-LD1	09/27/07 18:48	0.316	0.070	0.077	0.049
DOE 4.5.2.3	PB-214	SCAQC-7845-LD1	09/27/07 18:48	0.343	0.066	0.075	0.050
DOE 4.5.2.3	RA-223	SCAQC-7845-LD1	09/27/07 18:48	0.230	0.106	0.108	0.122
DOE 4.5.2.3	AC-228	SCAQC-7845-LD1	09/27/07 18:48	0.956	0.140	0.169	0.083
DOE 4.5.2.3	PA-233	SCAQC-7845-LD1	09/27/07 18:48	0.001	0.025	0.025	0.045
DOE 4.5.2.3	PA-234M	SCAQC-7845-LD1	09/27/07 18:48	0.587	1.55	1.56	2.88
DOE 4.5.2.3	TH-234	SCAQC-7845-LD1	09/27/07 18:48	1.15	0.429	0.444	0.586
DOE 4.5.2.3	U-235	SCAQC-7845-LD1	09/27/07 18:48	0.020	0.096	0.096	0.162
DOE 4.5.2.3	NP-236	SCAQC-7845-LD1	09/27/07 18:48	0.012	0.032	0.032	0.055
DOE 4.5.2.3	NP-237	SCAQC-7845-LD1	09/27/07 18:48	0.387	0.180	0.184	0.226
DOE 4.5.2.3	NP-239	SCAQC-7845-LD1	09/27/07 18:48	0.038	0.094	0.094	0.158
DOE 4.5.2.3	AM-241	SCAQC-7845-LD1	09/27/07 18:48	0.036	0.090	0.090	0.159
DOE 4.5.2.3	AM-243	SCAQC-7845-LD1	09/27/07 18:48	0.157	0.052	0.054	0.051
DOE 4.5.2.3	CM-243/244	SCAQC-7845-LD1	09/27/07 18:48	-0.062	0.051	0.051	0.082
DOE 4.5.2.3	AM-246	SCAQC-7845-LD1	09/27/07 18:48	-0.037	0.045	0.045	0.072
DOE 4.5.2.3	CF-249	SCAQC-7845-LD1	09/27/07 18:48	0.004	0.016	0.016	0.028

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
GAMMA	SCAQC-7845-LD1	OH207-7845-01

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S7842_7845

Project Name:	Cabrera Services-Oah	Chain-of-Custody Number:	COC #13/07-3080.04	Matrix:	Soil
Site Sample ID:	SB-CZ-SS-2020-SD				
Other Sample ID:	LD1	Collection Date:	8/21/2007	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-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7842-PB1	09/19/07 09:56	-0.052	0.123	0.123	0.231
DOE 4.5.2.3	CO-60	SCAQC-7842-PB1	09/19/07 09:56	0.006	0.009	0.009	0.017
DOE 4.5.2.3	RH-101	SCAQC-7842-PB1	09/19/07 09:56	3.6e-04	0.009	0.009	0.016
DOE 4.5.2.3	SB-125	SCAQC-7842-PB1	09/19/07 09:56	-0.011	0.026	0.026	0.044
DOE 4.5.2.3	CS-137	SCAQC-7842-PB1	09/19/07 09:56	0.006	0.010	0.010	0.019
DOE 4.5.2.3	EU-155	SCAQC-7842-PB1	09/19/07 09:56	0.003	0.030	0.030	0.052
DOE 4.5.2.3	TL-208	SCAQC-7842-PB1	09/19/07 09:56	0.002	0.012	0.012	0.021
DOE 4.5.2.3	PO-209	SCAQC-7842-PB1	09/19/07 09:56	-0.222	1.92	1.92	3.47
DOE 4.5.2.3	BI-211	SCAQC-7842-PB1	09/19/07 09:56	-0.131	0.246	0.246	0.423
DOE 4.5.2.3	BI-212	SCAQC-7842-PB1	09/19/07 09:56	-0.008	0.078	0.078	0.141
DOE 4.5.2.3	PB-212	SCAQC-7842-PB1	09/19/07 09:56	-0.004	0.018	0.018	0.030
DOE 4.5.2.3	BI-214	SCAQC-7842-PB1	09/19/07 09:56	0.023	0.024	0.024	0.044
DOE 4.5.2.3	PB-214	SCAQC-7842-PB1	09/19/07 09:56	0.036	0.026	0.026	0.043
DOE 4.5.2.3	RA-223	SCAQC-7842-PB1	09/19/07 09:56	-0.006	0.050	0.050	0.086
DOE 4.5.2.3	AC-228	SCAQC-7842-PB1	09/19/07 09:56	-0.019	0.035	0.035	0.062
DOE 4.5.2.3	PA-233	SCAQC-7842-PB1	09/19/07 09:56	0.017	0.017	0.017	0.033
DOE 4.5.2.3	PA-234M	SCAQC-7842-PB1	09/19/07 09:56	0.689	1.27	1.27	2.48
DOE 4.5.2.3	TH-234	SCAQC-7842-PB1	09/19/07 09:56	-0.127	0.184	0.184	0.335
DOE 4.5.2.3	U-235	SCAQC-7842-PB1	09/19/07 09:56	-0.010	0.062	0.062	0.103
DOE 4.5.2.3	NP-236	SCAQC-7842-PB1	09/19/07 09:56	-0.005	0.019	0.019	0.032
DOE 4.5.2.3	NP-237	SCAQC-7842-PB1	09/19/07 09:56	0.029	0.068	0.069	0.123
DOE 4.5.2.3	NP-239	SCAQC-7842-PB1	09/19/07 09:56	0.011	0.056	0.056	0.096
DOE 4.5.2.3	AM-241	SCAQC-7842-PB1	09/19/07 09:56	-0.024	0.052	0.052	0.090
DOE 4.5.2.3	AM-243	SCAQC-7842-PB1	09/19/07 09:56	-0.002	0.018	0.018	0.031
DOE 4.5.2.3	CM-243/244	SCAQC-7842-PB1	09/19/07 09:56	0.008	0.028	0.028	0.050
DOE 4.5.2.3	AM-246	SCAQC-7842-PB1	09/19/07 09:56	0.018	0.032	0.032	0.063
DOE 4.5.2.3	CF-249	SCAQC-7842-PB1	09/19/07 09:56	0.008	0.011	0.011	0.020

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7842-LC1	SCAQC-7842-LD1		SCAQC-7842-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7843-PB1	09/21/07 10:10	-0.039	0.150	0.150	0.301
DOE 4.5.2.3	CO-60	SCAQC-7843-PB1	09/21/07 10:10	-0.004	0.010	0.010	0.016
DOE 4.5.2.3	RH-101	SCAQC-7843-PB1	09/21/07 10:10	-0.009	0.011	0.011	0.017
DOE 4.5.2.3	SB-125	SCAQC-7843-PB1	09/21/07 10:10	0.016	0.027	0.027	0.050
DOE 4.5.2.3	CS-137	SCAQC-7843-PB1	09/21/07 10:10	0.002	0.010	0.010	0.019
DOE 4.5.2.3	EU-155	SCAQC-7843-PB1	09/21/07 10:10	-0.005	0.032	0.032	0.055
DOE 4.5.2.3	TL-208	SCAQC-7843-PB1	09/21/07 10:10	0.004	0.012	0.012	0.022
DOE 4.5.2.3	PO-209	SCAQC-7843-PB1	09/21/07 10:10	0.058	2.00	2.00	3.66
DOE 4.5.2.3	BI-211	SCAQC-7843-PB1	09/21/07 10:10	-0.215	0.291	0.292	0.479
DOE 4.5.2.3	BI-212	SCAQC-7843-PB1	09/21/07 10:10	0.044	0.074	0.075	0.144
DOE 4.5.2.3	PB-212	SCAQC-7843-PB1	09/21/07 10:10	-0.009	0.018	0.018	0.031
DOE 4.5.2.3	BI-214	SCAQC-7843-PB1	09/21/07 10:10	0.002	0.023	0.023	0.043
DOE 4.5.2.3	PB-214	SCAQC-7843-PB1	09/21/07 10:10	-0.021	0.023	0.023	0.037
DOE 4.5.2.3	RA-223	SCAQC-7843-PB1	09/21/07 10:10	-0.013	0.051	0.051	0.088
DOE 4.5.2.3	AC-228	SCAQC-7843-PB1	09/21/07 10:10	-0.003	0.042	0.042	0.082
DOE 4.5.2.3	PA-233	SCAQC-7843-PB1	09/21/07 10:10	-0.017	0.018	0.018	0.030
DOE 4.5.2.3	PA-234M	SCAQC-7843-PB1	09/21/07 10:10	-0.888	1.15	1.15	1.88
DOE 4.5.2.3	TH-234	SCAQC-7843-PB1	09/21/07 10:10	0.410	0.310	0.313	0.346
DOE 4.5.2.3	U-235	SCAQC-7843-PB1	09/21/07 10:10	-0.004	0.061	0.061	0.100
DOE 4.5.2.3	NP-236	SCAQC-7843-PB1	09/21/07 10:10	0.008	0.020	0.020	0.033
DOE 4.5.2.3	NP-237	SCAQC-7843-PB1	09/21/07 10:10	2.8e-04	0.072	0.072	0.118
DOE 4.5.2.3	NP-239	SCAQC-7843-PB1	09/21/07 10:10	0.013	0.061	0.061	0.109
DOE 4.5.2.3	AM-241	SCAQC-7843-PB1	09/21/07 10:10	0.002	0.048	0.048	0.085
DOE 4.5.2.3	AM-243	SCAQC-7843-PB1	09/21/07 10:10	0.006	0.016	0.016	0.029
DOE 4.5.2.3	CM-243/244	SCAQC-7843-PB1	09/21/07 10:10	-0.001	0.030	0.030	0.051
DOE 4.5.2.3	AM-246	SCAQC-7843-PB1	09/21/07 10:10	-0.004	0.032	0.032	0.057
DOE 4.5.2.3	CF-249	SCAQC-7843-PB1	09/21/07 10:10	0.009	0.011	0.011	0.021

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7843-LC1	SCAQC-7843-LD1		SCAQC-7843-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7844-PB1	09/23/07 12:49	0.143	0.184	0.184	0.384
DOE 4.5.2.3	CO-60	SCAQC-7844-PB1	09/23/07 12:49	-0.010	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	SCAQC-7844-PB1	09/23/07 12:49	-0.006	0.012	0.012	0.019
DOE 4.5.2.3	SB-125	SCAQC-7844-PB1	09/23/07 12:49	-0.010	0.034	0.034	0.059
DOE 4.5.2.3	CS-137	SCAQC-7844-PB1	09/23/07 12:49	-0.004	0.012	0.012	0.021
DOE 4.5.2.3	EU-155	SCAQC-7844-PB1	09/23/07 12:49	-0.015	0.033	0.033	0.057
DOE 4.5.2.3	TL-208	SCAQC-7844-PB1	09/23/07 12:49	-0.005	0.015	0.015	0.025
DOE 4.5.2.3	PO-209	SCAQC-7844-PB1	09/23/07 12:49	-1.71	2.33	2.34	3.89
DOE 4.5.2.3	BI-211	SCAQC-7844-PB1	09/23/07 12:49	-0.035	0.366	0.367	0.643
DOE 4.5.2.3	BI-212	SCAQC-7844-PB1	09/23/07 12:49	-0.062	0.113	0.113	0.189
DOE 4.5.2.3	PB-212	SCAQC-7844-PB1	09/23/07 12:49	-0.011	0.023	0.023	0.039
DOE 4.5.2.3	BI-214	SCAQC-7844-PB1	09/23/07 12:49	0.036	0.031	0.031	0.059
DOE 4.5.2.3	PB-214	SCAQC-7844-PB1	09/23/07 12:49	0.092	0.051	0.052	0.055
DOE 4.5.2.3	RA-223	SCAQC-7844-PB1	09/23/07 12:49	0.013	0.061	0.061	0.107
DOE 4.5.2.3	AC-228	SCAQC-7844-PB1	09/23/07 12:49	-0.025	0.051	0.051	0.088
DOE 4.5.2.3	PA-233	SCAQC-7844-PB1	09/23/07 12:49	-0.023	0.024	0.024	0.037
DOE 4.5.2.3	PA-234M	SCAQC-7844-PB1	09/23/07 12:49	-0.827	1.42	1.42	2.57
DOE 4.5.2.3	TH-234	SCAQC-7844-PB1	09/23/07 12:49	-0.243	0.189	0.191	0.335
DOE 4.5.2.3	U-235	SCAQC-7844-PB1	09/23/07 12:49	-0.012	0.072	0.072	0.122
DOE 4.5.2.3	NP-236	SCAQC-7844-PB1	09/23/07 12:49	-0.011	0.020	0.021	0.033
DOE 4.5.2.3	NP-237	SCAQC-7844-PB1	09/23/07 12:49	-0.089	0.062	0.063	0.094
DOE 4.5.2.3	NP-239	SCAQC-7844-PB1	09/23/07 12:49	0.008	0.078	0.078	0.135
DOE 4.5.2.3	AM-241	SCAQC-7844-PB1	09/23/07 12:49	-0.087	0.026	0.027	0.035
DOE 4.5.2.3	AM-243	SCAQC-7844-PB1	09/23/07 12:49	0.012	0.012	0.013	0.021
DOE 4.5.2.3	CM-243/244	SCAQC-7844-PB1	09/23/07 12:49	0.007	0.030	0.030	0.053
DOE 4.5.2.3	AM-246	SCAQC-7844-PB1	09/23/07 12:49	0.025	0.041	0.041	0.083
DOE 4.5.2.3	CF-249	SCAQC-7844-PB1	09/23/07 12:49	-0.011	0.014	0.014	0.024

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7844-LC1	SCAQC-7844-LD1		SCAQC-7844-PB1

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7845-PB1	09/27/07 16:26	0.033	0.152	0.153	0.322
DOE 4.5.2.3	CO-60	SCAQC-7845-PB1	09/27/07 16:26	-0.004	0.013	0.013	0.022
DOE 4.5.2.3	RH-101	SCAQC-7845-PB1	09/27/07 16:26	0.007	0.012	0.012	0.022
DOE 4.5.2.3	SB-125	SCAQC-7845-PB1	09/27/07 16:26	0.016	0.030	0.030	0.056
DOE 4.5.2.3	CS-137	SCAQC-7845-PB1	09/27/07 16:26	-0.005	0.013	0.013	0.022
DOE 4.5.2.3	EU-155	SCAQC-7845-PB1	09/27/07 16:26	0.002	0.032	0.032	0.056
DOE 4.5.2.3	TL-208	SCAQC-7845-PB1	09/27/07 16:26	-0.004	0.016	0.016	0.026
DOE 4.5.2.3	PO-209	SCAQC-7845-PB1	09/27/07 16:26	1.52	2.78	2.78	5.33
DOE 4.5.2.3	BI-211	SCAQC-7845-PB1	09/27/07 16:26	0.432	0.388	0.390	0.763
DOE 4.5.2.3	BI-212	SCAQC-7845-PB1	09/27/07 16:26	-0.104	0.106	0.106	0.168
DOE 4.5.2.3	PB-212	SCAQC-7845-PB1	09/27/07 16:26	0.019	0.024	0.024	0.044
DOE 4.5.2.3	BI-214	SCAQC-7845-PB1	09/27/07 16:26	-0.013	0.029	0.029	0.049
DOE 4.5.2.3	PB-214	SCAQC-7845-PB1	09/27/07 16:26	-0.013	0.028	0.028	0.045
DOE 4.5.2.3	RA-223	SCAQC-7845-PB1	09/27/07 16:26	0.028	0.061	0.061	0.108
DOE 4.5.2.3	AC-228	SCAQC-7845-PB1	09/27/07 16:26	-0.010	0.051	0.051	0.091
DOE 4.5.2.3	PA-233	SCAQC-7845-PB1	09/27/07 16:26	0.006	0.025	0.025	0.043
DOE 4.5.2.3	PA-234M	SCAQC-7845-PB1	09/27/07 16:26	0.042	1.63	1.63	3.10
DOE 4.5.2.3	TH-234	SCAQC-7845-PB1	09/27/07 16:26	-0.110	0.187	0.188	0.342
DOE 4.5.2.3	U-235	SCAQC-7845-PB1	09/27/07 16:26	-0.035	0.075	0.075	0.124
DOE 4.5.2.3	NP-236	SCAQC-7845-PB1	09/27/07 16:26	0.011	0.020	0.020	0.033
DOE 4.5.2.3	NP-237	SCAQC-7845-PB1	09/27/07 16:26	-0.004	0.058	0.058	0.097
DOE 4.5.2.3	NP-239	SCAQC-7845-PB1	09/27/07 16:26	-0.032	0.076	0.076	0.128
DOE 4.5.2.3	AM-241	SCAQC-7845-PB1	09/27/07 16:26	-0.075	0.026	0.027	0.036
DOE 4.5.2.3	AM-243	SCAQC-7845-PB1	09/27/07 16:26	-7.0e-05	0.011	0.011	0.019
DOE 4.5.2.3	CM-243/244	SCAQC-7845-PB1	09/27/07 16:26	0.013	0.029	0.029	0.052
DOE 4.5.2.3	AM-246	SCAQC-7845-PB1	09/27/07 16:26	0.012	0.038	0.038	0.074
DOE 4.5.2.3	CF-249	SCAQC-7845-PB1	09/27/07 16:26	0.008	0.014	0.014	0.026

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Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S7842_7845

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-7845-LC1	SCAQC-7845-LD1		SCAQC-7845-PB1

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7842_7845

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-7845-LC1	31.3 ± 0.845	31.7 ± 3.66	101	0.171
DOE 4.5.2.3	CO-60	SCAQC-7844-LC1	31.3 ± 0.845	32.4 ± 3.84	104	0.437
DOE 4.5.2.3	CO-60	SCAQC-7843-LC1	31.3 ± 0.845	32.1 ± 3.79	103	0.305
DOE 4.5.2.3	CO-60	SCAQC-7842-LC1	31.3 ± 0.845	31.4 ± 3.71	100	0.054
DOE 4.5.2.3	CS-137	SCAQC-7845-LC1	28.8 ± 0.865	30.4 ± 4.63	106	0.556
DOE 4.5.2.3	CS-137	SCAQC-7844-LC1	28.8 ± 0.865	29.8 ± 3.70	103	0.382
DOE 4.5.2.3	CS-137	SCAQC-7843-LC1	28.8 ± 0.865	30.2 ± 3.75	105	0.530
DOE 4.5.2.3	CS-137	SCAQC-7842-LC1	28.8 ± 0.865	31.2 ± 4.60	108	0.825
DOE 4.5.2.3	AM-241	SCAQC-7845-LC1	77.0 ± 2.31	76.2 ± 9.19	99.0	0.125
DOE 4.5.2.3	AM-241	SCAQC-7844-LC1	77.0 ± 2.31	76.7 ± 9.10	99.6	0.043
DOE 4.5.2.3	AM-241	SCAQC-7843-LC1	77.0 ± 2.31	76.8 ± 9.11	99.7	0.035
DOE 4.5.2.3	AM-241	SCAQC-7842-LC1	77.0 ± 2.31	71.0 ± 9.16	92.3	0.956

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-7842-LD1	2.51 ± 0.422	2.90 ± 0.507	0.384	1.16
DOE 4.5.2.3	K-40	SCAQC-7843-LD1	4.20 ± 0.654	3.96 ± 0.633	0.245	0.539
DOE 4.5.2.3	K-40	SCAQC-7844-LD1	2.62 ± 0.476	2.71 ± 0.500	0.097	0.281
DOE 4.5.2.3	K-40	SCAQC-7845-LD1	2.33 ± 0.529	2.75 ± 0.474	0.415	1.17
DOE 4.5.2.3	CO-60	SCAQC-7844-LD1	-0.001 ± 0.017	-9.3e-04 ± 0.015	3.0e-04	0.027
DOE 4.5.2.3	CO-60	SCAQC-7842-LD1	0.009 ± 0.013	-0.007 ± 0.015	0.016	1.67
DOE 4.5.2.3	CO-60	SCAQC-7845-LD1	0.007 ± 0.016	0.011 ± 0.013	0.004	0.413
DOE 4.5.2.3	CO-60	SCAQC-7843-LD1	0.009 ± 0.014	-0.003 ± 0.016	0.012	1.11
DOE 4.5.2.3	RH-101	SCAQC-7845-LD1	0.004 ± 0.017	-0.017 ± 0.015	0.021	1.85
DOE 4.5.2.3	RH-101	SCAQC-7843-LD1	0.003 ± 0.016	-0.009 ± 0.015	0.012	1.07
DOE 4.5.2.3	RH-101	SCAQC-7842-LD1	-0.017 ± 0.013	-0.004 ± 0.016	0.013	1.25
DOE 4.5.2.3	RH-101	SCAQC-7844-LD1	-0.003 ± 0.017	-0.003 ± 0.016	7.4e-04	0.064
DOE 4.5.2.3	SB-125	SCAQC-7844-LD1	0.001 ± 0.042	0.048 ± 0.042	0.047	1.56

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Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7842_7845

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

DOE 4.5.2.3	SB-125	SCAQC-7843-LD1	0.010	± 0.040	0.018	± 0.040	0.008	0.270
DOE 4.5.2.3	SB-125	SCAQC-7845-LD1	-5.4e-04	± 0.044	0.005	± 0.036	0.005	0.188
DOE 4.5.2.3	SB-125	SCAQC-7842-LD1	0.003	± 0.036	-0.004	± 0.040	0.007	0.276
DOE 4.5.2.3	CS-137	SCAQC-7845-LD1	-0.011	± 0.019	-0.009	± 0.015	0.002	0.161
DOE 4.5.2.3	CS-137	SCAQC-7842-LD1	0.291	± 0.051	0.254	± 0.049	0.037	1.06
DOE 4.5.2.3	CS-137	SCAQC-7844-LD1	0.030	± 0.026	0.041	± 0.021	0.012	0.696
DOE 4.5.2.3	CS-137	SCAQC-7843-LD1	0.128	± 0.041	0.081	± 0.028	0.047	1.88
DOE 4.5.2.3	EU-155	SCAQC-7845-LD1	0.075	± 0.054	0.114	± 0.057	0.038	0.986
DOE 4.5.2.3	EU-155	SCAQC-7844-LD1	0.037	± 0.047	0.022	± 0.047	0.015	0.459
DOE 4.5.2.3	EU-155	SCAQC-7843-LD1	0.057	± 0.055	-0.005	± 0.056	0.062	1.58
DOE 4.5.2.3	EU-155	SCAQC-7842-LD1	0.047	± 0.048	0.020	± 0.045	0.027	0.826
DOE 4.5.2.3	TL-208	SCAQC-7844-LD1	0.226	± 0.049	0.259	± 0.049	0.033	0.941
DOE 4.5.2.3	TL-208	SCAQC-7843-LD1	0.255	± 0.051	0.222	± 0.048	0.033	0.957
DOE 4.5.2.3	TL-208	SCAQC-7845-LD1	0.290	± 0.058	0.269	± 0.051	0.020	0.527
DOE 4.5.2.3	TL-208	SCAQC-7842-LD1	0.211	± 0.043	0.191	± 0.044	0.021	0.670
DOE 4.5.2.3	PO-209	SCAQC-7844-LD1	1.25	± 3.16	1.62	± 3.01	0.368	0.169
DOE 4.5.2.3	PO-209	SCAQC-7842-LD1	-1.57	± 2.38	0.416	± 2.86	1.99	1.07
DOE 4.5.2.3	PO-209	SCAQC-7845-LD1	1.92	± 3.37	-0.368	± 2.75	2.29	1.06
DOE 4.5.2.3	PO-209	SCAQC-7843-LD1	-0.736	± 2.87	0.431	± 2.65	1.17	0.599
DOE 4.5.2.3	BI-211	SCAQC-7843-LD1	-0.395	± 0.442	0.333	± 0.402	0.728	2.44
DOE 4.5.2.3	BI-211	SCAQC-7842-LD1	-0.208	± 0.336	-0.288	± 0.486	0.080	0.270
DOE 4.5.2.3	BI-211	SCAQC-7845-LD1	0.194	± 0.520	-0.107	± 0.412	0.301	0.907
DOE 4.5.2.3	BI-211	SCAQC-7844-LD1	-0.113	± 0.480	-0.150	± 0.463	0.037	0.112
DOE 4.5.2.3	BI-212	SCAQC-7842-LD1	0.581	± 0.178	0.516	± 0.205	0.065	0.479
DOE 4.5.2.3	BI-212	SCAQC-7844-LD1	0.534	± 0.217	0.463	± 0.266	0.071	0.416
DOE 4.5.2.3	BI-212	SCAQC-7845-LD1	0.422	± 0.226	0.507	± 0.195	0.085	0.570
DOE 4.5.2.3	BI-212	SCAQC-7843-LD1	0.580	± 0.197	0.484	± 0.200	0.096	0.683
DOE 4.5.2.3	PB-212	SCAQC-7843-LD1	0.699	± 0.101	0.786	± 0.111	0.087	1.16
DOE 4.5.2.3	PB-212	SCAQC-7845-LD1	0.794	± 0.125	0.842	± 0.118	0.049	0.568
DOE 4.5.2.3	PB-212	SCAQC-7842-LD1	0.612	± 0.088	0.671	± 0.097	0.059	0.894
DOE 4.5.2.3	PB-212	SCAQC-7844-LD1	0.756	± 0.109	0.750	± 0.107	0.006	0.078
DOE 4.5.2.3	BI-214	SCAQC-7843-LD1	0.418	± 0.085	0.506	± 0.103	0.088	1.32
DOE 4.5.2.3	BI-214	SCAQC-7844-LD1	0.419	± 0.084	0.406	± 0.085	0.012	0.203
DOE 4.5.2.3	BI-214	SCAQC-7845-LD1	0.385	± 0.089	0.316	± 0.077	0.070	1.18
DOE 4.5.2.3	BI-214	SCAQC-7842-LD1	0.440	± 0.083	0.390	± 0.080	0.050	0.868
DOE 4.5.2.3	PB-214	SCAQC-7845-LD1	0.394	± 0.084	0.343	± 0.075	0.051	0.911
DOE 4.5.2.3	PB-214	SCAQC-7844-LD1	0.438	± 0.089	0.430	± 0.085	0.008	0.136
DOE 4.5.2.3	PB-214	SCAQC-7843-LD1	0.417	± 0.081	0.542	± 0.094	0.125	2.01
DOE 4.5.2.3	PB-214	SCAQC-7842-LD1	0.414	± 0.073	0.435	± 0.081	0.021	0.387
DOE 4.5.2.3	RA-223	SCAQC-7842-LD1	0.171	± 0.120	0.168	± 0.131	0.003	0.032
DOE 4.5.2.3	RA-223	SCAQC-7845-LD1	0.320	± 0.169	0.230	± 0.108	0.089	0.888
DOE 4.5.2.3	RA-223	SCAQC-7844-LD1	0.291	± 0.141	0.198	± 0.107	0.093	1.05
DOE 4.5.2.3	RA-223	SCAQC-7843-LD1	0.180	± 0.102	0.140	± 0.126	0.040	0.491
DOE 4.5.2.3	AC-228	SCAQC-7843-LD1	0.860	± 0.168	0.951	± 0.164	0.091	0.778
DOE 4.5.2.3	AC-228	SCAQC-7842-LD1	0.753	± 0.130	0.682	± 0.151	0.071	0.713

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7842_7845

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

DOE 4.5.2.3	AC-228	SCAQC-7844-LD1	0.664	± 0.153	0.738	± 0.168	0.074	0.656
DOE 4.5.2.3	AC-228	SCAQC-7845-LD1	0.948	± 0.195	0.956	± 0.169	0.009	0.067
DOE 4.5.2.3	PA-233	SCAQC-7845-LD1	0.006	± 0.032	0.001	± 0.025	0.005	0.264
DOE 4.5.2.3	PA-233	SCAQC-7843-LD1	0.013	± 0.028	-0.007	± 0.028	0.020	1.02
DOE 4.5.2.3	PA-233	SCAQC-7842-LD1	0.022	± 0.024	-0.014	± 0.029	0.036	1.91
DOE 4.5.2.3	PA-233	SCAQC-7844-LD1	0.012	± 0.030	4.6e-04	± 0.031	0.012	0.547
DOE 4.5.2.3	PA-234M	SCAQC-7845-LD1	1.20	± 2.12	0.587	± 1.56	0.610	0.464
DOE 4.5.2.3	PA-234M	SCAQC-7843-LD1	1.35	± 1.76	-0.154	± 1.66	1.50	1.24
DOE 4.5.2.3	PA-234M	SCAQC-7842-LD1	-0.048	± 1.41	0.524	± 1.81	0.573	0.500
DOE 4.5.2.3	PA-234M	SCAQC-7844-LD1	-0.058	± 1.96	2.17	± 1.89	2.23	1.64
DOE 4.5.2.3	TH-234	SCAQC-7844-LD1	0.866	± 0.346	0.722	± 0.267	0.145	0.663
DOE 4.5.2.3	TH-234	SCAQC-7845-LD1	1.04	± 0.379	1.15	± 0.444	0.118	0.404
DOE 4.5.2.3	TH-234	SCAQC-7842-LD1	0.927	± 0.385	0.901	± 0.371	0.026	0.098
DOE 4.5.2.3	TH-234	SCAQC-7843-LD1	0.979	± 0.396	0.684	± 0.465	0.295	0.967
DOE 4.5.2.3	U-235	SCAQC-7845-LD1	0.029	± 0.107	0.020	± 0.096	0.009	0.126
DOE 4.5.2.3	U-235	SCAQC-7842-LD1	-0.029	± 0.085	0.094	± 0.096	0.123	1.91
DOE 4.5.2.3	U-235	SCAQC-7843-LD1	-0.009	± 0.098	-0.091	± 0.099	0.083	1.19
DOE 4.5.2.3	U-235	SCAQC-7844-LD1	-0.034	± 0.099	0.051	± 0.099	0.084	1.20
DOE 4.5.2.3	NP-236	SCAQC-7844-LD1	0.020	± 0.032	0.019	± 0.031	5.9e-04	0.027
DOE 4.5.2.3	NP-236	SCAQC-7845-LD1	0.024	± 0.033	0.012	± 0.032	0.012	0.535
DOE 4.5.2.3	NP-236	SCAQC-7842-LD1	0.007	± 0.030	-0.003	± 0.030	0.010	0.496
DOE 4.5.2.3	NP-236	SCAQC-7843-LD1	0.028	± 0.035	-0.006	± 0.035	0.034	1.36
DOE 4.5.2.3	NP-237	SCAQC-7843-LD1	0.267	± 0.158	0.241	± 0.160	0.025	0.226
DOE 4.5.2.3	NP-237	SCAQC-7844-LD1	0.413	± 0.148	0.370	± 0.126	0.043	0.440
DOE 4.5.2.3	NP-237	SCAQC-7845-LD1	0.528	± 0.173	0.387	± 0.184	0.141	1.12
DOE 4.5.2.3	NP-237	SCAQC-7842-LD1	0.352	± 0.155	0.170	± 0.098	0.182	1.99
DOE 4.5.2.3	NP-239	SCAQC-7845-LD1	0.061	± 0.113	0.038	± 0.094	0.023	0.308
DOE 4.5.2.3	NP-239	SCAQC-7842-LD1	-0.046	± 0.087	0.013	± 0.101	0.059	0.887
DOE 4.5.2.3	NP-239	SCAQC-7843-LD1	-0.007	± 0.096	-0.009	± 0.104	0.002	0.022
DOE 4.5.2.3	NP-239	SCAQC-7844-LD1	-0.008	± 0.109	0.028	± 0.109	0.035	0.461
DOE 4.5.2.3	AM-241	SCAQC-7842-LD1	0.006	± 0.084	0.027	± 0.031	0.021	0.475
DOE 4.5.2.3	AM-241	SCAQC-7845-LD1	0.037	± 0.038	0.036	± 0.090	0.002	0.036
DOE 4.5.2.3	AM-241	SCAQC-7844-LD1	0.003	± 0.033	-0.003	± 0.034	0.006	0.261
DOE 4.5.2.3	AM-241	SCAQC-7843-LD1	-0.032	± 0.084	-0.040	± 0.090	0.008	0.133
DOE 4.5.2.3	AM-243	SCAQC-7842-LD1	0.147	± 0.047	0.123	± 0.038	0.023	0.773
DOE 4.5.2.3	AM-243	SCAQC-7844-LD1	0.135	± 0.041	0.117	± 0.036	0.018	0.645
DOE 4.5.2.3	AM-243	SCAQC-7843-LD1	0.141	± 0.050	0.146	± 0.055	0.006	0.160
DOE 4.5.2.3	AM-243	SCAQC-7845-LD1	0.149	± 0.043	0.157	± 0.054	0.008	0.220
DOE 4.5.2.3	CM-243/244	SCAQC-7845-LD1	0.038	± 0.048	-0.062	± 0.051	0.100	2.84
DOE 4.5.2.3	CM-243/244	SCAQC-7844-LD1	0.015	± 0.043	-0.013	± 0.043	0.028	0.933
DOE 4.5.2.3	CM-243/244	SCAQC-7842-LD1	-9.5e-04	± 0.043	0.026	± 0.041	0.027	0.915
DOE 4.5.2.3	CM-243/244	SCAQC-7843-LD1	0.039	± 0.050	0.011	± 0.051	0.028	0.776
DOE 4.5.2.3	AM-246	SCAQC-7844-LD1	0.021	± 0.055	-0.014	± 0.055	0.035	0.904
DOE 4.5.2.3	AM-246	SCAQC-7842-LD1	0.047	± 0.041	0.062	± 0.052	0.015	0.458
DOE 4.5.2.3	AM-246	SCAQC-7845-LD1	0.062	± 0.062	-0.037	± 0.045	0.098	2.58

Sanford Cohen & Associates
Southeastern Environmental Laboratory

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S7842_7845

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

DOE 4.5.2.3	AM-246	SCAQC-7843-LD1	0.023	± 0.051	0.006	± 0.050	0.017	0.478
DOE 4.5.2.3	CF-249	SCAQC-7845-LD1	-0.003	± 0.019	0.004	± 0.016	0.006	0.498
DOE 4.5.2.3	CF-249	SCAQC-7842-LD1	-9.3e-04	± 0.015	0.005	± 0.018	0.006	0.554
DOE 4.5.2.3	CF-249	SCAQC-7844-LD1	0.016	± 0.019	0.008	± 0.018	0.008	0.642
DOE 4.5.2.3	CF-249	SCAQC-7843-LD1	0.007	± 0.017	0.010	± 0.016	0.003	0.264

SAMPLE AND QC RESULTS SUMMARY

GPL Laboratories, LLLP
Frederick, MD

Analytical Report For 709115

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.

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

Fifty soil samples were received on 09/17/2007. 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

Fifty soil samples were analyzed for lead only by EPA SW846 method 6010C.

The samples were assumed 100 percent solid.

The matrix spike, matrix spike duplicate, and serial dilutions were performed on soil samples SB-CZ-SS-2000-ST, SB-CZ-SS-2020-ST, and SB-CZ-SS-2015-SD for lead. They were within the control limits

Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.

All GPL QA/QC criteria were met

Reviewed By,
Project Manager

Approved By,
Laboratory Director

Sample Summary Report

SC&A, Inc.

Work Order: 709115

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2000-SD	709115-026-026-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2000-ST	709115-001-001-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2001-SD	709115-027-027-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2001-ST	709115-002-002-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2002-SD	709115-028-028-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2002-ST	709115-003-003-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2003-SD	709115-029-029-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2003-ST	709115-004-004-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2004-SD	709115-030-030-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2004-ST	709115-005-005-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2005-SD	709115-031-031-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2005-ST	709115-006-006-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2006-SD	709115-032-032-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2006-ST	709115-007-007-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2007-SD	709115-033-033-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2007-ST	709115-008-008-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2008-SD	709115-034-034-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2008-ST	709115-009-009-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2009-SD	709115-035-035-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2009-ST	709115-010-010-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2010-SD	709115-036-036-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2010-ST	709115-011-011-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2011-SD	709115-037-037-1/1	SW6010C	SOIL	08/16/2007	09/17/2007

Sample Summary Report

SC&A, Inc.

Work Order: 709115

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2011-ST	709115-012-012-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2012-SD	709115-038-038-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2012-ST	709115-013-013-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2013-SD	709115-039-039-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2013-ST	709115-014-014-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2014-SD	709115-040-040-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2014-ST	709115-015-015-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2015-SD	709115-041-041-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2015-ST	709115-016-016-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2016-SD	709115-042-042-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2016-ST	709115-017-017-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2017-SD	709115-043-043-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2017-ST	709115-018-018-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2018-SD	709115-044-044-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2018-ST	709115-019-019-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2019-SD	709115-045-045-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2019-ST	709115-020-020-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2020-SD	709115-046-046-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2020-ST	709115-021-021-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2021-SD	709115-047-047-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2021-ST	709115-022-022-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2022-SD	709115-048-048-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2022-ST	709115-023-023-1/1	SW6010C	SOIL	08/16/2007	09/17/2007

Sample Summary Report

SC&A, Inc.

Work Order: 709115

Client Sample ID	Lab Sample ID	Analytical Method	Matrix	Date Sampled	Date Recieved
SB-CZ-SS-2023-SD	709115-049-049-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2023-ST	709115-024-024-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2024-SD	709115-050-050-1/1	SW6010C	SOIL	08/16/2007	09/17/2007
SB-CZ-SS-2024-ST	709115-025-025-1/1	SW6010C	SOIL	08/16/2007	09/17/2007

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2000-ST	Lab Sample ID:	709115-001-001-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**14.5**	**D**	**9.2**	**10**	**mg/kg**	**09/25/07**	**17:27**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2001-ST	Lab Sample ID:	709115-002-002-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.5**	**D**	**9.1**	**10**	**mg/kg**	**09/25/07**	**18:14**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2002-ST	Lab Sample ID:	709115-003-003-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.9**	**D**	**8.1**	**10**	**mg/kg**	**09/25/07**	**18:23**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2003-ST	Lab Sample ID:	709115-004-004-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.7**	**D**	**7.6**	**10**	**mg/kg**	**09/25/07**	**18:33**

Analytical Summary Report

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2004-ST	Lab Sample ID:	709115-005-005-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	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**	**09/25/07**	**19:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2005-ST	Lab Sample ID:	709115-006-006-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.5**	**D**	**8.8**	**10**	**mg/kg**	**09/25/07**	**19:13**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2006-ST	Lab Sample ID:	709115-007-007-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**18.3**	**D**	**8.4**	**10**	**mg/kg**	**09/25/07**	**19:22**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2007-ST	Lab Sample ID:	709115-008-008-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**14.8**	**D**	**8.3**	**10**	**mg/kg**	**09/25/07**	**19:31**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2008-ST	Lab Sample ID:	709115-009-009-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**21.1**	**D**	**9.1**	**10**	**mg/kg**	**09/25/07**	**19:41**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2009-ST	Lab Sample ID:	709115-010-010-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**22.7**	**D**	**8.3**	**10**	**mg/kg**	**09/25/07**	**19:50**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2010-ST	Lab Sample ID:	709115-011-011-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**114**	**D**	**8.4**	**10**	**mg/kg**	**09/25/07**	**19:59**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2011-ST	Lab Sample ID:	709115-012-012-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**115**	**D**	**8.9**	**10**	**mg/kg**	**09/25/07**	**20:09**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2012-ST	Lab Sample ID:	709115-013-013-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**329**	**D**	**9.1**	**10**	**mg/kg**	**09/25/07**	**20:18**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2013-ST	Lab Sample ID:	709115-014-014-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**308**	**D**	**9**	**10**	**mg/kg**	**09/25/07**	**20:27**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2014-ST	Lab Sample ID:	709115-015-015-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**253**	**D**	**8.5**	**10**	**mg/kg**	**09/28/07**	**15:07**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2015-ST	Lab Sample ID:	709115-016-016-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**83.1**	**D**	**8.4**	**10**	**mg/kg**	**09/28/07**	**15:16**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2016-ST	Lab Sample ID:	709115-017-017-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**27.0**	**D**	**9.2**	**10**	**mg/kg**	**09/28/07**	**15:24**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2017-ST	Lab Sample ID:	709115-018-018-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**25.7**	**D**	**8.8**	**10**	**mg/kg**	**09/28/07**	**15:32**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2018-ST	Lab Sample ID:	709115-019-019-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**15.4**	**D**	**8.9**	**10**	**mg/kg**	**09/28/07**	**15:41**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2019-ST	Lab Sample ID:	709115-020-020-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 10:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**16.6**	**D**	**8.1**	**10**	**mg/kg**	**09/28/07**	**16:09**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2020-ST	Lab Sample ID:	709115-021-021-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.7**	**D**	**8.6**	**10**	**mg/kg**	**09/28/07**	**16:37**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2021-ST	Lab Sample ID:	709115-022-022-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.3**	**D**	**8.3**	**10**	**mg/kg**	**09/28/07**	**17:18**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2022-ST	Lab Sample ID:	709115-023-023-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**15.4**	**D**	**8.5**	**10**	**mg/kg**	**09/28/07**	**17:27**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2023-ST	Lab Sample ID:	709115-024-024-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.8**	**D**	**8.2**	**10**	**mg/kg**	**09/28/07**	**17:55**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2024-ST	Lab Sample ID:	709115-025-025-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**13.0**	**D**	**8.5**	**10**	**mg/kg**	**09/28/07**	**18:03**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2000-SD	Lab Sample ID:	709115-026-026-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**10.6**	**D**	**8.6**	**10**	**mg/kg**	**09/28/07**	**18:11**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2001-SD	Lab Sample ID:	709115-027-027-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**9.4**	**D**	**8.3**	**10**	**mg/kg**	**09/28/07**	**18:20**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2002-SD	Lab Sample ID:	709115-028-028-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**16.3**	**D**	**8.4**	**10**	**mg/kg**	**09/28/07**	**18:28**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2003-SD	Lab Sample ID:	709115-029-029-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**10.0**	**D**	**8.7**	**10**	**mg/kg**	**09/28/07**	**18:36**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2004-SD	Lab Sample ID:	709115-030-030-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	Lead	8.4	JD	8.5	10	mg/kg	09/28/07	18:45

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2005-SD	Lab Sample ID:	709115-031-031-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	Lead	4.7	JD	9	10	mg/kg	09/28/07 18:53

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2006-SD	Lab Sample ID:	709115-032-032-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	Lead	6.7	JD	8.1	10	mg/kg	09/28/07	19:02

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2007-SD	Lab Sample ID:	709115-033-033-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**9.0**	**D**	**8.4**	**10**	**mg/kg**	**09/28/07**	**19:10**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2008-SD	Lab Sample ID:	709115-034-034-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time
1)	Lead	6.9	JD	9	10	mg/kg	09/28/07 19:38

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2009-SD	Lab Sample ID:	709115-035-035-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**8.9**	**D**	**8.3**	**10**	**mg/kg**	**09/28/07**	**19:46**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2010-SD	Lab Sample ID:	709115-036-036-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**53.0**	**D**	**8.3**	**10**	**mg/kg**	**09/28/07**	**19:55**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2011-SD	Lab Sample ID:	709115-037-037-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.2**	**D**	**8.8**	**10**	**mg/kg**	**09/28/07**	**20:03**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2012-SD	Lab Sample ID:	709115-038-038-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**32.0**	**D**	**8.6**	**10**	**mg/kg**	**09/28/07**	**20:11**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2013-SD	Lab Sample ID:	709115-039-039-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**19.3**	**D**	**8.1**	**10**	**mg/kg**	**09/28/07**	**20:20**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2014-SD	Lab Sample ID:	709115-040-040-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**20.8**	**D**	**9**	**10**	**mg/kg**	**09/28/07**	**20:28**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2015-SD	Lab Sample ID:	709115-041-041-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**64.6**	**D**	**8.6**	**10**	**mg/kg**	**09/28/07**	**21:38**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2016-SD	Lab Sample ID:	709115-042-042-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**12.5**	**D**	**8.1**	**10**	**mg/kg**	**09/28/07**	**22:20**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2017-SD	Lab Sample ID:	709115-043-043-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**11.4**	**D**	**8.9**	**10**	**mg/kg**	**09/28/07**	**22:28**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2018-SD	Lab Sample ID:	709115-044-044-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**10.9**	**D**	**8.2**	**10**	**mg/kg**	**09/28/07**	**22:36**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2019-SD	Lab Sample ID:	709115-045-045-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**9.2**	**D**	**8.5**	**10**	**mg/kg**	**09/28/07**	**23:04**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2020-SD	Lab Sample ID:	709115-046-046-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**9.2**	**D**	**8.6**	**10**	**mg/kg**	**09/28/07**	**23:13**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2021-SD	Lab Sample ID:	709115-047-047-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**10.7**	**D**	**8.3**	**10**	**mg/kg**	**09/28/07**	**23:21**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2022-SD	Lab Sample ID:	709115-048-048-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**10.7**	**D**	**8.6**	**10**	**mg/kg**	**09/28/07**	**23:29**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2023-SD	Lab Sample ID:	709115-049-049-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**8.6**	**D**	**8.3**	**10**	**mg/kg**	**09/28/07**	**23:38**

Client Name:	SC&A, Inc.	Sample Matrix:	SOIL
Client Sample ID:	SB-CZ-SS-2024-SD	Lab Sample ID:	709115-050-050-1/1
Sample Date/Time:	08/16/2007 15:02	Percent Moisture:	NA
Receipt Date/Time:	09/17/2007 14:54	Preparation Method:	SW3050B
Prepared Date/Time:	09/25/2007 12:00	Analytical Method:	SW6010C

#	Parameter	Reported Result	Q	Reporting Limit	Dil Fact	Units	Analysis Date/Time	
1)	**Lead**	**9.8**	**D**	**8.5**	**10**	**mg/kg**	**09/28/07**	**23:46**

GPL Laboratories, LLLP

Preparation Blank Results

Project:	709115	Matrix:	Soil
Lab Sample ID:	BLK100487	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100487
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	09/25/07 17:09

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Preparation Blank Results

Project:	709115	Matrix:	Soil
Lab Sample ID:	BLK100502	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100502
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	0.34	J	1	09/28/07 16:20

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Preparation Blank Results

Project:	709115	Matrix:	Soil
Lab Sample ID:	BLK100503	Percent Moisture:	0.0
Client Sample ID:	NA	Prep Batch:	100503
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	0.34	J	1	09/28/07 21:21

U = The analyte concentration was less than the MDL

J = Reported value was less than the CRQL but greater than or equal to the MDL

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2000-ST MS	Lab Sample ID:	SP709115-001-001-1/1
Project:	709115	Instrument:	P3050
Units:	mg/kg	Data File Name:	070925.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 09/25/07 17:37	Sample Result 09/25/07 17:27	Spike Added	%R
Lead	102.48	14.46	88.50	99

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2020-ST MS	Lab Sample ID:	SP709115-021-021-1/1
Project:	709115	Instrument:	V3050
Units:	mg/kg	Data File Name:	070928V.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 09/28/07 16:45	Sample Result 09/28/07 16:37	Spike Added	%R
Lead	95.21	12.67	82.64	100

GPL Laboratories, LLLP

Matrix Spike Recovery

Client ID:	SB-CZ-SS-2015-SD MS	Lab Sample ID:	SP709115-041-041-1/1
Project:	709115	Instrument:	V3050
Units:	mg/kg	Data File Name:	070928V.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 09/28/07 21:46	Sample Result 09/28/07 21:38	Spike Added	%R
Lead	134.10	64.58	84.03	83

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2000-ST MSD	Lab Sample ID:	SD709115-001-001-1/1
Project:	709115	Instrument:	P3050
Units:	mg/kg	Data File Name:	070925.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 09/25/07 17:46	Sample Result 09/25/07 17:27	Spike Added	%R
Lead	100.14	14.46	85.47	100

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2020-ST MSD	Lab Sample ID:	SD709115-021-021-1/1
Project:	709115	Instrument:	V3050
Units:	mg/kg	Data File Name:	070928V.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 09/28/07 16:53	Sample Result 09/28/07 16:37	Spike Added	%R
Lead	93.81	12.67	81.30	100

GPL Laboratories, LLLP

Matrix Spike Duplicate Recovery

Client ID:	SB-CZ-SS-2015-SD MSD	Lab Sample ID:	SD709115-041-041-1/1
Project:	709115	Instrument:	V3050
Units:	mg/kg	Data File Name:	070928V.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 09/28/07 21:54	Sample Result 09/28/07 21:38	Spike Added	%R
Lead	138.58	64.58	82.64	90

GPL Laboratories, LLLP

Duplicates RPD

Client ID:	SB-CZ-SS-2000-ST MSD	Lab Sample ID:	SD709115-001-001-1/1
Project:	709115	Instrument:	P3050
Units:	mg/kg	Data File Name:	070925.ARC

Analyte	Matrix Spike Original Sample Results	Matrix Spike Duplicate Sample Results	RPD	Control Limit	Q
Lead	102.48	100.14	2	20	D

GPL Laboratories, LLLP

Duplicates LPD

Client ID:	SB-CZ-SS-2020-ST MSD	Lab Sample ID:	SD709115-021-021-1/1
Project:	709115	Instrument:	V3050
Units:	mg/kg	Data File Name:	070928V.ARC

Analyte	~~Original~~ Sample Results	Duplicate Sample Results	RPD	Control Limit	Q
Lead	95.21	93.81	1	20	D

GPL Laboratories, LLLP

Duplicates RPD

Client ID:	SB-CZ-SS-2015-SD MSD	Lab Sample ID:	SD709115-041-041-1/1
Project:	709115	Instrument:	V3050
Units:	mg/kg	Data File Name:	070928V.ARC

Analyte	Matrix Spike ~~Original~~ Sample Results	Matrix Spike Duplicate Sample Results	RPD	Control Limit	Q
Lead	134.10	138.58	3	20	D

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	709115	Lab Sample ID:	BKS100487
Units:	mg/kg	Instrument:	P3050
		Data File Name:	070925.ARC
Standard Source:	H.P.	Standard ID:	

Analyte	Spiked Sample Result 09/25/07 17:18	Spike Added	%R
Lead	99.39	100.00	99

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	709115	Lab Sample ID:	BKS100502
Units:	mg/kg	Instrument:	V3050
		Data File Name:	070928V.ARC
Standard Source:	HIGH P	Standard ID:	

Analyte	Spiked Sample Result 09/28/07 16:28	Spike Added	%R
Lead	98.58	100.00	99

GPL Laboratories, LLLP

Laboratory Control Sample

Project:	709115	Lab Sample ID:	BKS100503
Units:	mg/kg	Instrument:	V3050
		Data File Name:	070928V.ARC
Standard Source:	HIGH P	Standard ID:	

Analyte	Spiked Sample Result 09/28/07 21:29	Spike Added	%R
Lead	97.55	100.00	98

Qualifier Definitions

SC&A, Inc.

Work Order: 709115

All Departments

U	Indicates that the compound was analyzed for but not detected
BQL	Below Quantitation Limit

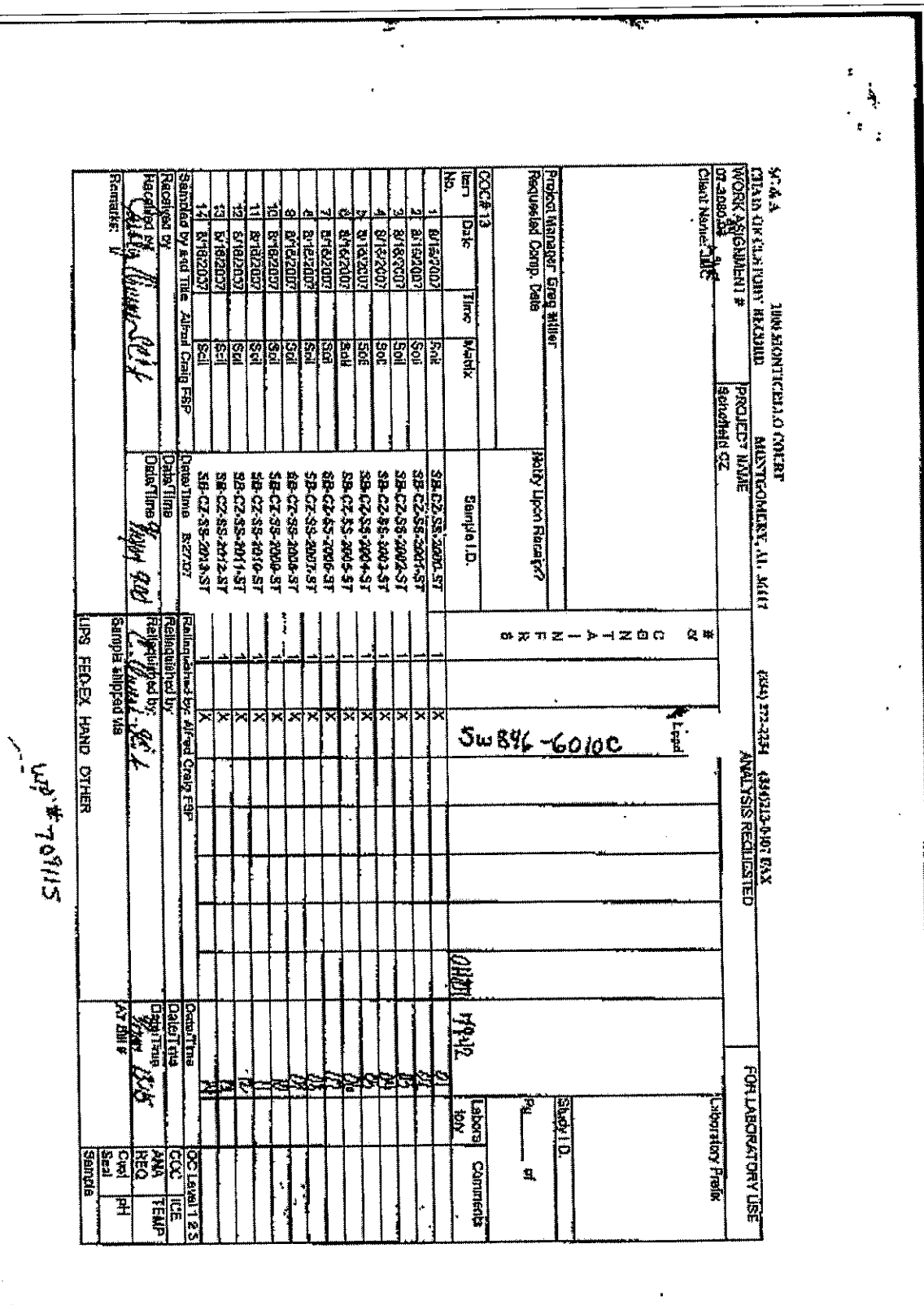
Organics

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

GPL Laboratories, LLLP
Chain of Custody
SC&A, Inc.
SDG: 709115



SC&A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0107 FAX

WORK ASSIGNMENT #	PROJECT NAME	ANALYSIS REQUESTED	FOR LABORATORY USE
07-3080.03	Schofield CZ		

Client Name: JBC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 13

Laboratory Prefix

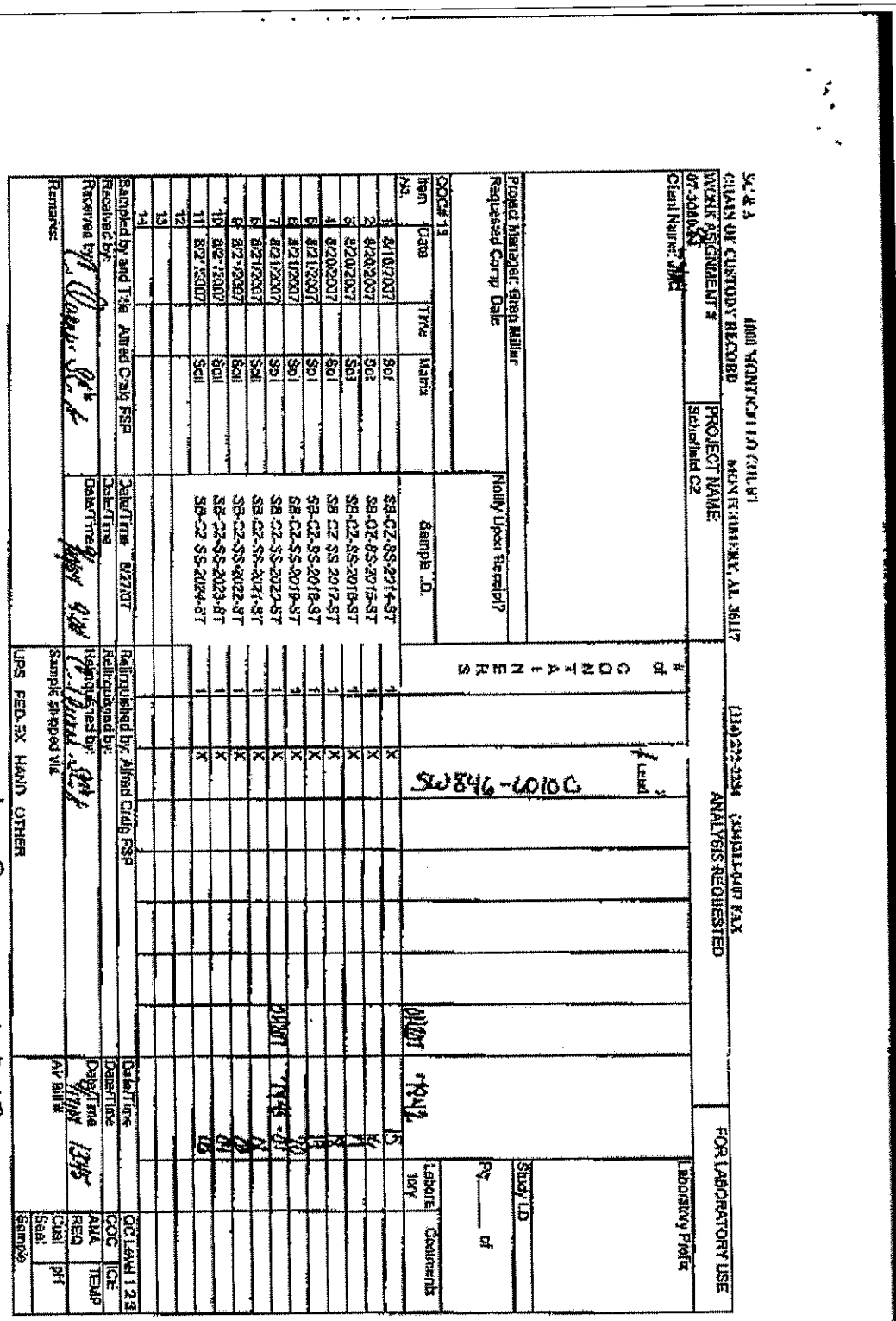
Study I.D.

Pg ____ of

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS		Lead SW846-6010C					OH201	7942	Laboratory	Comments
1	8/16/2007		Soil	SB-CZ-SS-2000-ST	1		X						01		
2	8/16/2007		Soil	SB-CZ-SS-2001-ST	1		X						02		
3	8/16/2007		Soil	SB-CZ-SS-2002-ST	1		X						03		
4	8/16/2007		Soil	SB-CZ-SS-2003-ST	1		X						04		
5	8/16/2007		Soil	SB-CZ-SS-2004-ST	1		X						05		
6	8/16/2007		Soil	SB-CZ-SS-2005-ST	1		X						06		
7	8/16/2007		Soil	SB-CZ-SS-2006-ST	1		X						07		
8	8/16/2007		Soil	SB-CZ-SS-2007-ST	1		X						08		
9	8/16/2007		Soil	SB-CZ-SS-2008-ST	1		X						09		
10	8/16/2007		Soil	SB-CZ-SS-2009-ST	1		X						10		
11	8/16/2007		Soil	SB-CZ-SS-2010-ST	1		X						11		
12	8/16/2007		Soil	SB-CZ-SS-2011-ST	1		X						12		
13	8/16/2007		Soil	SB-CZ-SS-2012-ST	1		X						13		
14	8/16/2007		Soil	SB-CZ-SS-2013-ST	1		X						14		

Sampled by and Title: Alfred Craig FSP	Date/Time: 8:27:07	Relinquished by: Alfred Craig FSP	Date/Time	QC Level 1 2 3	
Received by	Date/Time	Relinquished by	Date/Time	COC	ICE
Received by: [signature]	Date/Time: 9/10/07 9:00	Relinquished by: [signature]	Date/Time: 9/10/07 1315	ANA REQ	TEMP
Remarks:		Sample shipped via: UPS FED-EX HAND OTHER	Air Bill #	Cust Seal	pH
				Sample	

WP # 709115



SC&A, Inc. 1000 CENTRE PARK BLVD. SUITE 200 VESTAVIA HILLS, AL 35242 (205) 980-0540 FAX (205) 980-0541

CHAIN OF CUSTODY RECORD

PROJECT NAME: Schofield C2

WORK ASSIGNMENT #: 07-308083

Client Name: [illegible]

ANALYSIS REQUESTED

FOR LABORATORY USE

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

Sample I.D.

Date / Time

Matrix

# of Containers

Lead

Laboratory Comments

Study I.D.

Page ___ of ___

Item No.	Date	Time	Matrix	Sample I.D.	# of Containers	Lead	Laboratory Comments
1	8/16/2007		Soil	SB-C2-SS-2014-ST	1	X	
2	8/20/2007		Soil	SB-C2-SS-2015-ST	1	X	
3	8/20/2007		Soil	SB-C2-SS-2016-ST	1	X	
4	8/20/2007		Soil	SB C2 SS 2017-ST	1	X	
5	8/21/2007		Soil	SB-C2-SS-2018-ST	1	X	
6	8/21/2007		Soil	SB-C2-SS-2019-ST	1	X	
7	8/21/2007		Soil	SB-C2-SS-2020-ST	1	X	
8	8/21/2007		Soil	SB-C2-SS-2021-ST	1	X	
9	8/21/2007		Soil	SB-C2-SS-2022-ST	1	X	
10	8/21/2007		Soil	SB-C2-SS-2023-ST	1	X	
11	8/21/2007		Soil	SB-C2 SS-2024-ST	1	X	
12							
13							
14							

Sampled by and Title: Alfred Craig FSP — Date/Time: 8/27/07

Relinquished by: Alfred Craig FSP — Date/Time

Received by: — Date/Time

Relinquished by: — Date/Time

Received by: — Date/Time

Relinquished by: — Date/Time

Received by: — Date/Time

Remarks:

UPS FED-EX HAND OTHER

Sample shipped via

AV Bill #

QC LEVEL 1 2 3

COC

ICE

ANA

TEMP

REQ

Cust Seal

pH

Sample

WO# 709115

9-17-07 0930

SC & A 1000 MONTICELLO COURT
CHAIN OF CUSTODY RECORD MONTGOMERY, AL 36117 (334) 272-2234 (334)213-0487 FAX

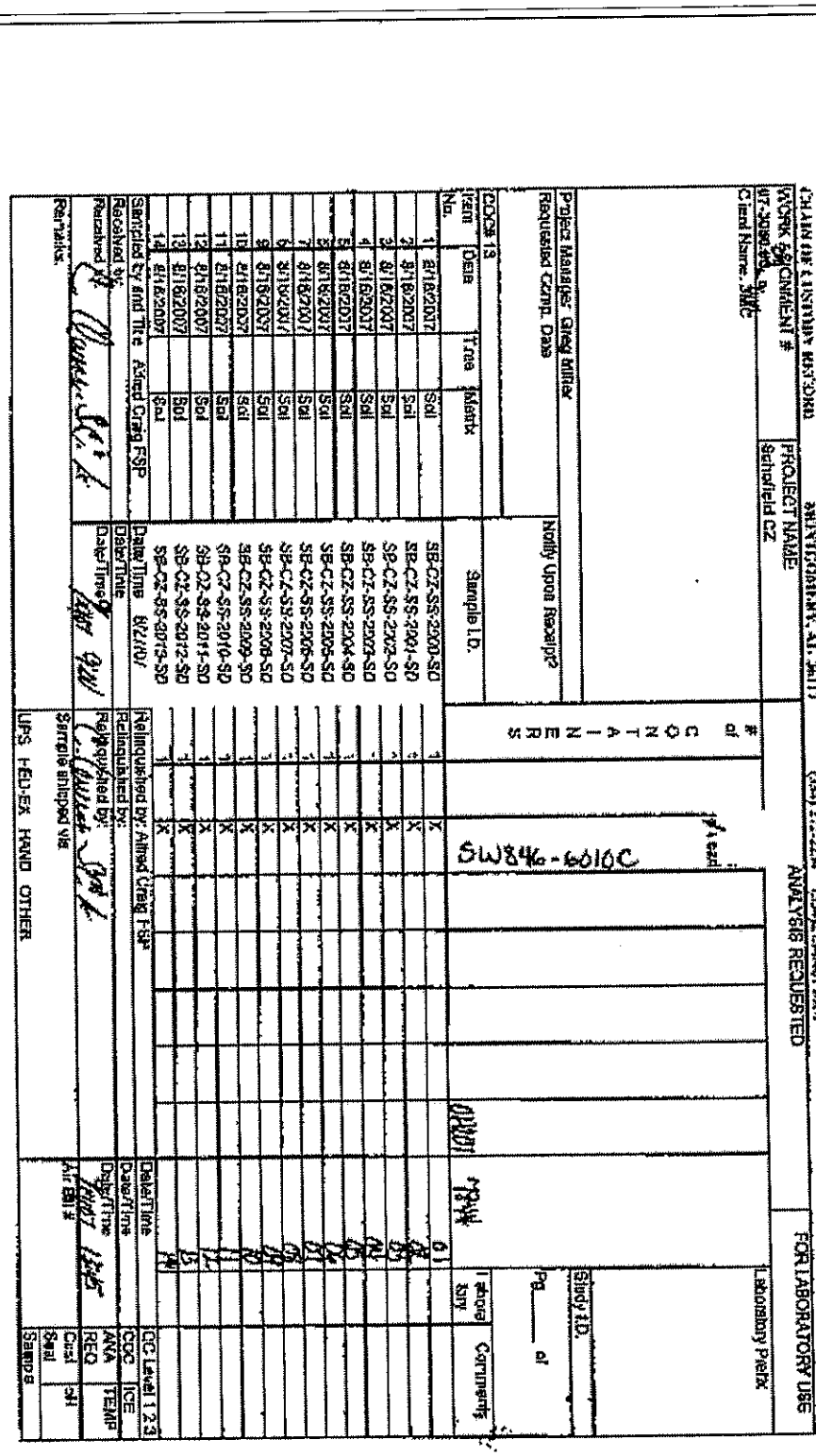
WORK ASSIGNMENT # 07-3080-00, by
PROJECT NAME: Schofield CZ
Client Name: SMC
Project Manager: Greg Miller
Requested Comp. Date
Notify Upon Receipt?
COC# 13

ANALYSIS REQUESTED

FOR LABORATORY USE
Laboratory Prefix
Study I.D.
Pg_____ of

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS	SW846-6010C					OH201	MAW 1844	Laboratory	Comments
1	8/16/2007		Soil	SB-CZ-SS-2000-SD	1	X						01		
2	8/16/2007		Soil	SB-CZ-SS-2001-SD	1	X						02		
3	8/16/2007		Soil	SB-CZ-SS-2002-SD	1	X						03		
4	8/16/2007		Soil	SB-CZ-SS-2003-SD	1	X						04		
5	8/16/2007		Soil	SB-CZ-SS-2004-SD	1	X						05		
6	8/16/2007		Soil	SB-CZ-SS-2005-SD	1	X						06		
7	8/16/2007		Soil	SB-CZ-SS-2006-SD	1	X						07		
8	8/16/2007		Soil	SB-CZ-SS-2007-SD	1	X						08		
9	8/16/2007		Soil	SB-CZ-SS-2008-SD	1	X						09		
10	8/16/2007		Soil	SB-CZ-SS-2009-SD	1	X						10		
11	8/16/2007		Soil	SB-CZ-SS-2010-SD	1	X						11		
12	8/16/2007		Soil	SB-CZ-SS-2011-SD	1	X						12		
13	8/16/2007		Soil	SB-CZ-SS-2012-SD	1	X						13		
14	8/16/2007		Soil	SB-CZ-SS-2013-SD	1	X						14		

Sampled by and Title: Alfred Craig FSP — Date/Time: 8/27/07
Relinquished by: Alfred Craig FSP — Date/Time
Received by: — Date/Time
Relinquished by: — Date/Time
Received by: C. Owens SC&A — Date/Time: 9/27/07 9:20
Relinquished by: C. Owens SC&A — Date/Time: 9/27/07 1345
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



WA# 709115

GPL Laboratories, LLLP

Chain of Custody

SC&A, Inc.

SDG: 709115

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
07-3080.00	Schofield CZ		

Client Name: JMC

Project Manager: Greg Miller

Requested Comp. Date

Notify Upon Receipt?

COC# 13

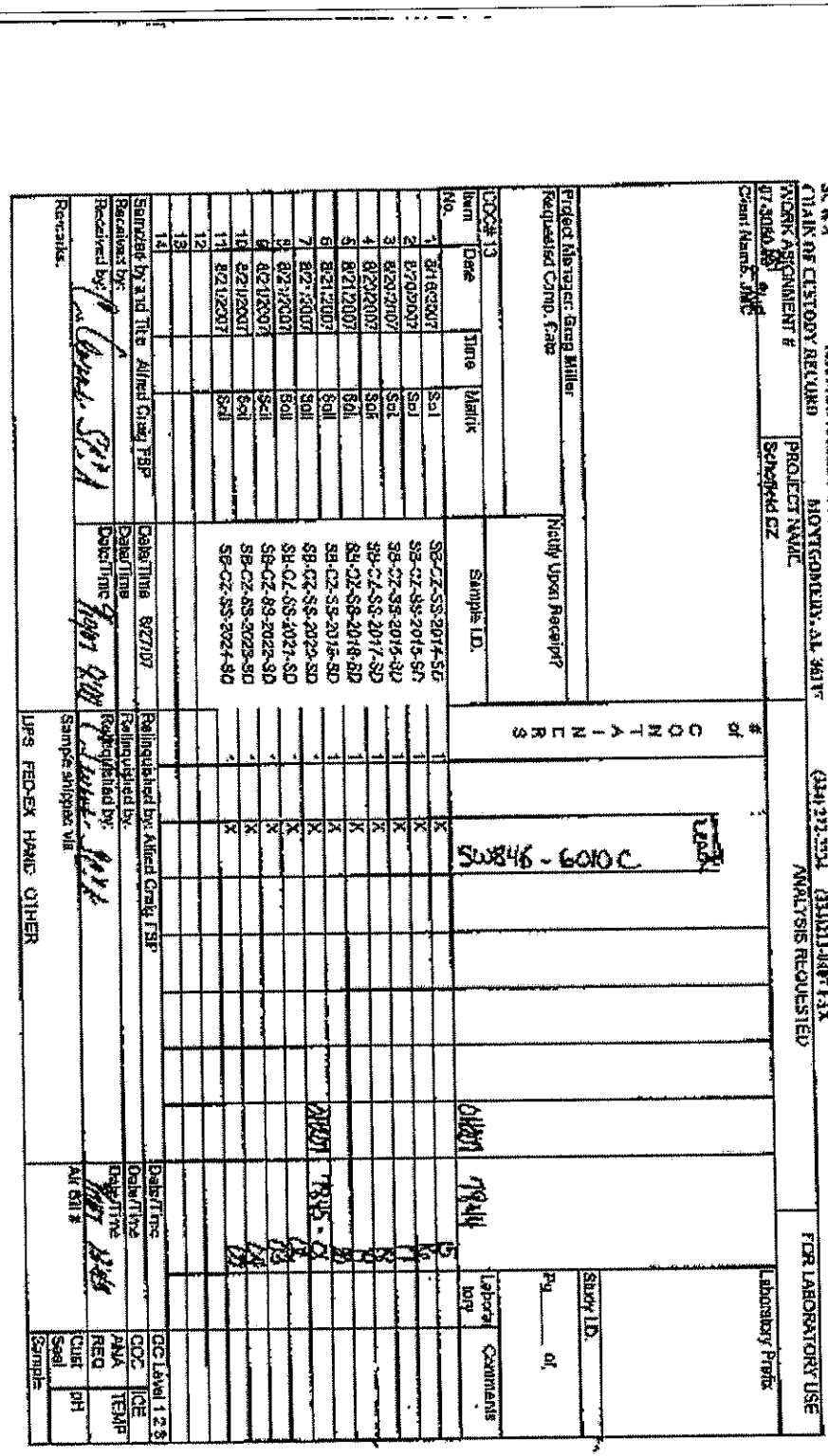
Laboratory Prefix

Study I.D.

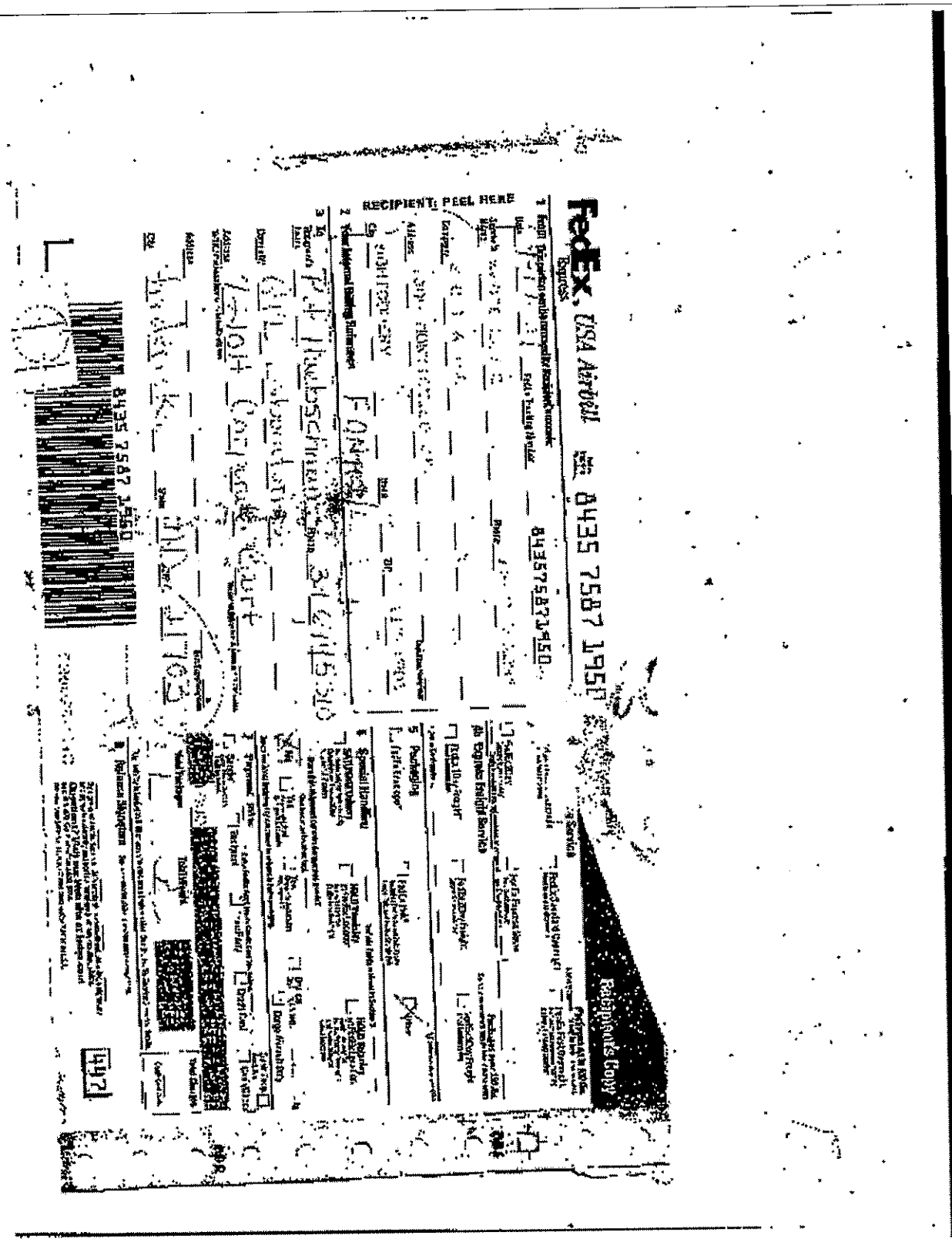
Pg ____ of

Item No.	Date	Time	Matrix	Sample I.D.	# of CONTAINERS								Laboratory	Comments
							LEAD SW846 - 6010C							
1	8/16/2007		Soil	SB-CZ-SS-2014-SD	1		X							
2	8/20/2007		Soil	SB-CZ-SS-2015-SD	1		X							
3	8/20/2007		Soil	SB-CZ-SS-2016-SD	1		X							
4	8/20/2007		Soil	SB-CZ-SS-2017-SD	1		X							
5	8/21/2007		Soil	SB-CZ-SS-2018-SD	1		X							
6	8/21/2007		Soil	SB-CZ-SS-2019-SD	1		X							
7	8/21/2007		Soil	SB-CZ-SS-2020-SD	1		X							
8	8/21/2007		Soil	SB-CZ-SS-2021-SD	1		X							
9	8/21/2007		Soil	SB-CZ-SS-2022-SD	1		X							
10	8/21/2007		Soil	SB-CZ-SS-2023-SD	1		X							
11	8/21/2007		Soil	SB-CZ-SS-2024-SD	1		X							
12														
13														
14														

Sampled by and Title Alfred Craig FSP	Date/Time 8/27/07	Relinquished by: Alfred Craig FSP	Date/Time	CC Level 1 2 3
Received by:	Date/Time	Relinquished by:	Date/Time	COC / ICE
Received by: C. Carne SC&A	Date/Time 9/10/07 9:00	Relinquished by: C. Carne SC&A	Date/Time 9/10/07 13:45	ANA REQ / TEMP
Remarks:		Sample shipped via: UPS FED-EX HAND OTHER	Air Bill #	Cust Seal / pH
				Sample



709115


FedEx
RECIPIENT: PEEL HERE
8435 7587 1950

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 709115
Client Name: SC&A
Date Received: 9-17-07
Time Received: 0930
Received By: Steve

Carrier Name: Fed-ex
Prepared (Logged In) By: LJG / 9-21-07
Initials Date
Project: _____
Site: _____
VOA Holding Blank I.D. No: _____

	YES	NO
Airbill/Manifest Present? No. 8435 7587 1950	✓	
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 _____	✓	
Custody seals on Sample Bottles? Condition: Good ___ Broken ___		✓
Total Number of Sample Bottles ___		
Total Number of Samples ___		
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: 9-21-07

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: [signature]
Date: 9-21-07

SOP No: F.2V15

PREPARATION LOGS

SC&A, Inc.
Southeastern Environmental Laboratory

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: UH207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7842

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet or L) g-wet	Initials Date
01	932.5	CW 9/10/01
02	1130.7	
03	950.9	
04	1195.2	
05	880.2	
06	864.2	
07	935.9	
08	973.2	
09	1010.2	
10	958.3	
11	1092.1	
12	897.1	
13	934.1	
14	1105.6	
15	1010.5	
16	875.3	
17	939.9	
18	1141.1	
19	836.4	
20	875.1	

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

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH207. Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7843

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g-wet	Initials Date
01	1065.2	CD 9/10/01
02	1119.1	
03	1246.7	
04	1038.5	
05	980.8	

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

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7844

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L)	Initials Date
01	985.4	CD 9/10/07
02	1367.5	
03	1070.1	
04	1226.6	
05	1019	
06	903.8	
07	966.4	
08	1066.8	
09	1053.3	
10	1086.1	
11	1266.1	
12	1143.6	
13	1033.3	
14	1102.5	
15	1133.4	
16	1088.9	
17	1043.1	
18	1185.3	
19	944.8	
20	1092.0	

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

PREPARATION SUMMARY

Sample Volume Received

Sample Prefix: OH207 Sample Matrix: Soil SOP No.: 302

Sample Batch Number: 7945

Balance I.D. 1138

Sample Number	Approximate Weight or Volume of Sample Received (g-wet of L) g wet	Initials Date
01	853.2	CD 9/10/07
02	1067.5	↓
03	1218.4	↓
04	960.1	↓
05	946.4	↓

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

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 04267
Sample Batch Number: 7892
Balance I.D.: 1139

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 9-17-07 sealed

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L) g-dry	Initials/Date
01	~~495.9~~ 485.9	FBM 9-17-07 CD 9/17/07
02	548.0	
03	468.6	
04	563.7	
05	520.8	
06	412.4	
07	412.0	
08	441.8	
09	436.7	
10	422.4	
11	492.6	
12	412.1	
13	446.4	
14	540.3	
15	482.6	
16	378.8	
17	390.3	
18	431.6	
19	337.4	
20	409.5	

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

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 041207
Sample Batch Number: 7843
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 9-17-07 stacked

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L)	Initials/Date
01	403.7	CA 9/19/07
02	490.5	
03	478.1	
04	425.2	
05	361.0	

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

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: OH207
Sample Batch Number: 7844
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 9-17-07 [illegible]

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L)	Initials/Date
01	455.4	CA 9/17/07
02	611.7	
03	505.1	
04	600.8	
05	459.3	
06	407.9	
07	424.7	
08	524.2	
09	473.1	
10	509.4	
11	549.7	
12	451.9	
13	493.8	
14	487.1	
15	497.6	
16	386.8	
17	480.7	
18	550.1	
19	415.4	
20	445.8	

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

PREPARATION SUMMARY

Gamma Spectrometry Liquid or Solid Preparation Log

Sample Prefix: 04201
Sample Batch Number: 7945
Balance I.D.: 1138

Sample Matrix: Soil
Sample Geometry: 400 ml

SOP No.: 302
Date: 9-19-07 modified

Sample Number	Total Sample Used for Gamma Analysis (g, g-wet, g-dry, mL, L)	Initials/Date
01	419.3	CD 9/19/07
02	438.6	"
03	549.4	"
04	408.1	"
05	425.7	"

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

PREPARATION LOGS

GPL Laboratories, LLLP
Frederick, MD

GPL Laboratories, LLLP

Preparation Log

Project: 709115 Instrument: P3050

Prep Method: Preparation for the Manual Cold Batch Number: 100487

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100487	BLK100487	09/25/2007	1.00	100
BKS100487	BKS100487	09/25/2007	1.00	100
S 709115-001-001-1/1	SB-CZ-SS-2000-ST	09/25/2007	1.09	100
SP709115-001-001-1/1	SB-CZ-SS-2000-ST MS	09/25/2007	1.13	100
S 709115-002-002-1/1	SB-CZ-SS-2001-ST	09/25/2007	1.10	100
S 709115-003-003-1/1	SB-CZ-SS-2002-ST	09/25/2007	1.23	100
S 709115-004-004-1/1	SB-CZ-SS-2003-ST	09/25/2007	1.31	100
S 709115-005-005-1/1	SB-CZ-SS-2004-ST	09/25/2007	1.15	100
S 709115-006-006-1/1	SB-CZ-SS-2005-ST	09/25/2007	1.14	100
S 709115-007-007-1/1	SB-CZ-SS-2006-ST	09/25/2007	1.19	100
S 709115-008-008-1/1	SB-CZ-SS-2007-ST	09/25/2007	1.20	100
S 709115-009-009-1/1	SB-CZ-SS-2008-ST	09/25/2007	1.10	100
S 709115-010-010-1/1	SB-CZ-SS-2009-ST	09/25/2007	1.20	100
S 709115-011-011-1/1	SB-CZ-SS-2010-ST	09/25/2007	1.19	100
S 709115-012-012-1/1	SB-CZ-SS-2011-ST	09/25/2007	1.12	100
S 709115-013-013-1/1	SB-CZ-SS-2012-ST	09/25/2007	1.10	100
S 709115-014-014-1/1	SB-CZ-SS-2013-ST	09/25/2007	1.11	100
SD709115-001-001-1/1	SB-CZ-SS-2000-ST MSD	09/25/2007	1.17	100
S 709115-015-015-1/1	SB-CZ-SS-2014-ST	09/25/2007	1.18	100
S 709115-016-016-1/1	SB-CZ-SS-2015-ST	09/25/2007	1.19	100
S 709115-017-017-1/1	SB-CZ-SS-2016-ST	09/25/2007	1.09	100
S 709115-018-018-1/1	SB-CZ-SS-2017-ST	09/25/2007	1.13	100
S 709115-019-019-1/1	SB-CZ-SS-2018-ST	09/25/2007	1.12	100
S 709115-020-020-1/1	SB-CZ-SS-2019-ST	09/25/2007	1.24	100

GPL Laboratories, LLLP

Preparation Log

Project: 709115 Instrument: V3050

Prep Method: Batch Number: 100502

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100502	BLK100502	09/25/2007	1.00	100
BKS100502	BKS100502	09/25/2007	1.00	100
S 709115-026-026-1/1	SB-CZ-SS-2000-SD	09/25/2007	1.16	100
S 709115-027-027-1/1	SB-CZ-SS-2001-SD	09/25/2007	1.21	100
S 709115-028-028-1/1	SB-CZ-SS-2002-SD	09/25/2007	1.19	100
S 709115-029-029-1/1	SB-CZ-SS-2003-SD	09/25/2007	1.15	100
S 709115-030-030-1/1	SB-CZ-SS-2004-SD	09/25/2007	1.17	100
S 709115-031-031-1/1	SB-CZ-SS-2005-SD	09/25/2007	1.11	100
S 709115-032-032-1/1	SB-CZ-SS-2006-SD	09/25/2007	1.24	100
S 709115-033-033-1/1	SB-CZ-SS-2007-SD	09/25/2007	1.19	100
S 709115-034-034-1/1	SB-CZ-SS-2008-SD	09/25/2007	1.11	100
S 709115-035-035-1/1	SB-CZ-SS-2009-SD	09/25/2007	1.21	100
S 709115-036-036-1/1	SB-CZ-SS-2010-SD	09/25/2007	1.20	100
S 709115-037-037-1/1	SB-CZ-SS-2011-SD	09/25/2007	1.13	100
S 709115-038-038-1/1	SB-CZ-SS-2012-SD	09/25/2007	1.16	100
S 709115-039-039-1/1	SB-CZ-SS-2013-SD	09/25/2007	1.24	100
S 709115-040-040-1/1	SB-CZ-SS-2014-SD	09/25/2007	1.11	100
S 709115-021-021-1/1	SB-CZ-SS-2020-ST	09/25/2007	1.16	100
SP709115-021-021-1/1	SB-CZ-SS-2020-ST MS	09/25/2007	1.21	100
S 709115-022-022-1/1	SB-CZ-SS-2021-ST	09/25/2007	1.20	100
S 709115-023-023-1/1	SB-CZ-SS-2022-ST	09/25/2007	1.17	100
S 709115-024-024-1/1	SB-CZ-SS-2023-ST	09/25/2007	1.22	100
S 709115-025-025-1/1	SB-CZ-SS-2024-ST	09/25/2007	1.17	100
SD709115-021-021-1/1	SB-CZ-SS-2020-ST MSD	09/25/2007	1.23	100

GPL Laboratories, LLLP

Preparation Log

Project: 709115 Instrument: V3050

Prep Method: Batch Number: 100503

Lab Sample ID	Client ID	Preparation Date	Initial Weight (grams)	Final Volume (ml)
BLK100503	BLK100503	09/25/2007	1.00	100
BKS100503	BKS100503	09/25/2007	1.00	100
S 709115-041-041-1/1	SB-CZ-SS-2015-SD	09/25/2007	1.16	100
SP709115-041-041-1/1	SB-CZ-SS-2015-SD MS	09/25/2007	1.19	100
S 709115-042-042-1/1	SB-CZ-SS-2016-SD	09/25/2007	1.23	100
S 709115-043-043-1/1	SB-CZ-SS-2017-SD	09/25/2007	1.12	100
S 709115-044-044-1/1	SB-CZ-SS-2018-SD	09/25/2007	1.22	100
S 709115-045-045-1/1	SB-CZ-SS-2019-SD	09/25/2007	1.18	100
S 709115-046-046-1/1	SB-CZ-SS-2020-SD	09/25/2007	1.16	100
S 709115-047-047-1/1	SB-CZ-SS-2021-SD	09/25/2007	1.20	100
S 709115-048-048-1/1	SB-CZ-SS-2022-SD	09/25/2007	1.16	100
S 709115-049-049-1/1	SB-CZ-SS-2023-SD	09/25/2007	1.20	100
S 709115-050-050-1/1	SB-CZ-SS-2024-SD	09/25/2007	1.17	100
SD709115-041-041-1/1	SB-CZ-SS-2015-SD MSD	09/25/2007	1.21	100

Metals Preparation & Sample Description Log

ate: 9-25-07 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A/ ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198131

nalyst: MH Comments: MOD BLOCK DIGESTION (50C -

eviewed by: [illegible] Date: 10/1/07 Spike Witness: [illegible] Pep. Seq: 100487

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
BLK	131		1.00	100	S				clear	-
BKS	131		1.00							-
709115	001	-001 ÷	1.09		Soil	Brown	yello	Medium		-
	MS		1.13							
	MSD		1.17							
	002	-002 ÷	1.10							
	003	-003 ÷	1.23							
	004	-004 ÷	1.31							
	005	-005 ÷	1.15							
	006	-006 ÷	1.14							
	007	-007 ÷	1.19							
	008	-008 ÷	1.20							
	009	-009 ÷	1.10							
	010	-010 ÷	1.20							
	011	-011 ÷	1.19							
	012	-012 ÷	1.12							
	013	-013 ÷	1.10							
	014	-014 ÷	1.11							
	015	-015 ÷	1.18							
	016	-016 ÷	1.19							
	017	-017 ÷	1.09							
	018	-018 ÷	1.13							
	019	-019 ÷	1.12							
	020	-020 ÷	1.24					MH	9-25-07	

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

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

mperature C: 9.0

HNO3(1+1) ID: GP-05 7-157-05

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: 9-25-2007 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198-132

Analyst: D.S. Comments: MED BLOCK DIGESTION (SOIL)

Reviewed by: 10/2/07 Date: 10/2/07 Spike Witness: MSJ Pep. Seq: 100502

	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	132		1.00	100	S				clear	—
2	BKS	132									—
3	709115	021	021 1/1	1.16		SOIL	Brown	Yellow	Medium		—
4		MS		1.21							
5		MSD		1.23							
6		022	022 1/1	1.20							
7		023	023 1/1	1.17							
8		024	024 1/1	1.22							
9		025	025 1/1	1.17							
10		026	026 1/1	1.16							
11		027	027 1/1	1.21							
12		028	028 1/1	1.19							
13		029	029 1/1	1.15							
14		030	030 1/1	1.17							
15		031	031 1/1	1.11							
16		032	032 1/1	1.24							
17		033	033 1/1	1.19							
18		034	034 1/1	1.11							
19		035	035 1/1	1.21							
20		036	036 1/1	1.20							
21		037	037 1/1	1.13							
22		038	038 1/1	1.16							
23		039	039 1/1	1.24							
24		040	040 1/1	1.11					9-25-07	9-25-07	

LCS ID/ Amt. Added (ml,g): 0.2 ml (40827 40828 40829) HNO3(1+1) ID: GP-057-15-05

Spiking ID / Amt. Added (ml) 0.2 ml (40827 40828 40829) HNO3(conc) ID: GP-129-11-03

10 ml 1:1 HNO_3, 10 ml HNO_3 conc, 5 ml H_2O_2, 10 ml HCl conc HCl(conc) ID: GP-125-11-04

Temperature C: 94°C HCl(1+1) ID: —

Peroxide ID: GP-129-10-12

Metals Preparation & Sample Description Log

Date: 9-25-2007 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.3 Batch No.: 198-133

Analyst: D S S. Comments: MOD BLOCK DIGESTION (SOIL)

Reviewed by: [illegible] Date: 11/1/07 Spike Witness: MSJ Pep. Seq: 100503

	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	133		1.00	100	S				Clear	—
2	BKS	133		1.00							—
3	709115	041	041 -1/1	1.16		Soil	Brown	Yellow	Medium		—
4		MS		1.19							
5		MSD	✓	1.21							
6		042	042 -1/1	1.23							
7		043	043 -1/1	1.12							
8		044	044 -1/1	1.22							
9		045	045 -1/1	1.18							
10		046	046 -1/1	1.16							
11		047	047 -1/1	1.20							
12		048	048 -1/1	1.16							
13		049	049 -1/1	1.20							
14	✓	050	050 -1/1	1.17							
15	709117	041	041 -1/1	1.11							
16		042	042 -1/1	1.12							
17		043	043 -1/1	1.20							
18		044	044 -1/1	1.15							
19		045	045 -1/1	1.13							
20		046	046 -1/1	1.12							
21		047	047 -1/1	1.14							
22	✓	048	048 -1/1	1.18	✓	✓	✓	✓	✓	✓	✓
23											
24											

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

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

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

Temperature C: / 94°C /

HNO3(1+1) ID: GP-057-157-05

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

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

HCl(1+1) ID: —

Peroxide ID: GP-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

Approving Official LIA STEWART

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

PPQ FORM 525B (8/94)

PART 1 - PERMITTEE

Soil Permit

Permit Number: S-73685

UNITED STATES DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service

Plant Protection and Quarantine

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

TELEPHONE: (301) 694-5310

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

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

SEPTEMBER 30, 2010
Expiration Date

Lia Stewart
Approving Official LIA STEWART

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

PPQ FORM 525B (8/94)

PART 1 - PERMITTEE

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

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

STANDARDS SUMMARY

S-142

ANALYTICS

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

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

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

67834-301

400 mL Sand in 500 mL Plastic Container

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

Calibration date: January 1, 2004 12:00 EST

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

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

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

Q A APPROVED: 4-5-04

This standard will expire one year after the calibration date.

ANALYTICS

S142-150

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: 640 g

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 (^{60}Co) Date 6-08-07

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

Measurement Results

Measurement (n)	Concentration (x) (pC./Sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	32,540	520	270,400
2	31,800	220	48,400
3	31,730	290	84,100
4			
5			
Mean	32,020 pC./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~~ pC./~~ml~~ Sample) 2.8%

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

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

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

VERIFICATION OF
STANDARD CONCENTRATION

Standard I.D. No. S 142 Isotope Mixed Gamma (^{109}Cd) Date 6-08-07

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

Measurement Results

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

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

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

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

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

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

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

VERIFICATION OF
STANDARD CONCENTRATION

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

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

Measurement Results

Measurement (n)	Concentration (x) (pCi/Sample)	Difference $(\Delta x_n)^a$	$(\Delta x_n)^2$
1	21,880	850	722,500
2	21,200	170	28,900
3	20,000	1030	1,060,900
4			
5			
Mean	21,030 pCi/Sample		Σ 1,812,300

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

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

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

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

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

Concentration Verified ✓ not Verified _____

Comments: _____

Signature R. Blanchard

COUNTING RAW DATA

SC&A, Inc.
Southeastern Environmental Laboratory

BENCH SHEET

Method:	Gamma Spec (DOE 4.5.2.3)	Project Name:	Cabrera Services-Oahu, HI
Analysis Type:	Gamma (DOE 21 day ing	Project Location:	
Matrix:	Soil	Project Number:	FOAH2/L
Date Received:	9/10/2007	Client Project Manager:	Greg Miller
SC&A Project Manager:			
S7842 7845			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7842-PB		9/10/2007 9:00:00 AM	
SCAQC	7842-LD1 OH207-7842-01	SB-CZ-SS-2000-ST	8/16/2007	
SCAQC	7842-LC1		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7842-01 ✓	SB-CZ-SS-2000-ST	8/16/2007	
OH207	7842-02 ✓	SB-CZ-SS-2001-ST	8/16/2007	
OH207	7842-03 ✓	SB-CZ-SS-2002-ST	8/16/2007	
OH207	7842-04 ✓	SB-CZ-SS-2003-ST	8/16/2007	
OH207	7842-05 ✓	SB-CZ-SS-2004-ST	8/16/2007	
OH207	7842-06 ✓	SB-CZ-SS-2005-ST	8/16/2007	
OH207	7842-07 ✓	SB-CZ-SS-2006-ST	8/16/2007	
OH207	7842-08 ✓	SB-CZ-SS-2007-ST	8/16/2007	
OH207	7842-09 ✓	SB-CZ-SS-2008-ST	8/16/2007	
OH207	7842-10 ✓	SB-CZ-SS-2009-ST	8/16/2007	
OH207	7842-11 ✓	SB-CZ-SS-2010-ST	8/16/2007	
OH207	7842-12 ✓	SB-CZ-SS-2011-ST	8/16/2007	
OH207	7842-13 ✓	SB-CZ-SS-2012-ST	8/16/2007	
OH207	7842-14 ✓	SB-CZ-SS-2013-ST	8/16/2007	
OH207	7842-15 ✓	SB-CZ-SS-2014-ST	8/16/2007	
OH207	7842-16 ✓	SB-CZ-SS-2015-ST	8/20/2007	
OH207	7842-17 ✓	SB-CZ-SS-2016-ST	8/20/2007	
OH207	7842-18 ✓	SB-CZ-SS-2017-ST	8/20/2007	
OH207	7842-19 ✓	SB-CZ-SS-2018-ST	8/21/2007	
OH207	7842-20 ✓	SB-CZ-SS-2019-ST	8/21/2007	

T.T. Moore 10/17/2007
Radiochemistry Reviewer Date

Smith White 10-24-07
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 (Analys. seq file: SCHOFIELD BARRACKS)
9-19-07 0956 G1 WL	180	SCAQC	7842	PB1	–	9-10-07 9:00	Prep BLK	Liquid	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ WL 10 mL Sand ☐ 200 mL Sand ☐
9-18-07 WL 1530 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 ☐
9-18-07 1532 G3	180			LD1	–	8-16-2007	Dup 7842-01		485.9 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-18-07 0952 G1 WL	180	OH207		01	–		SB-CZ-SS-2000-ST		485.9	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-18-07 2014 G3 WL	180			02	–		SB-CZ-SS-2001-ST		548.0 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 WL 1058 G2				03	–		SB-CZ-SS-2002-ST		468.6 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 WL 1100 G3				04	–		SB-CZ-SS-2003-ST		563.7 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 WL 1300 G1				05	–		SB-CZ-SS-2004-ST		520.0	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 G2				06	–		SB-CZ-SS-2005-ST		412.4 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 WL 1442 G3	↓	↓	↓	07	–	↓	SB-CZ-SS-2006-ST	↓	412.0	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

SC&A - Southeastern Environmental Laboratory
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
9-19-07 1747 G2 W	180	OH207	7842	08	—	8-16-07	SB-CZ-SS-2007-ST	SOIL	471.0 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 1745 G3 W				09	—		SB-CZ-SS-2008-ST		436.7 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 2127 G2 SH				10	—		SB-CZ-SS-2009-ST		422.4 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 2130 G3 SH				11	—		SB-CZ-SS-2010-ST		492.6 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 0945 G1 W				12	—		SB-CZ-SS-2011-ST		412.1 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 1014 G3 W				13	—		SB-CZ-SS-2012-ST		446.4 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 13:18 G3 W				14	—		SB-CZ-SS-2013-ST		540.3 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 G2				15	—		SB-CZ-SS-2014-ST		482.6 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 1356 G1 W				16	—	8-20-07	SB-CZ-SS-2015-ST		378.8 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 1706 G1 W				17	—		SB-CZ-SS-2016-ST		390.3 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

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
9-20-07 1701 G2 W	180	OH207	7842	18	—	8-20-07	SB-CZ-SS-2017-ST	soil	431.6 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 1703 W G3				19	—	8-21-07	SB-CZ-SS-2018-ST		337.40 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 2045 G1 W				20	—	8-21-07	SB-CZ-SS-2019-ST		409.5 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 1119 G2 W	60	SCAQC	7892	PB	—	9-19-07 0845	Prep Blk	Liquid	1L	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand Ra224planchet 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 1223 G2	60	SCAQC	7892	LC1	—	Now	Ctrl Samp	Liquid	1L	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand Ra224planchet 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 1247 pm G1	60	SCAQC	7892	LD1	—	Now	Dup-7892-LC1	Liquid	1L	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand Ra224planchet 10 mL Sand ☐ 200 mL Sand ☐
9-19-07 1709 G1 W	500	VWU07	7892	01	—	9-18-07 0900	07-06	Liquid	5L	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand Ra224planchet 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1016 W G2	180	SCAQC	7843	PB1	—	9-10-07 09:00	Prep BLK	8 W Liquid	400 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1102 G3	60			LC1	—		CTRL SAMP S-142	soil	640 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1008 W G1	180			LD1	—	8-21-07	DUP-7843-01	soil	403.7 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

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:09:46

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7842PB1_GAMMA1_400MLSA_15899.CNF

---- Sample Information ----

Sample ID	: SCAQC-7842-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15899		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 19-SEP-2007 09:56:13
Decay time	: 9 00:56:13.51	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.18

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	351.87*	43	53	0.78	703.81	700	8	70.4		
0	1120.42*	18	9	1.51	2242.45	2236	12	91.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	351.87	43	53	0.78	703.81	700	8	4.02E-03	70.4	1.99E+00	T
0	1120.42	18	9	1.51	2242.45	2236	12	1.64E-03	91.8	8.49E-01	T

Flags: "T" = Tentatively associated

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	-5.190E-02		1.231E-01	2.311E-01	1.577E-02	-0.225
CO-60	6.345E-03		8.501E-03	1.689E-02	1.102E-03	0.376
RH-101	3.647E-04		9.463E-03	1.650E-02	2.559E-03	0.022
SB-125	-1.107E-02		2.570E-02	4.368E-02	3.582E-03	-0.254
CS-137	6.002E-03		9.583E-03	1.885E-02	2.025E-03	0.318
EU-155	3.022E-03		2.976E-02	5.234E-02	5.196E-03	0.058
TL-208	2.381E-03		1.165E-02	2.101E-02	2.108E-03	0.113
PO-209	-2.219E-01		1.921E+00	3.472E+00	6.214E-01	-0.064
BI-211	-1.308E-01		2.460E-01	4.234E-01	3.085E-02	-0.309
BI-212	-8.433E-03		7.769E-02	1.408E-01	1.355E-02	-0.060
PB-212	-3.628E-03		1.757E-02	2.951E-02	2.277E-03	-0.123
BI-214	2.275E-02		2.371E-02	4.394E-02	4.475E-03	0.518
PB-214	3.631E-02	+	2.573E-02	4.304E-02	3.396E-03	0.844
RA-223	-6.473E-03		4.968E-02	8.569E-02	7.885E-03	-0.076
AC-228	-1.888E-02		3.516E-02	6.152E-02	3.400E-03	-0.307
PA-233	1.702E-02		1.711E-02	3.275E-02	2.750E-03	0.520
PA-234M	6.893E-01		1.269E+00	2.481E+00	1.426E-01	0.278
TH-234	-1.267E-01		1.837E-01	3.349E-01	3.907E-02	-0.378
U-235	-1.009E-02		6.159E-02	1.034E-01	7.220E-03	-0.098
NP-236	-4.563E-03		1.887E-02	3.180E-02	3.493E-03	-0.144
NP-237	2.893E-02		6.847E-02	1.230E-01	1.778E-02	0.235
NP-239	1.113E-02		5.573E-02	9.557E-02	1.289E-02	0.116
AM-241	-2.361E-02		5.181E-02	8.989E-02	7.147E-03	-0.263
AM-243	-1.935E-03		1.773E-02	3.096E-02	6.495E-03	-0.063
CM-243	8.077E-03		2.791E-02	4.967E-02	5.660E-03	0.163
AM-246	1.762E-02		3.167E-02	6.292E-02	7.744E-03	0.280
CF-249	8.483E-03		1.074E-02	2.035E-02	1.963E-03	0.417

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:10:15

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7842LC1_GAMMA1_400MLSA_15894.CNF

---- Sample Information ----

Sample ID	: SCAQC-7842-LC1 ✓		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand ✓		
Sample Seq No.	: 15894		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 18-SEP-2007 15:30:34
Decay time	: 8 06:30:34.92	% dead time	: 0.4%
Elapsed live time	: 0 01:00:00.00 ✓	Elapsed real time	: 0 01:00:15.28

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1 ✓
Nuclide Lib File : SYS$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: Fm Moore Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
9	58.34	1116	4435	1.91	116.04	113	12	18.2	2.79E+00	
9	59.73	19561	3701	0.95	118.83	113	12	1.8		AM-241
0	88.16	10985	5087	1.02	175.76	170	12	3.2		
0	122.21	1887	3298	1.06	243.94	240	9	11.9		
0	136.55	304	2799	1.22	272.66	269	8	61.4		
0	238.39*	330	2530	0.88	476.59	473	8	54.0		
0	352.00*	217	1628	1.12	704.07	700	8	65.9		
0	609.13*	141	993	1.72	1218.88	1215	9	82.5		
0	661.45	27468	1715	1.53	1323.64	1315	17	1.4		CS-137
0	1172.74	21991	839	1.89	2347.19	2338	17	1.5		CO-60
0	1331.92	20123	220	1.97	2665.80	2658	19	1.5		CO-60
0	1460.76*	43	61	1.53	2923.69	2917	13	82.0		K-40

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
9	58.34	1116	4435	1.91	116.04	113	12	3.10E-01	18.2	8.40E-01	
0	88.16	10985	5087	1.02	175.76	170	12	3.05E+00	3.2	2.26E+00	T
0	122.21	1887	3298	1.06	243.94	240	9	5.24E-01	11.9	3.05E+00	
0	136.55	304	2799	1.22	272.66	269	8	8.45E-02	61.4	3.16E+00	
0	238.39	330	2530	0.88	476.59	473	8	9.15E-02	54.0	2.66E+00	T
0	352.00	217	1628	1.12	704.07	700	8	6.02E-02	65.9	1.99E+00	T
0	609.13	141	993	1.72	1218.88	1215	9	3.91E-02	82.5	1.29E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	6.701E-01	5.511E-01	5.709E-01	3.896E-02	1.174
CO-60	3.142E+01	1.973E+00	9.244E-02	6.032E-03	339.912
CS-137	3.123E+01	3.384E+00	1.663E-01	1.787E-02	187.801
AM-241	7.103E+01	5.786E+00	1.025E+00	8.146E-02	69.323

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
RH-101	7.318E-04		7.643E-02	1.238E-01	1.920E-02	0.006
SB-125	7.799E-02		2.690E-01	4.497E-01	3.688E-02	0.173
EU-155	1.623E-02		2.546E-01	4.259E-01	4.228E-02	0.038
TL-208	2.438E-02		1.005E-01	1.651E-01	1.656E-02	0.148
PO-209	5.232E+00		2.480E+01	4.162E+01	7.450E+00	0.126
BI-211	-2.179E+00		3.030E+00	5.018E+00	3.656E-01	-0.434
BI-212	6.852E-01		7.044E-01	1.222E+00	1.175E-01	0.561
PB-212	3.359E-01	+	1.833E-01	2.427E-01	1.873E-02	1.384
BI-214	2.782E-01	+	2.312E-01	3.139E-01	3.198E-02	0.886
PB-214	3.399E-01	+	2.256E-01	3.131E-01	2.471E-02	1.086
RA-223	4.223E-01		4.256E-01	7.351E-01	6.765E-02	0.574
AC-228	6.481E-01		4.722E-01	8.072E-01	4.461E-02	0.803
PA-233	9.388E-02		1.594E-01	2.726E-01	2.289E-02	0.344
PA-234M	3.013E+00		1.405E+01	2.345E+01	1.348E+00	0.128
TH-234	8.215E-01		1.266E+00	1.936E+00	2.259E-01	0.424
U-235	-9.623E-02		4.534E-01	7.442E-01	5.195E-02	-0.129
NP-236	-4.562E-03		1.508E-01	2.527E-01	2.776E-02	-0.018
NP-237	1.517E+01		2.331E+00	1.566E+00	2.265E-01	9.684
NP-239	1.686E-02		5.681E-01	9.114E-01	1.230E-01	0.018
AM-243	-1.372E-02		1.493E-01	2.524E-01	5.294E-02	-0.054
CM-243	-1.081E-02		2.376E-01	3.971E-01	4.525E-02	-0.027
AM-246	-8.665E-03		4.203E-01	6.939E-01	8.540E-02	-0.012
CF-249	-1.260E-01		1.073E-01	1.749E-01	1.687E-02	-0.720

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:10:41

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7842LD1_GAMMA3_400MLSA_15895.CNF

---- Sample Information ----

Sample ID	: SCAQC-7842-LD1		
Sample Title	: DUP 7842-01		
Sample Quantity	: 4.85900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15895		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 18-SEP-2007 15:32:41
Decay time	: 33 15:32:41.40	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.16*	114	482	1.35	140.30	137	9	77.1		TH-234
2	74.89	570	743	1.59	166.31	160	18	21.6	2.48E+00	AM-243
										PB-214
										PB-212
2	77.17*	634	622	1.34	171.36	160	18	17.1		PB-214
										PB-212
0	87.11	145	548	1.12	193.40	191	7	56.0		NP-237
										PB-214
										PB-212
0	92.89*	336	794	1.64	206.22	202	13	38.9		TH-234
0	128.83	145	559	0.87	285.87	280	11	65.4		AC-228
0	185.93*	220	508	1.34	412.44	407	12	44.9		
0	209.93	184	540	1.64	465.64	459	16	58.4		AC-228
1	238.59*	1355	295	1.46	529.17	520	23	7.4	1.85E+00	PB-212
1	241.52	279	296	1.68	535.66	520	23	32.6		PB-214
0	270.38	98	335	1.74	599.62	593	12	77.1		RA-223
										AC-228
0	295.08	454	271	1.63	654.37	646	16	18.8		PB-214
0	299.98	90	177	0.72	665.24	662	10	58.4		PB-212
0	338.46	252	247	1.63	750.51	743	13	28.6		AC-228
0	351.95*	569	199	1.47	780.41	774	13	13.4		PB-214
0	463.03	88	138	1.20	1026.63	1020	12	57.5		AC-228
0	510.70*	190	190	2.31	1132.28	1124	19	40.9		TL-208
0	583.05*	366	144	1.60	1292.63	1286	17	18.9		TL-208
0	609.16*	394	111	1.78	1350.50	1344	17	16.2		BI-214
0	661.46	440	130	1.48	1466.41	1457	16	15.0		CS-137
0	726.63*	115	68	2.44	1610.85	1603	16	37.7		BI-212
0	859.72	70	31	1.61	1905.81	1898	14	41.7		TL-208
0	910.81*	274	66	1.78	2019.04	2012	18	18.5		AC-228
5	964.25	50	44	3.09	2137.49	2131	22	61.9	3.32E+00	AC-228
5	968.55*	194	38	1.77	2147.02	2131	22	19.5		AC-228
1	1119.26*	47	13	2.09	2481.00	2475	13	52.5	3.30E+00	
1	1119.97*	34	10	2.30	2482.59	2475	13	71.3		BI-214
0	1459.98*	335	18	2.16	3236.06	3226	23	13.1		K-40
0	1763.92*	48	24	1.72	3909.56	3904	16	57.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.93	220	508	1.34	412.44	407	12	2.04E-02	44.9	2.82E+00	
1	1119.26	47	13	2.09	2481.00	2475	13	4.39E-03	52.5	6.81E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.898E+00	4.165E-01	2.267E-01	1.334E-02	12.782
CS-137	2.539E-01	4.215E-02	2.933E-02	2.112E-03	8.657
TL-208	1.907E-01	3.918E-02	2.939E-02	2.339E-03	6.488
BI-212	5.161E-01	1.980E-01	1.849E-01	1.342E-02	2.791
PB-212	6.707E-01	7.036E-02	4.371E-02	3.267E-03	15.343
BI-214	3.904E-01	6.974E-02	4.700E-02	3.581E-03	8.306
PB-214	4.354E-01	6.790E-02	5.104E-02	4.060E-03	8.532
RA-223	1.680E-01	1.304E-01	1.339E-01	1.186E-02	1.255
AC-228	6.821E-01	1.350E-01	1.040E-01	7.309E-03	6.562
TH-234	9.006E-01	3.598E-01	3.616E-01	2.406E-02	2.490
NP-237	1.696E-01	9.676E-02	1.516E-01	1.690E-02	1.118
AM-243	1.232E-01	3.563E-02	2.632E-02	5.062E-03	4.682

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.030E-03		1.470E-02	2.500E-02	1.522E-03	-0.281
RH-101	-3.722E-03		1.565E-02	2.612E-02	4.032E-03	-0.142
SB-125	-4.317E-03		4.003E-02	6.962E-02	5.755E-03	-0.062
EU-155	2.017E-02		4.497E-02	7.851E-02	7.383E-03	0.257
PO-209	4.165E-01		2.859E+00	5.197E+00	9.575E-01	0.080
BI-211	-2.880E-01		4.854E-01	7.929E-01	5.710E-02	-0.363
PA-233	-1.358E-02		2.889E-02	4.748E-02	3.875E-03	-0.286
PA-234M	5.245E-01		1.806E+00	3.367E+00	2.299E-01	0.156
U-235	9.384E-02		9.604E-02	1.671E-01	1.240E-02	0.562
NP-236	-2.995E-03		2.980E-02	4.234E-02	4.041E-03	-0.071
NP-239	1.271E-02		1.014E-01	1.724E-01	2.306E-02	0.074
AM-241	2.705E-02		3.120E-02	4.703E-02	2.976E-03	0.575
CM-243	2.623E-02		4.083E-02	7.159E-02	7.714E-03	0.366
AM-246	6.215E-02		5.176E-02	1.015E-01	1.281E-02	0.613
CF-249	5.438E-03		1.766E-02	3.134E-02	3.121E-03	0.174

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:20:24

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784201_GAMMA1_400MLSAN_15890.CNF

---- Sample Information ----

Sample ID	: OH207-7842-01
Sample Title	: SB-CZ-SS-2000-ST ✓
Sample Quantity	: 4.85900E+02 GDRY ✓
Sample Type	: SOIL
Sample Geometry	: 400 ml sand ✓
Sample Seq No.	: 15890

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 18-SEP-2007 09:52:31
Decay time	: 33 09:52:31.80	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1 ✓
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.43*	72	426	0.84	126.24	123	8	104.5		TH-234
2	74.94	324	418	1.03	149.30	143	23	22.5	1.20E+00	AM-243
										PB-214
										PB-212
2	77.24*	414	390	1.02	153.89	143	23	18.5		PB-214
										PB-212
0	87.36	186	442	1.30	174.16	171	7	40.3		NP-237
										PB-214
										PB-212
5	90.14	118	248	0.93	179.73	178	16	41.4	1.90E+00	
5	93.04*	235	504	1.55	185.53	178	16	38.6		TH-234
0	186.03*	223	625	1.34	371.73	367	13	49.4		
0	209.14	155	451	1.23	418.02	414	10	53.5		AC-228
4	238.70*	1368	303	1.10	477.20	472	17	7.0	2.18E+00	PB-212
4	241.14	192	333	1.57	482.08	472	17	52.6		
4	242.39	91	282	1.37	484.60	472	17	76.4		PB-214
0	270.58*	111	344	1.38	541.03	536	11	68.6		RA-223
										AC-228
3	295.32*	367	151	1.20	590.57	586	25	15.5	2.08E+00	PB-214
3	300.25	147	197	1.44	600.45	586	25	37.8		PB-212
0	327.88	97	276	1.36	655.78	651	11	69.0		
0	338.15*	324	215	1.24	676.34	671	10	20.4		AC-228
0	351.93*	602	191	1.33	703.92	700	10	12.0		PB-214
0	463.38	177	131	1.80	927.08	921	15	31.9		AC-228
0	510.94*	173	170	2.07	1022.29	1015	16	41.8		TL-208
0	582.95*	462	146	1.37	1166.47	1159	15	14.9		TL-208
0	609.24*	508	106	1.58	1219.11	1214	12	12.2		BI-214
0	661.55	583	73	1.48	1323.83	1319	10	9.7		CS-137
0	727.42	151	62	1.98	1455.70	1450	13	27.3		BI-212
0	794.84	60	62	1.03	1590.68	1586	11	57.4		AC-228
0	911.12*	367	42	1.48	1823.47	1815	14	12.9		AC-228
1	964.41	84	37	1.87	1930.16	1922	24	38.3	2.00E+00	AC-228
1	968.78	235	44	1.87	1938.89	1922	24	16.6		AC-228
0	1119.87*	112	36	1.69	2241.34	2235	13	29.8		BI-214
0	1238.77	26	43	0.90	2479.35	2474	10	103.5		BI-214
0	1378.02	19	23	1.03	2758.09	2753	8	99.9		BI-214
0	1460.33*	368	12	2.23	2922.83	2915	16	11.6		K-40
1	1587.66	48	23	2.20	3177.68	3170	26	44.2	1.58E+00	AC-228
1	1592.45	41	16	2.21	3187.27	3170	26	52.1		
0	1729.19	25	12	1.78	3460.95	3455	12	69.3		BI-214
0	1764.17*	79	8	2.05	3530.94	3523	15	28.1		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	90.14	118	248	0.93	179.73	178	16	1.09E-02	41.4	2.33E+00	
0	186.03	223	625	1.34	371.73	367	13	2.07E-02	49.4	3.03E+00	
4	241.14	192	333	1.57	482.08	472	17	1.78E-02	52.6	2.64E+00	
0	327.88	97	276	1.36	655.78	651	11	9.03E-03	69.0	2.11E+00	
1	1592.45	41	16	2.21	3187.27	3170	26	3.82E-03	52.1	6.63E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.514E+00	3.385E-01	1.752E-01	1.196E-02	14.348
CS-137	2.914E-01	4.219E-02	2.276E-02	2.445E-03	12.805
TL-208	2.113E-01	3.789E-02	2.275E-02	2.283E-03	9.291
BI-212	5.811E-01	1.682E-01	1.574E-01	1.515E-02	3.691
PB-212	6.120E-01	6.359E-02	3.563E-02	2.750E-03	17.176
BI-214	4.403E-01	7.003E-02	4.268E-02	4.347E-03	10.316
PB-214	4.144E-01	5.960E-02	4.368E-02	3.446E-03	9.489
RA-223	1.708E-01	1.183E-01	1.152E-01	1.060E-02	1.482
AC-228	7.531E-01	1.056E-01	5.792E-02	3.201E-03	13.003
TH-234	9.267E-01	3.737E-01	3.444E-01	4.018E-02	2.690
NP-237	3.515E-01	1.505E-01	1.892E-01	2.735E-02	1.858
AM-243	1.466E-01	4.508E-02	4.380E-02	9.189E-03	3.348

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	9.171E-03		1.258E-02	1.869E-02	1.220E-03	0.491
RH-101	-1.655E-02		1.311E-02	2.034E-02	3.155E-03	-0.814
SB-125	3.102E-03		3.600E-02	6.217E-02	5.098E-03	0.050
EU-155	4.726E-02		4.743E-02	8.310E-02	8.251E-03	0.569
PO-209	-1.573E+00		2.374E+00	3.925E+00	7.025E-01	-0.401
BI-211	-2.083E-01		3.354E-01	5.638E-01	4.107E-02	-0.369
PA-233	2.201E-02		2.348E-02	4.255E-02	3.573E-03	0.517
PA-234M	-4.825E-02		1.411E+00	2.506E+00	1.441E-01	-0.019
U-235	-2.891E-02		8.494E-02	1.401E-01	9.778E-03	-0.206
NP-236	7.489E-03		2.994E-02	4.627E-02	5.083E-03	0.162
NP-239	-4.646E-02		8.646E-02	1.379E-01	1.860E-02	-0.337
AM-241	5.862E-03		8.355E-02	1.316E-01	1.046E-02	0.045
CM-243	-9.548E-04		4.311E-02	7.333E-02	8.357E-03	-0.013
AM-246	4.690E-02		4.119E-02	7.977E-02	9.817E-03	0.588
CF-249	-9.334E-04		1.474E-02	2.539E-02	2.449E-03	-0.037

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:20:54

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784202_GAMMA3_400MLSAN_15898.CNF

---- Sample Information ----

Sample ID	: OH207-7842-02		
Sample Title	: SB-CZ-SS-2001-ST		
Sample Quantity	: 5.48000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15898		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 18-SEP-2007 20:17:46
Decay time	: 33 20:17:46.23	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

N	It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
	0	63.37*	125	724	1.06	140.77	136	11	89.6		TH-234
	1	74.82	560	739	1.44	166.16	160	19	20.6	1.43E+00	AM-243
											PB-214
											PB-212
	1	77.14*	889	632	1.37	171.29	160	19	12.9		PB-214
											PB-212
	3	87.21	250	666	1.24	193.62	188	26	36.4	2.93E+00	NP-237
											PB-214
											PB-212
	3	89.92	194	606	1.14	199.62	188	26	46.0		
	3	92.67*	300	605	1.35	205.71	188	26	36.4		TH-234
	0	185.93*	293	652	1.68	412.44	407	12	38.1		
	0	209.14	168	430	1.33	463.89	459	10	48.9		AC-228
	2	238.57*	1521	292	1.44	529.11	519	25	6.8	2.10E+00	PB-212
	2	241.47	381	341	1.85	535.55	519	25	28.2		PB-214
	0	270.74	147	463	2.22	600.42	591	16	67.7		RA-223
											AC-228
	0	295.15	522	363	1.33	654.52	649	14	17.7		PB-214
	0	328.21	104	330	1.75	727.80	720	15	78.4		
	0	338.52	331	328	1.42	750.65	743	15	26.3		AC-228
	0	351.83*	925	333	1.51	780.16	771	18	11.4		PB-214
	0	462.76	167	162	1.45	1026.02	1018	16	37.6		AC-228
	0	510.61*	188	171	2.58	1132.08	1124	17	38.7		TL-208
	0	583.07*	529	146	1.44	1292.67	1286	16	13.9		TL-208
	0	608.89*	594	180	1.74	1349.90	1340	21	14.1		BI-214
	0	661.20	373	90	1.95	1465.84	1457	15	15.3		CS-137
	0	727.25*	125	131	0.98	1612.24	1603	20	48.4		BI-212
	0	768.32	57	78	1.62	1703.25	1698	11	65.9		BI-214
	0	860.32	64	69	1.41	1907.14	1902	12	57.3		TL-208
	0	910.85*	304	76	1.51	2019.13	2012	16	17.5		AC-228
	0	969.70*	118	156	1.83	2149.55	2139	19	58.0		AC-228
	0	1120.30*	172	20	2.03	2483.32	2475	20	20.3		BI-214
	0	1460.03*	312	22	2.08	3236.17	3225	18	13.8		K-40
	0	1729.18	23	15	2.72	3832.58	3824	15	84.2		BI-214
	0	1763.51*	91	18	2.41	3908.64	3901	14	29.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.92	194	606	1.14	199.62	188	26	1.80E-02	46.0	3.55E+00	
0	185.93	293	652	1.68	412.44	407	12	2.71E-02	38.1	2.82E+00	
0	328.21	104	330	1.75	727.80	720	15	9.66E-03	78.4	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.396E+00	3.597E-01	2.093E-01	1.232E-02	11.449
CS-137	1.910E-01	3.230E-02	2.757E-02	1.985E-03	6.928
TL-208	2.441E-01	3.918E-02	2.521E-02	2.006E-03	9.685
BI-212	4.993E-01	2.445E-01	1.752E-01	1.271E-02	2.850
PB-212	6.675E-01	6.753E-02	3.785E-02	2.829E-03	17.637
BI-214	5.217E-01	8.356E-02	4.189E-02	3.192E-03	12.453
PB-214	6.274E-01	8.731E-02	4.778E-02	3.801E-03	13.129
RA-223	2.221E-01	1.516E-01	1.289E-01	1.141E-02	1.723
AC-228	6.702E-01	1.262E-01	8.805E-02	6.191E-03	7.612
TH-234	7.136E-01	2.673E-01	3.071E-01	2.749E-02	2.324
NP-237	2.595E-01	9.886E-02	1.334E-01	1.487E-02	1.945
AM-243	1.074E-01	3.028E-02	2.366E-02	4.550E-03	4.537

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.009E-02		1.369E-02	2.257E-02	1.374E-03	-0.447
RH-101	-6.074E-03		1.522E-02	2.524E-02	3.896E-03	-0.241
SB-125	-1.113E-02		4.028E-02	6.917E-02	5.718E-03	-0.161
EU-155	6.665E-03		4.288E-02	7.418E-02	6.975E-03	0.090
PO-209	-4.734E-01		2.884E+00	5.073E+00	9.347E-01	-0.093
BI-211	-1.246E-01		4.238E-01	7.102E-01	5.115E-02	-0.175
PA-233	9.503E-03		2.701E-02	4.607E-02	3.760E-03	0.206
PA-234M	1.313E+00		1.703E+00	3.254E+00	2.222E-01	0.404
U-235	-1.113E-02		9.091E-02	1.537E-01	1.141E-02	-0.072
NP-236	6.549E-03		2.799E-02	4.027E-02	3.843E-03	0.163
NP-239	3.898E-02		9.640E-02	1.649E-01	2.206E-02	0.236
AM-241	2.093E-02		2.783E-02	4.173E-02	2.641E-03	0.502
CM-243	-2.223E-02		3.861E-02	6.544E-02	7.052E-03	-0.340
AM-246	2.410E-02		4.650E-02	8.679E-02	1.096E-02	0.278
CF-249	7.924E-03		1.685E-02	2.998E-02	2.986E-03	0.264

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:21:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784203_GAMMA2_400MLSAN_15900.CNF

---- Sample Information ----

Sample ID	: OH207-7842-03		
Sample Title	: SB-CZ-SS-2002-ST		
Sample Quantity	: 4.68600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15900		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 19-SEP-2007 10:58:52
Decay time	: 34 10:58:52.78	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.78	286	520	1.08	149.15	145	13	27.6	1.42E+00	AM-243
										PB-214
										PB-212
1	77.15	396	415	0.91	153.87	145	13	18.6		PB-214
										PB-212
3	87.33	205	447	1.09	174.13	164	28	37.3	2.92E+00	NP-237
										PB-214
										PB-212
3	89.94	191	446	1.13	179.32	164	28	39.2		
3	92.80*	224	509	1.30	185.02	164	28	39.9		
0	185.98*	285	479	1.30	370.59	366	9	31.2		
0	209.27	255	492	1.29	416.96	412	11	36.0		AC-228
2	238.75*	1404	277	1.15	475.69	468	20	6.7	2.11E+00	PB-212
2	241.21*	152	314	1.48	480.59	468	20	63.5		
2	242.25*	240	306	1.46	482.66	468	20	32.7		PB-214
0	270.35	175	307	1.57	538.62	534	10	40.4		RA-223
										AC-228
0	295.42	506	197	1.18	588.57	585	8	13.1		PB-214
0	300.19	85	222	1.34	598.07	594	8	64.6		PB-212
0	338.22	255	373	1.20	673.86	668	13	33.6		AC-228
0	352.12*	770	338	1.30	701.56	695	14	12.5		PB-214
0	409.19	49	153	1.13	815.29	811	8	92.3		AC-228
0	463.29	81	220	1.36	923.11	915	14	80.8		AC-228
0	511.12*	193	182	1.76	1018.46	1010	17	38.8		TL-208
0	583.42*	427	120	1.27	1162.61	1156	13	14.6		TL-208
0	609.52*	615	109	1.41	1214.66	1208	12	10.7		BI-214
0	661.75	341	168	1.20	1318.83	1313	13	19.1		CS-137
0	727.41	120	62	1.41	1449.81	1445	9	30.0		BI-212
0	731.43	33	44	1.38	1457.82	1454	8	78.8		
0	769.00*	61	78	1.17	1532.78	1528	12	63.4		BI-214
0	795.32	78	65	1.19	1585.29	1579	12	47.6		AC-228
2	860.59	75	31	2.05	1715.55	1707	34	40.7	1.62E+00	TL-208
2	864.46	37	39	2.05	1723.27	1707	34	74.1		
0	911.08*	322	53	1.66	1816.33	1807	16	15.3		AC-228
2	964.38	73	18	2.12	1922.73	1918	26	32.0	1.58E+00	AC-228
2	968.78*	225	24	2.02	1931.51	1918	26	16.5		AC-228
0	1120.07*	108	51	1.97	2233.63	2224	15	34.7		BI-214
0	1237.69	76	48	2.03	2468.59	2460	16	46.8		BI-214
0	1459.87*	313	9	1.76	2912.69	2907	13	12.7		K-40
0	1762.48*	134	4	2.61	3518.05	3508	18	19.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.94	191	446	1.13	179.32	164	28	1.77E-02	39.2	2.61E+00	
3	92.80	224	509	1.30	185.02	164	28	2.07E-02	39.9	2.70E+00	T
0	185.98	285	479	1.30	370.59	366	9	2.63E-02	31.2	3.21E+00	
2	241.21	152	314	1.48	480.59	468	20	1.40E-02	63.5	2.78E+00	
0	731.43	33	44	1.38	1457.82	1454	8	3.02E-03	78.8	1.12E+00	
2	864.46	37	39	2.05	1723.27	1707	34	3.47E-03	74.1	9.89E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.324E+00	3.308E-01	2.315E-01	1.491E-02	10.039
CS-137	1.765E-01	3.917E-02	2.537E-02	2.886E-03	6.956
TL-208	2.001E-01	3.582E-02	2.242E-02	2.334E-03	8.925
BI-212	4.804E-01	1.536E-01	1.746E-01	1.909E-02	2.751
PB-212	6.180E-01	6.300E-02	3.725E-02	2.846E-03	16.592
BI-214	5.478E-01	8.279E-02	4.362E-02	4.645E-03	12.559
PB-214	5.274E-01	7.751E-02	4.526E-02	3.470E-03	11.654
RA-223	2.657E-01	1.098E-01	1.142E-01	1.016E-02	2.327
AC-228	7.016E-01	1.236E-01	7.854E-02	6.825E-03	8.933
NP-237	3.568E-01	1.403E-01	1.684E-01	2.116E-02	2.118
AM-243	1.150E-01	3.913E-02	4.362E-02	8.695E-03	2.637

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.348E-04		1.186E-02	2.058E-02	1.197E-03	0.007
RH-101	-5.702E-03		1.424E-02	2.268E-02	3.540E-03	-0.251
SB-125	-1.628E-02		3.715E-02	6.163E-02	5.053E-03	-0.264
EU-155	4.532E-02		4.876E-02	8.403E-02	7.868E-03	0.539
PO-209	-4.245E-02		2.720E+00	4.758E+00	9.122E-01	-0.009
BI-211	-3.767E-01		3.684E-01	5.888E-01	5.764E-02	-0.640
PA-233	1.163E-02		2.543E-02	4.464E-02	3.596E-03	0.260
PA-234M	3.143E-01		1.441E+00	2.603E+00	2.032E-01	0.121
TH-234	8.199E-01 ✓	+	3.376E-01	4.726E-01 ✓	4.727E-02	1.735
U-235	4.060E-02		8.818E-02	1.462E-01	1.067E-02	0.278
NP-236	2.194E-02		3.211E-02	4.922E-02	4.893E-03	0.446
NP-239	-2.378E-02		9.104E-02	1.567E-01	2.115E-02	-0.152
AM-241	5.705E-02		7.193E-02	1.265E-01	8.296E-03	0.451
CM-243	1.962E-03		4.452E-02	7.480E-02	8.086E-03	0.026
AM-246	9.410E-03		4.446E-02	7.942E-02	1.016E-02	0.118
CF-249	1.169E-02		1.561E-02	2.766E-02	2.650E-03	0.423

The Th-234 63 Kev line not identified.
Tarroad
10-17-2007

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:21:35

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784204_GAMMA3_400MLSAN_15901.CNF

---- Sample Information ----

Sample ID	: OH207-7842-04		
Sample Title	: SB-CZ-SS-2003-ST		
Sample Quantity	: 5.63700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15901		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 19-SEP-2007 11:00:36
Decay time	: 34 11:00:36.93	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.97

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.46*	94	392	1.40	103.30	98	10	86.9		
3	74.89	464	596	1.12	166.31	162	17	19.6	1.99E+00	AM-243
										PB-214
										PB-212
3	77.18*	898	768	1.53	171.39	162	17	14.1		PB-214
										PB-212
2	87.21	422	697	1.61	193.62	179	36	26.4	2.84E+00	NP-237
										PB-214
										PB-212
2	89.86	238	552	1.32	199.50	179	36	39.5		
2	92.71*	314	587	1.46	205.81	179	36	35.4		
0	128.98	90	603	1.42	286.20	282	9	100.6		AC-228
0	185.62*	248	565	1.49	411.76	405	12	42.0		
0	209.24	245	498	1.72	464.11	458	13	39.8		AC-228
0	238.49*	1193	826	1.35	528.94	524	11	11.1		PB-212
0	241.59	149	449	1.27	535.82	534	8	53.7		PB-214
0	269.85	127	307	1.66	598.45	594	10	54.4		RA-223
										AC-228
0	295.08	493	371	1.63	654.37	647	14	18.8		PB-214
0	328.20	80	188	1.27	727.78	724	8	63.1		
0	338.31	295	250	1.86	750.20	745	11	23.9		AC-228
0	351.84*	818	337	1.48	780.17	771	18	12.7		PB-214
0	510.68*	180	243	2.12	1132.24	1122	21	49.1		TL-208
0	582.86*	445	194	1.65	1292.22	1285	17	17.4		TL-208
0	609.03*	622	148	1.60	1350.21	1342	18	12.4		BI-214
0	661.55	466	154	1.84	1466.63	1458	20	16.3		CS-137
0	727.49*	107	81	1.05	1612.76	1606	16	43.3		BI-212
0	795.05	72	70	1.28	1762.49	1756	15	56.0		AC-228
0	910.81*	305	72	1.88	2019.05	2011	16	17.2		AC-228
1	964.15	92	51	2.21	2137.26	2129	32	40.0	3.24E+00	AC-228
1	968.51*	231	48	2.22	2146.91	2129	32	18.3		AC-228
0	1119.74*	171	12	1.44	2482.06	2474	16	18.2		BI-214
0	1460.05*	408	10	1.92	3236.21	3226	19	10.9		K-40
0	1729.01	33	8	1.51	3832.20	3823	16	52.1		BI-214
0	1763.57*	106	21	1.65	3908.78	3900	17	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	46.46	94	392	1.40	103.30	98	10	8.70E-03	86.9	2.76E+00	
2	89.86	238	552	1.32	199.50	179	36	2.20E-02	39.5	3.55E+00	
2	92.71	314	587	1.46	205.81	179	36	2.91E-02	35.4	3.55E+00	T
0	185.62	248	565	1.49	411.76	405	12	2.29E-02	42.0	2.82E+00	
0	328.20	80	188	1.27	727.78	724	8	7.45E-03	63.1	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.042E+00	3.765E-01	1.908E-01	1.123E-02	15.940
CS-137	2.318E-01	4.136E-02	2.634E-02	1.897E-03	8.801
TL-208	1.999E-01	3.818E-02	2.404E-02	1.913E-03	8.316
BI-212	4.150E-01	1.821E-01	1.913E-01	1.388E-02	2.170
PB-212	5.089E-01	6.791E-02	4.908E-02	3.668E-03	10.370
BI-214	5.317E-01	7.716E-02	4.447E-02	3.388E-03	11.957
PB-214	5.393E-01	8.092E-02	4.747E-02	3.776E-03	11.362
RA-223	1.872E-01	1.031E-01	1.177E-01	1.042E-02	1.591
AC-228	6.529E-01	1.212E-01	8.045E-02	5.656E-03	8.116
NP-237	4.250E-01	1.220E-01	1.173E-01	1.308E-02	3.622
AM-243	8.638E-02	2.373E-02	2.432E-02	4.678E-03	3.551

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-8.422E-04		1.484E-02	2.565E-02	1.360E-03	-0.033
RH-101	6.666E-04		1.465E-02	2.467E-02	3.807E-03	0.027
SB-125	-1.625E-02		3.549E-02	6.051E-02	5.002E-03	-0.269
EU-155	1.816E-02		4.131E-02	7.194E-02	6.765E-03	0.252
PO-209	-4.410E-01		2.716E+00	4.786E+00	8.819E-01	-0.092
BI-211	-1.868E-01		4.045E-01	6.687E-01	4.816E-02	-0.279
PA-233	2.349E-03		2.559E-02	4.321E-02	3.526E-03	0.054
PA-234M	9.748E-01		1.721E+00	3.227E+00	2.203E-01	0.302
TH-234	7.266E-01 ✓	+	2.654E-01	3.893E-01 ✓	2.591E-02	1.866
U-235	-4.083E-03		8.790E-02	1.489E-01	1.105E-02	-0.027
NP-236	-1.289E-03		2.726E-02	3.876E-02	3.699E-03	-0.033
NP-239	-6.039E-02		9.993E-02	1.646E-01	2.202E-02	-0.367
AM-241	-9.401E-02		2.822E-02	4.091E-02	2.589E-03	-2.298
CM-243	9.212E-03		3.732E-02	6.475E-02	6.977E-03	0.142
AM-246	1.924E-02		4.988E-02	9.121E-02	1.151E-02	0.211
CF-249	-2.361E-03		1.665E-02	2.886E-02	2.874E-03	-0.082

The Th-234 63 Kev line was not identified.

[signature]
10/17/2007

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:22:26

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784205_GAMMA1_400MLSAN_15902.CNF

---- Sample Information ----

Sample ID	: OH207-7842-05		
Sample Title	: SB-CZ-SS-2004-ST		
Sample Quantity	: 5.20000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15902		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 19-SEP-2007 13:00:46
Decay time	: 34 13:00:46.78	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.22

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
4	75.03	329	397	1.04	149.47	144	14	22.2	1.45E+00	AM-243
										PB-214
										PB-212
4	77.21*	494	447	1.16	153.84	144	14	17.7		PB-214
										PB-212
0	84.30*	87	391	1.14	168.04	166	6	76.1		
2	87.37	211	455	1.09	174.18	171	21	35.9	3.01E+00	NP-237
										PB-214
										PB-212
2	90.12	169	437	1.16	179.69	171	21	44.3		
2	94.25	91	407	1.17	187.96	171	21	86.5		
0	185.90*	172	640	1.17	371.47	365	12	61.8		
0	209.55	196	378	1.06	418.84	415	9	38.8		AC-228
0	238.55*	1396	518	1.23	476.90	471	10	8.2		PB-212
1	241.13	91	155	1.11	482.06	481	7	42.5	6.39E-01	
1	242.14	132	276	1.19	484.10	481	7	49.2		PB-214
0	270.34*	128	280	1.47	540.56	536	10	52.4		RA-223
										AC-228
0	295.15*	350	255	1.24	590.23	585	10	20.3		PB-214
1	299.65	34	142	1.15	599.25	597	9	114.5	4.55E+00	
1	300.40	76	207	1.35	600.75	597	9	70.7		PB-212
0	327.85	60	223	1.30	655.71	653	8	90.0		
0	338.13*	305	258	1.21	676.30	671	12	24.1		AC-228
0	351.91*	568	261	1.27	703.88	698	11	14.0		PB-214
0	462.91	122	152	1.28	926.14	921	12	43.9		AC-228
0	510.87*	199	234	2.24	1022.15	1014	19	43.0		TL-208
0	583.03*	455	164	1.43	1166.63	1160	14	15.3		TL-208
0	609.08*	455	107	1.67	1218.79	1214	11	13.0		BI-214
0	661.43	393	109	1.45	1323.60	1319	12	14.5		CS-137
0	727.25	121	87	1.65	1455.36	1450	12	35.7		BI-212
0	795.43	107	62	2.19	1591.86	1584	16	38.4		AC-228
0	863.26	69	98	8.98	1727.67	1716	24	81.5		
0	910.95*	364	71	1.46	1823.13	1816	15	14.7		AC-228
2	964.68	49	42	1.90	1930.68	1926	21	51.2	1.73E+00	AC-228
2	968.70	237	35	1.79	1938.74	1926	21	16.4		AC-228
0	1120.00*	99	86	1.60	2241.62	2235	16	46.5		BI-214
0	1377.56	31	31	2.18	2757.16	2749	14	84.3		BI-214
0	1460.33*	672	9	2.44	2922.83	2914	18	8.1		K-40
0	1729.24	24	13	1.54	3461.05	3456	13	80.3		BI-214
3	1762.74*	34	2	2.53	3528.09	3521	16	61.3	1.13E+00	
3	1764.12*	44	4	2.44	3530.85	3521	16	46.2		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	84.30	87	391	1.14	168.04	166	6	8.05E-03	76.1	2.11E+00	
2	90.12	169	437	1.16	179.69	171	21	1.56E-02	44.3	2.33E+00	
2	94.25	91	407	1.17	187.96	171	21	8.39E-03	86.5	2.47E+00	
0	185.90	172	640	1.17	371.47	365	12	1.60E-02	61.8	3.03E+00	
1	241.13	91	155	1.11	482.06	481	7	8.46E-03	42.5	2.64E+00	
1	299.65	34	142	1.15	599.25	597	9	3.13E-03	****	2.26E+00	
0	327.85	60	223	1.30	655.71	653	8	5.53E-03	90.0	2.11E+00	
0	863.26	69	98	8.98	1727.67	1716	24	6.34E-03	81.5	1.01E+00	
3	1762.74	34	2	2.53	3528.09	3521	16	3.15E-03	61.3	6.10E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.289E+00	4.559E-01	1.546E-01	1.055E-02	27.737
CS-137	1.837E-01	3.321E-02	2.148E-02	2.308E-03	8.553
TL-208	1.947E-01	3.564E-02	2.104E-02	2.111E-03	9.253
BI-212	4.367E-01	1.614E-01	1.462E-01	1.406E-02	2.988
PB-212	5.839E-01	6.594E-02	4.288E-02	3.310E-03	13.617
BI-214	3.688E-01	6.086E-02	4.071E-02	4.146E-03	9.059
PB-214	3.651E-01	5.865E-02	4.264E-02	3.364E-03	8.564
RA-223	1.845E-01	9.814E-02	1.023E-01	9.411E-03	1.804
AC-228	6.976E-01	1.097E-01	7.497E-02	4.143E-03	9.305
NP-237	3.738E-01	1.446E-01	1.608E-01	2.326E-02	2.324
AM-243	1.389E-01	4.243E-02	4.084E-02	8.567E-03	3.401

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.927E-03		1.254E-02	1.814E-02	1.184E-03	0.327
RH-101	4.095E-03		1.242E-02	2.096E-02	3.251E-03	0.195
SB-125	3.620E-03		3.314E-02	5.734E-02	4.702E-03	0.063
EU-155	-4.910E-03		4.386E-02	7.430E-02	7.377E-03	-0.066
PO-209	-3.445E-01		2.111E+00	3.696E+00	6.615E-01	-0.093
BI-211	-2.151E-02		3.306E-01	5.820E-01	4.240E-02	-0.037
PA-233	4.246E-03		2.106E-02	3.713E-02	3.118E-03	0.114
PA-234M	4.722E-01		1.318E+00	2.421E+00	1.392E-01	0.195
TH-234	6.776E-01		2.685E-01	4.493E-01	5.242E-02	1.508
U-235	2.440E-02		7.774E-02	1.313E-01	9.167E-03	0.186
NP-236	-1.299E-04		2.933E-02	4.473E-02	4.913E-03	-0.003
NP-239	3.888E-04		8.266E-02	1.354E-01	1.827E-02	0.003
AM-241	-3.412E-02		7.173E-02	1.228E-01	9.765E-03	-0.278
CM-243	-1.691E-02		3.978E-02	6.660E-02	7.590E-03	-0.254
AM-246	1.244E-02		3.803E-02	6.915E-02	8.511E-03	0.180
CF-249	8.548E-03		1.398E-02	2.489E-02	2.400E-03	0.343

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:23:34

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784206_GAMMA2_400MLSAN_15903.CNF

---- Sample Information ----

Sample ID	: OH207-7842-06		
Sample Title	: SB-CZ-SS-2005-ST		
Sample Quantity	: 4.12400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15903		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 19-SEP-2007 14:41:37
Decay time	: 34 14:41:37.17	% 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	: 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.83	200	314	0.87	149.24	146	13	29.4	1.14E+00	AM-243
										PB-214
										PB-212
3	77.02	393	364	1.13	153.60	146	13	19.7		PB-214
										PB-212
0	87.13	139	394	1.27	173.73	171	7	50.5		NP-237
										PB-214
										PB-212
2	92.82*	125	298	1.07	185.07	182	9	53.3	1.51E+01	
2	93.96	72	326	1.24	187.33	182	9	97.1		
0	128.85	93	350	0.96	256.80	253	8	72.1		AC-228
0	185.76*	148	403	1.29	370.13	366	10	55.3		
0	209.42	77	309	0.92	417.26	414	8	82.0		AC-228
6	238.76*	909	216	1.15	475.71	470	25	8.7	6.55E-01	PB-212
6	241.61*	171	307	1.87	481.37	470	25	51.5		PB-214
0	270.36	82	229	1.46	538.65	535	9	70.1		RA-223
										AC-228
0	295.61	222	227	1.21	588.95	584	10	28.9		PB-214
0	300.36	63	132	1.01	598.42	595	7	65.8		PB-212
0	338.41	250	277	1.14	674.23	667	14	30.9		AC-228
0	352.18*	355	144	1.34	701.68	698	10	16.9		PB-214
0	511.76*	127	147	2.44	1019.73	1013	18	50.7		TL-208
0	583.46*	261	99	1.42	1162.70	1156	12	20.1		TL-208
0	609.54*	246	88	1.39	1214.71	1209	11	20.1		BI-214
0	661.78	392	149	1.47	1318.89	1314	13	16.4		CS-137
0	727.97	59	100	1.91	1450.93	1443	19	86.1		BI-212
0	835.55	28	29	1.05	1665.57	1661	8	78.4		
0	911.28*	205	43	1.77	1816.72	1811	14	20.3		AC-228
0	969.46*	92	77	1.55	1932.88	1925	17	50.5		AC-228
0	1119.77*	67	40	2.11	2233.03	2225	16	49.5		BI-214
0	1459.81*	367	16	1.70	2912.58	2904	16	12.0		K-40
0	1762.49*	47	3	1.74	3518.07	3510	15	37.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	92.82	125	298	1.07	185.07	182	9	1.16E-02	53.3	2.71E+00	T
2	93.96	72	326	1.24	187.33	182	9	6.66E-03	97.1	2.74E+00	
0	185.76	148	403	1.29	370.13	366	10	1.37E-02	55.3	3.21E+00	
0	835.55	28	29	1.05	1665.57	1661	8	2.55E-03	78.4	1.01E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.099E+00	4.227E-01	1.765E-01	1.136E-02	17.561
CS-137	2.301E-01	4.601E-02	2.598E-02	2.956E-03	8.857
TL-208	1.388E-01	3.141E-02	2.239E-02	2.331E-03	6.202
BI-212	2.711E-01	2.352E-01	1.609E-01	1.759E-02	1.685
PB-212	4.547E-01	5.262E-02	3.821E-02	2.920E-03	11.899
BI-214	2.493E-01	5.681E-02	4.595E-02	4.893E-03	5.424
PB-214	2.763E-01	5.121E-02	4.538E-02	3.480E-03	6.088
RA-223	1.415E-01	9.991E-02	1.115E-01	9.920E-03	1.269
AC-228	5.078E-01	1.123E-01	8.588E-02	7.462E-03	5.913
NP-237	2.740E-01	1.425E-01	1.894E-01	2.380E-02	1.446
AM-243	9.146E-02	3.245E-02	4.114E-02	8.201E-03	2.223

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.436E-03		1.314E-02	1.990E-02	1.158E-03	0.072
RH-101	1.107E-02		1.404E-02	2.345E-02	3.661E-03	0.472
SB-125	2.341E-02		3.481E-02	6.239E-02	5.115E-03	0.375
EU-155	2.711E-02		4.861E-02	8.346E-02	7.815E-03	0.325
PO-209	1.521E+00		2.155E+00	4.159E+00	7.973E-01	0.366
BI-211	2.870E-01		3.943E-01	6.680E-01	6.539E-02	0.430
PA-233	2.299E-02		2.590E-02	4.660E-02	3.754E-03	0.493
PA-234M	3.740E-01		1.639E+00	2.963E+00	2.313E-01	0.126
TH-234	5.190E-01	+	2.817E-01	4.878E-01	4.879E-02	1.064
U-235	8.645E-03		8.765E-02	1.437E-01	1.049E-02	0.060
NP-236	-3.317E-03		2.960E-02	4.672E-02	4.645E-03	-0.071
NP-239	1.198E-02		8.468E-02	1.489E-01	2.010E-02	0.080
AM-241	-3.179E-02		7.262E-02	1.229E-01	8.059E-03	-0.259
CM-243	-2.292E-03		4.448E-02	7.475E-02	8.081E-03	-0.031
AM-246	-2.132E-03		4.662E-02	8.168E-02	1.045E-02	-0.026
CF-249	2.684E-03		1.589E-02	2.758E-02	2.642E-03	0.097

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:23:58

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784207_GAMMA3_400MLSAN_15904.CNF

---- Sample Information ----

Sample ID	: OH207-7842-07
Sample Title	: SB-CZ-SS-2006-ST
Sample Quantity	: 4.12000E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15904

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 19-SEP-2007 14:42:49
Decay time	: 34 14:42:49.76	% 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	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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.87	398	613	1.40	166.27	161	15	25.2	6.54E-01	AM-243
										PB-214
										PB-212
2	77.08*	557	518	1.27	171.17	161	15	17.5		PB-214
										PB-212
2	87.28	167	659	1.35	193.78	188	26	53.2	3.74E+00	NP-237
										PB-214
										PB-212
2	92.87*	231	542	1.63	206.16	188	26	48.4		
0	185.88*	234	439	1.53	412.33	406	14	41.9		
0	208.75	144	349	1.66	463.02	457	13	55.9		AC-228
2	238.58*	1047	219	1.48	529.13	521	26	8.4	2.17E+00	PB-212
2	241.37	214	256	1.85	535.32	521	26	42.0		PB-214
0	269.91	119	257	1.47	598.57	593	12	57.0		RA-223
										AC-228
0	295.27	225	440	1.70	654.80	648	19	46.3		PB-214
0	328.13	60	168	1.19	727.63	724	10	84.6		
0	338.49	201	236	1.54	750.59	745	14	35.5		AC-228
0	351.82*	373	225	1.31	780.13	772	15	20.6		PB-214
0	461.93	85	139	1.37	1024.19	1019	13	60.7		AC-228
0	582.76*	357	76	1.56	1291.99	1284	16	15.7		TL-208
0	609.17*	310	94	1.76	1350.52	1343	18	19.2		BI-214
0	661.29	522	110	1.53	1466.05	1458	17	12.7		CS-137
0	727.05*	66	80	1.70	1611.80	1605	15	64.2		BI-212
0	860.40	50	30	1.29	1907.32	1900	12	52.5		TL-208
0	910.87*	197	35	1.94	2019.17	2013	14	19.7		AC-228
0	968.28*	104	50	1.62	2146.41	2142	15	36.1		AC-228
0	1120.04*	47	42	1.81	2482.74	2478	11	62.0		BI-214
0	1460.08*	334	15	2.07	3236.28	3224	21	12.9		K-40
0	1629.54	16	3	1.05	3611.79	3606	11	63.3		
0	1764.03*	50	13	1.45	3909.79	3902	17	45.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	92.87	231	542	1.63	206.16	188	26	2.14E-02	48.4	3.55E+00	T
0	185.88	234	439	1.53	412.33	406	14	2.17E-02	41.9	2.82E+00	
0	328.13	60	168	1.19	727.63	724	10	5.57E-03	84.6	1.89E+00	
0	1629.54	16	3	1.05	3611.79	3606	11	1.51E-03	63.3	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.408E+00	4.822E-01	2.699E-01	1.588E-02	12.627
CS-137	3.555E-01	5.194E-02	3.155E-02	2.271E-03	11.268
TL-208	2.191E-01	3.848E-02	2.915E-02	2.320E-03	7.518
BI-212	3.522E-01	2.276E-01	2.286E-01	1.659E-02	1.541
PB-212	6.115E-01	6.866E-02	4.618E-02	3.452E-03	13.243
BI-214	3.624E-01	7.495E-02	5.711E-02	4.352E-03	6.346
PB-214	3.361E-01	7.427E-02	5.731E-02	4.560E-03	5.865
RA-223	2.397E-01	1.381E-01	1.534E-01	1.358E-02	1.562
AC-228	5.763E-01	1.205E-01	1.070E-01	7.524E-03	5.385
NP-237	2.297E-01	1.249E-01	1.486E-01	1.656E-02	1.546
AM-243	1.015E-01	3.215E-02	2.900E-02	5.578E-03	3.501

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.897E-02		1.843E-02	2.818E-02	1.494E-03	-0.673
RH-101	8.769E-03		1.702E-02	2.913E-02	4.496E-03	0.301
SB-125	-1.339E-02		4.820E-02	8.302E-02	6.863E-03	-0.161
EU-155	7.738E-03		4.934E-02	8.571E-02	8.059E-03	0.090
PO-209	1.612E+00		3.096E+00	5.828E+00	1.074E+00	0.277
BI-211	-4.180E-01		4.904E-01	7.812E-01	5.626E-02	-0.535
PA-233	-1.494E-02		3.148E-02	5.179E-02	4.226E-03	-0.289
PA-234M	2.386E+00		2.024E+00	4.044E+00	2.762E-01	0.590
TH-234	7.301E-01	+	3.591E-01	4.794E-01	4.292E-02	1.523
U-235	-1.856E-02		1.020E-01	1.722E-01	1.278E-02	-0.108
NP-236	4.982E-03		3.181E-02	4.588E-02	4.379E-03	0.109
NP-239	-8.150E-02		1.108E-01	1.814E-01	2.427E-02	-0.449
AM-241	-1.314E-01		3.597E-02	5.077E-02	3.213E-03	-2.588
CM-243	-8.047E-03		4.432E-02	7.625E-02	8.217E-03	-0.106
AM-246	-2.070E-02		5.882E-02	1.018E-01	1.285E-02	-0.203
CF-249	9.064E-03		1.895E-02	3.409E-02	3.395E-03	0.266

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:24:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784208_GAMMA2_400MLSAN_15906.CNF

---- Sample Information ----

Sample ID	: OH207-7842-08
Sample Title	: SB-CZ-SS-2007-ST
Sample Quantity	: 4.71000E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15906

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 19-SEP-2007 17:47:08
Decay time	: 34 17:47:08.57	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.19

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Thomas Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.68	344	524	1.19	148.95	145	13	24.8	1.48E+00	AM-243
										PB-214
										PB-212
2	77.02	492	453	1.04	153.60	145	13	16.9		PB-214
										PB-212
0	86.88	126	581	1.08	173.25	171	7	65.5		NP-237
										PB-214
										PB-212
0	92.98*	288	553	1.52	185.39	182	9	33.3		
0	129.03	126	760	1.60	257.16	253	13	91.3		AC-228
0	186.14*	200	605	1.11	370.90	366	11	51.0		
0	209.36	91	406	1.04	417.14	414	8	79.0		AC-228
5	238.76*	1373	313	1.16	475.70	470	17	6.9	1.05E+00	PB-212
5	241.14*	150	319	1.52	480.45	470	17	64.3		
5	242.17*	155	305	1.46	482.50	470	17	50.5		PB-214
0	270.31	112	345	1.28	538.55	534	10	64.9		RA-223
										AC-228
0	295.53	360	286	1.21	588.80	584	10	20.6		PB-214
0	300.15	85	288	1.38	597.99	594	11	80.1		PB-212
0	327.77	118	243	1.70	653.03	647	11	54.5		
0	338.49	226	271	1.38	674.39	670	10	30.3		AC-228
0	352.16*	593	258	1.27	701.63	696	13	14.0		PB-214
0	463.86	83	198	1.02	924.24	919	11	69.6		AC-228
0	511.02*	171	212	1.63	1018.26	1010	16	45.1		TL-208
0	583.49*	427	149	1.41	1162.76	1157	14	15.9		TL-208
0	609.52*	446	140	1.37	1214.66	1209	13	14.9		BI-214
0	661.79	506	134	1.53	1318.90	1311	14	13.1		CS-137
0	727.43	92	91	1.41	1449.85	1444	11	45.3		BI-212
0	795.15	41	79	1.80	1584.96	1578	13	96.1		AC-228
0	860.79	56	48	2.07	1715.95	1711	10	53.8		TL-208
0	911.24*	340	66	1.73	1816.65	1808	19	16.1		AC-228
1	964.34	48	40	1.93	1922.65	1915	25	62.0	1.32E+00	AC-228
1	968.68*	173	29	1.75	1931.32	1915	25	19.8		AC-228
0	1119.79*	96	68	1.65	2233.06	2225	16	44.0		BI-214
0	1237.55	61	76	2.13	2468.31	2461	20	71.8		BI-214
0	1459.83*	696	27	2.11	2912.61	2905	16	8.5		K-40
0	1728.14	20	6	1.48	3449.33	3445	9	65.6		BI-214
0	1762.69*	85	19	1.75	3518.47	3510	15	32.2		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	92.98	288	553	1.52	185.39	182	9	2.67E-02	33.3	2.71E+00	T
0	186.14	200	605	1.11	370.90	366	11	1.86E-02	51.0	3.21E+00	
5	241.14	150	319	1.52	480.45	470	17	1.39E-02	64.3	2.78E+00	
0	327.77	118	243	1.70	653.03	647	11	1.09E-02	54.5	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.141E+00	5.483E-01	1.618E-01	1.042E-02	31.772
CS-137	2.603E-01	4.524E-02	2.569E-02	2.922E-03	10.132
TL-208	1.992E-01	3.788E-02	2.220E-02	2.312E-03	8.972
BI-212	3.661E-01	1.707E-01	1.727E-01	1.888E-02	2.120
PB-212	6.015E-01	6.208E-02	3.789E-02	2.895E-03	15.876
BI-214	3.954E-01	7.232E-02	4.396E-02	4.681E-03	8.994
PB-214	4.037E-01	6.460E-02	4.338E-02	3.326E-03	9.306
RA-223	1.689E-01	1.106E-01	1.166E-01	1.037E-02	1.450
AC-228	7.370E-01	1.348E-01	8.828E-02	7.671E-03	8.349
NP-237	2.184E-01	1.457E-01	1.910E-01	2.401E-02	1.143
AM-243	1.378E-01	4.384E-02	4.088E-02	8.148E-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	-2.953E-03		1.280E-02	2.279E-02	1.259E-03	-0.130
RH-101	-9.478E-06		1.392E-02	2.258E-02	3.525E-03	0.000
SB-125	-7.613E-03		3.592E-02	6.047E-02	4.957E-03	-0.126
EU-155	2.872E-02		4.888E-02	8.343E-02	7.811E-03	0.344
PO-209	4.944E-01		2.604E+00	4.645E+00	8.905E-01	0.106
BI-211	-2.888E-01		4.042E-01	6.668E-01	6.527E-02	-0.433
PA-233	-5.310E-03		2.486E-02	4.242E-02	3.417E-03	-0.125
PA-234M	1.260E+00		1.613E+00	3.006E+00	2.347E-01	0.419
TH-234	1.049E+00	+	3.649E-01	4.780E-01	4.781E-02	2.195
U-235	5.623E-02		8.712E-02	1.453E-01	1.061E-02	0.387
NP-236	-1.026E-03		2.953E-02	4.676E-02	4.648E-03	-0.022
NP-239	5.234E-02		8.683E-02	1.537E-01	2.074E-02	0.341
AM-241	-4.740E-02		7.100E-02	1.189E-01	7.798E-03	-0.399
CM-243	2.579E-02		4.408E-02	7.533E-02	8.144E-03	0.342
AM-246	3.709E-02		4.820E-02	8.931E-02	1.142E-02	0.415
CF-249	1.075E-02		1.603E-02	2.825E-02	2.706E-03	0.380

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:24:40

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784209_GAMMA3_400MLSAN_15907.CNF

---- Sample Information ----

Sample ID : OH207-7842-09
Sample Title : SB-CZ-SS-2008-ST
Sample Quantity : 4.36700E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 15907

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

Collection Date : 16-AUG-2007 00:00:00 Acquisition date : 19-SEP-2007 17:49:41
Decay time : 34 17:49:41.90 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:00.82

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.64*	97	610	1.40	141.38	136	11	106.6		TH-234
1	74.88	421	558	1.44	166.29	158	20	24.6	2.50E+00	AM-243
										PB-214
										PB-212
1	77.14*	690	516	1.34	171.29	158	20	14.8		PB-214
										PB-212
2	87.19	165	345	1.27	193.58	190	23	38.3	3.81E+00	NP-237
										PB-214
										PB-212
2	89.91	185	574	1.58	199.61	190	23	53.8		
2	92.80*	272	459	1.50	206.01	190	23	37.1		TH-234
0	185.67*	274	445	1.61	411.87	405	13	35.4		
0	209.22	138	386	1.21	464.05	460	12	59.5		AC-228
2	238.62*	981	304	1.33	529.23	524	19	9.3	1.05E+00	PB-212
2	241.40	242	312	1.85	535.38	524	19	41.1		PB-214
0	270.62	120	270	1.43	600.17	593	13	59.9		RA-223
										AC-228
1	295.26	291	178	1.55	654.77	646	32	20.4	1.06E+00	PB-214
1	300.03	126	176	1.74	665.35	646	32	47.9		PB-212
0	338.24	213	268	1.67	750.03	742	16	37.0		AC-228
0	351.87*	449	209	1.35	780.24	775	12	16.2		PB-214
0	510.67*	130	158	1.92	1132.22	1124	20	56.0		TL-208
0	582.68*	397	95	1.83	1291.81	1282	18	15.6		TL-208
0	609.08*	305	120	1.49	1350.33	1343	15	19.8		BI-214
0	661.36	445	91	1.80	1466.21	1459	13	12.8		CS-137
0	727.18*	78	84	1.54	1612.08	1606	14	55.6		BI-212
0	910.82*	261	62	1.85	2019.07	2009	21	19.9		AC-228
0	968.45*	130	53	1.46	2146.78	2141	15	30.7		AC-228
0	1120.78*	78	71	1.57	2484.38	2473	19	57.0		BI-214
0	1460.19*	439	41	2.43	3236.53	3228	19	12.2		K-40
0	1728.60	15	10	3.13	3831.28	3825	11	96.0		BI-214
0	1763.73*	50	13	1.68	3909.12	3900	17	45.5		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	89.91	185	574	1.58	199.61	190	23	1.71E-02	53.8	3.55E+00	
0	185.67	274	445	1.61	411.87	405	13	2.54E-02	35.4	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.225E+00	5.712E-01	2.615E-01	1.539E-02	16.156
CS-137	2.859E-01	4.197E-02	3.081E-02	2.218E-03	9.277
TL-208	2.301E-01	4.031E-02	2.636E-02	2.098E-03	8.730
BI-212	3.898E-01	2.184E-01	2.056E-01	1.492E-02	1.896
PB-212	5.405E-01	6.428E-02	4.771E-02	3.566E-03	11.329
BI-214	3.366E-01	7.144E-02	5.764E-02	4.392E-03	5.839
PB-214	3.817E-01	6.892E-02	5.616E-02	4.468E-03	6.797
RA-223	2.285E-01	1.383E-01	1.403E-01	1.242E-02	1.628
AC-228	7.220E-01	1.523E-01	8.347E-02	5.869E-03	8.650
TH-234	8.119E-01	3.096E-01	3.392E-01	3.037E-02	2.393
NP-237	2.153E-01	8.590E-02	1.631E-01	1.818E-02	1.320
AM-243	1.014E-01	3.161E-02	2.595E-02	4.990E-03	3.906

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.779E-03		1.895E-02	3.027E-02	1.605E-03	0.125
RH-101	1.771E-02		1.723E-02	2.964E-02	4.575E-03	0.598
SB-125	-8.914E-03		4.406E-02	7.628E-02	6.306E-03	-0.117
EU-155	2.744E-02		4.680E-02	8.218E-02	7.727E-03	0.334
PO-209	1.414E+00		3.073E+00	5.729E+00	1.056E+00	0.247
BI-211	-2.189E-01		5.272E-01	8.748E-01	6.300E-02	-0.250
PA-233	-4.101E-03		3.043E-02	5.097E-02	4.159E-03	-0.080
PA-234M	-1.260E+00		1.970E+00	3.407E+00	2.327E-01	-0.370
U-235	2.042E-02		9.936E-02	1.698E-01	1.261E-02	0.120
NP-236	3.986E-02		3.051E-02	4.604E-02	4.394E-03	0.866
NP-239	9.035E-03		1.059E-01	1.802E-01	2.411E-02	0.050
AM-241	2.133E-03		3.399E-02	4.951E-02	3.133E-03	0.043
CM-243	-1.090E-02		4.262E-02	7.312E-02	7.880E-03	-0.149
AM-246	1.503E-02		5.549E-02	1.021E-01	1.288E-02	0.147
CF-249	1.164E-02		1.902E-02	3.426E-02	3.412E-03	0.340

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:25:14

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784210_GAMMA2_400MLSAN_15908.CNF

---- Sample Information ----

Sample ID : OH207-7842-10
Sample Title : SB-CZ-SS-2009-ST
Sample Quantity : 4.22400E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 15908

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

Collection Date : 16-AUG-2007 00:00:00 Acquisition date : 19-SEP-2007 21:27:17
Decay time : 34 21:27:17.62 % 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.83	321	503	1.19	149.24	144	14	26.0	1.26E+00	AM-243 PB-214 PB-212
2	77.10	411	430	1.03	153.77	144	14	18.9		PB-214 PB-212
0	87.08	162	523	1.57	173.64	171	7	49.3		NP-237 PB-214 PB-212
0	92.88*	190	508	1.47	185.18	182	8	45.8		
0	186.07*	236	470	1.20	370.75	367	10	37.9		
0	209.83	162	425	1.13	418.09	413	10	50.1		AC-228
0	238.74*	1043	508	1.09	475.67	472	8	9.8		PB-212
5	241.37*	101	112	1.03	480.90	480	6	31.9	1.62E+00	
5	242.36*	66	258	0.97	482.87	480	6	90.6		PB-214
0	295.44	333	323	1.11	588.61	582	12	24.3		PB-214
0	300.16	90	226	1.58	598.02	594	9	63.9		PB-212
0	328.57	68	226	1.29	654.63	650	10	86.6		
0	338.22	266	218	1.23	673.85	668	10	24.2		AC-228
0	352.16*	551	273	1.13	701.63	695	13	15.2		PB-214
0	462.82	78	183	1.41	922.17	918	13	74.4		AC-228
0	511.26*	211	138	2.14	1018.75	1012	16	32.3		TL-208
0	583.39*	414	130	1.45	1162.56	1155	14	15.5		TL-208
0	609.37*	426	132	1.45	1214.36	1207	14	15.3		BI-214
0	661.79	579	95	1.49	1318.91	1312	12	10.7		CS-137
0	727.28	93	90	1.39	1449.56	1442	15	49.3		BI-212
4	794.49	72	22	2.42	1583.63	1578	20	35.0	4.02E+00	AC-228
4	799.41	34	32	2.43	1593.47	1578	20	63.0		
0	860.71	51	61	2.32	1715.78	1710	11	65.1		TL-208
0	910.98*	291	51	1.76	1816.13	1808	18	16.7		AC-228
0	934.22	43	45	1.15	1862.51	1856	12	69.5		BI-214
2	964.43	54	53	2.12	1922.82	1916	23	62.2	1.42E+00	AC-228
2	968.83*	168	52	1.93	1931.61	1916	23	23.3		AC-228
0	1120.21*	95	57	1.74	2233.90	2228	11	37.9		BI-214
0	1237.85	41	32	1.32	2468.93	2463	12	64.1		BI-214
0	1400.96*	13	5	1.45	2794.92	2792	6	86.7		BI-214
0	1459.76*	550	22	1.75	2912.47	2902	18	9.7		K-40
0	1728.30	21	3	2.36	3449.64	3445	11	53.8		BI-214
0	1762.44*	77	16	1.75	3517.98	3508	16	33.9		BI-214

Th-234

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	92.88	190	508	1.47	185.18	182	8	1.76E-02	45.8	2.71E+00	T
0	186.07	236	470	1.20	370.75	367	10	2.18E-02	37.9	3.21E+00	
5	241.37	101	112	1.03	480.90	480	6	9.36E-03	31.9	2.78E+00	
0	328.57	68	226	1.29	654.63	650	10	6.28E-03	86.6	2.20E+00	
4	799.41	34	32	2.43	1593.47	1578	20	3.15E-03	63.0	1.05E+00	

Th-234

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.526E+00	5.276E-01	2.094E-01	1.348E-02	21.615
CS-137	3.323E-01	5.191E-02	2.840E-02	3.230E-03	11.702
TL-208	2.155E-01	4.015E-02	2.453E-02	2.554E-03	8.784
BI-212	4.121E-01	2.080E-01	1.758E-01	1.922E-02	2.344
PB-212	5.093E-01	6.340E-02	4.964E-02	3.793E-03	10.260
BI-214	4.210E-01	7.849E-02	4.710E-02	5.015E-03	8.937
PB-214	4.181E-01	7.112E-02	4.982E-02	3.820E-03	8.392
AC-228	7.022E-01	1.324E-01	8.794E-02	7.641E-03	7.985
NP-237	3.120E-01	1.588E-01	2.071E-01	2.603E-02	1.506
AM-243	1.430E-01	4.681E-02	4.418E-02	8.807E-03	3.237

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.382E-03		1.383E-02	2.503E-02	1.456E-03	0.135
RH-101	-1.820E-02		1.553E-02	2.357E-02	3.680E-03	-0.772
SB-125	-2.304E-02		3.924E-02	6.453E-02	5.290E-03	-0.357
EU-155	5.256E-02		5.207E-02	9.012E-02	8.438E-03	0.583
PO-209	-3.422E-01		2.583E+00	4.516E+00	8.657E-01	-0.076
BI-211	-1.168E-01		4.263E-01	7.318E-01	7.164E-02	-0.160
RA-223	8.151E-02		7.600E-02	1.366E-01	1.215E-02	0.597
PA-233	4.014E-03		2.553E-02	4.447E-02	3.582E-03	0.090
PA-234M	5.003E-01		1.614E+00	2.936E+00	2.292E-01	0.170
TH-234	7.729E-01	+	3.623E-01	5.065E-01	5.066E-02	1.526
U-235	9.763E-02		9.195E-02	1.556E-01	1.136E-02	0.627
NP-236	1.561E-02		3.130E-02	5.281E-02	5.250E-03	0.295
NP-239	-1.987E-02		9.366E-02	1.618E-01	2.184E-02	-0.123
AM-241	-8.054E-03		7.925E-02	1.355E-01	8.887E-03	-0.059
CM-243	3.264E-02		4.701E-02	8.074E-02	8.729E-03	0.404
AM-246	8.588E-03		5.030E-02	8.933E-02	1.143E-02	0.096
CF-249	8.322E-03		1.605E-02	2.830E-02	2.712E-03	0.294

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:26:05

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784211_GAMMA3_400MLSAN_15909.CNF

---- Sample Information ----

Sample ID	: OH207-7842-11		
Sample Title	: SB-CZ-SS-2010-ST		
Sample Quantity	: 4.92600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15909		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 19-SEP-2007 21:30:09
Decay time	: 34 21:30:09.08	% 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_LNGBKG090707_GAMMA3__15828.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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.73	517	862	1.75	165.97	159	18	25.8	1.48E+00	AM-243
										PB-214
										PB-212
3	77.16*	677	590	1.27	171.33	159	18	15.3		PB-214
										PB-212
2	87.17	355	566	1.45	193.53	182	31	27.7	1.22E+00	NP-237
										PB-214
										PB-212
2	89.92	245	555	1.48	199.62	182	31	40.2		
2	92.70*	309	597	1.63	205.78	182	31	36.9		
0	186.28*	298	535	1.68	413.20	407	15	37.5		
3	238.56*	1267	262	1.38	529.10	520	23	7.5	1.54E+00	PB-212
3	241.59	281	362	2.03	535.81	520	23	39.0		PB-214
0	269.77	122	272	1.14	598.28	593	12	56.9		RA-223
										AC-228
0	295.37	341	290	1.35	655.02	650	12	22.8		PB-214
0	328.57	70	205	1.25	728.59	724	11	83.2		
0	338.22	285	233	1.47	750.00	744	12	24.5		AC-228
0	351.92*	608	208	1.47	780.36	775	13	12.9		PB-214
0	462.27	117	165	1.68	1024.94	1018	16	52.5		AC-228
0	510.59*	108	198	1.38	1132.03	1125	16	67.3		TL-208
0	582.90*	409	74	1.53	1292.31	1285	14	13.7		TL-208
0	609.14*	398	84	1.80	1350.46	1344	13	14.2		BI-214
0	661.38	319	105	1.40	1466.25	1460	12	17.0		CS-137
0	910.82*	246	81	1.87	2019.07	2010	15	20.6		AC-228
0	968.66*	170	87	1.97	2147.25	2139	15	29.0		AC-228
0	1120.31*	125	46	2.65	2483.34	2476	20	32.4		BI-214
0	1460.15*	554	18	2.14	3236.42	3228	19	9.5		K-40
1	1762.55*	62	19	2.59	3906.52	3898	19	42.6	1.97E+00	
1	1763.89*	36	14	2.59	3909.48	3898	19	70.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.92	245	555	1.48	199.62	182	31	2.27E-02	40.2	3.55E+00	
2	92.70	309	597	1.63	205.78	182	31	2.86E-02	36.9	3.55E+00	T
0	186.28	298	535	1.68	413.20	407	15	2.76E-02	37.5	2.81E+00	
0	328.57	70	205	1.25	728.59	724	11	6.46E-03	83.2	1.89E+00	
1	1762.55	62	19	2.59	3906.52	3898	19	5.75E-03	42.6	4.91E-01	

Th-234

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.730E+00	5.284E-01	1.817E-01	1.069E-02	26.038
CS-137	1.818E-01	3.362E-02	2.982E-02	2.147E-03	6.096
TL-208	2.102E-01	3.326E-02	2.454E-02	1.953E-03	8.566
PB-212	6.186E-01	6.542E-02	4.087E-02	3.055E-03	15.136
BI-214	3.896E-01	6.295E-02	4.442E-02	3.385E-03	8.770
PB-214	4.586E-01	6.931E-02	4.979E-02	3.961E-03	9.210
RA-223	2.054E-01	1.182E-01	1.257E-01	1.113E-02	1.633
AC-228	6.037E-01	1.314E-01	8.820E-02	6.201E-03	6.844
NP-237	4.091E-01	1.221E-01	1.301E-01	1.450E-02	3.146
AM-243	1.101E-01	3.542E-02	2.579E-02	4.960E-03	4.270

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.784E-03		1.760E-02	2.325E-02	1.233E-03	-0.292
RH-101	2.099E-03		1.534E-02	2.594E-02	4.004E-03	0.081
SB-125	2.701E-03		3.871E-02	6.802E-02	5.623E-03	0.040
EU-155	4.231E-02		4.376E-02	7.727E-02	7.266E-03	0.548
PO-209	-3.537E+00		3.123E+00	4.949E+00	9.119E-01	-0.715
BI-211	2.128E-01		4.711E-01	8.351E-01	6.014E-02	0.255
BI-212	4.372E-01		1.500E-01	2.922E-01	2.121E-02	1.496
PA-233	-7.910E-03		2.826E-02	4.692E-02	3.829E-03	-0.169
PA-234M	2.575E-01		1.771E+00	3.269E+00	2.232E-01	0.079
TH-234	8.176E-01	+	3.101E-01	4.180E-01	2.781E-02	1.956
U-235	3.275E-02		9.382E-02	1.608E-01	1.194E-02	0.204
NP-236	6.445E-03		2.830E-02	4.085E-02	3.899E-03	0.158
NP-239	-6.534E-03		1.045E-01	1.762E-01	2.357E-02	-0.037
AM-241	-6.405E-02		3.057E-02	4.688E-02	2.967E-03	-1.366
CM-243	2.279E-03		3.954E-02	6.842E-02	7.373E-03	0.033
AM-246	4.000E-02		5.062E-02	9.667E-02	1.220E-02	0.414
CF-249	-9.812E-04		1.697E-02	2.966E-02	2.955E-03	-0.033

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:27:29

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784212_GAMMA1_400MLSAN_15910.CNF

---- Sample Information ----

Sample ID	: OH207-7842-12
Sample Title	: SB-CZ-SS-2011-ST
Sample Quantity	: 4.12100E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15910

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 09:45:36
Decay time	: 35 09:45:36.74	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.93	262	405	1.12	149.28	145	14	29.0	4.37E-01	AM-243 PB-214 PB-212
2	77.22*	373	371	0.96	153.86	145	14	19.6		PB-214 PB-212
0	87.20	139	370	0.93	173.83	171	6	46.9		NP-237 PB-214 PB-212
0	93.16*	164	492	1.81	185.78	182	9	53.8		
0	186.11*	192	457	1.20	371.90	367	10	45.4		
0	209.34	105	368	1.36	418.41	415	9	68.8		AC-228
2	238.64*	1182	210	1.04	477.09	472	18	7.1	1.75E+00	PB-212
2	241.06	135	228	1.41	481.94	472	18	55.6		
2	241.90	144	223	1.41	483.62	472	18	46.2		PB-214
0	270.23*	101	324	1.48	540.34	535	12	74.9		RA-223 AC-228
4	295.24*	304	207	1.30	590.41	586	21	19.4	2.40E+00	PB-214
4	299.92	110	207	1.80	599.78	586	21	58.1		PB-212
0	328.15	50	234	1.29	656.32	651	11	122.5		
0	338.28*	256	215	1.23	676.58	673	11	25.6		AC-228
0	351.81*	556	171	1.13	703.68	698	11	12.6		PB-214
0	462.70	85	90	1.08	925.72	922	8	44.4		AC-228
0	510.70*	135	221	2.26	1021.82	1015	19	59.9		TL-208
0	583.14*	438	139	1.43	1166.85	1159	16	15.5		TL-208
0	609.23*	394	136	1.36	1219.09	1211	16	16.8		BI-214
0	661.50	627	96	1.41	1323.74	1318	12	10.1		CS-137
0	727.00	112	59	1.24	1454.86	1448	11	32.5		BI-212
0	794.93	54	49	1.50	1590.86	1587	8	52.0		AC-228
0	860.55	55	51	1.54	1722.23	1717	12	59.0		TL-208
0	911.04*	278	52	1.67	1823.31	1817	15	17.0		AC-228
1	964.30	54	32	1.87	1929.93	1920	27	49.4	1.18E+00	AC-228
1	968.71	161	29	1.87	1938.76	1920	27	21.2		AC-228
0	1120.39*	110	35	2.07	2242.40	2235	15	31.3		BI-214
0	1237.73	46	37	1.19	2477.28	2471	11	60.1		BI-214
0	1381.71	56	53	9.92	2765.46	2747	33	86.3		
0	1460.22*	568	23	2.23	2922.62	2915	15	9.3		K-40
0	1763.84*	94	4	1.84	3530.28	3523	17	23.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	93.16	164	492	1.81	185.78	182	9	1.52E-02	53.8	2.44E+00	T
0	186.11	192	457	1.20	371.90	367	10	1.78E-02	45.4	3.03E+00	
2	241.06	135	228	1.41	481.94	472	18	1.25E-02	55.6	2.64E+00	
0	328.15	50	234	1.29	656.32	651	11	4.62E-03	****	2.10E+00	
0	1381.71	56	53	9.92	2765.46	2747	33	5.19E-03	86.3	7.36E-01	

Th-234

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.569E+00	5.287E-01	2.271E-01	1.550E-02	20.121
CS-137	3.697E-01	5.463E-02	2.697E-02	2.898E-03	13.708
TL-208	2.366E-01	4.372E-02	2.454E-02	2.462E-03	9.642
BI-212	5.067E-01	1.719E-01	1.832E-01	1.762E-02	2.766
PB-212	6.236E-01	6.527E-02	3.906E-02	3.014E-03	15.968
BI-214	4.028E-01	7.920E-02	4.287E-02	4.366E-03	9.396
PB-214	4.510E-01	6.703E-02	4.730E-02	3.733E-03	9.533
RA-223	1.829E-01	1.381E-01	1.252E-01	1.152E-02	1.461
AC-228	6.719E-01	1.199E-01	8.047E-02	4.447E-03	8.349
NP-237	3.105E-01	1.524E-01	2.140E-01	3.094E-02	1.451
AM-243	1.395E-01	4.997E-02	4.661E-02	9.779E-03	2.992

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-3.997E-03		1.453E-02	2.466E-02	1.505E-03	-0.162
RH-101	-2.416E-02		1.573E-02	2.387E-02	3.702E-03	-1.012
SB-125	-2.673E-03		3.817E-02	6.566E-02	5.384E-03	-0.041
EU-155	5.897E-02		5.338E-02	9.407E-02	9.340E-03	0.627
PO-209	-9.844E-01		2.743E+00	4.699E+00	8.410E-01	-0.209
BI-211	-1.576E-01		4.061E-01	6.968E-01	5.077E-02	-0.226
PA-233	3.879E-03		2.505E-02	4.420E-02	3.712E-03	0.088
PA-234M	2.043E-01		1.625E+00	2.934E+00	1.687E-01	0.070
TH-234	7.633E-01	+	4.205E-01	5.324E-01	6.211E-02	1.434
U-235	-2.265E-03		9.526E-02	1.591E-01	1.111E-02	-0.014
NP-236	6.830E-03		3.245E-02	5.314E-02	5.837E-03	0.129
NP-239	7.696E-02		9.484E-02	1.610E-01	2.172E-02	0.478
AM-241	3.186E-02		8.617E-02	1.525E-01	1.213E-02	0.209
CM-243	-1.285E-02		4.752E-02	8.017E-02	9.137E-03	-0.160
AM-246	-1.060E-02		4.750E-02	8.179E-02	1.007E-02	-0.130
CF-249	-8.104E-03		1.669E-02	2.809E-02	2.709E-03	-0.289

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:27:54

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784213_GAMMA3_400MLSAN_15911.CNF

---- Sample Information ----

Sample ID	: OH207-7842-13		
Sample Title	: SB-CZ-SS-2012-ST		
Sample Quantity	: 4.46400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15911		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 10:14:19
Decay time	: 35 10:14:19.68	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.83

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.27*	127	599	1.30	140.55	135	12	83.1		TH-234
1	74.88	436	594	1.44	166.29	161	15	24.0	1.30E+00	AM-243
										PB-214
										PB-212
1	77.07*	592	485	1.23	171.14	161	15	16.2		PB-214
										PB-212
0	93.01*	186	807	1.74	206.46	201	13	70.4		TH-234
0	185.94*	237	476	1.82	412.46	408	15	43.6		
3	238.57*	1029	216	1.41	529.12	522	21	8.3	1.90E+00	PB-212
3	241.62	222	289	2.04	535.88	522	21	44.3		PB-214
0	269.93	153	255	1.91	598.63	593	13	45.9		RA-223
										AC-228
0	295.06	223	238	1.30	654.32	649	11	29.8		PB-214
0	338.25	185	192	1.48	750.07	745	11	32.8		AC-228
0	351.63*	509	188	1.39	779.72	772	16	15.1		PB-214
0	462.16	121	146	0.90	1024.70	1018	16	48.0		AC-228
0	510.58*	134	157	2.07	1132.02	1123	19	53.3		TL-208
0	583.01*	308	104	1.51	1292.54	1285	13	18.3		TL-208
0	608.97*	228	119	1.70	1350.09	1345	13	24.3		BI-214
0	661.41	435	140	1.59	1466.32	1459	17	15.7		CS-137
0	726.91*	72	65	0.82	1611.47	1604	13	50.2		BI-212
0	794.35	79	30	1.95	1760.95	1755	12	35.7		AC-228
0	910.84*	187	88	2.01	2019.12	2011	20	28.7		AC-228
1	964.23	53	18	2.17	2137.45	2133	22	40.2	1.49E+00	AC-228
1	968.65*	104	50	2.21	2147.24	2133	22	36.1		AC-228
0	1120.37*	92	44	2.20	2483.46	2475	20	41.8		BI-214
0	1460.07*	427	46	2.11	3236.24	3226	23	13.0		K-40
0	1729.33	22	11	2.37	3832.91	3823	13	73.9		BI-214
0	1763.41*	46	3	1.73	3908.42	3902	13	36.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.94	237	476	1.82	412.46	408	15	2.19E-02	43.6	2.81E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.021E+00	5.731E-01	2.118E-01	1.246E-02	18.989
CS-137	2.736E-01	4.731E-02	2.696E-02	1.941E-03	10.149
TL-208	1.745E-01	3.481E-02	2.731E-02	2.174E-03	6.390
BI-212	3.537E-01	1.793E-01	1.775E-01	1.289E-02	1.992
PB-212	5.544E-01	6.182E-02	4.488E-02	3.354E-03	12.354
BI-214	2.462E-01	6.260E-02	5.397E-02	4.112E-03	4.562
PB-214	4.235E-01	7.242E-02	5.009E-02	3.985E-03	8.453
RA-223	2.841E-01	1.328E-01	1.261E-01	1.117E-02	2.252
AC-228	5.057E-01	1.495E-01	1.020E-01	7.170E-03	4.959
TH-234	5.428E-01	3.853E-01	3.283E-01	2.940E-02	1.653
AM-243	1.026E-01	3.158E-02	2.667E-02	5.129E-03	3.847

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-3.388E-03		1.683E-02	2.939E-02	1.789E-03	-0.115
RH-101	-1.174E-02		1.610E-02	2.626E-02	4.053E-03	-0.447
SB-125	-1.879E-02		4.363E-02	7.455E-02	6.163E-03	-0.252
EU-155	3.034E-02		4.531E-02	7.975E-02	7.499E-03	0.380
PO-209	1.042E+00		3.245E+00	5.950E+00	1.096E+00	0.175
BI-211	-1.347E-01		5.015E-01	8.432E-01	6.073E-02	-0.160
PA-233	-2.825E-02		2.921E-02	4.663E-02	3.805E-03	-0.606
PA-234M	-1.759E-01		1.896E+00	3.445E+00	2.353E-01	-0.051
U-235	8.998E-03		9.428E-02	1.607E-01	1.193E-02	0.056
NP-236	1.624E-02		2.815E-02	4.148E-02	3.958E-03	0.391
NP-237	6.831E-02		1.019E-01	1.691E-01	1.885E-02	0.404
NP-239	-4.595E-02		1.040E-01	1.729E-01	2.314E-02	-0.266
AM-241	2.805E-02		3.122E-02	4.739E-02	2.999E-03	0.592
CM-243	-2.335E-02		4.113E-02	6.981E-02	7.522E-03	-0.334
AM-246	-3.924E-02		5.229E-02	8.637E-02	1.090E-02	-0.454
CF-249	1.416E-03		1.906E-02	3.350E-02	3.337E-03	0.042

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:28:24

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784214_GAMMA3_400MLSAN_15915.CNF

---- Sample Information ----

Sample ID	: OH207-7842-14
Sample Title	: SB-CZ-SS-2013-ST
Sample Quantity	: 5.40300E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15915

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 13:18:47
Decay time	: 35 13:18:47.19	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.98

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB;
Inter Lib File : SYS$SYSDEVICE:[GAMMA.SCUSR.LIB]SCHOFIELD.NLB
Anal Seq Title : SCHOFIELD BARRACKS
Use Variable Tol : Yes
Variable Tol : 1.1000

Reviewer's Signature: T Thomas Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.08*	268	1038	1.45	140.13	133	16	56.5		TH-234
2	74.87	631	946	1.59	166.26	160	17	21.7	2.08E+00	AM-243
										PB-214
										PB-212
2	77.19*	981	774	1.35	171.41	160	17	12.5		PB-214
										PB-212
0	87.12	219	549	0.79	193.42	191	6	36.4		NP-237
										PB-214
										PB-212
0	93.04*	297	1006	1.46	206.55	201	12	47.5		TH-234
0	128.62	90	534	1.42	285.41	283	8	90.8		AC-228
0	185.92*	271	708	1.59	412.42	406	13	43.6		
0	209.78	171	476	1.23	465.30	460	13	55.0		AC-228
2	238.59*	1718	346	1.47	529.15	521	22	6.4	2.36E+00	PB-212
2	241.48	295	410	1.85	535.57	521	22	38.4		PB-214
0	270.16	118	332	1.39	599.14	593	11	62.7		RA-223
										AC-228
0	295.14	432	274	1.49	654.50	649	11	17.7		PB-214
0	300.30	101	324	1.59	665.94	661	13	76.4		PB-212
0	327.68	116	256	1.11	726.62	721	13	59.5		
0	338.16	387	292	1.42	749.86	741	14	21.3		AC-228
0	351.65*	759	238	1.80	779.76	771	16	11.8		PB-214
0	462.54	89	189	1.72	1025.53	1017	14	68.9		AC-228
0	510.81*	151	181	2.02	1132.52	1124	15	46.7		TL-208
0	582.83*	513	160	1.21	1292.14	1284	16	14.4		TL-208
0	609.05*	473	171	1.77	1350.26	1343	15	15.4		BI-214
0	660.76	124	174	1.84	1464.86	1460	15	49.3		CS-137
0	727.33*	163	96	2.35	1612.41	1605	21	33.9		BI-212
0	794.76	49	75	0.71	1761.85	1755	12	76.2		AC-228
0	910.72*	348	90	1.50	2018.84	2010	18	16.9		AC-228
4	964.53	63	68	2.24	2138.10	2133	21	55.4	1.58E+00	AC-228
4	968.21*	175	78	2.09	2146.26	2133	21	27.2		AC-228
0	1119.89*	96	80	1.65	2482.41	2476	17	48.0		BI-214
0	1460.23*	792	38	2.21	3236.61	3227	20	8.2		K-40
0	1590.32	52	26	4.53	3524.87	3514	23	59.6		AC-228
0	1629.91	25	3	0.83	3612.61	3607	11	47.1		
0	1728.59	17	5	1.03	3831.26	3826	10	69.1		BI-214
5	1761.70*	13	0	1.39	3904.64	3902	16	83.2	6.07E-01	
5	1763.89*	65	8	2.59	3909.48	3902	16	36.1		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	185.92	271	708	1.59	412.42	406	13	2.51E-02	43.6	2.82E+00	
0	327.68	116	256	1.11	726.62	721	13	1.08E-02	59.5	1.90E+00	
0	1629.91	25	3	0.83	3612.61	3607	11	2.34E-03	47.1	5.17E-01	
5	1761.70	13	0	1.39	3904.64	3902	16	1.21E-03	83.2	4.91E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	6.170E+00	6.237E-01	2.387E-01	1.404E-02	25.848
CS-137	6.430E-02	3.202E-02	2.691E-02	1.937E-03	2.390
TL-208	2.402E-01	3.943E-02	2.671E-02	2.126E-03	8.993
BI-212	6.613E-01	2.294E-01	1.810E-01	1.314E-02	3.655
PB-212	7.648E-01	7.540E-02	4.291E-02	3.207E-03	17.826
BI-214	4.219E-01	7.252E-02	4.979E-02	3.794E-03	8.474
PB-214	5.221E-01	7.411E-02	4.714E-02	3.750E-03	11.077
RA-223	1.809E-01	1.145E-01	1.336E-01	1.183E-02	1.354
AC-228	7.770E-01	1.423E-01	8.745E-02	6.149E-03	8.885
TH-234	7.153E-01	3.454E-01	3.274E-01	2.178E-02	2.185
NP-237	2.303E-01	8.760E-02	1.545E-01	1.722E-02	1.491
AM-243	1.227E-01	3.561E-02	2.531E-02	4.867E-03	4.849

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.295E-03		1.610E-02	2.425E-02	1.286E-03	-0.053
RH-101	-2.250E-02		1.573E-02	2.463E-02	3.801E-03	-0.914
SB-125	-9.330E-03		3.992E-02	6.875E-02	5.683E-03	-0.136
EU-155	8.737E-03		4.399E-02	7.615E-02	7.161E-03	0.115
PO-209	-6.946E-01		2.964E+00	5.180E+00	9.544E-01	-0.134
BI-211	1.116E-01		4.604E-01	7.999E-01	5.761E-02	0.139
PA-233	-2.792E-03		2.926E-02	4.883E-02	3.985E-03	-0.057
PA-234M	8.033E-01		1.741E+00	3.256E+00	2.223E-01	0.247
U-235	3.258E-02		9.266E-02	1.586E-01	1.177E-02	0.205
NP-236	3.600E-02		2.896E-02	4.306E-02	4.109E-03	0.836
NP-239	-3.364E-02		1.006E-01	1.677E-01	2.243E-02	-0.201
AM-241	1.922E-02		2.997E-02	4.461E-02	2.823E-03	0.431
CM-243	-2.454E-03		4.008E-02	6.895E-02	7.430E-03	-0.036
AM-246	1.101E-02		5.116E-02	9.250E-02	1.168E-02	0.119
CF-249	8.084E-03		1.706E-02	3.036E-02	3.023E-03	0.266

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:29:01

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784215_GAMMA2_400MLSAN_15916.CNF

---- Sample Information ----

Sample ID	: OH207-7842-15
Sample Title	: SB-CZ-SS-2014-ST
Sample Quantity	: 4.82600E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15916

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 13:25:32
Decay time	: 35 13:25:32.59	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.14

---- Detector Parameters ----

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

Efficiency Equation:

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

where:
x=ln(a1/energy)

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

---- Processing Parameters ----

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

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.82	362	558	1.19	149.21	144	15	24.4	7.20E-01	AM-243
										PB-214
										PB-212
2	77.10	508	472	0.99	153.76	144	15	16.4		PB-214
										PB-212
1	87.25	180	582	1.11	173.97	171	11	46.5	4.02E-01	NP-237
										PB-214
										PB-212
1	89.87	129	483	1.00	179.18	171	11	57.3		
0	93.03*	274	642	1.50	185.49	182	9	37.0		
0	115.32	71	260	1.32	229.86	228	5	72.5		
0	186.11*	267	568	1.13	370.84	366	11	37.5		
0	209.39	130	357	0.74	417.19	414	8	53.4		AC-228
2	238.79*	1455	316	1.14	475.76	470	20	6.6	3.09E+00	PB-212
2	241.17*	180	248	1.21	480.50	470	20	41.7		
2	242.24*	177	306	1.48	482.63	470	20	44.7		PB-214
0	270.31	141	334	1.19	538.56	534	10	51.6		RA-223
										AC-228
0	295.38	403	289	1.08	588.51	584	10	18.7		PB-214
0	300.65	74	265	1.08	599.00	595	9	83.7		PB-212
0	328.05	89	244	1.17	653.58	649	10	69.0		
0	338.41	274	246	1.30	674.23	669	11	25.2		AC-228
0	352.14*	654	288	1.29	701.60	695	13	13.4		PB-214
0	463.06	76	175	1.47	922.66	918	12	72.9		AC-228
0	510.99*	196	175	2.01	1018.21	1010	17	37.6		TL-208
0	583.28*	441	113	1.51	1162.34	1157	11	13.6		TL-208
0	609.50*	447	139	1.31	1214.61	1209	14	14.9		BI-214
0	661.68	483	116	1.60	1318.69	1314	12	12.6		CS-137
0	727.55	123	103	1.60	1450.09	1444	15	39.4		BI-212
0	785.82	54	21	2.15	1566.34	1562	9	40.3		BI-212
0	794.79	72	55	2.24	1584.25	1577	14	49.9		AC-228
0	861.40	53	108	1.77	1717.17	1708	17	95.4		TL-208
0	911.15*	335	69	1.39	1816.47	1810	12	15.1		AC-228
1	964.59	85	58	1.93	1923.15	1917	25	40.5	8.61E-01	AC-228
1	968.85*	170	48	1.89	1931.66	1917	25	22.6		AC-228
0	1119.77*	118	33	1.53	2233.03	2227	14	28.0		BI-214
0	1459.59*	715	16	1.94	2912.14	2902	21	8.2		K-40
0	1587.08	39	12	1.13	3167.10	3160	12	47.8		AC-228
0	1727.91	20	10	1.45	3448.88	3441	14	81.7		BI-214
0	1762.22*	96	4	2.64	3517.53	3509	17	23.9		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.87	129	483	1.00	179.18	171	11	1.19E-02	57.3	2.60E+00	
0	93.03	274	642	1.50	185.49	182	9	2.53E-02	37.0	2.71E+00	T
0	115.32	71	260	1.32	229.86	228	5	6.58E-03	72.5	3.22E+00	
0	186.11	267	568	1.13	370.84	366	11	2.47E-02	37.5	3.21E+00	
2	241.17	180	248	1.21	480.50	470	20	1.67E-02	41.7	2.78E+00	
0	328.05	89	244	1.17	653.58	649	10	8.25E-03	69.0	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.150E+00	5.360E-01	1.690E-01	1.088E-02	30.472
CS-137	2.424E-01	4.112E-02	2.442E-02	2.778E-03	9.926
TL-208	2.006E-01	3.429E-02	2.196E-02	2.287E-03	9.134
BI-212	4.804E-01	1.966E-01	1.550E-01	1.694E-02	3.100
PB-212	6.220E-01	6.296E-02	3.606E-02	2.756E-03	17.249
BI-214	3.870E-01	7.096E-02	4.573E-02	4.870E-03	8.462
PB-214	4.348E-01	6.710E-02	4.473E-02	3.429E-03	9.722
RA-223	2.068E-01	1.082E-01	1.125E-01	1.001E-02	1.839
AC-228	7.093E-01	1.234E-01	7.858E-02	6.828E-03	9.026
NP-237	3.041E-01	1.466E-01	1.942E-01	2.440E-02	1.566
AM-243	1.412E-01	4.445E-02	4.064E-02	8.100E-03	3.475

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.961E-03		1.358E-02	2.031E-02	1.181E-03	0.146
RH-101	-8.232E-04		1.395E-02	2.255E-02	3.520E-03	-0.037
SB-125	-1.147E-03		3.665E-02	6.225E-02	5.104E-03	-0.018
EU-155	-5.800E-05		4.745E-02	7.952E-02	7.446E-03	-0.001
PO-209	-4.152E-02		2.470E+00	4.340E+00	8.321E-01	-0.010
BI-211	-2.141E-01		3.642E-01	6.085E-01	5.956E-02	-0.352
PA-233	1.837E-02		2.453E-02	4.356E-02	3.509E-03	0.422
PA-234M	-2.161E-01		1.392E+00	2.429E+00	1.896E-01	-0.089
TH-234	9.718E-01	+	3.729E-01	4.805E-01	4.806E-02	2.023
U-235	-2.265E-02		8.699E-02	1.407E-01	1.027E-02	-0.161
NP-236	3.158E-02		2.887E-02	4.748E-02	4.720E-03	0.665
NP-239	1.979E-02		7.986E-02	1.404E-01	1.894E-02	0.141
AM-241	-1.851E-02		7.120E-02	1.210E-01	7.935E-03	-0.153
CM-243	2.463E-02		4.284E-02	7.319E-02	7.913E-03	0.337
AM-246	3.281E-02		4.809E-02	8.829E-02	1.129E-02	0.372
CF-249	1.600E-02		1.567E-02	2.800E-02	2.682E-03	0.571

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:29:46

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784216_GAMMA1_400MLSAN_15917.CNF

---- Sample Information ----

Sample ID	: OH207-7842-16		
Sample Title	: SB-CZ-SS-2015-ST		
Sample Quantity	: 3.78800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15917		

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

Collection Date	: 20-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 13:56:30
Decay time	: 31 13:56:30.30	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.80

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.98	207	301	1.02	149.37	146	12	29.3	6.11E-01	AM-243
										PB-214
										PB-212
2	77.25*	275	230	0.91	153.92	146	12	21.2		PB-214
										PB-212
7	87.35	152	230	1.60	174.14	171	30	34.1	2.75E+00	NP-237
										PB-214
										PB-212
7	90.01	149	329	1.42	179.48	171	30	47.0		
7	92.95*	181	344	1.64	185.36	171	30	45.0		
0	186.18*	203	318	1.24	372.05	367	12	39.2		
0	209.48	127	253	1.13	418.70	415	9	48.5		AC-228
0	238.66*	837	360	1.00	477.12	472	9	10.9		PB-212
0	269.84*	141	211	1.55	539.55	534	13	45.9		RA-223
										AC-228
0	295.23*	215	149	1.36	590.39	584	12	26.8		PB-214
1	299.65	65	72	1.35	599.24	596	14	54.0	3.25E+00	
1	300.53	55	94	1.23	601.00	596	14	70.0		PB-212
0	327.85	86	117	1.31	655.71	651	9	50.2		
0	338.18*	176	173	1.02	676.40	672	10	32.0		AC-228
0	351.83*	305	190	1.18	703.73	699	11	21.3		PB-214
0	463.29	91	100	1.33	926.88	920	14	51.1		AC-228
0	510.61*	174	128	2.01	1021.64	1013	20	39.6		TL-208
0	583.03*	320	94	1.51	1166.62	1160	15	17.5		TL-208
0	609.31*	228	110	1.30	1219.24	1214	13	23.4		BI-214
0	661.36	445	80	1.40	1323.45	1316	15	12.7		CS-137
0	727.13	71	71	1.68	1455.13	1446	15	57.2		BI-212
0	795.09	29	26	1.61	1591.18	1587	8	72.9		AC-228
0	910.96*	239	33	1.80	1823.15	1814	19	17.6		AC-228
0	963.68	60	23	3.05	1928.69	1921	13	41.8		AC-228
0	968.57	138	31	1.91	1938.48	1934	12	23.4		AC-228
0	1120.39*	37	49	1.99	2242.39	2233	14	89.5		BI-214
0	1238.32	58	12	1.50	2478.46	2471	16	37.2		BI-214
0	1460.15*	298	18	2.36	2922.48	2912	18	13.8		K-40
0	1591.07	45	20	5.15	3184.50	3173	23	61.9		
0	1763.72*	34	11	1.57	3530.05	3522	14	55.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
7	90.01	149	329	1.42	179.48	171	30	1.38E-02	47.0	2.33E+00	
7	92.95	181	344	1.64	185.36	171	30	1.67E-02	45.0	2.43E+00	T
0	186.18	203	318	1.24	372.05	367	12	1.88E-02	39.2	3.03E+00	
1	299.65	65	72	1.35	599.24	596	14	6.00E-03	54.0	2.26E+00	
0	327.85	86	117	1.31	655.71	651	9	7.96E-03	50.2	2.11E+00	
0	1591.07	45	20	5.15	3184.50	3173	23	4.20E-03	61.9	6.63E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.610E+00	4.029E-01	1.726E-01	1.178E-02	15.125
CS-137	2.852E-01	4.736E-02	2.782E-02	2.990E-03	10.252
TL-208	1.877E-01	3.792E-02	2.448E-02	2.456E-03	7.671
BI-212	3.492E-01	2.026E-01	1.953E-01	1.879E-02	1.788
PB-212	4.805E-01	6.409E-02	5.435E-02	4.194E-03	8.842
BI-214	2.532E-01	6.466E-02	4.831E-02	4.920E-03	5.242
PB-214	2.696E-01	6.134E-02	4.996E-02	3.942E-03	5.396
RA-223	2.785E-01	1.304E-01	1.196E-01	1.101E-02	2.328
AC-228	6.297E-01	1.164E-01	8.469E-02	4.680E-03	7.435
NP-237	3.701E-01	1.371E-01	2.130E-01	3.080E-02	1.738
AM-243	1.202E-01	4.334E-02	4.758E-02	9.982E-03	2.527

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.176E-03		1.394E-02	2.048E-02	1.337E-03	0.399
RH-101	-8.628E-03		1.459E-02	2.382E-02	3.694E-03	-0.362
SB-125	-6.755E-04		3.697E-02	6.417E-02	5.263E-03	-0.011
EU-155	2.185E-02		4.988E-02	8.691E-02	8.629E-03	0.251
PO-209	2.284E+00		2.682E+00	5.134E+00	9.189E-01	0.445
BI-211	1.684E-01		3.670E-01	6.871E-01	5.006E-02	0.245
PA-233	-3.610E-03		2.449E-02	4.272E-02	3.587E-03	-0.085
PA-234M	8.277E-01		1.547E+00	2.951E+00	1.696E-01	0.281
TH-234	9.125E-01	+	4.241E-01	5.277E-01	6.157E-02	1.729
U-235	-1.545E-02		8.763E-02	1.460E-01	1.019E-02	-0.106
NP-236	-2.538E-02		3.084E-02	5.037E-02	5.534E-03	-0.504
NP-239	-5.013E-02		9.252E-02	1.478E-01	1.994E-02	-0.339
AM-241	2.093E-02		8.529E-02	1.510E-01	1.200E-02	0.139
CM-243	-1.894E-02		4.565E-02	7.670E-02	8.741E-03	-0.247
AM-246	1.178E-02		4.032E-02	7.536E-02	9.275E-03	0.156
CF-249	1.870E-03		1.577E-02	2.771E-02	2.673E-03	0.067

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:30:12

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784217_GAMMA1_400MLSAN_15918.CNF

---- Sample Information ----

Sample ID	: OH207-7842-17
Sample Title	: SB-CZ-SS-2016-ST
Sample Quantity	: 3.90300E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15918

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

Collection Date	: 20-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 17:00:05
Decay time	: 31 17:00:05.59	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.85

---- 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_LNGBKG091407_GAMMA1__15882.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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.86	151	310	1.02	149.14	144	15	40.5	8.97E-01	AM-243
										PB-214
										PB-212
1	77.21*	254	259	0.88	153.83	144	15	23.3		PB-214
										PB-212
0	87.33	76	411	0.80	174.10	170	8	95.3		NP-237
										PB-214
										PB-212
5	92.78*	83	318	1.14	185.02	182	11	82.4	3.27E+00	
5	94.04	104	391	1.55	187.54	182	11	76.5		
0	186.12*	132	332	1.21	371.93	368	10	57.1		
0	209.27	48	217	1.13	418.28	415	7	106.8		AC-228
7	238.63*	887	180	1.10	477.07	472	24	8.6	1.51E+00	PB-212
7	241.48	237	305	2.27	482.77	472	24	43.6		PB-214
0	270.26*	110	175	1.15	540.40	537	9	48.1		RA-223
										AC-228
0	295.18*	263	198	1.23	590.30	584	12	25.0		PB-214
0	328.83	46	170	1.30	657.67	652	9	107.5		
0	338.17*	202	196	1.25	676.37	671	11	30.6		AC-228
0	351.81*	374	190	1.16	703.69	698	11	17.9		PB-214
0	463.07	66	135	0.78	926.46	920	11	72.1		AC-228
0	510.71*	104	198	2.35	1021.84	1014	19	74.5		TL-208
0	583.12*	274	103	1.37	1166.80	1160	12	19.3		TL-208
0	609.34*	295	106	1.61	1219.30	1214	13	19.2		BI-214
0	661.53	530	88	1.45	1323.79	1317	12	11.2		CS-137
0	726.70	78	49	1.83	1454.27	1449	12	42.2		BI-212
0	794.71	46	56	0.83	1590.43	1585	13	72.5		AC-228
0	860.08	55	39	1.09	1721.29	1715	12	52.8		TL-208
0	910.92*	222	45	1.36	1823.06	1817	14	18.9		AC-228
2	963.98	42	16	2.06	1929.29	1921	27	57.1	1.11E+00	AC-228
2	968.68	118	24	2.06	1938.70	1921	27	24.9		AC-228
0	1120.71*	86	47	1.65	2243.03	2234	18	44.6		BI-214
0	1460.27*	301	15	2.02	2922.70	2915	16	13.4		K-40
0	1630.63	17	12	1.49	3263.67	3257	13	98.6		
0	1763.70*	64	0	2.00	3530.01	3524	11	26.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	92.78	83	318	1.14	185.02	182	11	7.68E-03	82.4	2.42E+00	T
5	94.04	104	391	1.55	187.54	182	11	9.64E-03	76.5	2.47E+00	
0	186.12	132	332	1.21	371.93	368	10	1.22E-02	57.1	3.03E+00	
0	328.83	46	170	1.30	657.67	652	9	4.24E-03	****	2.10E+00	
0	1630.63	17	12	1.49	3263.67	3257	13	1.59E-03	98.6	6.51E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.559E+00	3.855E-01	1.886E-01	1.287E-02	13.570
CS-137	3.300E-01	5.118E-02	2.908E-02	3.125E-03	11.348
TL-208	1.563E-01	3.405E-02	2.375E-02	2.384E-03	6.580
BI-212	3.739E-01	1.618E-01	1.758E-01	1.691E-02	2.127
PB-212	4.941E-01	5.702E-02	3.741E-02	2.887E-03	13.205
BI-214	3.184E-01	6.932E-02	4.656E-02	4.743E-03	6.838
PB-214	3.202E-01	6.254E-02	4.994E-02	3.941E-03	6.410
RA-223	2.104E-01	1.030E-01	1.240E-01	1.141E-02	1.697
AC-228	5.676E-01	1.119E-01	7.932E-02	4.383E-03	7.157
NP-237	1.794E-01	1.729E-01	2.186E-01	3.162E-02	0.821
AM-243	8.505E-02	3.877E-02	4.451E-02	9.337E-03	1.911

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.871E-03		1.321E-02	2.099E-02	1.370E-03	-0.089
RH-101	1.518E-03		1.438E-02	2.429E-02	3.768E-03	0.062
SB-125	2.571E-03		3.741E-02	6.516E-02	5.344E-03	0.039
EU-155	4.792E-02		5.112E-02	9.028E-02	8.963E-03	0.531
PO-209	-7.113E-01		2.404E+00	4.186E+00	7.491E-01	-0.170
BI-211	-2.610E-01		3.973E-01	6.660E-01	4.852E-02	-0.392
PA-233	-6.027E-03		2.513E-02	4.353E-02	3.655E-03	-0.138
PA-234M	-4.500E-01		1.479E+00	2.598E+00	1.494E-01	-0.173
TH-234	4.064E-01	+	3.383E-01	5.306E-01	6.190E-02	0.766
U-235	2.888E-02		8.991E-02	1.527E-01	1.066E-02	0.189
NP-236	2.162E-03		3.266E-02	5.027E-02	5.523E-03	0.043
NP-239	1.194E-02		8.475E-02	1.413E-01	1.906E-02	0.084
AM-241	-1.622E-02		8.504E-02	1.477E-01	1.174E-02	-0.110
CM-243	-1.063E-02		4.659E-02	7.889E-02	8.990E-03	-0.135
AM-246	3.199E-02		4.199E-02	8.153E-02	1.003E-02	0.392
CF-249	8.860E-03		1.634E-02	2.929E-02	2.825E-03	0.302

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:30:43

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784218_GAMMA2_400MLSAN_15919.CNF

---- Sample Information ----

Sample ID	: OH207-7842-18		
Sample Title	: SB-CZ-SS-2017-ST		
Sample Quantity	: 4.31600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15919		

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

Collection Date	: 20-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 17:01:42
Decay time	: 31 17:01:42.72	% 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	: 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.82	255	446	0.99	149.22	145	14	28.8	6.62E-01	AM-243
										PB-214
										PB-212
2	77.06	395	412	1.03	153.69	145	14	19.4		PB-214
										PB-212
0	87.24	180	437	1.17	173.94	171	7	41.1		NP-237
										PB-214
										PB-212
0	185.99*	135	510	1.28	370.59	365	11	67.6	0.00E+00	
0	209.83	127	426	1.32	418.08	413	10	63.5		AC-228
2	238.80*	1044	291	1.12	475.78	471	17	8.3	1.36E+00	PB-212
2	241.08*	126	288	1.34	480.32	471	17	67.7		
2	242.23*	107	276	1.32	482.62	471	17	63.0		PB-214
0	269.81	66	294	1.18	537.55	535	9	96.2		RA-223
										AC-228
0	295.48	313	281	1.23	588.69	584	11	23.7		PB-214
0	300.08	70	183	1.39	597.86	594	8	70.8		PB-212
0	328.11	78	151	1.18	653.70	650	7	56.9		
0	338.52	241	191	1.37	674.44	670	10	25.1		AC-228
0	352.21*	487	282	1.18	701.73	696	12	16.8		PB-214
0	462.70	86	158	0.97	921.94	917	11	60.3		AC-228
0	511.15*	102	179	2.29	1018.52	1011	15	68.3		TL-208
0	583.48*	352	116	1.35	1162.73	1157	14	17.1		TL-208
0	609.52*	381	95	1.32	1214.67	1210	13	15.0		BI-214
0	661.74	484	72	1.52	1318.81	1313	11	11.3		CS-137
0	727.30	102	70	1.26	1449.58	1443	14	40.0		BI-212
0	794.96	47	61	1.06	1584.59	1579	12	71.8		AC-228
0	860.69	77	58	3.19	1715.75	1706	17	51.2		TL-208
0	911.15*	239	50	1.43	1816.47	1809	13	18.2		AC-228
2	964.65	59	33	2.12	1923.27	1915	28	54.7	1.76E+00	AC-228
2	968.69*	152	42	2.09	1931.34	1915	28	24.6		AC-228
0	1120.33*	87	46	1.54	2234.15	2226	17	42.6		BI-214
0	1241.54	69	90	4.28	2476.30	2462	35	92.3		
0	1376.70*	23	24	1.20	2746.42	2740	14	101.4		BI-214
0	1459.77*	447	10	1.89	2912.50	2906	13	10.3		K-40
0	1728.73	31	18	6.26	3450.52	3438	24	79.7		BI-214
0	1762.82*	44	23	1.52	3518.73	3512	13	56.0		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	185.99	135	510	1.28	370.59	365	11	1.25E-02	67.6	3.21E+00	
2	241.08	126	288	1.34	480.32	471	17	1.17E-02	67.7	2.78E+00	
0	328.11	78	151	1.18	653.70	650	7	7.23E-03	56.9	2.20E+00	
0	1241.54	69	90	4.28	2476.30	2462	35	6.35E-03	92.3	7.60E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.600E+00	4.371E-01	2.050E-01	1.319E-02	17.568
CS-137	2.718E-01	4.364E-02	2.589E-02	2.946E-03	10.498
TL-208	1.791E-01	3.578E-02	2.434E-02	2.534E-03	7.359
BI-212	4.442E-01	1.844E-01	1.745E-01	1.908E-02	2.546
PB-212	4.992E-01	5.646E-02	3.795E-02	2.900E-03	13.153
BI-214	3.682E-01	6.762E-02	4.673E-02	4.976E-03	7.880
PB-214	3.617E-01	6.677E-02	4.560E-02	3.497E-03	7.932
RA-223	1.089E-01	1.052E-01	1.183E-01	1.053E-02	0.920
AC-228	5.658E-01	1.142E-01	7.080E-02	6.152E-03	7.991
NP-237	3.399E-01	1.461E-01	1.928E-01	2.423E-02	1.763
AM-243	1.111E-01	3.894E-02	4.333E-02	8.638E-03	2.564

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-9.714E-03		1.296E-02	2.189E-02	1.209E-03	-0.444
RH-101	2.729E-03		1.447E-02	2.366E-02	3.694E-03	0.115
SB-125	3.090E-02		3.765E-02	6.725E-02	5.513E-03	0.460
EU-155	1.720E-02		5.002E-02	8.498E-02	7.956E-03	0.202
PO-209	-1.261E+00		2.632E+00	4.417E+00	8.468E-01	-0.286
BI-211	-4.642E-01		4.164E-01	6.597E-01	6.458E-02	-0.704
PA-233	3.495E-02		2.653E-02	4.820E-02	3.883E-03	0.725
PA-234M	6.284E-01		1.542E+00	2.839E+00	2.216E-01	0.221
TH-234	3.074E-01		2.800E-01	4.904E-01	4.905E-02	0.627
U-235	-8.747E-04		9.022E-02	1.473E-01	1.075E-02	-0.006
NP-236	1.768E-02		2.897E-02	4.910E-02	4.881E-03	0.360
NP-239	6.244E-03		8.749E-02	1.530E-01	2.065E-02	0.041
AM-241	-2.131E-02		7.220E-02	1.228E-01	8.053E-03	-0.174
CM-243	2.000E-02		4.548E-02	7.758E-02	8.387E-03	0.258
AM-246	-1.865E-02		4.993E-02	8.372E-02	1.071E-02	-0.223
CF-249	6.900E-03		1.563E-02	2.746E-02	2.631E-03	0.251

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:31:07

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784219_GAMMA3_400MLSAN_15920.CNF

---- Sample Information ----

Sample ID	: OH207-7842-19		
Sample Title	: SB-CZ-SS-2018-ST		
Sample Quantity	: 3.37400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15920		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 17:03:10
Decay time	: 30 17:03:10.35	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.82

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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 Mask Date: 10/17/2007

Sample ID : OH207-7842-19 Acquisition date : 20-SEP-2007 17:03:10

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.88	508	683	1.75	166.28	159	19	24.0	2.40E+00	AM-243
										PB-214
										PB-212
3	77.14*	662	533	1.30	171.29	159	19	15.6		PB-214
										PB-212
4	87.31	313	361	1.43	193.83	190	24	22.6	1.85E+00	NP-237
										PB-214
										PB-212
4	89.87	157	395	1.26	199.52	190	24	48.2		
4	92.85*	300	512	1.72	206.12	190	24	35.4		
0	185.75*	229	546	1.19	412.03	404	16	49.0		
0	209.59	147	329	1.58	464.89	460	12	52.0		AC-228
2	238.60*	1111	193	1.38	529.18	520	23	7.8	2.13E+00	PB-212
2	241.45	236	218	1.85	535.50	520	23	38.8		PB-214
0	270.29	144	296	1.87	599.42	593	15	55.1		RA-223
										AC-228
1	295.35	301	191	1.74	654.96	646	25	21.6	1.12E+00	PB-214
1	300.03	124	133	1.74	665.33	646	25	41.6		PB-212
0	337.98	217	248	1.08	749.46	742	14	33.7		AC-228
0	352.02*	409	284	1.41	780.57	772	16	21.1		PB-214
0	462.52	73	130	2.30	1025.49	1021	13	68.0		AC-228
0	510.37*	166	132	2.06	1131.54	1123	16	39.3		TL-208
0	583.01*	364	75	1.76	1292.55	1286	12	14.6		TL-208
0	609.12*	281	114	1.87	1350.41	1344	18	21.8		BI-214
0	661.35	604	138	1.59	1466.18	1457	19	12.4		CS-137
0	726.89*	62	68	1.84	1611.43	1606	13	62.2		BI-212
0	910.72*	224	45	1.81	2018.86	2013	12	18.4		AC-228
0	968.44*	102	58	1.81	2146.77	2142	14	38.0		AC-228
0	1120.33*	81	27	1.17	2483.38	2476	20	40.5		BI-214
0	1460.15*	222	18	1.99	3236.43	3226	19	17.1		K-40
1	1762.57*	19	8	2.41	3906.55	3902	16	96.8	3.94E+00	
1	1764.57*	46	9	2.36	3911.00	3902	16	47.1		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	89.87	157	395	1.26	199.52	190	24	1.45E-02	48.2	3.55E+00	
4	92.85	300	512	1.72	206.12	190	24	2.78E-02	35.4	3.55E+00	T
0	185.75	229	546	1.19	412.03	404	16	2.12E-02	49.0	2.82E+00	
1	1762.57	19	8	2.41	3906.55	3902	16	1.79E-03	96.8	4.91E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.763E+00	5.001E-01	2.960E-01	1.741E-02	9.336
CS-137	5.018E-01	7.187E-02	3.744E-02	2.696E-03	13.402
TL-208	2.730E-01	4.541E-02	3.673E-02	2.924E-03	7.432
BI-212	4.033E-01	2.524E-01	2.622E-01	1.903E-02	1.538
PB-212	7.919E-01	8.552E-02	5.333E-02	3.986E-03	14.849
BI-214	4.008E-01	9.266E-02	7.107E-02	5.415E-03	5.639
PB-214	4.503E-01	1.016E-01	7.145E-02	5.684E-03	6.302
RA-223	3.527E-01	1.969E-01	1.710E-01	1.514E-02	2.062
AC-228	8.008E-01	1.578E-01	1.360E-01	9.560E-03	5.890
NP-237	5.275E-01	1.328E-01	1.980E-01	2.207E-02	2.664
AM-243	1.581E-01	4.869E-02	3.417E-02	6.572E-03	4.628

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.252E-02		2.137E-02	3.206E-02	1.700E-03	0.390
RH-101	-1.762E-03		2.047E-02	3.439E-02	5.308E-03	-0.051
SB-125	1.187E-02		5.629E-02	9.964E-02	8.237E-03	0.119
EU-155	5.878E-02		5.840E-02	1.037E-01	9.751E-03	0.567
PO-209	-1.075E+00		3.994E+00	7.018E+00	1.293E+00	-0.153
BI-211	-3.921E-01		5.935E-01	9.648E-01	6.948E-02	-0.406
PA-233	-6.571E-03		4.138E-02	6.912E-02	5.641E-03	-0.095
PA-234M	1.305E+00		2.418E+00	4.641E+00	3.169E-01	0.281
TH-234	1.158E+00	+	4.227E-01	5.903E-01	5.285E-02	1.962
U-235	-5.586E-02		1.209E-01	2.022E-01	1.501E-02	-0.276
NP-236	6.568E-02		3.795E-02	5.827E-02	5.560E-03	1.127
NP-239	-4.586E-02		1.316E-01	2.200E-01	2.943E-02	-0.208
AM-241	-1.207E-01		4.309E-02	6.372E-02	4.032E-03	-1.894
CM-243	-2.223E-02		5.246E-02	8.955E-02	9.650E-03	-0.248
AM-246	-2.596E-02		6.067E-02	1.049E-01	1.324E-02	-0.247
CF-249	-4.599E-04		2.437E-02	4.270E-02	4.253E-03	-0.011

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 16-OCT-2007 20:31:34

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784220_GAMMA1_400MLSAN_15921.CNF

---- Sample Information ----

Sample ID	: OH207-7842-20
Sample Title	: SB-CZ-SS-2019-ST
Sample Quantity	: 4.09500E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15921

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 20:45:05
Decay time	: 30 20:45:05.84	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.01

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	74.98	300	451	1.38	149.38	145	13	27.3	1.09E+00	AM-243
										PB-214
										PB-212
5	77.28*	385	343	1.00	153.98	145	13	18.9		PB-214
										PB-212
0	87.18	120	416	1.42	173.81	171	7	58.9		NP-237
										PB-214
										PB-212
4	92.85*	173	314	1.34	185.15	182	10	39.2	2.42E+00	
4	94.32	122	376	1.41	188.10	182	10	64.9		
0	130.13	99	480	1.24	259.80	254	10	85.6		AC-228
0	185.98*	143	401	1.41	371.64	367	9	55.3		
0	209.58	142	398	1.33	418.90	414	10	55.3		AC-228
2	238.71*	1194	229	1.18	477.23	471	18	7.3	7.29E-01	PB-212
2	240.86	158	216	1.41	481.53	471	18	55.5		
2	242.11	140	199	1.41	484.03	471	18	45.6		PB-214
0	270.56*	102	389	1.15	541.00	535	13	82.4		RA-223
										AC-228
0	295.35*	264	225	1.32	590.63	584	12	26.1		PB-214
0	299.80	93	206	0.81	599.55	596	9	59.3		PB-212
0	327.78	86	182	1.27	655.56	651	10	62.0		
0	338.41*	260	237	1.17	676.86	670	12	26.9		AC-228
0	351.77*	452	260	1.26	703.61	697	13	17.6		PB-214
0	463.42	84	202	0.82	927.14	919	15	77.2		AC-228
0	511.07*	199	144	1.86	1022.55	1016	15	34.2		TL-208
0	583.20*	426	124	1.41	1166.96	1159	15	15.1		TL-208
0	609.50*	317	161	1.71	1219.62	1212	15	20.1		BI-214
0	661.57	660	141	1.52	1323.87	1317	16	11.2		CS-137
0	727.01	114	52	1.15	1454.88	1448	14	32.9		BI-212
0	795.44	38	68	1.82	1591.89	1584	11	91.5		AC-228
0	861.55	75	68	2.04	1724.24	1717	19	58.9		TL-208
0	911.12*	304	52	1.66	1823.46	1814	17	16.0		AC-228
1	964.51	56	47	1.87	1930.34	1925	21	52.2	9.62E-01	AC-228
1	968.67	182	39	1.87	1938.67	1925	21	20.7		AC-228
0	1120.35*	61	44	2.45	2242.32	2236	14	54.8		BI-214
0	1377.74	42	8	1.94	2757.51	2752	11	40.7		BI-214
0	1460.55*	359	29	1.77	2923.26	2916	17	13.0		K-40
0	1763.90*	76	0	1.02	3530.41	3522	16	24.3		BI-214

Interference Report

No interference correction performed

10-26-07

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	92.85	173	314	1.34	185.15	182	10	1.60E-02	39.2	2.43E+00	T
4	94.32	122	376	1.41	188.10	182	10	1.13E-02	64.9	2.48E+00	
0	185.98	143	401	1.41	371.64	367	9	1.32E-02	55.3	3.03E+00	
2	240.86	158	216	1.41	481.53	471	18	1.47E-02	55.5	2.64E+00	
0	327.78	86	182	1.27	655.56	651	10	8.00E-03	62.0	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.908E+00	4.266E-01	1.883E-01	1.285E-02	15.447
CS-137	3.918E-01	6.073E-02	2.727E-02	2.930E-03	14.368
TL-208	2.314E-01	4.195E-02	2.329E-02	2.337E-03	9.936
BI-212	5.194E-01	1.780E-01	1.729E-01	1.664E-02	3.004
PB-212	6.340E-01	6.737E-02	4.113E-02	3.174E-03	15.412
BI-214	3.265E-01	7.371E-02	5.090E-02	5.185E-03	6.414
PB-214	3.692E-01	7.129E-02	4.969E-02	3.921E-03	7.431
RA-223	1.868E-01	1.550E-01	1.200E-01	1.104E-02	1.557
AC-228	7.403E-01	1.250E-01	7.652E-02	4.229E-03	9.674
NP-237	2.706E-01	1.641E-01	2.315E-01	3.347E-02	1.169
AM-243	1.608E-01	5.532E-02	4.684E-02	9.827E-03	3.433

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-8.453E-03		1.396E-02	2.199E-02	1.435E-03	-0.384
RH-101	-1.021E-02		1.467E-02	2.372E-02	3.678E-03	-0.430
SB-125	2.934E-03		3.991E-02	6.910E-02	5.667E-03	0.042
EU-155	5.439E-02		5.182E-02	9.142E-02	9.076E-03	0.595
PO-209	1.120E+00		2.786E+00	5.100E+00	9.129E-01	0.220
BI-211	-2.431E-01		3.952E-01	6.648E-01	4.843E-02	-0.366
PA-233	-2.265E-03		2.545E-02	4.434E-02	3.723E-03	-0.051
PA-234M	-1.857E-01		1.527E+00	2.714E+00	1.560E-01	-0.068
TH-234	8.086E-01 ✓	+	3.304E-01	5.592E-01 ✓	6.524E-02	1.446
U-235	2.932E-02		9.143E-02	1.549E-01	1.081E-02	0.189
NP-236	2.285E-02		3.322E-02	5.252E-02	5.769E-03	0.435
NP-239	4.242E-02		9.598E-02	1.608E-01	2.169E-02	0.264
AM-241	4.631E-03		8.856E-02	1.549E-01	1.231E-02	0.030
CM-243	-4.552E-02		4.758E-02	7.762E-02	8.846E-03	-0.586
AM-246	1.516E-02		4.272E-02	7.900E-02	9.723E-03	0.192
CF-249	6.288E-03		1.736E-02	3.058E-02	2.950E-03	0.206

10-25-07

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:			
S7842 7845			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7843-PB		9/10/2007 9:00:00 AM	
SCAQC	7843-LD1 OH207-7843-01	SB-CZ-SS-2020-ST	8/21/2007	
SCAQC	7843-LC1		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7843-01 ✓	SB-CZ-SS-2020-ST	8/21/2007	
OH207	7843-02 ✓	SB-CZ-SS-2021-ST	8/21/2007	
OH207	7843-03 ✓	SB-CZ-SS-2022-ST	8/21/2007	
OH207	7843-04 ✓	SB-CZ-SS-2023-ST	8/21/2007	
OH207	7843-05 ✓	SB-CZ-SS-2024-ST	8/21/2007	

Radiochemistry Reviewer 10/17/2007 Date

QA Reviewer 10.24.07 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
9-20-07 1701 G2 WL	180	OH207	7842	18	—	8-20-07	SB-CZ-SS-2017-ST	soil	431.6 g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ☐
9-20-07 1703 WL G3				19	—	8-21-07	SB-CZ-SS-2018-ST		337.4 g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ☐
9-20-07 2045 G1 WL				20	—	8-21-07	SB-CZ-SS-2019-ST		409.5 g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ☐
9-20-07 1119 G2 WL	60	SCAQC	7892	PB	—	9-19-07 0845	Prep Blk	Liquid	1L	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ Ra 224 planchet
9-20-07 1223 G2	60	SCAQC	7892	LC1	—	Now	Ctrl Samp	Liquid	1L	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ Ra 224 planchet
9-20-07 1247 G1 pm	60	SCAQC	7892	LD1	—	Now	Dup-7892-LC1	Liquid	1L	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ Ra 224 planchet
9-19-07 1709 G1 WL	500	VWU07	7892	01	—	9-18-07 0900	07-06	Liquid	5L	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☐ Ra 224 planchet
9-21-07 1010 G2 WL	180	SCAQC	7843	PB1	—	9-10-07 09:00	Prep BLK	8 WL Liquid	400 g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ☐
9-21-07 1102 G3	60			LC1	—		CTRL SAMP S-142	soil	640 g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ☐
9-21-07 1008 WL G1	180			LD1	—	8-21-07	DUP-7843-01	soil	403.7 g	400 mL Liquid ☐ 1 Liter Liquid ☐ 10 mL Sand ☐ 20 mL Sand ☐ 40 mL Sand ☐ 200 mL Sand ☐ 400 mL Sand ☑ ☐

Gamma1 = G1
Gamma2 = G2

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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
9-20-07 2046 G2	180	OH207	7843	01	—	8-21-07	SB-CZ-SS-2020-ST	Soil	403.7 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-20-07 2048 G3	180			02	—		SB-CZ-SS-2021-ST		490.5 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1218 G3	180			03	—		SB-CZ-SS-2022-ST		478.1 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1316 G2	180			04	—		SB-CZ-SS-2023-ST		425.2 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1520 G3	180			05	—		SB-CZ-SS-2024-ST		361.0 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1759 G1	60	SCAQC	7802	PB	—	8-27-07 13:00	Prep BLK	Liquid	256.0 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 200mL Can ☑ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1800 G2				LC1	—		CTRL SAMP S-181	Soil	320 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ ☑ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1910 G2				LD1	—	08-16-07 10:05	D Dup-7802-01		317.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ ☑ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 2021 G1		KAF07 ~~KHA07~~ 9-21-07	7802	01	—		KI-SS-C1-SU3-1-1		317.0 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ ☑ 10 mL Sand ☐ 200 mL Sand ☐
9-21-07 1911 G1		KAF07 ~~KHA07~~ 9-21-07	7802	02B 9-21-07		08-16-07 10:10	KI-SS-C1-SU3-1-3		292.2 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ ☑ 10 mL Sand ☐ 200 mL Sand ☐

KAF07-7872: Analysis seq. file: KirtLand AFI

Gamma1 = G1
Gamma2 = G2

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SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:24:40

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7843PB1_GAMMA2_400MLSA_15925.CNF

---- Sample Information ----

Sample ID	: SCAQC-7843-PB1 ✓		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G ✓		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand ✓		
Sample Seq No.	: 15925		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 21-SEP-2007 10:10:00
Decay time	: 11 01:10:00.06	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1 ✓
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	92.63*	96	235	1.23	184.68	178	13	74.9		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	92.63	96	235	1.23	184.68	178	13	8.85E-03	74.9	2.70E+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	-3.913E-02		1.495E-01	3.006E-01	1.935E-02	-0.130
CO-60	-3.703E-03		1.049E-02	1.649E-02	9.591E-04	-0.225
RH-101	-8.916E-03		1.111E-02	1.720E-02	2.685E-03	-0.518
SB-125	1.602E-02		2.713E-02	4.968E-02	4.073E-03	0.322
CS-137	2.143E-03		9.917E-03	1.860E-02	2.116E-03	0.115
EU-155	-4.544E-03		3.235E-02	5.488E-02	5.139E-03	-0.083
TL-208	3.640E-03		1.184E-02	2.224E-02	2.316E-03	0.164
PO-209	5.783E-02		2.002E+00	3.658E+00	7.013E-01	0.016
BI-211	-2.154E-01		2.910E-01	4.793E-01	4.692E-02	-0.449
BI-212	4.403E-02		7.437E-02	1.444E-01	1.579E-02	0.305
PB-212	-8.571E-03		1.826E-02	3.110E-02	2.377E-03	-0.276
BI-214	2.101E-03		2.293E-02	4.283E-02	4.561E-03	0.049
PB-214	-2.068E-02		2.280E-02	3.706E-02	2.842E-03	-0.558
RA-223	-1.290E-02		5.055E-02	8.786E-02	7.816E-03	-0.147
AC-228	-3.168E-03		4.198E-02	8.159E-02	7.089E-03	-0.039
PA-233	-1.679E-02		1.839E-02	3.017E-02	2.430E-03	-0.556
PA-234M	-8.882E-01		1.146E+00	1.885E+00	1.472E-01	-0.471
TH-234	4.099E-01	+	3.099E-01	3.458E-01	3.459E-02	1.185
U-235	-4.366E-03		6.136E-02	9.953E-02	7.264E-03	-0.044
NP-236	7.591E-03		1.969E-02	3.329E-02	3.309E-03	0.228
NP-237	2.777E-04		7.175E-02	1.179E-01	1.482E-02	0.002
NP-239	1.329E-02		6.085E-02	1.094E-01	1.476E-02	0.122
AM-241	2.172E-03		4.821E-02	8.469E-02	5.555E-03	0.026
AM-243	6.063E-03		1.621E-02	2.854E-02	5.689E-03	0.212
CM-243	-1.268E-03		2.959E-02	5.057E-02	5.467E-03	-0.025
AM-246	-3.609E-03		3.160E-02	5.705E-02	7.296E-03	-0.063
CF-249	8.603E-03		1.136E-02	2.109E-02	2.021E-03	0.408

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:24:18

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7843LC1_GAMMA3_400MLSA_15926.CNF

---- Sample Information ----

Sample ID : SCAQC-7843-LC1 ✓
Sample Title : CTRL SAMP S-142
Sample Quantity : 6.40000E+02 G ✓
Sample Type : SOIL
Sample Geometry : 400 ml sand ✓
Sample Seq No. : 15926

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

Collection Date : 10-SEP-2007 09:00:00 Acquisition date : 21-SEP-2007 11:02:02
Decay time : 11 02:02:02.22 % dead time : 0.2%
Elapsed live time: 0 01:00:00.00 ✓ Elapsed real time: 0 01:00:05.70

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1 ✓
Nuclide Lib File : SYS$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 Mac Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	51.50	8438	15908	3.27	114.46	102	37	7.7	3.31E+02	
10	59.48	76208	4961	1.57	132.16	102	37	0.8		AM-241
0	77.18*	180	2887	1.21	171.39	168	6	95.5		PB-212
0	88.02	15668	5393	1.33	195.41	189	14	2.6		PB-212
0	122.01	2125	3315	1.43	270.76	266	11	11.4		
0	136.52	364	2450	1.29	302.92	299	9	50.1		
0	238.11*	408	2955	1.62	528.10	523	12	54.1		PB-212
0	351.87*	260	1170	1.52	780.25	777	8	47.4		
0	661.22	22985	1280	1.72	1465.89	1458	17	1.5		CS-137
0	1172.50	17886	677	2.05	2598.98	2588	23	1.7		CO-60
0	1331.69	16278	136	2.09	2951.76	2940	25	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	8438	15908	3.27	114.46	102	37	2.34E+00	7.7	2.99E+00	
0	122.01	2125	3315	1.43	270.76	266	11	5.90E-01	11.4	3.39E+00	
0	136.52	364	2450	1.29	302.92	299	9	1.01E-01	50.1	3.26E+00	
0	351.87	260	1170	1.52	780.25	777	8	7.22E-02	47.4	1.79E+00	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/G)	Act error	MDA (pCi/G)	MDA error	Act/MDA
CO-60	3.208E+01	2.025E+00	1.007E-01	5.339E-03	318.583
CS-137	3.018E+01	2.220E+00	1.874E-01	1.349E-02	161.047
PB-212	4.605E-01	2.516E-01	2.665E-01	1.992E-02	1.728
AM-241	7.677E+01	4.898E+00	3.306E-01	2.092E-02	232.203

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	5.503E-01		4.813E-01	9.228E-01	5.429E-02	0.596
RH-101	9.784E-02		8.724E-02	1.456E-01	2.247E-02	0.672
SB-125	2.912E-01		3.051E-01	5.229E-01	4.323E-02	0.557
EU-155	-2.169E-01		2.266E-01	3.795E-01	3.569E-02	-0.571
TL-208	1.200E-01		1.108E-01	1.892E-01	1.506E-02	0.634
PO-209	1.903E+01		3.056E+01	5.211E+01	9.601E+00	0.365
BI-211	8.490E-01		3.803E+00	6.277E+00	4.520E-01	0.135
BI-212	-1.298E-01		8.888E-01	1.468E+00	1.066E-01	-0.088
BI-214	6.343E-02		2.040E-01	3.437E-01	2.619E-02	0.185
PB-214	4.529E-01	+	2.177E-01	3.549E-01	2.824E-02	1.276
RA-223	9.885E-02		5.100E-01	8.442E-01	7.473E-02	0.117
AC-228	7.507E-01		5.808E-01	1.003E+00	7.053E-02	0.748
PA-233	5.273E-02		1.914E-01	3.155E-01	2.575E-02	0.167
PA-234M	-1.359E+00		1.701E+01	2.870E+01	1.960E+00	-0.047
TH-234	3.494E-01		1.060E+00	1.520E+00	1.361E-01	0.230
U-235	-1.376E-02		4.791E-01	8.083E-01	5.999E-02	-0.017
NP-236	3.955E-02		1.314E-01	2.128E-01	2.031E-02	0.186
NP-237	3.231E+01		3.695E+00	1.597E+00	1.780E-01	20.224
NP-239	-2.292E-01		6.419E-01	1.059E+00	1.417E-01	-0.216
AM-243	-2.944E-02		1.075E-01	1.513E-01	2.910E-02	-0.195
CM-243	2.198E-02		2.068E-01	3.527E-01	3.800E-02	0.062
AM-246	-1.012E-01		5.197E-01	8.702E-01	1.098E-01	-0.116
CF-249	8.765E-02		1.253E-01	2.149E-01	2.141E-02	0.408

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:25:08

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784301_GAMMA2_400MLSAN_15922.CNF

---- Sample Information ----

Sample ID	: OH207-7843-01		
Sample Title	: SB-CZ-SS-2020-ST		
Sample Quantity	: 4.03700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15922		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 20:46:55
Decay time	: 30 20:46:55.30	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.67	301	490	1.19	148.93	142	18	27.2	2.80E+00	AM-243
										PB-214
										PB-212
2	77.07	492	479	1.20	153.70	142	18	17.8		PB-214
										PB-212
3	87.00	132	447	1.10	173.47	164	29	57.1	3.31E+00	NP-237
3	87.51	133	381	1.03	174.49	164	29	51.2		PB-214
										PB-212
3	89.93	172	363	1.08	179.31	164	29	38.3		
3	92.95*	230	452	1.36	185.33	164	29	37.9		
0	128.99	86	410	1.48	257.08	254	7	81.1		AC-228
0	185.97*	261	501	1.58	370.56	365	11	36.5		
1	208.90	90	245	1.30	416.24	413	9	61.1	8.10E+00	AC-228
1	209.67	116	333	1.30	417.76	413	9	58.1		
6	238.79*	1368	324	1.16	475.75	470	16	7.0	3.04E+00	PB-212
6	241.70*	270	328	1.89	481.56	470	16	31.4		PB-214
1	270.01	102	206	1.38	537.95	534	10	54.8	1.72E+00	RA-223
										AC-228
1	271.14	89	175	1.25	540.20	534	10	58.3		
0	295.46	339	260	1.32	588.66	582	11	21.4		PB-214
0	328.52	127	286	1.52	654.53	648	14	59.5		
0	338.74	266	306	1.14	674.88	670	12	29.1		AC-228
0	352.14*	525	244	1.19	701.60	696	12	14.9		PB-214
0	409.82	89	182	1.60	816.54	809	13	65.6		AC-228
0	463.04	91	147	1.23	922.62	918	11	55.8		AC-228
0	511.20*	140	197	1.68	1018.62	1012	16	53.4		TL-208
0	583.39*	470	109	1.33	1162.55	1155	15	13.6		TL-208
0	609.43*	404	90	1.44	1214.49	1207	13	14.2		BI-214
0	662.42	213	130	1.98	1320.17	1313	18	28.6		CS-137
0	727.37	125	59	1.32	1449.72	1444	12	30.6		BI-212
0	795.27	84	59	1.59	1585.19	1580	13	43.7		AC-228
0	860.33	48	64	1.31	1715.02	1709	11	69.9		TL-208
0	911.17*	340	54	1.93	1816.50	1811	12	14.3		AC-228
1	964.84	105	29	1.93	1923.65	1915	25	28.4	2.82E+00	AC-228
1	968.92*	182	26	1.93	1931.79	1915	25	19.8		AC-228
0	1120.01*	109	60	2.47	2233.50	2225	16	37.7		BI-214
0	1237.93	64	29	1.66	2469.07	2464	14	43.5		BI-214
0	1377.45*	23	18	1.84	2747.91	2738	14	90.8		BI-214
0	1459.82*	487	15	2.21	2912.61	2906	15	10.0		K-40
0	1763.05*	65	16	1.83	3519.20	3510	15	37.7		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	89.93	172	363	1.08	179.31	164	29	1.59E-02	38.3	2.61E+00	
3	92.95	230	452	1.36	185.33	164	29	2.13E-02	37.9	2.71E+00	T
0	185.97	261	501	1.58	370.56	365	11	2.42E-02	36.5	3.21E+00	
1	209.67	116	333	1.30	417.76	413	9	1.07E-02	58.1	3.03E+00	
1	271.14	89	175	1.25	540.20	534	10	8.21E-03	58.3	2.56E+00	
0	328.52	127	286	1.52	654.53	648	14	1.17E-02	59.5	2.20E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.200E+00	5.011E-01	1.713E-01	1.103E-02	24.517
CS-137	1.279E-01	3.939E-02	2.579E-02	2.934E-03	4.960
TL-208	2.554E-01	4.368E-02	2.506E-02	2.609E-03	10.192
BI-212	5.800E-01	1.886E-01	1.942E-01	2.123E-02	2.987
PB-212	6.990E-01	7.226E-02	4.249E-02	3.247E-03	16.450
BI-214	4.177E-01	7.402E-02	4.974E-02	5.296E-03	8.399
PB-214	4.168E-01	6.996E-02	5.005E-02	3.837E-03	8.328
RA-223	1.803E-01	1.001E-01	1.341E-01	1.193E-02	1.345
AC-228	8.597E-01	1.439E-01	9.117E-02	7.922E-03	9.429
NP-237	2.667E-01	1.559E-01	1.869E-01	2.349E-02	1.427
AM-243	1.406E-01	4.747E-02	4.643E-02	9.255E-03	3.028

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	8.542E-03		1.358E-02	2.212E-02	1.287E-03	0.386
RH-101	2.978E-03		1.593E-02	2.603E-02	4.063E-03	0.114
SB-125	9.945E-03		3.953E-02	6.858E-02	5.622E-03	0.145
EU-155	5.679E-02		5.470E-02	9.471E-02	8.868E-03	0.600
PO-209	-7.365E-01		2.865E+00	4.926E+00	9.444E-01	-0.150
BI-211	-3.951E-01		4.403E-01	7.135E-01	6.984E-02	-0.554
PA-233	1.349E-02		2.762E-02	4.874E-02	3.926E-03	0.277
PA-234M	1.348E+00		1.753E+00	3.297E+00	2.574E-01	0.409
TH-234	9.791E-01	+	3.839E-01	5.400E-01	5.401E-02	1.813
U-235	-8.694E-03		9.763E-02	1.589E-01	1.160E-02	-0.055
NP-236	2.756E-02		3.521E-02	5.431E-02	5.399E-03	0.508
NP-239	-6.961E-03		9.642E-02	1.676E-01	2.261E-02	-0.042
AM-241	-3.212E-02		8.374E-02	1.417E-01	9.295E-03	-0.227
CM-243	3.902E-02		4.946E-02	8.514E-02	9.205E-03	0.458
AM-246	2.331E-02		5.110E-02	9.345E-02	1.195E-02	0.249
CF-249	7.345E-03		1.712E-02	3.001E-02	2.875E-03	0.245

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:30:15

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7843LD1_GAMMA1_400MLSA_15924.CNF

---- Sample Information ----

Sample ID	: SCAQC-7843-LD1		
Sample Title	: DUP 7843-01		
Sample Quantity	: 4.03700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15924		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 21-SEP-2007 10:08:49
Decay time	: 31 10:08:49.85	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.15

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	75.03	269	473	1.12	149.47	145	14	29.3	4.36E-01	AM-243
										PB-214
										PB-212
3	77.28*	426	381	1.00	153.98	145	14	17.9		PB-214
										PB-212
0	84.23*	112	412	1.30	167.90	165	7	63.9		
0	87.24	106	417	1.33	173.92	172	6	63.7		NP-237
										PB-214
										PB-212
0	93.06*	144	600	1.60	185.58	182	9	66.3		
0	129.03	77	506	1.19	257.60	254	9	107.7		AC-228
0	185.97*	301	547	1.14	371.61	365	14	35.7		
0	209.25	138	341	1.25	418.23	414	9	51.2		AC-228
1	238.67*	1459	238	1.18	477.15	470	19	6.4	2.66E+00	PB-212
1	241.06	139	250	1.14	481.94	470	19	54.4		
1	242.19	137	253	1.19	484.19	470	19	44.7		PB-214
0	269.77*	76	297	1.13	539.43	535	10	88.7		RA-223
										AC-228
3	295.26*	344	176	1.33	590.45	585	23	17.3	1.88E+00	PB-214
3	299.86	61	132	0.94	599.67	585	23	70.7		PB-212
3	300.53	85	176	1.36	601.01	585	23	60.2		
0	327.86	72	171	0.91	655.72	652	8	67.5		
0	338.33*	268	172	1.10	676.69	672	10	22.4		AC-228
0	351.84*	654	194	1.35	703.75	699	13	11.8		PB-214
0	463.09	107	87	1.01	926.49	922	10	38.0		AC-228
0	510.70*	162	217	1.99	1021.82	1014	19	50.5		TL-208
0	583.32*	403	153	1.42	1167.21	1161	12	16.0		TL-208
0	609.25*	485	148	1.38	1219.12	1211	16	14.6		BI-214
0	661.51	135	83	1.11	1323.74	1318	11	31.3		CS-137
0	727.36	104	82	1.60	1455.58	1450	11	38.9		BI-212
0	795.76	54	106	1.26	1592.52	1586	13	83.3		AC-228
0	835.98	31	68	1.84	1673.03	1667	10	104.3		
0	860.23	74	49	1.89	1721.58	1714	14	46.4		TL-208
0	910.89*	385	53	1.48	1823.01	1817	13	13.0		AC-228
0	933.82	40	32	1.72	1868.91	1864	10	61.6		BI-214
0	964.19	84	42	1.64	1929.71	1923	12	37.8		AC-228
0	968.74	206	50	1.69	1938.82	1934	10	18.9		AC-228
0	1119.94*	79	59	1.90	2241.48	2235	13	46.6		BI-214
0	1460.24*	481	22	2.21	2922.64	2914	18	10.5		K-40
0	1590.19	33	46	4.74	3182.75	3171	19	107.2		AC-228
0	1763.78*	95	4	2.54	3530.17	3523	15	23.2		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	84.23	112	412	1.30	167.90	165	7	1.03E-02	63.9	2.10E+00	
0	93.06	144	600	1.60	185.58	182	9	1.34E-02	66.3	2.43E+00	T
0	185.97	301	547	1.14	371.61	365	14	2.79E-02	35.7	3.03E+00	
1	241.06	139	250	1.14	481.94	470	19	1.28E-02	54.4	2.64E+00	
3	300.53	85	176	1.36	601.01	585	23	7.90E-03	60.2	2.25E+00	
0	327.86	72	171	0.91	655.72	652	8	6.63E-03	67.5	2.11E+00	
0	835.98	31	68	1.84	1673.03	1667	10	2.90E-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	3.955E+00	4.938E-01	2.254E-01	1.538E-02	17.547
CS-137	8.094E-02	2.681E-02	2.921E-02	3.139E-03	2.771
TL-208	2.222E-01	4.201E-02	2.667E-02	2.677E-03	8.332
BI-212	4.840E-01	1.940E-01	1.919E-01	1.846E-02	2.522
PB-212	7.861E-01	7.882E-02	4.218E-02	3.255E-03	18.638
BI-214	5.062E-01	8.999E-02	4.888E-02	4.978E-03	10.356
PB-214	5.419E-01	7.694E-02	4.591E-02	3.623E-03	11.804
RA-223	1.405E-01	1.253E-01	1.326E-01	1.220E-02	1.059
AC-228	9.510E-01	1.340E-01	8.641E-02	4.776E-03	11.006
NP-237	2.413E-01	1.577E-01	2.072E-01	2.996E-02	1.165
AM-243	1.465E-01	5.279E-02	5.028E-02	1.055E-02	2.914

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-3.000E-03		1.561E-02	2.420E-02	1.579E-03	-0.124
RH-101	-8.929E-03		1.538E-02	2.500E-02	3.877E-03	-0.357
SB-125	1.751E-02		3.969E-02	7.025E-02	5.761E-03	0.249
EU-155	-5.205E-03		5.631E-02	9.547E-02	9.479E-03	-0.055
PO-209	4.311E-01		2.646E+00	4.783E+00	8.561E-01	0.090
BI-211	3.329E-01		4.002E-01	6.891E-01	5.020E-02	0.483
PA-233	-6.533E-03		2.761E-02	4.764E-02	4.000E-03	-0.137
PA-234M	-1.536E-01		1.656E+00	2.933E+00	1.686E-01	-0.052
TH-234	6.838E-01	+	4.600E-01	5.736E-01	6.693E-02	1.192
U-235	-9.139E-02		9.864E-02	1.588E-01	1.108E-02	-0.576
NP-236	-6.049E-03		3.464E-02	5.576E-02	6.125E-03	-0.108
NP-239	-8.522E-03		1.042E-01	1.702E-01	2.297E-02	-0.050
AM-241	-4.028E-02		8.992E-02	1.542E-01	1.226E-02	-0.261
CM-243	1.144E-02		5.091E-02	8.740E-02	9.961E-03	0.131
AM-246	6.175E-03		5.025E-02	8.941E-02	1.100E-02	0.069
CF-249	1.044E-02		1.593E-02	2.870E-02	2.768E-03	0.364

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:25:59

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784302_GAMMA3_400MLSAN_15923.CNF

---- Sample Information ----

Sample ID	: OH207-7843-02		
Sample Title	: SB-CZ-SS-2021-ST		
Sample Quantity	: 4.90500E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15923		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 20-SEP-2007 20:48:50
Decay time	: 30 20:48:50.11	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.00

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

Sample ID : OH207-7843-02
Acquisition date : 20-SEP-2007 20:48:50

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	62.88*	276	987	1.54	139.69	133	14	51.2		TH-234
1	74.88	730	925	1.44	166.29	158	19	17.9	2.31E+00	AM-243
										PB-214
										PB-212
1	77.00*	1050	868	1.45	170.98	158	19	13.1		PB-214
										PB-212
0	87.29	232	973	1.13	193.79	189	9	50.1		NP-237
										PB-214
										PB-212
0	92.27*	521	1267	1.71	204.84	197	14	31.4		TH-234
0	143.75*	76	435	0.97	318.94	316	8	100.2		U-235
0	186.01*	251	578	1.26	412.63	408	11	41.0		
0	209.69	228	502	1.78	465.11	460	12	42.1		AC-228
2	238.57*	1989	387	1.45	529.13	523	19	5.9	1.11E+00	PB-212
2	241.36	337	437	1.79	535.29	523	19	35.2		PB-214
0	269.96	284	308	1.57	598.70	591	15	29.4		RA-223
										AC-228
0	277.37	90	227	1.40	615.11	611	8	61.6		TL-208
1	295.22	404	282	1.56	654.68	648	22	18.2	1.14E+00	PB-214
1	300.03	122	227	1.69	665.35	648	22	48.5		PB-212
0	327.50	82	227	1.16	726.24	723	9	69.4		
0	338.41	415	293	1.61	750.42	743	16	21.0		AC-228
0	351.87*	690	311	1.41	780.25	774	15	13.7		PB-214
0	462.81	111	159	1.69	1026.13	1019	13	50.6		AC-228
0	510.69*	244	225	1.93	1132.25	1123	21	35.6		TL-208
0	582.96*	605	156	1.69	1292.44	1285	17	12.7		TL-208
0	608.90*	501	166	1.89	1349.93	1342	17	15.0		BI-214
0	726.80*	125	61	1.72	1611.22	1606	11	30.5		BI-212
0	767.14	61	97	1.08	1700.63	1692	15	75.2		BI-214
0	860.85	82	53	1.03	1908.32	1902	14	44.2		TL-208
0	910.72*	463	85	1.71	2018.85	2009	20	13.6		AC-228
0	934.75	49	44	1.35	2072.09	2066	14	64.7		BI-214
1	964.10	83	58	2.20	2137.15	2132	24	39.1	9.77E-01	AC-228
1	968.48*	240	52	2.22	2146.85	2132	24	19.5		AC-228
0	1119.83*	76	57	2.04	2482.26	2475	13	48.0		BI-214
0	1238.62	56	61	3.47	2745.51	2739	16	70.9		BI-214
0	1460.10*	567	10	1.98	3236.32	3226	20	9.0		K-40
0	1763.77*	88	17	1.61	3909.22	3900	19	32.8		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	186.01	251	578	1.26	412.63	408	11	2.32E-02	41.0	2.81E+00	
0	327.50	82	227	1.16	726.24	723	9	7.60E-03	69.4	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.863E+00	5.244E-01	2.629E-01	1.547E-02	18.496
TL-208	3.122E-01	4.674E-02	2.972E-02	2.366E-03	10.503
BI-212	5.575E-01	1.749E-01	2.187E-01	1.588E-02	2.548
PB-212	9.754E-01	9.306E-02	4.551E-02	3.401E-03	21.436
BI-214	4.918E-01	8.272E-02	5.445E-02	4.149E-03	9.033
PB-214	5.225E-01	8.275E-02	5.429E-02	4.319E-03	9.624
RA-223	4.806E-01	1.475E-01	1.347E-01	1.193E-02	3.568
AC-228	1.141E+00	1.748E-01	9.971E-02	7.011E-03	11.446
TH-234	1.383E+00	4.520E-01	3.468E-01	3.105E-02	3.988
U-235	1.111E-01	1.116E-01	1.711E-01	1.270E-02	0.649
NP-237	2.693E-01	1.384E-01	1.770E-01	1.973E-02	1.522
AM-243	1.562E-01	4.102E-02	2.898E-02	5.574E-03	5.390

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.961E-03		1.747E-02	2.687E-02	1.425E-03	0.259
RH-101	9.714E-03		1.723E-02	2.935E-02	4.530E-03	0.331
SB-125	-3.258E-04		4.281E-02	7.460E-02	6.167E-03	-0.004
CS-137	4.159E-02		1.915E-02	3.642E-02	2.622E-03	1.142
EU-155	4.189E-02		4.931E-02	8.642E-02	8.127E-03	0.485
PO-209	-7.804E-01		3.079E+00	5.387E+00	9.926E-01	-0.145
BI-211	-3.890E-01		4.883E-01	7.835E-01	5.643E-02	-0.496
PA-233	1.661E-02		3.078E-02	5.285E-02	4.313E-03	0.314
PA-234M	9.738E-01		2.054E+00	3.810E+00	2.602E-01	0.256
NP-236	8.460E-03		2.949E-02	4.674E-02	4.460E-03	0.181
NP-239	-6.519E-02		1.098E-01	1.810E-01	2.421E-02	-0.360
AM-241	3.006E-02		3.412E-02	5.115E-02	3.237E-03	0.588
CM-243	6.467E-03		4.462E-02	7.714E-02	8.312E-03	0.084
AM-246	3.978E-02		5.722E-02	1.069E-01	1.350E-02	0.372
CF-249	1.092E-02		1.844E-02	3.301E-02	3.288E-03	0.331

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:26:58

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784303_GAMMA3_400MLSAN_15927.CNF

---- Sample Information ----

Sample ID : OH207-7843-03
Sample Title : SB-CZ-SS-20211-ST 2022 TMM 10-17-2007
Sample Quantity : 4.78100E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 15927

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

Collection Date : 21-AUG-2007 00:00:00 Acquisition date : 21-SEP-2007 12:18:19
Decay time : 31 12:18:19.29 % 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.31*	98	617	1.21	140.63	136	10	103.0		TH-234
1	74.80	619	755	1.44	166.11	158	20	19.1	9.38E-01	AM-243
										PB-214
										PB-212
1	77.14*	868	659	1.32	171.29	158	20	13.3		PB-214
										PB-212
2	87.21	394	534	1.59	193.62	190	22	21.3	1.67E+00	NP-237
										PB-214
										PB-212
2	89.81	175	650	1.30	199.38	190	22	55.9		
2	92.68*	264	609	1.31	205.75	190	22	40.6		TH-234
0	185.79*	398	614	1.57	412.14	404	14	29.1		
0	209.63	108	453	0.83	464.98	460	9	74.1		AC-228
1	238.61*	1658	306	1.41	529.21	520	28	6.3	1.36E+00	PB-212
1	241.53	403	345	1.68	535.69	520	28	24.6		PB-214
0	270.32	152	312	1.46	599.49	594	11	48.2		RA-223
										AC-228
0	295.15	480	315	1.60	654.54	649	12	17.4		PB-214
0	338.23	358	225	1.58	750.02	745	12	19.7		AC-228
0	351.91*	872	250	1.47	780.33	774	13	10.2		PB-214
0	462.67	100	161	1.26	1025.84	1017	15	58.8		AC-228
0	510.73*	162	257	1.73	1132.34	1122	21	55.2		TL-208
0	582.92*	540	195	1.70	1292.35	1284	18	15.1		TL-208
0	609.04*	510	174	1.73	1350.25	1342	19	15.6		BI-214
0	661.13	350	91	1.43	1465.68	1460	12	15.2		CS-137
0	726.69*	123	96	1.97	1610.99	1604	17	40.7		BI-212
0	767.52	74	73	1.56	1701.49	1696	12	51.2		BI-214
0	860.74	81	64	0.79	1908.08	1902	12	45.7		TL-208
0	910.78*	333	142	1.83	2018.99	2010	20	20.8		AC-228
1	964.73	73	38	2.02	2138.55	2129	30	47.2	2.72E+00	AC-228
1	968.34*	168	56	2.22	2146.55	2129	30	25.7		AC-228
0	1119.80*	122	57	1.97	2482.21	2474	20	35.3		BI-214
0	1238.04	97	48	2.04	2744.24	2733	23	43.6		BI-214
0	1460.07*	213	27	2.57	3236.25	3227	21	19.0		K-40
0	1728.65	41	4	2.61	3831.40	3824	15	37.1		BI-214
0	1763.48*	97	9	1.69	3908.58	3899	18	26.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.81	175	650	1.30	199.38	190	22	1.62E-02	55.9	3.55E+00	
0	185.79	398	614	1.57	412.14	404	14	3.68E-02	29.1	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.872E+00	3.718E-01	2.124E-01	1.250E-02	8.814
CS-137	2.052E-01	3.460E-02	3.490E-02	2.513E-03	5.879
TL-208	2.858E-01	4.886E-02	2.867E-02	2.282E-03	9.969
BI-212	5.630E-01	2.329E-01	2.277E-01	1.653E-02	2.472
PB-212	8.341E-01	8.176E-02	4.557E-02	3.406E-03	18.304
BI-214	5.135E-01	8.911E-02	5.153E-02	3.926E-03	9.965
PB-214	6.777E-01	8.770E-02	5.765E-02	4.586E-03	11.755
RA-223	2.630E-01	1.288E-01	1.395E-01	1.235E-02	1.886
AC-228	8.419E-01	1.845E-01	1.037E-01	7.288E-03	8.122
TH-234	7.193E-01	2.988E-01	3.494E-01	3.128E-02	2.059
NP-237	4.686E-01	1.127E-01	1.608E-01	1.792E-02	2.915
AM-243	1.359E-01	3.681E-02	2.655E-02	5.107E-03	5.118

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.325E-04		1.538E-02	2.678E-02	1.420E-03	0.012
RH-101	-1.174E-02		1.681E-02	2.749E-02	4.243E-03	-0.427
SB-125	2.160E-02		4.480E-02	7.974E-02	6.591E-03	0.271
EU-155	3.328E-02		4.789E-02	8.390E-02	7.889E-03	0.397
PO-209	-1.594E+00		3.099E+00	5.294E+00	9.754E-01	-0.301
BI-211	-2.421E-01		5.263E-01	8.682E-01	6.253E-02	-0.279
PA-233	2.981E-02		3.061E-02	5.354E-02	4.369E-03	0.557
PA-234M	-7.403E-02		1.881E+00	3.411E+00	2.329E-01	-0.022
U-235	3.376E-03		1.024E-01	1.738E-01	1.290E-02	0.019
NP-236	4.479E-02		3.026E-02	4.762E-02	4.544E-03	0.941
NP-239	2.909E-02		1.115E-01	1.899E-01	2.541E-02	0.153
AM-241	3.379E-02		3.220E-02	4.885E-02	3.091E-03	0.692
CM-243	1.053E-02		4.325E-02	7.506E-02	8.089E-03	0.140
AM-246	3.444E-02		4.970E-02	9.486E-02	1.197E-02	0.363
CF-249	-4.322E-03		1.862E-02	3.219E-02	3.206E-03	-0.134

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:28:05

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784304_GAMMA2_400MLSAN_15928.CNF

---- Sample Information ----

Sample ID	: OH207-7843-04		
Sample Title	: SB-CZ-SS-2023-ST		
Sample Quantity	: 4.25200E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15928		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 21-SEP-2007 13:16:56
Decay time	: 31 13:16:56.30	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.12

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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 Mooney Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.88	287	418	1.02	149.35	143	16	25.5	1.98E+00	AM-243
										PB-214
										PB-212
3	77.05	478	416	1.00	153.66	143	16	16.5		PB-214
										PB-212
5	87.26	176	482	1.10	173.99	171	24	42.3	2.00E+00	NP-237
										PB-214
										PB-212
5	90.00	183	517	1.34	179.45	171	24	45.0		
5	92.77*	219	524	1.48	184.96	171	24	42.9		
3	185.76*	142	368	1.09	370.14	365	14	50.1	5.99E+00	
0	209.12	134	379	1.16	416.67	413	9	55.4		AC-228
2	238.77*	1285	251	1.13	475.71	469	20	7.0	2.42E+00	PB-212
2	240.97*	114	215	1.21	480.10	469	20	71.9		
2	241.91*	155	207	1.21	481.98	469	20	40.0		PB-214
0	277.83	98	218	2.42	553.53	549	10	59.8		TL-208
0	295.48	313	291	1.17	588.69	582	12	24.6		PB-214
0	300.61	62	199	0.97	598.92	595	8	83.1		PB-212
0	327.83	57	242	0.71	653.15	649	10	106.0		
0	338.36	265	211	1.20	674.13	670	10	23.9		AC-228
0	352.19*	511	237	1.37	701.70	696	14	15.7		PB-214
0	409.58	43	151	1.34	816.06	813	9	106.2		AC-228
0	463.39	90	108	2.61	923.32	919	10	48.2		AC-228
0	511.31*	137	193	2.05	1018.84	1011	17	54.8		TL-208
0	583.33*	474	103	1.45	1162.44	1154	15	13.2		TL-208
0	609.53*	342	140	1.33	1214.68	1207	14	18.6		BI-214
3	661.79	385	72	1.50	1318.92	1310	22	12.9	2.19E+00	CS-137
3	665.87	40	68	2.09	1327.04	1310	22	77.2		
0	727.29	108	47	1.63	1449.57	1444	11	31.1		BI-212
0	794.81	51	57	3.66	1584.29	1577	12	65.1		AC-228
0	911.23*	300	51	1.68	1816.63	1810	13	15.6		AC-228
5	964.66	46	46	2.12	1923.30	1919	21	60.2	3.37E+00	AC-228
5	968.84*	160	58	1.77	1931.64	1919	21	24.6		AC-228
0	1119.73*	73	50	2.07	2232.95	2226	14	47.9		BI-214
0	1377.09*	36	7	1.61	2747.20	2741	14	47.4		BI-214
0	1459.63*	404	17	1.83	2912.22	2902	18	11.5		K-40
0	1762.66*	55	3	2.49	3518.41	3513	12	32.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	90.00	183	517	1.34	179.45	171	24	1.69E-02	45.0	2.61E+00	
5	92.77	219	524	1.48	184.96	171	24	2.03E-02	42.9	2.70E+00	T
3	185.76	142	368	1.09	370.14	365	14	1.31E-02	50.1	3.21E+00	
2	240.97	114	215	1.21	480.10	469	20	1.05E-02	71.9	2.78E+00	
0	327.83	57	242	0.71	653.15	649	10	5.26E-03	****	2.20E+00	
3	665.87	40	68	2.09	1327.04	1310	22	3.72E-03	77.2	1.21E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.302E+00	4.362E-01	1.438E-01	9.259E-03	22.961
CS-137	2.194E-01	3.773E-02	2.519E-02	2.866E-03	8.708
TL-208	2.450E-01	4.126E-02	2.272E-02	2.365E-03	10.787
BI-212	4.792E-01	1.578E-01	1.721E-01	1.882E-02	2.784
PB-212	6.236E-01	6.480E-02	3.883E-02	2.967E-03	16.061
BI-214	3.356E-01	7.194E-02	4.786E-02	5.096E-03	7.012
PB-214	3.857E-01	6.751E-02	4.832E-02	3.705E-03	7.982
AC-228	7.211E-01	1.286E-01	8.656E-02	7.522E-03	8.330
NP-237	3.376E-01	1.491E-01	2.055E-01	2.582E-02	1.643
AM-243	1.274E-01	4.120E-02	4.452E-02	8.874E-03	2.861

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.316E-02		1.407E-02	2.272E-02	1.322E-03	0.579
RH-101	-7.822E-04		1.539E-02	2.491E-02	3.889E-03	-0.031
SB-125	1.690E-02		3.919E-02	6.847E-02	5.613E-03	0.247
EU-155	9.594E-03		4.938E-02	8.356E-02	7.824E-03	0.115
PO-209	-4.456E-01		2.843E+00	4.926E+00	9.445E-01	-0.090
BI-211	-1.594E-01		3.959E-01	6.736E-01	6.594E-02	-0.237
RA-223	1.495E-01		7.850E-02	1.436E-01	1.277E-02	1.042
PA-233	-1.650E-02		2.538E-02	4.241E-02	3.416E-03	-0.389
PA-234M	4.797E-01		1.458E+00	2.689E+00	2.099E-01	0.178
TH-234	8.837E-01	+	3.890E-01	5.013E-01	5.014E-02	1.763
U-235	-1.005E-01		9.501E-02	1.486E-01	1.084E-02	-0.676
NP-236	2.691E-02		3.201E-02	4.959E-02	4.930E-03	0.543
NP-239	1.803E-02		8.920E-02	1.567E-01	2.114E-02	0.115
AM-241	-1.626E-02		7.853E-02	1.338E-01	8.774E-03	-0.122
CM-243	2.017E-02		4.461E-02	7.625E-02	8.243E-03	0.265
AM-246	3.006E-02		4.881E-02	9.044E-02	1.157E-02	0.332
CF-249	1.224E-02		1.609E-02	2.868E-02	2.748E-03	0.427

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:27:25

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784305_GAMMA3_400MLSAN_15931.CNF

---- Sample Information ----

Sample ID	: OH207-7843-05		
Sample Title	: SB-CZ-SS-2024-ST		
Sample Quantity	: 3.61000E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15931		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 21-SEP-2007 15:20:10
Decay time	: 31 15:20:10.86	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.47*	67	354	1.26	103.31	99	9	111.9		
1	74.88	496	631	1.44	166.29	158	19	22.2	1.16E+00	AM-243
										PB-214
										PB-212
1	77.09*	725	545	1.20	171.18	158	19	14.1		PB-214
										PB-212
3	87.38	322	497	1.47	193.99	183	30	29.2	2.33E+00	NP-237
										PB-214
										PB-212
3	89.78	246	498	1.53	199.31	183	30	38.3		
3	92.77*	315	549	1.63	205.94	183	30	34.1		
0	185.83*	215	465	1.59	412.22	406	12	44.3		
0	209.09	135	321	1.85	463.77	459	10	52.5		AC-228
2	238.58*	1280	253	1.36	529.14	523	23	7.3	1.31E+00	PB-212
2	241.47	231	306	1.85	535.55	523	23	43.5		PB-214
0	269.69	117	300	1.14	598.10	592	13	63.7		RA-223
										AC-228
0	278.19	133	317	2.72	616.94	609	17	64.0		TL-208
0	295.24	337	168	1.35	654.73	649	10	18.1		PB-214
0	299.91	126	204	1.12	665.08	660	12	48.3		PB-212
0	338.04	243	178	1.61	749.60	744	12	25.4		AC-228
0	351.82*	482	286	1.54	780.13	771	19	19.3		PB-214
0	462.11	91	146	3.01	1024.58	1018	13	58.5		AC-228
0	510.54*	157	163	2.15	1131.92	1123	19	46.4		TL-208
0	582.84*	349	84	1.26	1292.18	1286	12	15.5		TL-208
0	609.06*	294	149	1.77	1350.27	1341	16	22.3		BI-214
0	661.23	370	155	1.34	1465.90	1460	14	17.6		CS-137
0	726.57*	95	81	2.07	1610.73	1602	14	45.4		BI-212
0	860.27	56	56	1.55	1907.04	1899	14	62.5		TL-208
0	910.90*	232	96	1.93	2019.24	2007	24	26.2		AC-228
0	968.80*	118	96	2.15	2147.56	2139	13	39.2		AC-228
0	1120.13*	79	63	1.63	2482.93	2473	20	55.7		BI-214
0	1460.05*	315	34	2.25	3236.20	3227	17	14.5		K-40
0	1763.61*	63	18	1.74	3908.87	3902	15	40.4		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	46.47	67	354	1.26	103.31	99	9	6.22E-03	****	2.76E+00	
3	89.78	246	498	1.53	199.31	183	30	2.28E-02	38.3	3.55E+00	
3	92.77	315	549	1.63	205.94	183	30	2.92E-02	34.1	3.55E+00	T
0	185.83	215	465	1.59	412.22	406	12	1.99E-02	44.3	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.667E+00	5.750E-01	3.362E-01	1.978E-02	10.906
CS-137	2.876E-01	5.476E-02	4.197E-02	3.022E-03	6.852
TL-208	2.445E-01	4.253E-02	3.319E-02	2.642E-03	7.366
BI-212	5.787E-01	2.661E-01	2.962E-01	2.150E-02	1.954
PB-212	8.528E-01	8.938E-02	5.317E-02	3.975E-03	16.038
BI-214	3.918E-01	9.235E-02	6.233E-02	4.749E-03	6.286
PB-214	4.962E-01	1.034E-01	6.541E-02	5.204E-03	7.586
RA-223	2.688E-01	1.728E-01	1.768E-01	1.565E-02	1.520
AC-228	7.763E-01	2.106E-01	1.159E-01	8.149E-03	6.698
NP-237	5.070E-01	1.584E-01	1.678E-01	1.870E-02	3.022
AM-243	1.443E-01	4.234E-02	3.350E-02	6.443E-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	-7.145E-03		2.157E-02	3.337E-02	1.770E-03	-0.214
RH-101	-4.734E-03		1.998E-02	3.336E-02	5.149E-03	-0.142
SB-125	-2.618E-02		5.478E-02	9.332E-02	7.714E-03	-0.281
EU-155	2.685E-02		5.744E-02	1.005E-01	9.452E-03	0.267
PO-209	-1.252E+00		3.513E+00	6.134E+00	1.130E+00	-0.204
BI-211	-3.226E-01		6.037E-01	9.925E-01	7.148E-02	-0.325
PA-233	1.224E-02		3.776E-02	6.461E-02	5.272E-03	0.189
PA-234M	4.249E-01		2.424E+00	4.482E+00	3.060E-01	0.095
TH-234	1.138E+00 ✓+		4.016E-01	5.714E-01 ✓	5.116E-02	1.992
U-235	1.279E-01		1.187E-01	2.077E-01	1.542E-02	0.616
NP-236	-1.997E-02		3.913E-02	5.450E-02	5.201E-03	-0.366
NP-239	8.627E-02		1.304E-01	2.258E-01	3.021E-02	0.382
AM-241	-1.215E-01		4.131E-02	6.077E-02	3.845E-03	-1.999
CM-243	-3.684E-03		5.214E-02	8.996E-02	9.693E-03	-0.041
AM-246	3.949E-02		6.878E-02	1.293E-01	1.633E-02	0.305
CF-249	-1.039E-02		2.354E-02	4.032E-02	4.016E-03	-0.258

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:			
S7842 7845			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7844-PB		9/10/2007 9:00:00 AM	
SCAQC	7844-LD1 OH207-7844-01	SB-CZ-SS-2000-SD	8/16/2007	
SCAQC	7844-LC1		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7844-01 ✓	SB-CZ-SS-2000-SD	8/16/2007	
OH207	7844-02 ✓	SB-CZ-SS-2001-SD	8/16/2007	
OH207	7844-03 ✓	SB-CZ-SS-2002-SD	8/16/2007	
OH207	7844-04 ✓	SB-CZ-SS-2003-SD	8/16/2007	
OH207	7844-05 ✓	SB-CZ-SS-2004-SD	8/16/2007	
OH207	7844-06 ✓	SB-CZ-SS-2005-SD	8/16/2007	
OH207	7844-07 ✓	SB-CZ-SS-2006-SD	8/16/2007	
OH207	7844-08 ✓	SB-CZ-SS-2007SD	8/16/2007	
OH207	7844-09 ✓	SB-CZ-SS-2008-SD	8/16/2007	
OH207	7844-10 ✓	SB-CZ-SS-2009-SD	8/16/2007	
OH207	7844-11 ✓	SB-CZ-SS-2010-SD	8/16/2007	
OH207	7844-12 ✓	SB-CZ-SS-2011-SD	8/16/2007	
OH207	7844-13 ✓	SB-CZ-SS-2012-SD	8/16/2007	
OH207	7844-14 ✓	SB-CZ-SS-2013-SD	8/16/2007	
OH207	7844-15 ✓	SB-CZ-SS-2014-SD	8/16/2007	
OH207	7844-16 ✓	SB-CZ-SS-2015SD	8/20/2007	
OH207	7844-17 ✓	SB-CZ-SS-2016-SD	8/20/2007	
OH207	7844-18 ✓	SB-CZ-SS-2017-SD	8/20/2007	
OH207	7844-19 ✓	SB-CZ-SS-2018-SD	8/21/2007	
OH207	7844-20 ✓	SB-CZ-SS-2019-SD	8/21/2007	

T M Moore 10/17/2007
Radiochemistry Reviewer Date

G W Smith 10-24-07
QA Reviewer Date

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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
9-23-07 2108 W G2	60	KAF07	7803	13	—	8-14-07 1050	KI-SS-C1-SV1-12-1	Soil	283.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 200 mL can ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 W 10:00 G2				14	—	1100	-13-1		292.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1007 G1 CW				15	—	1110	-14-1		286.0 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1113 G1 CW				16	—	1120	-14-3		290.2 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1225 G1 W				17	—	1130	-15-1		291.1 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-23-07 1249 G3 CW	180	SCAQC	7844	PB1	—	0900 9-10-07	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 ☐
9-23-07 1605 G3 W	60			LC1	—	9-10-07 09:00	Grd 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 ☐
9-23-07 1733 G3 W	180			LD1	—	8-16-07	DUP 7844-01		455.4 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-23-07 2110 G3 W		OH207		01	—		SB-C2-SS-2000-SD			400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-23-07 1053 G3 CW				02	—		SB-C2SS-2000 -SD		611.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 10 mL Sand ☐ 200 mL Sand ☐

OH207 Analysis Seq. File: Schofield Barracks

Gamma1 = G1
Gamma2 = G2

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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
8-24-07 1305 G3 CW	180	OH207	7844	03	—	8-16-07	SB-CZ-SS-2002-SD	SOIL	505.1 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1440 G1 W				04	—		SB-CZ-SS-2003-SD		600.8 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1716 W G3				05	—		SB-CZ-SS-2004-SD		459.3 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1802 G2 W				06	—		SB-CZ-SS-2005-SD		409.9 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 2153 G1 W				07	—		SB-CZ-SS-2006-SD		424.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 2155 G2 W				08	—		SB-CZ-SS-2007-SD		524.2 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 W 2156 G3				09	—		SB-CZ-SS-2008-SD		473.1 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-25-07 0941 G3 W				10	—		SB-CZ-SS-2009-SD		509.4 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-25-07 1245 G3				11	—		SB-CZ-SS-2010-SD		549.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-25-07 1549 G3				12	—		SB-CZ-SS-2011-SD		451.9 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐

Analysis Seq. file: schofield Barracks

Gamma1 = G1
Gamma2 = G2

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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
9-25-07 2047 G3 gf	180	OH207	7844	13	–	8-16-07	SB-CZ-SS-2012-SD	SOIL	493.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-26-07 WR 1000 G3				14	–		SB-CZ-SS-2013-SD		487.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-26-07 1302 G3 W				15	–		SB-CZ-SS-2014-SD		497.6 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-26-07 1604 G3 W				16	–	8-20-07	SB-CZ-SS-2015-SD		386.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-26-07 W 1909 G2				17	–		SB-CZ-SS-2016-SD		480.7 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-26-07 2001 G3 W				18	–		SB-CZ-SS-2017-SD		550.1 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-27-07 0935 G3 W				19	–	8-21-07	SB-CZ-SS-2018-SD		415.4 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-27-07 0939 G1 W				20	–		SB-CZ-SS-2019-SD		445.8 gdry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1114 G2 CW	200	SCAQC	7812	PB1	–	8-29-07 1015	Prep BLK	Liquid	256 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ 200 mL Can ☑ 10 mL Sand ☐ 200 mL Sand ☐
9-24-07 1331 G1 CW	60			LC1	–		ETRL SAMP S-181	Soil	320 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☐ 1 Liter Liquid ☐ 40 mL Sand ☐ ☑ 10 mL Sand ☐ 200 mL Sand ☐

QCL07-7812 Analysis seq file: Routine Sample Counting

Gamma1 = G1
Gamma2 = G2

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SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:43:49

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7844PB1_GAMMA3_400MLSA_15956.CNF

---- Sample Information ----

Sample ID	: SCAQC-7844-PB1		
Sample Title	: PREP BLK		
Sample Quantity	: 4.00000E+02 G		
Sample Type	: LIQUID		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15956		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 23-SEP-2007 12:49:25
Decay time	: 13 03:49:25.44	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.54

---- Detector Parameters ----

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

Efficiency Equation:

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

where:
x=ln(a1/energy)

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

---- Processing Parameters ----

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

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	352.93*	99	106	1.91	782.60	775	19	54.8		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	352.93	99	106	1.91	782.60	775	19	9.17E-03	54.8	1.79E+00	T

Flags: "T" = Tentatively associated

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	1.428E-01		1.838E-01	3.841E-01	2.260E-02	0.372
CO-60	-9.759E-03		1.330E-02	2.195E-02	1.336E-03	-0.445
RH-101	-5.506E-03		1.176E-02	1.935E-02	2.987E-03	-0.284
SB-125	-9.968E-03		3.371E-02	5.877E-02	4.858E-03	-0.170
CS-137	-4.235E-03		1.194E-02	2.056E-02	1.480E-03	-0.206
EU-155	-1.543E-02		3.324E-02	5.699E-02	5.359E-03	-0.271
TL-208	-5.213E-03		1.476E-02	2.482E-02	1.975E-03	-0.210
PO-209	-1.707E+00		2.329E+00	3.894E+00	7.175E-01	-0.438
BI-211	-3.458E-02		3.665E-01	6.432E-01	4.632E-02	-0.054
BI-212	-6.222E-02		1.132E-01	1.893E-01	1.374E-02	-0.329
PB-212	-1.117E-02		2.278E-02	3.906E-02	2.920E-03	-0.286
BI-214	3.634E-02		3.090E-02	5.868E-02	4.471E-03	0.619
PB-214	9.197E-02	+	5.090E-02	5.491E-02	4.368E-03	1.675
RA-223	1.310E-02		6.106E-02	1.066E-01	9.437E-03	0.123
AC-228	-2.538E-02		5.088E-02	8.787E-02	6.178E-03	-0.289
PA-233	-2.273E-02		2.358E-02	3.745E-02	3.056E-03	-0.607
PA-234M	-8.269E-01		1.416E+00	2.572E+00	1.756E-01	-0.322
TH-234	-2.426E-01		1.890E-01	3.354E-01	3.003E-02	-0.723
U-235	-1.185E-02		7.209E-02	1.219E-01	9.045E-03	-0.097
NP-236	-1.138E-02		2.047E-02	3.268E-02	3.119E-03	-0.348
NP-237	-8.877E-02		6.197E-02	9.417E-02	1.050E-02	-0.943
NP-239	7.917E-03		7.805E-02	1.352E-01	1.809E-02	0.059
AM-241	-8.689E-02		2.552E-02	3.465E-02	2.193E-03	-2.507
AM-243	1.248E-02		1.244E-02	2.126E-02	4.088E-03	0.587
CM-243	6.584E-03		3.007E-02	5.325E-02	5.738E-03	0.124
AM-246	2.492E-02		4.118E-02	8.253E-02	1.042E-02	0.302
CF-249	-1.133E-02		1.405E-02	2.358E-02	2.349E-03	-0.481

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:44:09

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7844LC1_GAMMA3_400MLSA_15961.CNF

---- Sample Information ----

Sample ID	: SCAQC-7844-LC1		
Sample Title	: CTRL SAMP S142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15961		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 23-SEP-2007 16:05:37
Decay time	: 13 07:05:37.25	% dead time	: 0.2%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:05.64

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
10	51.05	8196	16966	3.27	113.46	102	38	8.1	3.22E+02	
10	59.49	76150	5542	1.57	132.17	102	38	0.8		AM-241
0	88.01	15790	5852	1.32	195.38	187	15	2.6		
0	121.86	2396	3886	1.38	270.43	263	14	11.8		
0	136.30	547	2621	1.45	302.42	298	10	36.0		
0	238.63*	335	2244	1.37	529.25	525	9	52.2		
0	661.25	22687	1195	1.69	1465.95	1458	15	1.5		CS-137
0	1172.55	18071	793	2.03	2599.09	2587	23	1.7		CO-60
0	1331.75	16317	225	2.22	2951.90	2940	25	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	51.05	8196	16966	3.27	113.46	102	38	2.28E+00	8.1	2.97E+00	
0	88.01	15790	5852	1.32	195.38	187	15	4.39E+00	2.6	3.55E+00	T
0	121.86	2396	3886	1.38	270.43	263	14	6.65E-01	11.8	3.39E+00	
0	136.30	547	2621	1.45	302.42	298	10	1.52E-01	36.0	3.27E+00	
0	238.63	335	2244	1.37	529.25	525	9	9.30E-02	52.2	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	3.244E+01	2.049E+00	9.313E-02	4.938E-03	348.310
CS-137	2.979E+01	2.190E+00	1.919E-01	1.381E-02	155.288
AM-241	7.672E+01	4.895E+00	3.375E-01	2.135E-02	227.336

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	6.775E-01		4.745E-01	9.282E-01	5.462E-02	0.730
RH-101	4.592E-03		8.629E-02	1.441E-01	2.225E-02	0.032
SB-125	-1.048E-01		3.053E-01	5.141E-01	4.250E-02	-0.204
EU-155	-4.273E-03		2.212E-01	3.766E-01	3.541E-02	-0.011
TL-208	6.661E-02		1.072E-01	1.820E-01	1.449E-02	0.366
PO-209	-5.360E-01		3.064E+01	5.197E+01	9.575E+00	-0.010
BI-211	-1.866E+00		3.818E+00	6.195E+00	4.462E-01	-0.301
BI-212	-5.668E-01		8.907E-01	1.453E+00	1.054E-01	-0.390
PB-212	3.774E-01	+	1.990E-01	2.853E-01	2.132E-02	1.323
BI-214	3.465E-01		2.074E-01	3.565E-01	2.717E-02	0.972
PB-214	2.796E-01		2.163E-01	3.591E-01	2.857E-02	0.778
RA-223	-3.112E-01		5.095E-01	8.317E-01	7.363E-02	-0.374
AC-228	1.000E+00		5.768E-01	1.001E+00	7.039E-02	0.999
PA-233	4.705E-02		1.951E-01	3.214E-01	2.622E-02	0.146
PA-234M	1.255E+01		1.722E+01	2.950E+01	2.014E+00	0.426
TH-234	8.292E-01		1.065E+00	1.537E+00	1.376E-01	0.539
U-235	2.371E-01		4.770E-01	8.096E-01	6.010E-02	0.293
NP-236	-2.350E-02		1.287E-01	2.071E-01	1.977E-02	-0.113
NP-237	3.413E+01		3.879E+00	1.590E+00	1.772E-01	21.470
NP-239	-4.500E-01		6.523E-01	1.068E+00	1.428E-01	-0.421
AM-243	1.712E-02		9.428E-02	1.531E-01	2.945E-02	0.112
CM-243	4.268E-02		2.030E-01	3.467E-01	3.736E-02	0.123
AM-246	3.789E-01		5.303E-01	9.021E-01	1.139E-01	0.420
CF-249	-1.232E-01		1.237E-01	2.062E-01	2.054E-02	-0.598

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:44:28

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7844LD1_GAMMA3_400MLSA_15966.CNF

---- Sample Information ----

Sample ID	: SCAQC-7844-LD1
Sample Title	: DUP 7844-01
Sample Quantity	: 4.55400E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15966

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 23-SEP-2007 17:33:42
Decay time	: 38 17:33:42.33	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.24*	110	565	1.19	140.49	135	10	88.3		
1	74.85	507	652	1.44	166.21	158	19	21.9	2.59E+00	AM-243
										PB-214
										PB-212
1	77.13*	763	523	1.19	171.28	158	19	13.5		PB-214
										PB-212
3	87.30	297	544	1.37	193.83	182	32	30.5	3.37E+00	NP-237
										PB-214
										PB-212
3	89.83	242	691	1.78	199.42	182	32	47.4		
0	185.93*	212	521	1.48	412.44	406	13	48.4		
0	209.15	261	398	2.09	463.91	458	13	33.9		AC-228
2	238.56*	1420	264	1.52	529.09	520	23	7.0	2.13E+00	PB-212
2	241.42	292	293	1.85	535.42	520	23	34.5		PB-214
0	270.34	109	216	0.94	599.55	595	9	52.6		RA-223
										AC-228
3	295.19	384	202	1.74	654.61	647	30	17.8	1.68E+00	PB-214
3	299.73	132	216	2.11	664.67	647	30	51.9		PB-212
0	338.18	280	245	1.23	749.91	744	13	25.9		AC-228
0	351.75*	526	214	1.46	779.98	771	15	15.0		PB-214
0	463.17	141	138	1.58	1026.94	1020	16	41.2		AC-228
0	510.52*	171	158	1.88	1131.89	1124	18	42.1		TL-208
0	582.84*	466	116	1.46	1292.18	1285	16	14.2		TL-208
0	609.01*	384	128	1.59	1350.16	1342	15	16.7		BI-214
0	727.41*	96	119	1.55	1612.59	1604	17	56.2		BI-212
0	860.58	55	67	1.01	1907.72	1899	15	71.0		TL-208
0	910.89*	278	72	2.19	2019.23	2007	19	19.1		AC-228
1	964.00	95	57	2.21	2136.93	2126	28	38.1	4.78E+00	AC-228
1	968.59*	182	44	2.01	2147.10	2126	28	21.7		AC-228
0	1120.37*	54	64	2.22	2483.47	2474	15	71.1		BI-214
0	1237.40	38	46	1.18	2742.81	2736	16	85.8		BI-214
0	1460.14*	294	20	2.15	3236.41	3226	20	14.3		K-40
3	1762.53*	26	2	2.56	3906.46	3901	15	70.0	1.24E+00	
3	1764.12*	39	4	2.36	3910.00	3901	15	48.2		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	63.24	110	565	1.19	140.49	135	10	1.02E-02	88.3	3.33E+00	T
3	89.83	242	691	1.78	199.42	182	32	2.24E-02	47.4	3.55E+00	
0	185.93	212	521	1.48	412.44	406	13	1.96E-02	48.4	2.82E+00	
3	1762.53	26	2	2.56	3906.46	3901	15	2.41E-03	70.0	4.91E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.713E+00	4.205E-01	2.279E-01	1.341E-02	11.903
TL-208	2.591E-01	4.207E-02	2.583E-02	2.056E-03	10.030
BI-212	4.628E-01	2.623E-01	2.236E-01	1.623E-02	2.070
PB-212	7.501E-01	7.675E-02	4.449E-02	3.326E-03	16.861
BI-214	4.065E-01	7.458E-02	5.451E-02	4.153E-03	7.459
PB-214	4.296E-01	7.300E-02	5.445E-02	4.332E-03	7.889
RA-223	1.978E-01	1.055E-01	1.344E-01	1.190E-02	1.472
AC-228	7.383E-01	1.505E-01	9.821E-02	6.905E-03	7.518
NP-237	3.705E-01	1.203E-01	1.390E-01	1.550E-02	2.665
AM-243	1.169E-01	3.405E-02	2.648E-02	5.093E-03	4.412

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-9.340E-04		1.512E-02	2.695E-02	1.640E-03	-0.035
RH-101	-3.401E-03		1.625E-02	2.716E-02	4.192E-03	-0.125
SB-125	4.836E-02		4.219E-02	7.788E-02	6.438E-03	0.621
CS-137	4.138E-02		2.070E-02	3.908E-02	2.814E-03	1.059
EU-155	2.171E-02		4.689E-02	8.197E-02	7.708E-03	0.265
PO-209	1.623E+00		3.002E+00	5.615E+00	1.035E+00	0.289
BI-211	-1.501E-01		4.623E-01	7.755E-01	5.585E-02	-0.194
PA-233	4.588E-04		3.098E-02	5.217E-02	4.257E-03	0.009
PA-234M	2.173E+00		1.880E+00	3.733E+00	2.549E-01	0.582
TH-234	7.215E-01	✓	2.570E-01	4.565E-01	4.087E-02	1.580
U-235	5.068E-02		9.931E-02	1.710E-01	1.269E-02	0.296
NP-236	1.940E-02		3.066E-02	4.501E-02	4.295E-03	0.431
NP-239	2.776E-02		1.088E-01	1.857E-01	2.484E-02	0.150
AM-241	-2.746E-03		3.364E-02	4.863E-02	3.077E-03	-0.056
CM-243	-1.339E-02		4.290E-02	7.341E-02	7.911E-03	-0.182
AM-246	-1.395E-02		5.484E-02	9.576E-02	1.209E-02	-0.146
CF-249	7.721E-03		1.773E-02	3.176E-02	3.163E-03	0.243

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:44:49

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784401_GAMMA3_400MLSAN_15973.CNF

---- Sample Information ----

Sample ID : OH207-7844-01
Sample Title : SB-CZ-SS-200-SD 2000 TMM 10-17-2007
Sample Quantity : 4.55400E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 15973

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

Collection Date : 16-AUG-2007 00:00:00 Acquisition date : 23-SEP-2007 21:10:20
Decay time : 38 21:10:20.76 % 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.40*	119	338	1.46	103.17	97	11	66.7		
0	63.24*	115	605	1.07	140.48	135	10	87.0		TH-234
2	74.87	584	803	1.59	166.28	157	20	21.9	2.94E+00	AM-243
										PB-214
										PB-212
2	77.11*	786	584	1.21	171.24	157	20	13.5		PB-214
										PB-212
2	87.40	331	655	1.62	194.03	181	32	32.5	2.15E+00	NP-237
										PB-214
										PB-212
2	90.03	226	574	1.49	199.87	181	32	44.1		
2	92.75*	303	598	1.63	205.91	181	32	37.6		TH-234
0	129.07	128	497	1.30	286.41	282	10	67.7		AC-228
0	186.04*	253	503	1.22	412.69	406	13	40.3		
0	209.08	141	372	1.28	463.74	458	11	55.6		AC-228
2	238.58*	1432	349	1.43	529.14	522	20	7.3	1.48E+00	PB-212
2	241.35	225	381	1.85	535.29	522	20	47.5		PB-214
0	269.83	160	288	1.88	598.40	591	13	46.6		RA-223
										AC-228
0	295.16	267	329	1.54	654.56	645	15	32.0		PB-214
0	300.15	86	218	1.78	665.61	661	10	67.7		PB-212
0	338.29	294	172	1.09	750.15	745	10	20.1		AC-228
0	351.91*	537	260	1.50	780.34	774	15	15.9		PB-214
0	463.33	61	151	1.02	1027.30	1020	11	82.8		AC-228
0	510.93*	134	166	1.80	1132.79	1126	17	53.0		TL-208
0	582.96*	408	155	1.54	1292.43	1282	16	17.2		TL-208
0	609.22*	396	102	1.61	1350.64	1344	15	15.5		
0	661.02	48	91	3.94	1465.45	1457	13	86.4		CS-137
0	726.91*	111	68	1.96	1611.47	1604	16	38.7		BI-212
0	794.41	71	49	1.21	1761.08	1753	14	48.1		AC-228
0	860.66	73	69	0.67	1907.89	1897	17	56.6		TL-208
0	910.70*	250	66	1.67	2018.81	2012	16	19.5		AC-228
1	964.28	46	82	2.09	2137.55	2131	28	81.8	1.16E+00	AC-228
1	968.75*	160	52	1.81	2147.45	2131	28	25.0		AC-228
0	1459.97*	283	14	2.32	3236.04	3226	19	14.0		K-40
0	1763.57*	65	10	2.32	3908.78	3897	19	35.3		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	46.40	119	338	1.46	103.17	97	11	1.10E-02	66.7	2.76E+00	
2	90.03	226	574	1.49	199.87	181	32	2.10E-02	44.1	3.55E+00	
0	186.04	253	503	1.22	412.69	406	13	2.34E-02	40.3	2.81E+00	
0	609.22	396	102	1.61	1350.64	1344	15	3.66E-02	15.5	1.13E+00	T
0	1763.57	65	10	2.32	3908.78	3897	19	6.03E-03	35.3	4.90E-01	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.616E+00	3.982E-01	2.279E-01	1.341E-02	11.479
CS-137	2.974E-02	2.579E-02	3.431E-02	2.471E-03	0.867
TL-208	2.265E-01	4.294E-02	3.132E-02	2.493E-03	7.231
BI-212	5.342E-01	2.102E-01	2.160E-01	1.568E-02	2.473
PB-212	7.561E-01	7.899E-02	4.498E-02	3.362E-03	16.809
PB-214	4.380E-01	7.801E-02	5.385E-02	4.284E-03	8.133
RA-223	2.909E-01	1.381E-01	1.372E-01	1.215E-02	2.120
AC-228	6.640E-01	1.374E-01	8.198E-02	5.764E-03	8.099
TH-234	8.664E-01	3.352E-01	3.241E-01	2.901E-02	2.674
NP-237	4.132E-01	1.419E-01	1.408E-01	1.569E-02	2.934
AM-243	1.346E-01	3.921E-02	2.746E-02	5.281E-03	4.901

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.233E-03		1.673E-02	2.863E-02	1.518E-03	-0.043
RH-101	-2.661E-03		1.652E-02	2.766E-02	4.270E-03	-0.096
SB-125	1.495E-03		4.243E-02	7.439E-02	6.150E-03	0.020
EU-155	3.697E-02		4.701E-02	8.276E-02	7.782E-03	0.447
PO-209	1.255E+00		3.158E+00	5.823E+00	1.073E+00	0.215
BI-211	-1.127E-01		4.794E-01	8.093E-01	5.829E-02	-0.139
BI-214	4.186E-01	+	7.238E-02	1.122E-01	8.549E-03	3.731
PA-233	1.226E-02		2.999E-02	5.150E-02	4.203E-03	0.238
PA-234M	-5.753E-02		1.962E+00	3.562E+00	2.432E-01	-0.016
U-235	-3.355E-02		9.923E-02	1.668E-01	1.238E-02	-0.201
NP-236	1.999E-02		3.150E-02	4.616E-02	4.405E-03	0.433
NP-239	-7.658E-03		1.086E-01	1.833E-01	2.453E-02	-0.042
AM-241	3.440E-03		3.339E-02	4.869E-02	3.081E-03	0.071
CM-243	1.496E-02		4.298E-02	7.492E-02	8.073E-03	0.200
AM-246	2.122E-02		5.510E-02	1.020E-01	1.287E-02	0.208
CF-249	1.601E-02		1.868E-02	3.391E-02	3.377E-03	0.472

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:53:44

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784402_GAMMA3_400MLSAN_15978.CNF

---- Sample Information ----

Sample ID : OH207-7844-02
Sample Title : SB-C2SS-2001-SD SB-CZ-SS-2001-SD TM Moore 10/17/2007
Sample Quantity : 6.11700E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 15978

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 10:53:39
Decay time	: 39 10:53:39.93	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.04

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.40*	162	648	1.26	140.84	136	10	64.2		TH-234
1	74.88	611	812	1.44	166.29	159	19	20.2	1.73E+00	AM-243
										PB-214
										PB-212
1	77.11*	976	808	1.43	171.22	159	19	13.5		PB-214
										PB-212
3	87.09	437	864	1.74	193.35	183	31	28.9	2.00E+00	NP-237
										PB-214
										PB-212
3	89.89	273	491	1.08	199.56	183	31	29.9		
3	92.81*	411	811	1.79	206.03	183	31	32.3		TH-234
0	186.10*	271	891	1.44	412.82	404	15	50.6		
0	209.33	161	515	1.30	464.31	460	11	56.8		AC-228
3	238.58*	1806	308	1.45	529.13	520	32	6.1	3.01E+00	PB-212
3	241.59	509	359	2.01	535.80	520	32	23.0		PB-214
0	270.48	175	394	1.29	599.86	595	13	49.8		RA-223
										AC-228
2	295.19	575	262	1.48	654.61	648	22	13.4	1.45E+00	PB-214
2	299.82	149	264	1.53	664.88	648	22	43.6		PB-212
0	328.01	88	251	0.98	727.35	723	10	70.2		
0	338.29	361	260	1.36	750.15	744	12	20.8		AC-228
0	351.89*	992	324	1.38	780.29	773	16	10.4		PB-214
0	462.73	124	159	1.48	1025.95	1021	11	43.6		AC-228
0	582.94*	504	190	1.70	1292.39	1283	19	16.1		TL-208
0	609.02*	677	147	1.56	1350.20	1343	15	11.2		BI-214
0	727.45*	158	139	1.07	1612.68	1602	22	41.9		BI-212
0	767.97	60	116	1.37	1702.49	1695	14	79.9		BI-214
0	860.25	108	77	2.12	1907.00	1898	18	42.5		TL-208
0	910.95*	421	93	2.17	2019.35	2010	22	15.4		AC-228
1	964.28	91	47	2.21	2137.55	2130	35	39.5	1.50E+00	AC-228
1	968.36*	238	35	2.22	2146.60	2130	35	18.3		AC-228
0	1120.32*	120	88	2.14	2483.37	2476	20	44.6		BI-214
0	1238.03	83	65	2.19	2744.21	2735	22	53.0		BI-214
0	1376.64	59	40	2.27	3051.38	3039	23	61.1		BI-214
0	1460.00*	315	40	1.68	3236.10	3226	20	15.4		K-40
0	1588.39	19	19	0.87	3520.60	3516	8	91.4		AC-228
0	1629.48	26	11	3.56	3611.65	3604	15	69.4		
0	1763.48*	115	16	1.99	3908.58	3902	15	24.6		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	89.89	273	491	1.08	199.56	183	31	2.53E-02	29.9	3.55E+00	
0	186.10	271	891	1.44	412.82	404	15	2.51E-02	50.6	2.81E+00	
0	328.01	88	251	0.98	727.35	723	10	8.19E-03	70.2	1.89E+00	
0	1629.48	26	11	3.56	3611.65	3604	15	2.38E-03	69.4	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.165E+00	3.561E-01	1.867E-01	1.099E-02	11.594
TL-208	2.086E-01	3.738E-02	2.188E-02	1.742E-03	9.530
BI-212	5.651E-01	2.402E-01	1.655E-01	1.201E-02	3.414
PB-212	7.100E-01	6.846E-02	3.715E-02	2.777E-03	19.110
BI-214	5.327E-01	7.196E-02	4.333E-02	3.302E-03	12.293
PB-214	6.028E-01	7.878E-02	4.653E-02	3.701E-03	12.956
RA-223	2.367E-01	1.197E-01	1.175E-01	1.040E-02	2.015
AC-228	8.310E-01	1.406E-01	7.996E-02	5.622E-03	10.393
TH-234	8.749E-01	2.932E-01	2.681E-01	2.400E-02	3.263
NP-237	4.057E-01	1.256E-01	1.165E-01	1.299E-02	3.482
AM-243	1.049E-01	2.928E-02	2.211E-02	4.253E-03	4.745

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	3.854E-04		1.284E-02	2.286E-02	1.391E-03	0.017
RH-101	2.894E-04		1.417E-02	2.383E-02	3.678E-03	0.012
SB-125	-8.737E-03		3.480E-02	5.991E-02	4.953E-03	-0.146
CS-137	8.583E-03		1.536E-02	2.716E-02	1.956E-03	0.316
EU-155	2.948E-02		4.052E-02	7.081E-02	6.658E-03	0.416
PO-209	-6.024E-02		2.448E+00	4.367E+00	8.046E-01	-0.014
BI-211	-1.865E-01		4.002E-01	6.603E-01	4.756E-02	-0.282
PA-233	2.213E-02		2.595E-02	4.493E-02	3.667E-03	0.493
PA-234M	5.161E-02		1.607E+00	2.903E+00	1.982E-01	0.018
U-235	4.702E-02		8.602E-02	1.477E-01	1.097E-02	0.318
NP-236	1.263E-02		2.613E-02	3.789E-02	3.616E-03	0.333
NP-239	4.216E-02		9.232E-02	1.577E-01	2.109E-02	0.267
AM-241	2.744E-02		2.605E-02	3.943E-02	2.495E-03	0.696
CM-243	1.447E-02		3.709E-02	6.439E-02	6.938E-03	0.225
AM-246	9.926E-03		4.521E-02	8.176E-02	1.032E-02	0.121
CF-249	-1.436E-03		1.512E-02	2.627E-02	2.617E-03	-0.055

Pages 380-390 were intentionally left blank.

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:54:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784403_GAMMA3_400MLSAN_15983.CNF

---- Sample Information ----

Sample ID	: OH207-7844-03		
Sample Title	: SB-CZ-SS-2002-SD		
Sample Quantity	: 5.05100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15983		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 14:04:52
Decay time	: 39 14:04:52.13	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.13

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	48.10	310	841	1.91	106.92	100	17	44.3		
0	63.28*	253	879	1.30	140.58	135	12	50.3		TH-234
4	74.82	799	970	1.46	166.16	158	19	16.8	2.08E+00	AM-243
										PB-214
										PB-212
4	77.09*	1136	884	1.35	171.19	158	19	11.6		PB-214
										PB-212
1	87.06	431	941	1.47	193.30	179	34	28.3	3.05E+00	NP-237
										PB-214
										PB-212
1	89.95	370	879	1.47	199.70	179	34	32.9		
1	92.84*	359	821	1.48	206.09	179	34	35.5		TH-234
0	128.88	201	753	1.46	285.98	281	10	53.0		AC-228
0	185.80*	372	669	1.55	412.15	407	12	30.6		
0	209.35	262	545	1.15	464.35	459	11	36.7		AC-228
5	238.57*	2345	367	1.39	529.13	522	21	5.2	9.63E-01	PB-212
5	241.38	553	497	2.16	535.35	522	21	26.0		PB-214
0	270.41	178	417	1.40	599.70	593	12	48.3		RA-223
										AC-228
0	295.24	521	385	1.28	654.73	647	14	18.2		PB-214
0	300.41	210	350	1.81	666.18	661	14	40.0		PB-212
0	327.85	162	230	1.12	727.01	722	10	38.5		
0	338.20	507	343	1.39	749.95	742	14	17.9		AC-228
0	351.81*	906	348	1.38	780.11	773	16	11.4		PB-214
0	409.18	72	124	1.16	907.27	904	7	56.3		AC-228
0	462.85	132	201	1.56	1026.22	1020	13	47.6		AC-228
0	509.99*	169	352	1.83	1130.71	1121	21	60.3		TL-208
0	582.85*	757	205	1.80	1292.18	1283	20	11.9		TL-208
0	608.98*	589	230	1.73	1350.11	1341	16	14.4		BI-214
0	726.66*	125	133	2.06	1610.92	1604	13	42.6		BI-212
0	767.52	48	118	1.37	1701.48	1697	12	94.9		BI-214
0	794.56	106	122	1.86	1761.41	1752	18	52.5		AC-228
0	861.47	60	119	2.23	1909.71	1897	20	92.3		TL-208
0	910.73*	509	94	1.72	2018.87	2011	15	12.3		AC-228
4	964.04	122	41	2.95	2137.01	2129	29	32.7	1.87E+00	AC-228
4	968.44*	374	39	2.18	2146.76	2129	29	12.8		AC-228
0	1119.97*	200	44	2.30	2482.57	2473	20	21.9		BI-214
0	1377.00	45	54	1.37	3052.17	3043	18	82.9		BI-214
0	1460.12*	523	44	2.34	3236.35	3225	25	11.3		K-40
0	1509.06*	19	23	1.80	3344.81	3338	10	105.2		BI-214
0	1763.75*	116	16	1.74	3909.18	3898	20	25.5		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	48.10	310	841	1.91	106.92	100	17	2.87E-02	44.3	2.84E+00	
1	89.95	370	879	1.47	199.70	179	34	3.43E-02	32.9	3.55E+00	
0	185.80	372	669	1.55	412.15	407	12	3.44E-02	30.6	2.82E+00	
0	327.85	162	230	1.12	727.01	722	10	1.50E-02	38.5	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.359E+00	5.545E-01	2.375E-01	1.398E-02	18.350
TL-208	3.795E-01	5.432E-02	2.973E-02	2.367E-03	12.762
BI-212	5.395E-01	2.329E-01	2.170E-01	1.575E-02	2.486
PB-212	1.117E+00	1.016E-01	4.545E-02	3.397E-03	24.573
BI-214	5.613E-01	9.121E-02	5.718E-02	4.357E-03	9.817
PB-214	6.665E-01	9.262E-02	5.505E-02	4.379E-03	12.108
RA-223	2.921E-01	1.434E-01	1.476E-01	1.307E-02	1.979
AC-228	1.217E+00	1.721E-01	1.012E-01	7.118E-03	12.021
TH-234	9.265E-01	3.392E-01	3.531E-01	3.161E-02	2.624
NP-237	4.853E-01	1.477E-01	1.534E-01	1.710E-02	3.163
AM-243	1.662E-01	4.247E-02	2.927E-02	5.629E-03	5.677

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.213E-02		1.740E-02	2.880E-02	1.753E-03	-0.421
RH-101	-8.897E-03		1.774E-02	2.929E-02	4.521E-03	-0.304
SB-125	-1.007E-02		4.531E-02	7.794E-02	6.443E-03	-0.129
CS-137	8.327E-03		1.915E-02	3.358E-02	2.418E-03	0.248
EU-155	6.560E-02		5.236E-02	9.194E-02	8.646E-03	0.714
PO-209	7.021E-01		3.267E+00	5.887E+00	1.085E+00	0.119
BI-211	4.347E-01		5.229E-01	9.376E-01	6.752E-02	0.464
PA-233	3.612E-04		3.265E-02	5.466E-02	4.461E-03	0.007
PA-234M	1.682E+00		2.043E+00	3.860E+00	2.635E-01	0.436
U-235	4.487E-02		1.094E-01	1.872E-01	1.389E-02	0.240
NP-236	3.200E-02		3.441E-02	5.039E-02	4.808E-03	0.635
NP-239	4.517E-02		1.173E-01	1.996E-01	2.670E-02	0.226
AM-241	2.955E-02		3.390E-02	5.073E-02	3.210E-03	0.583
CM-243	2.318E-02		4.691E-02	8.150E-02	8.782E-03	0.284
AM-246	5.923E-02		6.068E-02	1.141E-01	1.440E-02	0.519
CF-249	-2.626E-03		1.986E-02	3.437E-02	3.424E-03	-0.076

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:54:32

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784404_GAMMA1_400MLSAN_15985.CNF

---- Sample Information ----

Sample ID	: OH207-7844-04		
Sample Title	: SB-CZ-SS-2003-SD		
Sample Quantity	: 6.00800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15985		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 14:40:44
Decay time	: 39 14:40:44.90	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.46

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	75.01	304	503	1.24	149.43	144	14	27.5	2.06E+00	AM-243
										PB-214
										PB-212
3	77.30*	496	437	1.06	154.01	144	14	16.4		PB-214
										PB-212
0	87.35	203	610	0.87	174.15	170	8	44.7		NP-237
										PB-214
										PB-212
2	89.97	153	290	0.99	179.39	177	13	34.8	3.90E+00	
2	92.97*	213	533	1.11	185.39	177	13	40.8		
0	185.96*	279	608	1.17	371.60	368	9	34.9		
0	209.73	218	641	1.14	419.19	414	12	48.6		AC-228
2	238.67*	1724	367	1.09	477.15	472	18	6.1	1.47E+00	PB-212
2	241.02	182	350	1.29	481.84	472	18	51.0		
2	242.01	232	298	1.19	483.83	472	18	31.2		PB-214
0	270.03*	165	347	0.93	539.94	536	10	45.3		RA-223
										AC-228
0	277.86	66	339	1.21	555.62	550	9	103.2		TL-208
0	295.19*	494	294	1.30	590.32	586	10	15.9		PB-214
1	299.65	84	181	1.35	599.25	596	8	57.9	1.12E+01	
1	300.40	112	209	1.11	600.75	596	8	47.9		PB-212
0	327.85	99	273	1.12	655.72	651	10	65.4		
0	338.34*	406	324	1.36	676.71	671	13	20.9		AC-228
0	351.88*	850	214	1.31	703.83	700	10	9.5		PB-214
0	409.11	91	142	1.51	818.40	814	9	51.9		AC-228
0	462.66	87	198	0.98	925.63	920	12	68.2		AC-228
0	510.87*	218	175	1.93	1022.15	1015	17	34.7		TL-208
0	583.02*	604	149	1.45	1166.62	1161	14	11.9		TL-208
0	609.19*	666	162	1.59	1219.01	1211	15	11.5		BI-214
0	727.44	144	95	1.70	1455.76	1450	15	34.0		BI-212
0	794.19	112	58	1.99	1589.39	1584	12	33.0		AC-228
0	860.58	74	67	2.50	1722.30	1716	10	48.3		TL-208
0	910.79*	430	88	1.74	1822.80	1815	16	13.8		AC-228
1	964.17	76	52	1.87	1929.66	1920	28	46.0	7.32E-01	AC-228
1	968.46	291	57	1.85	1938.25	1920	28	15.4		AC-228
0	1119.76*	148	54	1.64	2241.12	2234	16	27.8		BI-214
0	1376.51	56	16	1.27	2755.05	2749	10	38.6		BI-214
0	1459.92*	616	22	2.34	2922.00	2913	22	9.1		K-40
0	1763.41*	121	11	0.88	3529.42	3522	14	22.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.97	153	290	0.99	179.39	177	13	1.42E-02	34.8	2.33E+00	
2	92.97	213	533	1.11	185.39	177	13	1.97E-02	40.8	2.43E+00	T
0	185.96	279	608	1.17	371.60	368	9	2.59E-02	34.9	3.03E+00	
2	241.02	182	350	1.29	481.84	472	18	1.69E-02	51.0	2.64E+00	
1	299.65	84	181	1.35	599.25	596	8	7.76E-03	57.9	2.26E+00	
0	327.85	99	273	1.12	655.72	651	10	9.19E-03	65.4	2.11E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.402E+00	3.873E-01	1.515E-01	1.034E-02	22.461
TL-208	2.237E-01	3.488E-02	1.802E-02	1.808E-03	12.416
BI-212	4.499E-01	1.591E-01	1.450E-01	1.395E-02	3.102
PB-212	6.239E-01	6.148E-02	3.115E-02	2.404E-03	20.030
BI-214	4.670E-01	7.161E-02	3.284E-02	3.345E-03	14.220
PB-214	4.733E-01	5.845E-02	3.744E-02	2.955E-03	12.640
RA-223	2.050E-01	9.464E-02	9.685E-02	8.912E-03	2.116
AC-228	7.131E-01	1.063E-01	6.389E-02	3.531E-03	11.162
NP-237	3.101E-01	1.457E-01	1.680E-01	2.430E-02	1.845
AM-243	1.112E-01	3.848E-02	3.699E-02	7.760E-03	3.006

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-7.563E-04		1.018E-02	1.764E-02	1.076E-03	-0.043
RH-101	-2.158E-03		1.161E-02	1.916E-02	2.972E-03	-0.113
SB-125	-1.903E-02		2.923E-02	4.830E-02	3.961E-03	-0.394
CS-137	9.888E-03		1.213E-02	2.240E-02	2.407E-03	0.441
EU-155	5.265E-03		4.301E-02	7.319E-02	7.267E-03	0.072
PO-209	-1.034E+00		2.248E+00	3.789E+00	6.782E-01	-0.273
BI-211	-2.602E-01		3.257E-01	5.383E-01	3.922E-02	-0.483
PA-233	4.657E-03		2.001E-02	3.517E-02	2.953E-03	0.132
PA-234M	1.039E+00		1.221E+00	2.308E+00	1.327E-01	0.450
TH-234	6.777E-01	+	2.876E-01	4.225E-01	4.930E-02	1.604
U-235	5.626E-02		7.527E-02	1.283E-01	8.954E-03	0.439
NP-236	1.583E-02		2.526E-02	4.348E-02	4.776E-03	0.364
NP-239	-1.155E-02		7.596E-02	1.234E-01	1.665E-02	-0.094
AM-241	1.954E-02		6.793E-02	1.192E-01	9.478E-03	0.164
CM-243	-1.252E-02		3.832E-02	6.431E-02	7.328E-03	-0.195
AM-246	-2.438E-02		3.516E-02	5.715E-02	7.034E-03	-0.427
CF-249	1.373E-02		1.276E-02	2.305E-02	2.223E-03	0.596

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:56:46

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784405_GAMMA3_400MLSAN_15986.CNF

---- Sample Information ----

Sample ID	: OH207-7844-05
Sample Title	: SB-CZ-SS-2004-SD
Sample Quantity	: 4.59300E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15986

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 17:16:44
Decay time	: 39 17:16:44.46	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

Sample ID : OH207-7844-05 Acquisition date : 24-SEP-2007 17:16:44

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.42*	135	701	1.45	140.88	136	11	82.0		TH-234
1	74.87	487	728	1.44	166.28	159	19	23.2	1.37E+00	AM-243
										PB-214
										PB-212
1	77.14*	845	609	1.38	171.29	159	19	13.2		PB-214
										PB-212
0	87.82	129	835	1.32	194.98	188	10	85.8		NP-237
										PB-214
										PB-212
0	92.92*	96	655	1.48	206.28	202	9	108.9		TH-234
0	128.83	132	367	1.80	285.87	282	8	53.1		AC-228
0	185.58*	232	431	1.47	411.65	407	12	39.7		
0	209.13	114	408	1.45	463.86	458	12	71.9		AC-228
0	238.52*	1011	490	1.51	529.01	524	10	10.3		PB-212
0	242.05	151	333	1.54	536.84	533	9	48.7		PB-214
0	270.28	150	223	2.09	599.40	594	12	43.1		RA-223
										AC-228
1	295.26	305	181	1.51	654.76	649	23	20.2	1.22E+00	PB-214
1	300.17	76	256	1.74	665.65	649	23	84.1		PB-212
0	338.31	264	224	1.62	750.19	743	14	27.0		AC-228
0	351.82*	426	221	1.31	780.14	773	15	18.2		PB-214
0	510.87*	201	144	2.74	1132.67	1123	24	37.8		TL-208
0	583.11*	301	180	1.63	1292.77	1286	17	24.5		TL-208
0	609.15*	383	112	1.86	1350.48	1343	16	16.1		BI-214
0	661.32	56	75	1.09	1466.11	1462	11	64.3		CS-137
0	726.78*	83	77	1.75	1611.19	1604	14	50.7		BI-212
0	839.75	21	28	0.91	1861.57	1857	8	99.2		
0	860.02	46	63	2.72	1906.49	1900	13	76.3		TL-208
0	910.83*	294	34	1.90	2019.09	2012	15	14.8		AC-228
0	969.57*	73	128	1.70	2149.27	2139	14	70.0		AC-228
0	1119.89*	77	48	1.69	2482.40	2476	16	47.3		BI-214
0	1460.37*	322	71	2.14	3236.92	3227	23	17.8		K-40
0	1763.84*	57	0	1.62	3909.38	3902	13	29.3		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	185.58	232	431	1.47	411.65	407	12	2.15E-02	39.7	2.82E+00	
0	839.75	21	28	0.91	1861.57	1857	8	1.91E-03	99.2	8.59E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.949E+00	5.523E-01	1.948E-01	1.146E-02	15.138
CS-137	3.441E-02	2.226E-02	2.800E-02	2.016E-03	1.229
TL-208	1.656E-01	4.264E-02	2.818E-02	2.243E-03	5.874
BI-212	3.944E-01	2.020E-01	2.406E-01	1.747E-02	1.639
PB-212	5.296E-01	6.757E-02	4.828E-02	3.609E-03	10.970
BI-214	4.013E-01	7.147E-02	5.197E-02	3.960E-03	7.723
PB-214	3.450E-01	6.864E-02	5.458E-02	4.342E-03	6.321
RA-223	2.714E-01	1.193E-01	1.301E-01	1.152E-02	2.086
AC-228	7.722E-01	1.268E-01	1.027E-01	7.220E-03	7.520
TH-234	2.726E-01	2.979E-01	3.489E-01	3.123E-02	0.781
NP-237	1.593E-01	1.379E-01	1.600E-01	1.784E-02	0.995
AM-243	1.114E-01	3.360E-02	2.737E-02	5.263E-03	4.070

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-6.549E-03		1.724E-02	2.587E-02	1.372E-03	-0.253
RH-101	4.058E-03		1.544E-02	2.625E-02	4.051E-03	0.155
SB-125	-2.912E-02		4.074E-02	6.847E-02	5.660E-03	-0.425
EU-155	7.381E-04		4.405E-02	7.621E-02	7.167E-03	0.010
PO-209	1.928E+00		3.087E+00	5.777E+00	1.064E+00	0.334
BI-211	-2.659E-01		4.488E-01	7.345E-01	5.290E-02	-0.362
PA-233	-2.447E-03		2.939E-02	4.933E-02	4.025E-03	-0.050
PA-234M	8.944E-01		1.912E+00	3.610E+00	2.465E-01	0.248
U-235	1.017E-01		9.824E-02	1.714E-01	1.272E-02	0.593
NP-236	5.874E-04		2.776E-02	4.376E-02	4.176E-03	0.013
NP-239	2.507E-02		1.024E-01	1.752E-01	2.343E-02	0.143
AM-241	2.654E-02		3.439E-02	5.151E-02	3.260E-03	0.515
CM-243	-8.519E-03		3.961E-02	6.808E-02	7.336E-03	-0.125
AM-246	1.988E-02		5.507E-02	1.016E-01	1.283E-02	0.196
CF-249	-4.718E-04		1.800E-02	3.151E-02	3.138E-03	-0.015

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:57:03

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784406_GAMMA2_400MLSAN_15988.CNF

---- Sample Information ----

Sample ID	: OH207-7844-06		
Sample Title	: SB-CZ-SS-2005-SD		
Sample Quantity	: 4.07900E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 15988		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 18:02:36
Decay time	: 39 18:02:36.27	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.96

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.81	290	425	1.09	149.20	143	16	26.6	1.76E+00	AM-243
										PB-214
										PB-212
2	77.10	384	330	1.02	153.75	143	16	18.5		PB-214
										PB-212
1	86.86	108	488	1.11	173.20	169	9	70.7	7.78E+00	NP-237
1	87.67	72	409	1.00	174.80	169	9	94.1		PB-214
										PB-212
4	90.07	133	319	1.28	179.58	177	13	44.8	1.12E+00	
0	185.76*	151	491	1.35	370.14	365	12	62.5		
0	209.08	106	281	1.09	416.59	413	8	57.9		AC-228
2	238.76*	929	218	1.10	475.71	469	19	8.6	9.41E-01	PB-212
2	241.83*	102	212	1.21	481.83	469	19	55.5		PB-214
0	270.39	139	230	1.32	538.72	534	11	45.3		RA-223
										AC-228
0	295.50	203	205	1.12	588.73	584	10	30.0		PB-214
0	300.15	81	164	1.26	598.01	594	9	61.2		PB-212
0	338.47	251	224	1.28	674.35	667	14	28.3		AC-228
0	352.02*	458	127	1.42	701.35	696	11	13.6		PB-214
0	463.11	67	87	2.00	922.75	919	9	55.4		AC-228
0	510.93*	133	143	1.38	1018.09	1011	15	49.1		TL-208
0	583.43*	322	69	1.43	1162.63	1157	10	15.0		TL-208
0	609.49*	253	77	1.52	1214.61	1210	11	19.0		BI-214
0	727.56	101	45	1.82	1450.10	1444	14	34.6		BI-212
0	773.02	35	33	1.34	1540.81	1537	9	66.9		
0	795.53	54	57	1.91	1585.72	1579	15	66.6		AC-228
0	911.07*	203	49	1.49	1816.31	1809	15	21.2		AC-228
0	969.11*	116	54	1.13	1932.18	1927	12	32.0		AC-228
0	1119.99*	47	43	1.62	2233.47	2229	10	61.1		BI-214
0	1459.90*	236	20	1.79	2912.75	2904	15	16.2		K-40
0	1762.81*	58	7	1.65	3518.71	3512	13	34.5		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	90.07	133	319	1.28	179.58	177	13	1.23E-02	44.8	2.61E+00	
0	185.76	151	491	1.35	370.14	365	12	1.40E-02	62.5	3.21E+00	
0	773.02	35	33	1.34	1540.81	1537	9	3.26E-03	66.9	1.08E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.015E+00	3.517E-01	1.784E-01	1.149E-02	11.291
TL-208	1.735E-01	3.176E-02	2.254E-02	2.347E-03	7.698
BI-212	4.650E-01	1.688E-01	1.767E-01	1.932E-02	2.631
PB-212	4.699E-01	5.409E-02	3.648E-02	2.787E-03	12.882
BI-214	2.591E-01	5.654E-02	4.550E-02	4.845E-03	5.694
PB-214	3.603E-01	5.623E-02	4.496E-02	3.448E-03	8.013
RA-223	2.429E-01	1.121E-01	1.100E-01	9.784E-03	2.208
AC-228	5.088E-01	1.164E-01	8.142E-02	7.075E-03	6.250
NP-237	2.154E-01	1.547E-01	2.082E-01	2.616E-02	1.035
AM-243	1.338E-01	4.443E-02	4.120E-02	8.213E-03	3.247

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.650E-04		1.288E-02	2.269E-02	1.320E-03	0.029
RH-101	-8.236E-03		1.363E-02	2.147E-02	3.353E-03	-0.384
SB-125	1.524E-02		3.576E-02	6.310E-02	5.173E-03	0.242
CS-137	1.709E-02		1.548E-02	2.924E-02	3.327E-03	0.585
EU-155	5.279E-02		4.914E-02	8.573E-02	8.027E-03	0.616
PO-209	1.160E+00		2.488E+00	4.623E+00	8.864E-01	0.251
BI-211	-3.378E-01		3.845E-01	6.233E-01	6.102E-02	-0.542
PA-233	-1.010E-02		2.504E-02	4.246E-02	3.420E-03	-0.238
PA-234M	-5.436E-01		1.581E+00	2.713E+00	2.118E-01	-0.200
TH-234	7.260E-01		2.907E-01	4.874E-01	4.875E-02	1.489
U-235	4.445E-02		8.902E-02	1.482E-01	1.082E-02	0.300
NP-236	2.100E-02		2.878E-02	4.903E-02	4.874E-03	0.428
NP-239	-4.764E-02		8.320E-02	1.417E-01	1.913E-02	-0.336
AM-241	3.467E-02		7.376E-02	1.291E-01	8.470E-03	0.269
CM-243	-8.531E-03		4.354E-02	7.280E-02	7.871E-03	-0.117
AM-246	-4.239E-02		4.888E-02	7.687E-02	9.832E-03	-0.551
CF-249	1.207E-02		1.533E-02	2.758E-02	2.642E-03	0.438

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:58:03

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784407_GAMMA1_400MLSAN_15989.CNF

---- Sample Information ----

Sample ID	: OH207-7844-07
Sample Title	: SB-CZ-SS-2006-SD
Sample Quantity	: 4.24700E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15989

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 21:53:16
Decay time	: 39 21:53:16.91	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.86

---- Detector Parameters ----

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

Efficiency Equation:

$$Eff = \exp(a2 + a3*x + a4*x^{**2} + a5*x^{**3} + a6*x^{**4} + a7*x^{**5}$$

where:
x=ln(a1/energy)

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

---- Processing Parameters ----

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

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.99	218	342	1.12	149.39	143	18	32.0	2.27E+00	AM-243
										PB-214
										PB-212
2	77.26*	402	241	0.91	153.94	143	18	15.7		PB-214
										PB-212
0	87.11	130	389	1.40	173.67	171	7	53.2		NP-237
										PB-214
										PB-212
2	90.16	96	333	0.92	179.78	177	15	61.6	1.86E+00	
2	92.97*	109	339	1.15	185.40	177	15	64.8		
0	185.95*	203	365	1.37	371.58	367	10	39.2		
0	209.34	87	320	1.28	418.41	415	9	76.7		AC-228
5	238.71*	1062	158	1.13	477.21	470	18	7.5	2.13E+00	PB-212
5	241.58	287	244	1.88	482.97	470	18	31.8		PB-214
0	270.60*	99	186	1.20	541.07	537	9	55.2		RA-223
										AC-228
0	295.16*	283	255	1.20	590.26	583	13	26.4		PB-214
0	300.50	73	172	1.08	600.95	597	9	69.6		PB-212
0	338.44*	258	153	1.18	676.90	672	11	22.6		AC-228
0	351.92*	467	196	1.36	703.90	697	15	16.2		PB-214
0	463.35	52	116	1.43	927.00	922	11	85.8		AC-228
0	510.76*	126	151	1.44	1021.94	1015	15	52.5		TL-208
0	583.22*	342	105	1.28	1167.00	1160	14	16.9		TL-208
0	609.26*	371	66	1.40	1219.15	1215	10	13.5		BI-214
0	661.63	118	66	1.56	1323.99	1317	12	33.2		CS-137
0	727.28	62	77	1.58	1455.43	1449	14	65.2		BI-212
0	794.82	76	60	1.54	1590.64	1583	17	52.0		AC-228
0	861.04	36	51	1.05	1723.22	1718	11	84.7		TL-208
0	911.24*	261	55	1.80	1823.72	1815	15	17.6		AC-228
0	969.08	136	41	1.19	1939.49	1934	11	25.0		AC-228
0	1120.83*	111	26	1.54	2243.26	2237	15	28.4		BI-214
0	1239.29	39	49	1.59	2480.38	2472	16	91.5		BI-214
0	1353.58	12	11	1.27	2709.17	2702	11	121.6		
0	1378.45	17	8	1.57	2758.94	2752	11	82.8		BI-214
0	1460.57*	403	13	2.26	2923.31	2917	13	10.9		K-40
3	1763.82*	42	20	2.76	3530.24	3524	15	57.4	2.51E+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
2	90.16	96	333	0.92	179.78	177	15	8.89E-03	61.6	2.33E+00	
2	92.97	109	339	1.15	185.40	177	15	1.01E-02	64.8	2.43E+00	T
0	185.95	203	365	1.37	371.58	367	10	1.88E-02	39.2	3.03E+00	
0	1353.58	12	11	1.27	2709.17	2702	11	1.11E-03	****	7.47E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.151E+00	4.063E-01	1.361E-01	9.292E-03	23.142
CS-137	6.733E-02	2.351E-02	2.716E-02	2.919E-03	2.479
TL-208	1.791E-01	3.519E-02	2.322E-02	2.330E-03	7.713
BI-212	2.731E-01	1.800E-01	1.693E-01	1.628E-02	1.613
PB-212	5.435E-01	5.846E-02	3.378E-02	2.607E-03	16.090
BI-214	3.682E-01	6.213E-02	4.396E-02	4.477E-03	8.377
PB-214	3.679E-01	6.614E-02	4.141E-02	3.268E-03	8.884
RA-223	1.736E-01	9.724E-02	1.148E-01	1.056E-02	1.512
AC-228	6.120E-01	1.130E-01	8.370E-02	4.626E-03	7.312
NP-237	2.811E-01	1.548E-01	1.977E-01	2.859E-02	1.422
AM-243	1.127E-01	4.311E-02	4.270E-02	8.958E-03	2.640

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.752E-03		1.312E-02	1.742E-02	1.137E-03	-0.101
RH-101	9.215E-04		1.350E-02	2.276E-02	3.529E-03	0.040
SB-125	3.543E-02		3.563E-02	6.531E-02	5.356E-03	0.542
EU-155	7.566E-02		4.843E-02	8.676E-02	8.614E-03	0.872
PO-209	-4.078E-01		2.510E+00	4.402E+00	7.879E-01	-0.093
BI-211	-1.954E-01		3.365E-01	5.695E-01	4.149E-02	-0.343
PA-233	-3.366E-03		2.246E-02	3.914E-02	3.287E-03	-0.086
PA-234M	6.552E-01		1.459E+00	2.738E+00	1.574E-01	0.239
TH-234	4.926E-01	+	3.245E-01	4.858E-01	5.668E-02	1.014
U-235	-7.448E-02		8.934E-02	1.443E-01	1.008E-02	-0.516
NP-236	7.615E-03		3.141E-02	4.871E-02	5.351E-03	0.156
NP-239	1.199E-02		8.642E-02	1.434E-01	1.934E-02	0.084
AM-241	1.510E-02		7.997E-02	1.409E-01	1.120E-02	0.107
CM-243	2.967E-03		4.447E-02	7.616E-02	8.679E-03	0.039
AM-246	-5.975E-03		4.426E-02	7.716E-02	9.496E-03	-0.077
CF-249	2.177E-03		1.498E-02	2.628E-02	2.535E-03	0.083

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:58:34

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784408_GAMMA2_400MLSAN_15990.CNF

---- Sample Information ----

Sample ID	: OH207-7844-08
Sample Title	: SB-CZ-SS-2007-SD
Sample Quantity	: 5.24200E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15990

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 21:55:01
Decay time	: 39 21:55:01.79	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.87	329	490	1.03	149.32	143	16	23.8	8.98E-01	AM-243
										PB-214
										PB-212
3	77.05	543	531	1.16	153.66	143	16	17.1		PB-214
										PB-212
1	86.86	137	326	1.00	173.20	171	11	40.9	4.40E+00	NP-237
1	87.67	107	559	1.11	174.80	171	11	77.7		PB-214
										PB-212
1	89.88	168	373	1.11	179.20	171	11	38.1		
0	92.82*	327	740	1.63	185.06	182	10	34.0		
0	128.70	86	495	1.23	256.50	253	7	88.5		AC-228
0	186.02*	204	526	1.21	370.65	367	9	44.2		
0	209.05	173	554	1.15	416.53	412	11	54.7		AC-228
5	238.80*	1457	307	1.06	475.77	471	16	6.5	3.18E+00	PB-212
5	241.33*	169	366	1.51	480.83	471	16	60.9		
5	242.11*	186	347	1.49	482.38	471	16	44.8		PB-214
0	270.51	197	402	1.42	538.96	533	13	44.4		RA-223
										AC-228
0	277.32	85	267	0.95	552.53	548	9	72.2		TL-208
0	295.50	470	239	1.41	588.75	584	11	15.8		PB-214
0	300.19	132	209	1.11	598.08	595	8	41.5		PB-212
0	328.49	123	254	1.47	654.46	649	12	54.7		
0	338.53	320	278	1.32	674.47	669	11	23.1		AC-228
0	352.14*	726	254	1.23	701.60	695	13	11.8		PB-214
0	463.15	114	173	1.50	922.83	916	12	50.0		AC-228
0	510.98*	204	164	2.23	1018.17	1010	16	34.9		TL-208
0	583.32*	495	115	1.39	1162.42	1157	12	12.7		TL-208
0	609.50*	430	120	1.55	1214.63	1209	12	14.3		BI-214
0	727.95	83	116	0.96	1450.89	1444	12	56.7		BI-212
1	768.49*	70	63	1.80	1531.76	1527	20	45.8	2.31E+00	BI-214
1	772.28	45	67	1.81	1539.33	1527	20	78.7		
0	795.34	83	72	1.33	1585.33	1578	15	49.4		AC-228
0	861.04	73	66	2.18	1716.44	1709	12	50.1		TL-208
0	911.27*	336	108	1.58	1816.71	1809	17	18.1		AC-228
1	964.69	75	46	1.93	1923.35	1916	31	45.1	1.99E+00	AC-228
1	968.87*	251	40	1.93	1931.69	1916	31	16.0		AC-228
0	1119.93*	110	46	1.73	2233.34	2227	13	32.2		BI-214
0	1239.62	66	97	6.44	2472.45	2461	23	82.1		BI-214
0	1376.08*	45	22	1.96	2745.18	2738	13	53.8		BI-214
0	1459.84*	838	37	2.03	2912.65	2904	20	8.0		K-40
0	1544.96	15	11	2.67	3082.87	3075	12	105.0		
0	1762.74*	92	3	2.21	3518.57	3512	13	23.8		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.88	168	373	1.11	179.20	171	11	1.55E-02	38.1	2.60E+00	
0	92.82	327	740	1.63	185.06	182	10	3.03E-02	34.0	2.71E+00	T
0	186.02	204	526	1.21	370.65	367	9	1.89E-02	44.2	3.21E+00	
5	241.33	169	366	1.51	480.83	471	16	1.57E-02	60.9	2.78E+00	
0	328.49	123	254	1.47	654.46	649	12	1.14E-02	54.7	2.20E+00	
1	772.28	45	67	1.81	1539.33	1527	20	4.12E-03	78.7	1.08E+00	
0	1544.96	15	11	2.67	3082.87	3075	12	1.39E-03	****	6.47E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.563E+00	5.699E-01	1.687E-01	1.086E-02	32.968
TL-208	2.072E-01	3.406E-02	2.101E-02	2.188E-03	9.860
BI-212	2.968E-01	1.713E-01	1.505E-01	1.645E-02	1.973
PB-212	5.736E-01	5.773E-02	3.450E-02	2.636E-03	16.627
BI-214	3.425E-01	6.114E-02	4.319E-02	4.599E-03	7.931
PB-214	4.440E-01	6.257E-02	4.004E-02	3.070E-03	11.090
RA-223	2.673E-01	1.211E-01	1.034E-01	9.199E-03	2.585
AC-228	6.542E-01	1.312E-01	8.211E-02	7.135E-03	7.967
NP-237	2.126E-01	9.094E-02	1.797E-01	2.258E-02	1.183
AM-243	1.183E-01	3.675E-02	3.867E-02	7.708E-03	3.060

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.664E-03		1.345E-02	2.062E-02	1.200E-03	-0.081
RH-101	1.071E-02		1.318E-02	2.181E-02	3.406E-03	0.491
SB-125	-1.154E-02		3.316E-02	5.533E-02	4.536E-03	-0.209
CS-137	5.748E-04		1.403E-02	2.475E-02	2.815E-03	0.023
EU-155	1.549E-02		4.667E-02	7.888E-02	7.385E-03	0.196
PO-209	1.453E+00		2.463E+00	4.489E+00	8.607E-01	0.324
BI-211	-2.263E-01		3.450E-01	5.724E-01	5.603E-02	-0.395
PA-233	7.469E-03		2.209E-02	3.865E-02	3.113E-03	0.193
PA-234M	6.356E-01		1.490E+00	2.696E+00	2.104E-01	0.236
TH-234	1.069E+00	+	3.792E-01	4.608E-01	4.609E-02	2.320
U-235	4.090E-02		8.144E-02	1.351E-01	9.862E-03	0.303
NP-236	8.621E-03		3.010E-02	4.536E-02	4.509E-03	0.190
NP-239	-1.208E-02		8.110E-02	1.402E-01	1.892E-02	-0.086
AM-241	-4.872E-02		6.659E-02	1.112E-01	7.294E-03	-0.438
CM-243	1.302E-02		4.232E-02	7.155E-02	7.736E-03	0.182
AM-246	-1.669E-02		4.234E-02	7.075E-02	9.050E-03	-0.236
CF-249	8.262E-03		1.481E-02	2.592E-02	2.483E-03	0.319

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:58:58

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784409_GAMMA3_400MLSAN_15991.CNF

---- Sample Information ----

Sample ID	: OH207-7844-09
Sample Title	: SB-CZ-SS-2008-SD
Sample Quantity	: 4.73100E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15991

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 24-SEP-2007 21:56:16
Decay time	: 39 21:56:16.08	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.80

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.17*	187	550	1.28	140.33	136	12	55.0		TH-234
3	74.82	427	788	1.75	166.15	160	25	29.5	1.32E+00	AM-243
										PB-214
										PB-212
3	77.14*	660	509	1.17	171.31	160	25	15.0		PB-214
										PB-212
2	87.20	147	564	1.24	193.61	184	14	57.4	1.08E+00	NP-237
										PB-214
										PB-212
0	92.92*	168	661	1.39	206.28	202	10	65.2		TH-234
0	185.71*	222	424	1.66	411.94	404	13	42.3		
0	209.52	120	348	1.22	464.72	459	11	62.9		AC-228
4	238.57*	1069	246	1.45	529.13	522	26	8.4	1.51E+00	PB-212
4	241.54	265	319	2.24	535.70	522	26	40.8		PB-214
0	270.10	93	232	1.76	599.01	593	12	68.9		RA-223
										AC-228
0	295.25	249	204	1.21	654.75	650	11	25.6		PB-214
0	328.46	81	207	1.31	728.36	721	14	78.1		
0	338.19	181	234	1.51	749.92	745	12	36.9		AC-228
0	351.87*	428	180	1.69	780.24	773	15	17.0		PB-214
0	464.43	66	167	2.71	1029.72	1018	16	92.0		AC-228
0	510.81*	149	199	2.35	1132.53	1124	20	53.5		TL-208
0	583.20*	336	118	1.68	1292.96	1285	17	19.0		TL-208
0	609.14*	304	105	1.61	1350.46	1343	15	19.1		BI-214
0	661.51	55	82	1.96	1466.53	1460	13	73.1		CS-137
0	910.93*	237	46	1.60	2019.31	2010	16	18.5		AC-228
1	964.28	50	48	2.21	2137.55	2129	27	69.0	1.64E+00	AC-228
1	968.36*	109	54	2.22	2146.59	2129	27	36.4		AC-228
0	1119.62*	77	34	1.88	2481.81	2473	15	41.2		BI-214
0	1459.96*	357	18	2.85	3236.02	3228	17	12.2		K-40
0	1763.44*	69	8	2.27	3908.49	3900	16	32.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.71	222	424	1.66	411.94	404	13	2.06E-02	42.3	2.82E+00	
0	328.46	81	207	1.31	728.36	721	14	7.54E-03	78.1	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.174E+00	4.309E-01	2.194E-01	1.291E-02	14.468
CS-137	3.252E-02	2.387E-02	2.943E-02	2.119E-03	1.105
TL-208	1.798E-01	3.705E-02	2.676E-02	2.130E-03	6.720
PB-212	5.435E-01	6.129E-02	3.984E-02	2.978E-03	13.640
BI-214	3.099E-01	6.361E-02	4.852E-02	3.697E-03	6.386
PB-214	3.358E-01	6.296E-02	4.915E-02	3.910E-03	6.833
RA-223	1.631E-01	1.133E-01	1.239E-01	1.097E-02	1.317
AC-228	6.044E-01	1.196E-01	8.317E-02	5.848E-03	7.267
TH-234	4.633E-01	3.050E-01	3.426E-01	2.280E-02	1.352
NP-237	1.760E-01	1.029E-01	1.600E-01	1.783E-02	1.100
AM-243	9.481E-02	3.336E-02	2.553E-02	4.909E-03	3.714

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.183E-02		1.471E-02	2.617E-02	1.388E-03	0.452
RH-101	1.494E-04		1.470E-02	2.480E-02	3.827E-03	0.006
SB-125	8.476E-03		3.787E-02	6.734E-02	5.567E-03	0.126
EU-155	-2.412E-02		4.249E-02	7.213E-02	6.783E-03	-0.334
PO-209	9.173E-01		2.691E+00	5.004E+00	9.219E-01	0.183
BI-211	-3.137E-01		4.720E-01	7.664E-01	5.519E-02	-0.409
BI-212	2.877E-01		1.480E-01	2.804E-01	2.035E-02	1.026
PA-233	1.646E-02		2.660E-02	4.636E-02	3.783E-03	0.355
PA-234M	-5.889E-01		1.749E+00	3.119E+00	2.130E-01	-0.189
U-235	-2.988E-02		9.113E-02	1.532E-01	1.137E-02	-0.195
NP-236	-1.927E-03		2.647E-02	3.987E-02	3.805E-03	-0.048
NP-239	-3.022E-02		9.661E-02	1.617E-01	2.163E-02	-0.187
AM-241	3.026E-02		3.010E-02	4.583E-02	2.900E-03	0.660
CM-243	1.150E-02		3.832E-02	6.689E-02	7.208E-03	0.172
AM-246	2.678E-02		4.927E-02	9.316E-02	1.176E-02	0.287
CF-249	9.788E-03		1.692E-02	3.051E-02	3.039E-03	0.321

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:59:19

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784410_GAMMA3_400MLSAN_15994.CNF

---- Sample Information ----

Sample ID : OH207-7844-10
Sample Title : SB-CZ-SS-2008-SD 2009 10/17/2007
Sample Quantity : 5.09400E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 15994

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

Collection Date : 16-AUG-2007 00:00:00 Acquisition date : 25-SEP-2007 09:41:53
Decay time : 40 09:41:53.43 % 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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 Mead Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.28*	118	657	1.43	140.58	136	10	88.1		TH-234
1	74.88	531	716	1.44	166.29	159	18	21.6	1.85E+00	AM-243
										PB-214
										PB-212
1	77.11*	707	605	1.19	171.24	159	18	14.8		PB-214
										PB-212
1	87.06	260	574	1.47	193.30	189	23	33.3	7.65E-01	NP-237
										PB-214
										PB-212
1	90.01	158	665	1.47	199.82	189	23	64.6		
1	92.83*	254	611	1.48	206.09	189	23	43.5		TH-234
0	186.04*	241	617	1.62	412.67	406	16	49.7		
0	209.87	77	392	1.26	465.51	459	10	99.0		AC-228
1	238.57*	1225	299	1.37	529.12	524	18	7.8	1.45E+00	PB-212
1	241.66	262	304	1.66	535.97	524	18	34.6		PB-214
0	269.54	74	303	0.69	597.75	593	12	97.3		RA-223
										AC-228
0	276.91	115	273	1.40	614.10	607	13	62.1		TL-208
0	295.07	323	274	1.26	654.35	649	11	22.6		PB-214
0	338.34	218	287	1.25	750.25	743	14	35.7		AC-228
0	351.84*	613	288	1.55	780.17	771	18	15.4		PB-214
0	510.67*	146	236	2.17	1132.23	1123	22	60.2		TL-208
0	582.75*	356	154	1.87	1291.98	1285	16	19.2		TL-208
0	609.15*	409	133	1.70	1350.48	1341	17	16.5		BI-214
0	662.43	82	165	1.76	1468.57	1462	19	77.5		CS-137
0	726.92*	76	98	0.78	1611.50	1604	14	60.6		BI-212
0	859.55	92	73	2.98	1905.44	1896	22	51.1		TL-208
0	910.51*	274	62	1.77	2018.39	2007	19	18.6		AC-228
3	963.93	63	49	1.97	2136.78	2132	28	40.7	3.04E+00	AC-228
3	968.58*	138	48	1.98	2147.07	2132	28	27.9		AC-228
0	1119.73*	88	74	2.11	2482.04	2470	18	51.5		BI-214
0	1237.82	45	33	0.99	2743.75	2738	12	59.4		BI-214
0	1377.28	38	19	1.04	3052.79	3044	15	58.7		BI-214
0	1460.02*	506	18	2.39	3236.15	3224	23	10.1		K-40
0	1481.33	16	2	3.41	3283.37	3278	11	65.0		
0	1508.95*	13	2	1.17	3344.56	3341	8	77.0		BI-214
0	1763.58*	72	9	0.65	3908.80	3900	18	32.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	90.01	158	665	1.47	199.82	189	23	1.46E-02	64.6	3.55E+00	
0	186.04	241	617	1.62	412.67	406	16	2.23E-02	49.7	2.81E+00	
0	1481.33	16	2	3.41	3283.37	3278	11	1.44E-03	65.0	5.52E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.180E+00	4.884E-01	1.757E-01	1.034E-02	23.796
CS-137	4.529E-02	3.524E-02	2.906E-02	2.092E-03	1.559
TL-208	1.767E-01	3.665E-02	2.552E-02	2.031E-03	6.923
BI-212	3.256E-01	1.988E-01	2.255E-01	1.637E-02	1.444
PB-212	5.782E-01	6.240E-02	4.194E-02	3.135E-03	13.788
BI-214	3.871E-01	7.034E-02	4.575E-02	3.486E-03	8.462
PB-214	4.474E-01	7.756E-02	4.868E-02	3.873E-03	9.191
RA-223	1.199E-01	1.172E-01	1.273E-01	1.127E-02	0.942
AC-228	6.500E-01	1.293E-01	9.601E-02	6.751E-03	6.770
TH-234	6.492E-01	2.883E-01	3.133E-01	2.805E-02	2.072
NP-237	2.904E-01	1.019E-01	1.471E-01	1.640E-02	1.974
AM-243	1.094E-01	3.166E-02	2.565E-02	4.933E-03	4.264

---- 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		1.490E-02	2.310E-02	1.225E-03	0.122
RH-101	3.473E-03		1.472E-02	2.496E-02	3.853E-03	0.139
SB-125	-9.217E-03		3.991E-02	6.887E-02	5.694E-03	-0.134
EU-155	4.309E-02		4.245E-02	7.503E-02	7.055E-03	0.574
PO-209	-7.522E-01		2.819E+00	4.939E+00	9.100E-01	-0.152
BI-211	-1.175E-01		4.242E-01	7.138E-01	5.140E-02	-0.165
PA-233	5.655E-04		2.711E-02	4.569E-02	3.729E-03	0.012
PA-234M	1.166E+00		1.675E+00	3.228E+00	2.204E-01	0.361
U-235	2.405E-02		8.919E-02	1.526E-01	1.133E-02	0.158
NP-236	1.612E-02		2.582E-02	3.990E-02	3.808E-03	0.404
NP-239	1.916E-02		9.685E-02	1.651E-01	2.208E-02	0.116
AM-241	3.552E-02		3.024E-02	4.609E-02	2.916E-03	0.771
CM-243	8.902E-03		3.817E-02	6.636E-02	7.151E-03	0.134
AM-246	1.396E-02		5.310E-02	9.656E-02	1.219E-02	0.145
CF-249	4.855E-03		1.699E-02	3.012E-02	3.000E-03	0.161

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:01:06

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784411_GAMMA3_400MLSAN_15999.CNF

---- Sample Information ----

Sample ID	: OH207-7844-11
Sample Title	: SB-CZ-SS-2010-SD
Sample Quantity	: 5.49700E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 15999

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 25-SEP-2007 12:45:13
Decay time	: 40 12:45:13.28	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

Sample ID : OH207-7844-11 Acquisition date : 25-SEP-2007 12:45:13

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.49*	104	589	1.35	141.05	137	9	92.9		TH-234
3	74.89	563	764	1.45	166.30	159	17	20.8	7.36E-01	AM-243
										PB-214
										PB-212
3	77.15*	751	674	1.28	171.32	159	17	15.3		PB-214
										PB-212
2	87.23	310	742	1.45	193.66	181	32	34.7	3.12E+00	NP-237
										PB-214
										PB-212
2	89.92	178	713	1.57	199.62	181	32	60.5		
2	92.76*	260	731	1.63	205.93	181	32	46.8		TH-234
0	129.05	67	492	1.29	286.36	283	8	118.7		AC-228
0	185.71*	210	617	1.22	411.96	406	13	52.1		
0	209.40	178	459	1.18	464.46	459	12	50.7		AC-228
6	238.54*	1345	298	1.39	529.05	521	22	7.3	2.21E+00	PB-212
6	241.21	410	449	2.71	534.98	521	22	31.7		PB-214
0	269.65	79	431	1.50	598.01	589	15	117.2		RA-223
										AC-228
0	295.25	311	319	1.53	654.74	647	13	26.3		PB-214
0	338.31	367	246	1.70	750.19	744	14	20.9		AC-228
0	351.88*	574	232	1.63	780.27	775	11	13.4		PB-214
0	463.21	89	186	2.56	1027.01	1019	15	70.6		AC-228
0	510.49*	225	144	2.13	1131.81	1122	18	31.4		TL-208
0	582.95*	441	153	1.47	1292.42	1283	17	16.3		TL-208
0	609.00*	406	185	1.51	1350.15	1343	16	18.2		BI-214
0	662.84	72	153	4.92	1469.47	1458	20	87.9		CS-137
0	726.94*	136	110	1.72	1611.55	1601	20	41.7		BI-212
0	860.38	70	62	1.80	1907.27	1898	17	57.1		TL-208
0	910.87*	313	63	1.78	2019.18	2012	18	16.9		AC-228
1	964.28	64	69	2.21	2137.55	2130	27	64.3	2.62E+00	AC-228
1	968.34*	134	72	2.22	2146.55	2130	27	33.6		AC-228
0	1119.40*	108	60	1.91	2481.32	2472	17	38.4		BI-214
0	1460.10*	667	23	2.25	3236.31	3224	21	8.6		K-40
0	1763.68*	81	10	2.74	3909.02	3902	19	30.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.92	178	713	1.57	199.62	181	32	1.65E-02	60.5	3.55E+00	
0	185.71	210	617	1.22	411.96	406	13	1.95E-02	52.1	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.105E+00	5.335E-01	1.742E-01	1.025E-02	29.310
CS-137	3.672E-02	3.240E-02	2.691E-02	1.937E-03	1.365
TL-208	2.029E-01	3.676E-02	2.541E-02	2.023E-03	7.985
BI-212	5.419E-01	2.296E-01	1.800E-01	1.306E-02	3.010
PB-212	5.886E-01	6.169E-02	3.886E-02	2.905E-03	15.147
BI-214	3.555E-01	7.017E-02	4.912E-02	3.743E-03	7.236
PB-214	3.882E-01	6.053E-02	5.080E-02	4.041E-03	7.643
RA-223	1.187E-01	1.395E-01	1.200E-01	1.062E-02	0.989
AC-228	6.872E-01	1.259E-01	9.015E-02	6.339E-03	7.623
TH-234	6.171E-01	2.939E-01	2.833E-01	2.537E-02	2.178
NP-237	3.202E-01	1.168E-01	1.231E-01	1.372E-02	2.601
AM-243	1.075E-01	3.044E-02	2.370E-02	4.557E-03	4.537

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	7.062E-04		1.664E-02	2.336E-02	1.239E-03	0.030
RH-101	-3.993E-03		1.409E-02	2.347E-02	3.623E-03	-0.170
SB-125	7.550E-03		3.695E-02	6.517E-02	5.387E-03	0.116
EU-155	1.583E-02		4.189E-02	7.288E-02	6.853E-03	0.217
PO-209	-4.250E-01		2.555E+00	4.523E+00	8.334E-01	-0.094
BI-211	2.275E-01		4.304E-01	7.655E-01	5.513E-02	0.297
PA-233	1.683E-02		2.640E-02	4.561E-02	3.722E-03	0.369
PA-234M	5.957E-01		1.634E+00	3.053E+00	2.084E-01	0.195
U-235	-2.066E-02		8.645E-02	1.457E-01	1.082E-02	-0.142
NP-236	9.692E-03		2.736E-02	3.958E-02	3.777E-03	0.245
NP-239	5.397E-02		9.774E-02	1.677E-01	2.243E-02	0.322
AM-241	4.197E-02		2.877E-02	4.421E-02	2.798E-03	0.949
CM-243	1.158E-02		3.763E-02	6.541E-02	7.048E-03	0.177
AM-246	-9.441E-03		5.176E-02	9.035E-02	1.141E-02	-0.104
CF-249	-8.609E-03		1.619E-02	2.757E-02	2.746E-03	-0.312

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:01:27

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784412_GAMMA3_400MLSAN_16006.CNF

---- Sample Information ----

Sample ID	: OH207-7844-12
Sample Title	: SB-CZ-SS-2011-SD
Sample Quantity	: 4.51900E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16006

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 25-SEP-2007 15:49:01
Decay time	: 40 15:49:01.51	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.24*	132	673	1.37	140.48	135	12	84.5		TH-234
1	74.85	486	717	1.39	166.23	160	17	21.9	2.44E+00	AM-243
										PB-214
										PB-212
1	77.14*	614	557	1.19	171.29	160	17	16.8		PB-214
										PB-212
0	87.09	195	608	1.24	193.35	190	8	46.0		NP-237
										PB-214
										PB-212
0	92.90*	174	632	1.84	206.23	202	10	62.1		TH-234
0	186.03*	274	475	2.04	412.66	406	15	38.2		
0	209.20	155	327	1.51	464.02	459	10	46.4		AC-228
4	238.57*	1243	267	1.39	529.11	519	28	7.6	1.49E+00	PB-212
4	241.51	304	448	2.24	535.62	519	28	39.2		PB-214
0	270.03	126	233	1.70	598.85	595	10	48.7		RA-223
										AC-228
0	295.23	270	303	1.16	654.71	648	13	29.4		PB-214
0	327.84	71	191	1.16	726.99	723	10	76.0		
0	338.12	246	308	1.72	749.78	741	16	34.4		AC-228
0	351.86*	559	200	1.61	780.23	773	15	13.9		PB-214
0	463.14	141	121	2.13	1026.87	1019	17	39.4		AC-228
0	510.39*	147	161	1.61	1131.60	1123	17	47.6		TL-208
0	582.66*	388	185	1.60	1291.77	1282	20	20.2		TL-208
0	609.05*	346	77	1.60	1350.27	1345	13	15.3		BI-214
0	661.32	119	65	1.49	1466.11	1461	10	31.3		CS-137
0	726.80*	92	63	1.90	1611.23	1605	14	43.4		BI-212
0	795.52	69	82	1.14	1763.53	1754	19	68.5		AC-228
0	860.13	38	40	0.79	1906.73	1903	8	63.0		TL-208
0	910.77*	282	64	1.76	2018.96	2009	18	18.1		AC-228
0	968.82*	148	68	1.85	2147.60	2142	16	31.3		AC-228
0	1119.87*	82	45	2.33	2482.35	2475	15	42.9		BI-214
0	1460.16*	456	20	2.44	3236.45	3226	20	10.8		K-40
0	1763.31*	73	0	2.52	3908.20	3899	20	25.3		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	186.03	274	475	2.04	412.66	406	15	2.54E-02	38.2	2.81E+00	
0	327.84	71	191	1.16	726.99	723	10	6.61E-03	76.0	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.247E+00	5.222E-01	2.815E-01	1.657E-02	15.085
CS-137	7.376E-02	2.372E-02	3.162E-02	2.276E-03	2.333
TL-208	2.175E-01	4.726E-02	2.950E-02	2.348E-03	7.373
BI-212	4.460E-01	1.961E-01	1.939E-01	1.407E-02	2.300
PB-212	6.616E-01	7.036E-02	4.345E-02	3.248E-03	15.226
BI-214	3.687E-01	6.317E-02	5.640E-02	4.297E-03	6.537
PB-214	4.594E-01	7.362E-02	5.518E-02	4.390E-03	8.326
RA-223	2.304E-01	1.140E-01	1.399E-01	1.238E-02	1.647
AC-228	7.537E-01	1.462E-01	1.057E-01	7.430E-03	7.132
TH-234	5.015E-01	3.147E-01	3.780E-01	2.516E-02	1.327
NP-237	2.450E-01	1.161E-01	1.580E-01	1.761E-02	1.550
AM-243	1.129E-01	3.293E-02	2.781E-02	5.349E-03	4.057

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.993E-03		1.735E-02	3.192E-02	1.943E-03	0.219
RH-101	3.150E-03		1.629E-02	2.760E-02	4.261E-03	0.114
SB-125	-1.102E-02		4.112E-02	7.102E-02	5.871E-03	-0.155
EU-155	3.144E-02		4.590E-02	8.075E-02	7.593E-03	0.389
PO-209	1.091E+00		3.236E+00	5.935E+00	1.094E+00	0.184
BI-211	-1.694E-02		5.271E-01	9.005E-01	6.485E-02	-0.019
PA-233	-1.334E-03		3.121E-02	5.242E-02	4.277E-03	-0.025
PA-234M	8.871E-01		2.032E+00	3.805E+00	2.598E-01	0.233
U-235	-5.631E-02		9.758E-02	1.627E-01	1.207E-02	-0.346
NP-236	1.204E-02		2.995E-02	4.585E-02	4.376E-03	0.263
NP-239	7.587E-02		1.052E-01	1.824E-01	2.440E-02	0.416
AM-241	4.894E-02		3.251E-02	5.036E-02	3.187E-03	0.972
CM-243	1.909E-02		4.237E-02	7.408E-02	7.982E-03	0.258
AM-246	4.341E-03		5.369E-02	9.707E-02	1.225E-02	0.045
CF-249	-3.530E-03		1.751E-02	3.044E-02	3.032E-03	-0.116

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:02:08

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784413_GAMMA3_400MLSAN_16013.CNF

---- Sample Information ----

Sample ID	: OH207-7844-13		
Sample Title	: SB-CZ-SS-2012-SD		
Sample Quantity	: 4.93800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16013		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 25-SEP-2007 20:47:20
Decay time	: 40 20:47:20.70	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.81

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.82	414	594	1.40	166.15	161	19	23.2	2.41E+00	AM-243
										PB-214
										PB-212
2	77.18*	653	668	1.59	171.39	161	19	18.2		PB-214
										PB-212
2	87.13	229	570	1.58	193.45	183	37	41.4	2.70E+00	NP-237
										PB-214
										PB-212
2	89.95	150	566	1.47	199.70	183	37	63.5		
0	185.92*	228	413	1.74	412.41	407	12	39.9		
0	209.29	87	328	1.39	464.21	460	10	81.1		AC-228
3	238.56*	1211	214	1.67	529.09	521	25	7.6	3.00E+00	PB-212
3	241.64	240	277	2.03	535.92	521	25	40.4		PB-214
0	270.94	158	330	1.68	600.87	594	16	54.2		RA-223
										AC-228
0	294.98	291	293	1.52	654.15	646	15	28.3		PB-214
0	338.40	208	252	1.31	750.40	742	13	34.3		AC-228
0	351.84*	472	237	1.38	780.18	773	15	17.1		PB-214
0	510.52*	78	140	2.49	1131.89	1125	15	80.5		TL-208
0	582.94*	376	70	1.98	1292.38	1286	14	14.4		TL-208
0	609.02*	288	110	1.35	1350.20	1344	14	19.8		BI-214
0	661.18	121	72	1.38	1465.79	1459	13	32.9		CS-137
0	727.07*	79	76	1.78	1611.83	1606	14	53.0		BI-212
0	910.81*	235	75	2.04	2019.05	2010	18	21.7		AC-228
4	964.05	75	22	2.43	2137.04	2131	26	36.6	1.55E+00	AC-228
4	968.35*	146	45	2.34	2146.57	2131	26	26.6		AC-228
0	1120.00*	55	58	1.90	2482.65	2476	19	73.9		BI-214
0	1237.21	43	22	1.45	2742.39	2733	15	57.4		BI-214
0	1460.10*	393	36	2.43	3236.31	3227	18	12.7		K-40
2	1763.20*	23	7	2.33	3907.95	3904	11	73.0	3.31E+00	
2	1764.23*	24	6	1.91	3910.23	3904	11	75.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.95	150	566	1.47	199.70	183	37	1.39E-02	63.5	3.55E+00	
0	185.92	228	413	1.74	412.41	407	12	2.11E-02	39.9	2.82E+00	
2	1763.20	23	7	2.33	3907.95	3904	11	2.16E-03	73.0	4.90E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.353E+00	4.683E-01	1.939E-01	1.141E-02	17.292
CS-137	6.866E-02	2.309E-02	2.998E-02	2.158E-03	2.290
TL-208	1.926E-01	3.171E-02	2.457E-02	1.955E-03	7.840
BI-212	3.490E-01	1.867E-01	1.992E-01	1.446E-02	1.752
PB-212	5.897E-01	6.304E-02	3.789E-02	2.832E-03	15.564
BI-214	2.810E-01	5.971E-02	4.719E-02	3.596E-03	5.954
PB-214	3.553E-01	6.700E-02	4.679E-02	3.723E-03	7.593
RA-223	2.651E-01	1.456E-01	1.280E-01	1.133E-02	2.071
AC-228	5.760E-01	1.316E-01	1.010E-01	7.102E-03	5.702
NP-237	2.635E-01	1.129E-01	1.287E-01	1.435E-02	2.046
AM-243	8.814E-02	2.653E-02	2.485E-02	4.778E-03	3.547

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	5.551E-03		1.595E-02	2.279E-02	1.209E-03	0.244
RH-101	-5.659E-03		1.464E-02	2.429E-02	3.749E-03	-0.233
SB-125	3.722E-03		3.908E-02	6.874E-02	5.682E-03	0.054
EU-155	4.466E-02		4.115E-02	7.307E-02	6.871E-03	0.611
PO-209	-9.636E-01		2.915E+00	5.076E+00	9.352E-01	-0.190
BI-211	-3.033E-01		4.361E-01	7.062E-01	5.086E-02	-0.429
PA-233	-8.591E-04		2.719E-02	4.577E-02	3.735E-03	-0.019
PA-234M	2.231E+00		1.785E+00	3.546E+00	2.421E-01	0.629
TH-234	5.000E-01		2.359E-01	4.103E-01	3.674E-02	1.219
U-235	4.121E-02		9.080E-02	1.562E-01	1.159E-02	0.264
NP-236	5.633E-03		2.738E-02	3.954E-02	3.773E-03	0.142
NP-239	3.717E-02		9.280E-02	1.597E-01	2.137E-02	0.233
AM-241	-9.944E-02		3.098E-02	4.504E-02	2.850E-03	-2.208
CM-243	2.331E-03		3.747E-02	6.494E-02	6.998E-03	0.036
AM-246	6.816E-03		5.499E-02	9.886E-02	1.248E-02	0.069
CF-249	-2.450E-03		1.593E-02	2.776E-02	2.765E-03	-0.088

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:02:32

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784414_GAMMA3_400MLSAN_16016.CNF

---- Sample Information ----

Sample ID	: OH207-7844-14		
Sample Title	: SB-CZ-SS-2013-SD		
Sample Quantity	: 4.87100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16016		

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 26-SEP-2007 10:00:59
Decay time	: 41 10:00:59.70	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.02

---- Detector Parameters ----

Energy cal. time	: 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.33*	158	851	1.18	140.68	136	11	76.1		TH-234
1	74.88	685	767	1.44	166.29	158	20	18.0	4.13E+00	AM-243
										PB-214
										PB-212
1	77.12*	1000	702	1.34	171.25	158	20	12.0		PB-214
										PB-212
2	87.15	386	695	1.38	193.49	179	34	26.9	1.40E+00	NP-237
										PB-214
										PB-212
2	89.71	264	692	1.33	199.17	179	34	38.6		
2	92.67*	292	764	1.47	205.73	179	34	40.8		TH-234
0	129.29	148	658	1.26	286.89	282	10	67.0		AC-228
0	185.82*	298	591	1.60	412.20	405	13	36.8		
0	209.61	176	543	1.50	464.92	459	12	55.4		AC-228
2	238.55*	1648	405	1.39	529.08	522	20	6.6	1.51E+00	PB-212
2	241.41	300	422	1.85	535.42	522	20	39.1		PB-214
0	269.64	241	351	1.81	597.99	591	14	35.3		RA-223
										AC-228
0	295.13	377	332	1.29	654.49	647	13	22.4		PB-214
0	300.48	111	282	1.16	666.35	661	12	63.4		PB-212
0	328.06	172	211	1.50	727.47	722	13	37.8		
0	338.18	341	322	1.30	749.90	744	12	23.6		AC-228
0	351.93*	634	263	1.47	780.39	774	14	13.7		PB-214
0	462.86	113	147	1.67	1026.26	1021	13	47.8		AC-228
0	510.36*	204	190	2.01	1131.53	1123	17	37.2		TL-208
0	582.86*	529	117	1.78	1292.20	1285	13	12.4		TL-208
0	608.87*	467	214	1.64	1349.86	1340	20	18.1		BI-214
0	727.06*	49	129	1.75	1611.82	1606	11	95.9		BI-212
0	795.00	73	107	1.85	1762.39	1756	17	68.8		AC-228
0	910.55*	366	45	1.85	2018.47	2009	16	13.5		AC-228
0	968.56*	209	46	2.20	2147.02	2142	10	18.9		AC-228
0	1119.58*	103	65	1.79	2481.72	2471	20	43.7		BI-214
0	1376.77	22	35	0.86	3051.66	3044	14	119.1		BI-214
0	1459.96*	668	35	1.64	3236.01	3226	20	9.0		K-40
0	1763.45*	81	8	2.17	3908.52	3900	15	28.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.71	264	692	1.33	199.17	179	34	2.44E-02	38.6	3.55E+00	
0	185.82	298	591	1.60	412.20	405	13	2.76E-02	36.8	2.82E+00	
0	328.06	172	211	1.50	727.47	722	13	1.59E-02	37.8	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	5.767E+00	6.212E-01	2.539E-01	1.494E-02	22.714
TL-208	2.750E-01	4.042E-02	2.685E-02	2.137E-03	10.242
BI-212	2.187E-01	2.103E-01	2.214E-01	1.607E-02	0.988
PB-212	8.137E-01	8.138E-02	4.666E-02	3.488E-03	17.440
BI-214	4.617E-01	9.086E-02	5.462E-02	4.162E-03	8.452
PB-214	4.837E-01	7.644E-02	5.480E-02	4.360E-03	8.825
RA-223	4.109E-01	1.496E-01	1.424E-01	1.261E-02	2.886
AC-228	9.075E-01	1.379E-01	9.560E-02	6.722E-03	9.492
TH-234	7.818E-01	3.265E-01	3.249E-01	2.909E-02	2.406
NP-237	4.508E-01	1.312E-01	1.412E-01	1.574E-02	3.193
AM-243	1.477E-01	3.891E-02	2.780E-02	5.345E-03	5.313

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.250E-02		1.720E-02	2.839E-02	1.728E-03	-0.440
RH-101	-1.191E-03		1.641E-02	2.755E-02	4.252E-03	-0.043
SB-125	-8.674E-03		4.217E-02	7.285E-02	6.022E-03	-0.119
CS-137	1.572E-02		1.713E-02	3.121E-02	2.247E-03	0.504
EU-155	1.631E-02		4.887E-02	8.486E-02	7.979E-03	0.192
PO-209	6.136E-01		3.359E+00	6.044E+00	1.114E+00	0.102
BI-211	-7.507E-02		5.192E-01	8.771E-01	6.316E-02	-0.086
PA-233	1.134E-02		3.126E-02	5.327E-02	4.347E-03	0.213
PA-234M	1.308E+00		1.955E+00	3.699E+00	2.526E-01	0.354
U-235	1.411E-01		1.046E-01	1.828E-01	1.357E-02	0.772
NP-236	2.423E-02		3.247E-02	4.753E-02	4.536E-03	0.510
NP-239	3.258E-02		1.084E-01	1.849E-01	2.473E-02	0.176
AM-241	6.143E-03		3.479E-02	5.072E-02	3.209E-03	0.121
CM-243	-7.092E-03		4.387E-02	7.530E-02	8.114E-03	-0.094
AM-246	3.380E-02		6.111E-02	1.124E-01	1.419E-02	0.301
CF-249	-7.217E-04		1.924E-02	3.351E-02	3.337E-03	-0.022

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:03:20

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784415_GAMMA3_400MLSAN_16021.CNF

---- Sample Information ----

Sample ID	: OH207-7844-15
Sample Title	: SB-CZ-SS-2014-SD
Sample Quantity	: 4.97600E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16021

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

Collection Date	: 16-AUG-2007 00:00:00	Acquisition date	: 26-SEP-2007 13:02:36
Decay time	: 41 13:02:36.99	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.88

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.36*	118	645	1.44	140.75	136	10	87.2		TH-234
2	74.77	584	866	1.59	166.05	157	34	22.4	1.65E+00	AM-243
										PB-214
										PB-212
2	77.12*	721	626	1.19	171.26	157	34	14.9		PB-214
										PB-212
4	87.21	289	467	1.41	193.61	190	22	26.8	2.50E+00	NP-237
										PB-214
										PB-212
4	89.60	207	760	1.73	198.91	190	22	57.1		
4	92.81*	367	763	1.97	206.04	190	22	35.8		TH-234
0	185.71*	174	455	1.54	411.96	407	10	50.7		
0	209.39	155	305	2.11	464.45	460	9	43.7		AC-228
1	238.56*	1388	292	1.45	529.09	520	27	7.2	2.11E+00	PB-212
1	241.61.	324	268	1.68	535.86	520	27	27.5		PB-214
0	270.32	174	344	2.09	599.48	592	16	50.2		RA-223
										AC-228
1	295.21	374	197	1.42	654.65	647	26	16.8	1.06E+00	PB-214
1	299.89	104	227	1.67	665.03	647	26	59.8		PB-212
0	338.13	284	314	1.68	749.78	740	19	32.2		AC-228
0	351.87*	579	315	1.47	780.24	771	18	16.7		PB-214
0	462.42	117	144	2.01	1025.27	1017	16	49.5		AC-228
0	510.53*	153	172	2.00	1131.90	1125	17	46.8		TL-208
0	582.87*	420	131	1.87	1292.23	1283	18	16.3		TL-208
0	608.83*	489	116	1.88	1349.76	1339	19	14.1		BI-214
0	661.24	99	108	1.80	1465.93	1458	15	50.0		CS-137
0	727.10*	105	117	1.05	1611.90	1606	17	51.9		BI-212
0	796.38	96	103	3.93	1765.45	1754	27	61.8		AC-228
0	910.88*	248	101	2.14	2019.20	2013	19	23.4		AC-228
0	968.49*	168	106	1.72	2146.89	2140	18	33.2		AC-228
0	1119.98*	113	40	1.10	2482.61	2475	15	31.6		BI-214
0	1460.14*	540	14	2.01	3236.42	3227	18	9.4		K-40
0	1509.21*	30	22	1.34	3345.15	3335	22	89.0		BI-214
0	1763.39*	68	5	1.58	3908.38	3898	20	31.0		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
4	89.60	207	760	1.73	198.91	190	22	1.92E-02	57.1	3.55E+00	
0	185.71	174	455	1.54	411.96	407	10	1.61E-02	50.7	2.82E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.563E+00	5.062E-01	1.301E-01	7.654E-03	35.077
CS-137	5.594E-02	2.826E-02	2.752E-02	1.981E-03	2.032
TL-208	2.138E-01	3.887E-02	2.567E-02	2.043E-03	8.326
BI-212	4.608E-01	2.414E-01	2.023E-01	1.468E-02	2.278
PB-212	6.711E-01	6.957E-02	4.091E-02	3.058E-03	16.404
BI-214	4.731E-01	7.574E-02	4.908E-02	3.739E-03	9.641
PB-214	4.323E-01	8.009E-02	5.092E-02	4.051E-03	8.490
RA-223	2.892E-01	1.473E-01	1.276E-01	1.130E-02	2.266
AC-228	6.028E-01	1.473E-01	9.006E-02	6.332E-03	6.693
TH-234	9.604E-01	3.548E-01	2.951E-01	2.642E-02	3.255
NP-237	3.300E-01	9.580E-02	1.296E-01	1.445E-02	2.546
AM-243	1.232E-01	3.632E-02	2.624E-02	5.047E-03	4.693

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-4.869E-03		1.707E-02	2.663E-02	1.412E-03	-0.183
RH-101	-1.016E-02		1.532E-02	2.509E-02	3.872E-03	-0.405
SB-125	1.965E-02		3.976E-02	7.120E-02	5.886E-03	0.276
EU-155	1.382E-02		4.263E-02	7.428E-02	6.985E-03	0.186
PO-209	1.589E+00		3.043E+00	5.623E+00	1.036E+00	0.283
BI-211	4.400E-02		4.250E-01	7.394E-01	5.325E-02	0.060
PA-233	4.600E-03		2.828E-02	4.796E-02	3.914E-03	0.096
PA-234M	-4.209E-01		1.762E+00	3.152E+00	2.152E-01	-0.134
U-235	6.573E-02		9.221E-02	1.596E-01	1.184E-02	0.412
NP-236	3.371E-02		2.757E-02	4.326E-02	4.129E-03	0.779
NP-239	-7.413E-02		1.031E-01	1.689E-01	2.260E-02	-0.439
AM-241	3.026E-03		3.193E-02	4.649E-02	2.942E-03	0.065
CM-243	3.789E-03		3.859E-02	6.687E-02	7.206E-03	0.057
AM-246	2.729E-02		5.129E-02	9.581E-02	1.209E-02	0.285
CF-249	-4.998E-03		1.681E-02	2.903E-02	2.891E-03	-0.172

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:03:48

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784416_GAMMA3_400MLSAN_16028.CNF

---- Sample Information ----

Sample ID	: OH207-7844-16		
Sample Title	: SB-CZ-SS-2015-SD		
Sample Quantity	: 3.86800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16028		

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

Collection Date	: 20-AUG-2007 00:00:00	Acquisition date	: 26-SEP-2007 16:04:48
Decay time	: 37 16:04:48.64	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.74

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	75.02	344	541	1.59	166.61	158	18	30.3	2.97E+00	AM-243
										PB-214
										PB-212
2	77.20*	464	452	1.43	171.42	158	18	20.1		PB-214
										PB-212
3	87.33	126	511	1.40	193.88	188	23	64.7	1.97E+00	NP-237
										PB-214
										PB-212
3	89.97	125	525	1.48	199.74	188	23	71.5		
3	92.77*	166	471	1.46	205.95	188	23	59.0		
0	185.49*	144	370	1.69	411.46	404	14	62.2		
0	238.87*	965	417	1.57	529.78	522	18	12.0		PB-212
0	271.28	85	275	4.26	601.62	595	16	90.5		AC-228
0	295.11	124	200	1.61	654.44	650	10	46.5		PB-214
0	327.93	48	105	1.83	727.18	723	8	78.8		
0	338.63	175	239	1.49	750.89	743	17	43.8		AC-228
0	351.98*	246	155	1.38	780.49	775	13	25.2		PB-214
0	462.95	53	56	1.99	1026.45	1022	9	58.8		AC-228
0	510.76*	77	137	2.54	1132.42	1123	19	86.0		TL-208
0	582.88*	238	88	1.40	1292.27	1286	13	21.5		TL-208
0	609.11*	209	72	1.92	1350.40	1343	15	23.2		BI-214
0	661.73	177	110	1.85	1467.03	1456	21	33.2		CS-137
0	726.92*	73	52	1.48	1611.51	1605	15	49.8		BI-212
0	910.93*	211	45	1.60	2019.32	2012	17	20.7		AC-228
0	969.00*	60	74	1.94	2148.02	2140	13	65.5		AC-228
0	1120.24*	58	11	2.44	2483.18	2477	14	39.3		BI-214
0	1460.11*	201	0	2.02	3236.34	3227	18	15.1		K-40
0	1762.98*	45	0	5.47	3907.46	3897	22	33.7		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	89.97	125	525	1.48	199.74	188	23	1.16E-02	71.5	3.55E+00	
3	92.77	166	471	1.46	205.95	188	23	1.54E-02	59.0	3.55E+00	T
0	185.49	144	370	1.69	411.46	404	14	1.33E-02	62.2	2.82E+00	
0	327.93	48	105	1.83	727.18	723	8	4.49E-03	78.8	1.90E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.182E+00	3.542E-01	2.119E-01	1.247E-02	10.299
CS-137	1.284E-01	4.368E-02	3.132E-02	2.255E-03	4.101
TL-208	1.557E-01	3.567E-02	3.204E-02	2.550E-03	4.858
BI-212	4.144E-01	2.086E-01	2.419E-01	1.756E-02	1.713
PB-212	6.003E-01	8.486E-02	4.633E-02	3.463E-03	12.956
BI-214	2.601E-01	6.345E-02	5.364E-02	4.087E-03	4.848
PB-214	2.366E-01	6.252E-02	5.417E-02	4.309E-03	4.368
AC-228	6.584E-01	1.438E-01	9.764E-02	6.865E-03	6.743
NP-237	1.845E-01	1.212E-01	1.519E-01	1.693E-02	1.214
AM-243	9.345E-02	3.355E-02	2.727E-02	5.245E-03	3.426

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-3.004E-03		1.513E-02	2.688E-02	1.636E-03	-0.112
RH-101	-5.960E-03		1.674E-02	2.781E-02	4.293E-03	-0.214
SB-125	-2.304E-02		4.584E-02	7.815E-02	6.460E-03	-0.295
EU-155	2.718E-02		4.525E-02	8.006E-02	7.528E-03	0.340
PO-209	-6.428E-01		3.100E+00	5.517E+00	1.017E+00	-0.117
BI-211	-4.246E-01		5.196E-01	8.309E-01	5.984E-02	-0.511
RA-223	7.541E-02		1.084E-01	1.652E-01	1.463E-02	0.456
PA-233	-7.467E-03		2.966E-02	4.959E-02	4.047E-03	-0.151
PA-234M	9.124E-01		1.858E+00	3.628E+00	2.478E-01	0.251
TH-234	5.605E-01	+	3.345E-01	4.827E-01	4.321E-02	1.161
U-235	2.045E-02		9.959E-02	1.706E-01	1.266E-02	0.120
NP-236	1.790E-02		2.830E-02	4.585E-02	4.375E-03	0.390
NP-239	4.113E-02		1.052E-01	1.820E-01	2.435E-02	0.226
AM-241	-1.141E-01		3.609E-02	5.212E-02	3.298E-03	-2.190
CM-243	-3.675E-03		4.146E-02	7.179E-02	7.736E-03	-0.051
AM-246	1.342E-02		5.723E-02	1.059E-01	1.337E-02	0.127
CF-249	-1.374E-02		1.969E-02	3.326E-02	3.313E-03	-0.413

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:05:08

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784417_GAMMA2_400MLSAN_16036.CNF

---- Sample Information ----

Sample ID : OH207-7844-17
Sample Title : SB-CZ-SS-2016-SD
Sample Quantity : 4.80700E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16036

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

Collection Date : 20-AUG-2007 00:00:00 Acquisition date : 26-SEP-2007 19:59:44
Decay time : 37 19:59:44.29 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:01.02

---- Detector Parameters ----

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

Efficiency Equation:

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

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

---- Processing Parameters ----

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

Background File :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.81	211	408	1.08	149.20	144	22	32.9	7.59E-01	AM-243
										PB-214
										PB-212
1	77.12	340	385	0.98	153.80	144	22	21.3		PB-214
										PB-212
0	84.07*	75	341	1.38	167.65	165	6	82.9		
0	86.63	122	486	1.28	172.75	171	7	62.0		NP-237
										PB-214
										PB-212
2	89.89	130	288	1.23	179.23	177	14	42.0	1.26E+00	
2	92.86*	158	378	1.23	185.14	177	14	47.4		
0	185.98*	189	366	1.29	370.57	366	9	41.2		
0	209.26	119	343	0.91	416.94	413	9	59.2		AC-228
2	238.79*	928	271	1.14	475.76	471	16	8.9	1.72E+00	PB-212
2	242.11*	147	229	1.34	482.37	471	16	43.9		PB-214
0	295.42	210	245	1.10	588.57	584	9	30.3		PB-214
0	338.49	275	221	1.18	674.39	670	11	24.0		AC-228
0	352.21*	456	175	1.15	701.73	697	10	14.6		PB-214
0	463.45	97	122	1.36	923.44	918	11	48.8		AC-228
0	510.85*	81	205	1.55	1017.92	1010	17	92.1		TL-208
0	583.45*	324	126	1.49	1162.68	1156	15	19.0		TL-208
0	609.52*	370	99	1.67	1214.66	1206	15	16.0		BI-214
0	661.72	258	79	1.54	1318.78	1313	12	18.5		CS-137
0	727.41	92	51	1.84	1449.81	1444	13	38.5		BI-212
0	795.44	27	37	1.27	1585.55	1580	10	90.5		AC-228
0	860.89	57	26	2.32	1716.14	1711	12	46.0		TL-208
0	911.18*	222	53	1.58	1816.52	1809	14	19.9		AC-228
0	969.42*	101	67	0.98	1932.78	1925	16	43.8		AC-228
0	1119.98*	95	24	2.27	2233.44	2227	12	29.8		BI-214
0	1459.96*	293	34	1.33	2912.87	2906	15	15.2		K-40
0	1727.75	26	8	0.95	3448.54	3441	16	62.7		BI-214
0	1762.45*	75	3	2.29	3517.99	3510	15	27.6		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	84.07	75	341	1.38	167.65	165	6	6.97E-03	82.9	2.38E+00	
2	89.89	130	288	1.23	179.23	177	14	1.20E-02	42.0	2.60E+00	
2	92.86	158	378	1.23	185.14	177	14	1.47E-02	47.4	2.71E+00	T
0	185.98	189	366	1.29	370.57	366	9	1.75E-02	41.2	3.21E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.123E+00	3.497E-01	1.358E-01	8.745E-03	15.628
CS-137	1.302E-01	2.828E-02	2.290E-02	2.605E-03	5.687
TL-208	1.479E-01	3.200E-02	2.135E-02	2.223E-03	6.926
BI-212	3.588E-01	1.436E-01	1.651E-01	1.805E-02	2.173
PB-212	3.981E-01	4.668E-02	3.290E-02	2.514E-03	12.102
BI-214	3.215E-01	6.171E-02	3.649E-02	3.885E-03	8.811
PB-214	3.044E-01	5.013E-02	3.932E-02	3.015E-03	7.741
AC-228	4.711E-01	1.021E-01	7.142E-02	6.206E-03	6.596
NP-237	2.073E-01	1.311E-01	1.524E-01	1.915E-02	1.360
AM-243	8.259E-02	3.179E-02	3.669E-02	7.314E-03	2.251

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-8.395E-03		1.129E-02	1.907E-02	1.054E-03	-0.440
RH-101	2.548E-04		1.241E-02	2.019E-02	3.152E-03	0.013
SB-125	3.452E-03		3.332E-02	5.731E-02	4.698E-03	0.060
EU-155	1.314E-02		4.260E-02	7.245E-02	6.783E-03	0.181
PO-209	7.683E-01		2.212E+00	4.050E+00	7.764E-01	0.190
BI-211	-2.555E-01		3.260E-01	5.343E-01	5.230E-02	-0.478
RA-223	1.547E-01		6.382E-02	1.191E-01	1.059E-02	1.299
PA-233	3.686E-03		2.161E-02	3.773E-02	3.039E-03	0.098
PA-234M	-3.465E-01		1.289E+00	2.235E+00	1.745E-01	-0.155
TH-234	5.652E-01	+	2.738E-01	4.205E-01	4.206E-02	1.344
U-235	7.720E-02		7.955E-02	1.344E-01	9.806E-03	0.575
NP-236	2.652E-02		2.618E-02	4.316E-02	4.291E-03	0.614
NP-239	-1.998E-02		7.354E-02	1.271E-01	1.715E-02	-0.157
AM-241	-8.546E-02		6.297E-02	1.022E-01	6.707E-03	-0.836
CM-243	1.318E-02		3.823E-02	6.520E-02	7.049E-03	0.202
AM-246	3.276E-02		3.784E-02	7.302E-02	9.340E-03	0.449
CF-249	-2.718E-03		1.415E-02	2.400E-02	2.299E-03	-0.113

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:05:27

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784418_GAMMA3_400MLSAN_16037.CNF

---- Sample Information ----

Sample ID	: OH207-7844-18		
Sample Title	: SB-CZ-SS-2017-SD		
Sample Quantity	: 5.50100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16037		

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

Collection Date	: 20-AUG-2007 00:00:00	Acquisition date	: 26-SEP-2007 20:01:20
Decay time	: 37 20:01:20.67	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.83

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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 Mc Wood Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.22*	149	535	1.43	140.45	135	10	64.2		TH-234
3	74.86	336	637	1.13	166.25	162	14	27.7	2.09E+00	AM-243
										PB-214
										PB-212
3	77.15*	645	608	1.31	171.32	162	14	16.8		PB-214
										PB-212
0	87.38	144	723	0.92	193.99	189	9	69.4		NP-237
										PB-214
										PB-212
0	92.89*	228	676	1.67	206.22	202	11	50.4		TH-234
0	186.10*	197	529	1.79	412.81	405	13	52.2		
0	209.54	100	256	1.06	464.77	461	7	57.1		AC-228
1	238.58*	1106	303	1.41	529.14	523	19	8.4	5.82E-01	PB-212
1	241.55	213	344	1.63	535.73	523	19	41.9		PB-214
0	295.39	300	289	1.57	655.05	646	15	27.3		PB-214
0	300.09	101	146	1.16	665.47	662	9	47.3		PB-212
0	338.48	243	273	1.41	750.56	743	14	31.6		AC-228
0	351.77*	620	154	1.63	780.03	772	15	12.0		PB-214
0	466.32	119	241	4.40	1033.91	1021	25	73.7		
0	510.65*	134	146	1.67	1132.18	1125	17	50.2		TL-208
0	583.05*	346	151	1.54	1292.63	1285	17	19.9		TL-208
0	609.07*	361	133	1.58	1350.30	1343	15	17.9		BI-214
0	661.72	101	143	1.05	1466.99	1459	13	52.6		CS-137
0	726.58*	72	54	1.30	1610.74	1605	12	47.9		BI-212
0	860.05	96	40	2.09	1906.56	1897	18	37.1		TL-208
0	910.65*	282	40	1.62	2018.69	2009	20	16.5		AC-228
5	964.23	42	52	2.05	2137.44	2133	23	69.0	1.69E+00	AC-228
5	968.71*	135	59	2.00	2147.37	2133	23	30.2		AC-228
0	1120.17*	78	51	1.79	2483.02	2474	17	48.6		BI-214
0	1460.12*	376	16	2.33	3236.37	3225	21	12.0		K-40
0	1764.09*	67	16	2.40	3909.92	3904	15	38.5		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	186.10	197	529	1.79	412.81	405	13	1.82E-02	52.2	2.81E+00	
0	466.32	119	241	4.40	1033.91	1021	25	1.10E-02	73.7	1.42E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.872E+00	3.827E-01	1.805E-01	1.062E-02	15.913
CS-137	5.164E-02	2.741E-02	2.198E-02	1.583E-03	2.349
TL-208	1.591E-01	3.417E-02	2.270E-02	1.807E-03	7.008
BI-212	2.878E-01	1.394E-01	1.893E-01	1.374E-02	1.521
PB-212	4.835E-01	5.441E-02	3.600E-02	2.691E-03	13.432
BI-214	3.160E-01	6.136E-02	4.459E-02	3.398E-03	7.088
PB-214	4.190E-01	6.032E-02	4.266E-02	3.394E-03	9.821
AC-228	6.197E-01	1.112E-01	8.015E-02	5.635E-03	7.732
TH-234	5.391E-01	2.760E-01	3.106E-01	2.066E-02	1.736
NP-237	1.488E-01	1.046E-01	1.298E-01	1.447E-02	1.146
AM-243	6.422E-02	2.168E-02	2.283E-02	4.391E-03	2.813

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.636E-03		1.262E-02	1.952E-02	1.035E-03	-0.135
RH-101	2.549E-03		1.355E-02	2.295E-02	3.543E-03	0.111
SB-125	-6.934E-03		3.338E-02	5.788E-02	4.785E-03	-0.120
EU-155	4.152E-02		3.858E-02	6.833E-02	6.426E-03	0.608
PO-209	-1.829E+00		2.565E+00	4.289E+00	7.902E-01	-0.426
BI-211	1.405E-02		4.298E-01	7.381E-01	5.316E-02	0.019
RA-223	1.468E-01		7.825E-02	1.392E-01	1.232E-02	1.055
PA-233	-4.162E-02		2.574E-02	3.945E-02	3.219E-03	-1.055
PA-234M	9.746E-01		1.642E+00	3.116E+00	2.127E-01	0.313
U-235	-8.951E-02		8.476E-02	1.390E-01	1.032E-02	-0.644
NP-236	-1.143E-03		2.497E-02	3.561E-02	3.398E-03	-0.032
NP-239	3.168E-02		8.655E-02	1.485E-01	1.987E-02	0.213
AM-241	1.910E-02		2.678E-02	4.019E-02	2.543E-03	0.475
CM-243	2.595E-02		3.450E-02	6.074E-02	6.545E-03	0.427
AM-246	2.251E-02		4.427E-02	8.302E-02	1.048E-02	0.271
CF-249	1.487E-02		1.588E-02	2.884E-02	2.873E-03	0.516

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:05:49

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784419_GAMMA3_400MLSAN_16038.CNF

---- Sample Information ----

Sample ID : OH207-7844-19
Sample Title : SB-CZ-SS-2018-SD
Sample Quantity : 4.15400E+02 GDRY
Sample Type : SOIL
Sample Geometry : 400 ml sand
Sample Seq No. : 16038

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

Collection Date : 21-AUG-2007 00:00:00 Acquisition date : 27-SEP-2007 09:35:21
Decay time : 37 09:35:21.02 % dead time : 0.0%
Elapsed live time: 0 03:00:00.00 Elapsed real time: 0 03:00:00.88

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	46.61*	69	292	1.21	103.63	100	9	100.9		
0	63.48*	111	623	1.20	141.02	135	11	94.4		TH-234
6	74.93	539	710	1.49	166.39	161	16	20.9	9.24E-01	AM-243
										PB-214
										PB-212
6	77.18*	728	560	1.15	171.39	161	16	14.0		PB-214
										PB-212
0	83.75*	108	551	1.49	185.95	182	9	81.7		
3	87.22	330	452	1.48	193.64	190	24	24.7	1.43E+00	NP-237
										PB-214
										PB-212
3	89.98	212	662	1.75	199.75	190	24	53.7		
3	92.76*	291	643	1.76	205.93	190	24	40.6		TH-234
0	128.61	64	411	1.30	285.39	283	8	112.5		AC-228
0	185.76*	259	467	1.46	412.06	405	14	39.0		
0	209.38	128	417	1.74	464.42	460	14	70.0		AC-228
2	238.54*	1231	242	1.34	529.05	520	22	7.6	1.51E+00	PB-212
2	241.47	282	303	1.85	535.55	520	22	35.0		PB-214
0	269.97	83	305	1.22	598.70	594	12	87.1		RA-223
										AC-228
0	295.18	376	276	1.29	654.59	648	13	21.0		PB-214
0	300.28	114	189	1.41	665.91	661	11	50.9		PB-212
0	338.58	261	209	1.56	750.78	745	13	26.2		AC-228
0	351.79*	621	302	1.55	780.07	772	18	15.5		PB-214
0	462.65	142	164	1.57	1025.78	1019	17	44.5		AC-228
0	510.33*	218	143	2.05	1131.46	1121	22	34.1		TL-208
0	582.83*	385	119	1.44	1292.14	1283	16	16.7		TL-208
0	608.89*	485	119	1.82	1349.91	1340	17	14.1		BI-214
0	661.49	95	103	1.58	1466.48	1456	16	52.3		CS-137
0	726.69*	112	56	1.11	1610.98	1604	14	34.6		BI-212
0	794.67	65	56	2.35	1761.66	1754	15	56.4		AC-228
1	860.00	36	33	2.16	1906.43	1902	19	70.8	1.42E+00	
1	860.70	28	46	1.96	1908.00	1902	19	108.4		TL-208
0	910.70*	236	64	1.67	2018.81	2012	14	19.7		AC-228
0	933.41	49	48	1.66	2069.13	2061	18	72.6		BI-214
0	969.24*	99	87	1.73	2148.55	2139	14	45.6		AC-228
0	1119.48*	101	35	2.12	2481.49	2474	13	32.2		BI-214
0	1376.05	58	10	1.79	3050.07	3040	19	36.8		BI-214
0	1460.21*	191	55	1.74	3236.57	3229	19	24.0		K-40
0	1763.70*	93	10	0.71	3909.06	3899	18	26.8		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	46.61	69	292	1.21	103.63	100	9	6.39E-03	****	2.77E+00	
0	83.75	108	551	1.49	185.95	182	9	1.00E-02	81.7	3.55E+00	
3	89.98	212	662	1.75	199.75	190	24	1.97E-02	53.7	3.55E+00	
0	185.76	259	467	1.46	412.06	405	14	2.40E-02	39.0	2.82E+00	
1	860.00	36	33	2.16	1906.43	1902	19	3.31E-03	70.8	8.42E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	1.930E+00	4.772E-01	2.797E-01	1.645E-02	6.902
CS-137	6.401E-02	3.379E-02	3.378E-02	2.432E-03	1.895
TL-208	2.343E-01	4.326E-02	3.056E-02	2.432E-03	7.667
BI-212	5.895E-01	2.085E-01	2.082E-01	1.511E-02	2.832
PB-212	7.130E-01	7.584E-02	4.711E-02	3.521E-03	15.135
BI-214	5.623E-01	9.004E-02	5.514E-02	4.202E-03	10.197
PB-214	5.555E-01	9.674E-02	6.002E-02	4.775E-03	9.255
RA-223	1.650E-01	1.445E-01	1.465E-01	1.297E-02	1.126
AC-228	6.860E-01	1.436E-01	1.205E-01	8.469E-03	5.695
TH-234	9.143E-01	3.805E-01	3.241E-01	2.902E-02	2.821
NP-237	4.514E-01	1.223E-01	1.377E-01	1.534E-02	3.279
AM-243	1.362E-01	3.865E-02	2.990E-02	5.750E-03	4.555

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.356E-02		1.862E-02	3.075E-02	1.872E-03	-0.441
RH-101	1.066E-02		1.758E-02	3.010E-02	4.646E-03	0.354
SB-125	-1.324E-02		4.619E-02	7.960E-02	6.580E-03	-0.166
EU-155	-2.413E-03		4.964E-02	8.569E-02	8.058E-03	-0.028
PO-209	1.846E+00		3.071E+00	5.813E+00	1.071E+00	0.318
BI-211	-1.930E-01		5.277E-01	8.806E-01	6.342E-02	-0.219
PA-233	-3.302E-02		3.239E-02	5.156E-02	4.208E-03	-0.640
PA-234M	-6.914E-01		2.127E+00	3.776E+00	2.578E-01	-0.183
U-235	8.615E-02		1.065E-01	1.850E-01	1.373E-02	0.466
NP-236	1.227E-05		3.335E-02	4.766E-02	4.548E-03	0.000
NP-239	-3.331E-02		1.156E-01	1.934E-01	2.588E-02	-0.172
AM-241	3.173E-02		3.595E-02	5.428E-02	3.435E-03	0.585
CM-243	-3.511E-02		4.545E-02	7.653E-02	8.246E-03	-0.459
AM-246	-1.663E-02		5.614E-02	9.796E-02	1.237E-02	-0.170
CF-249	-4.654E-03		2.026E-02	3.510E-02	3.496E-03	-0.133

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 12:06:10

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784420_GAMMA1_400MLSAN_16039.CNF

---- Sample Information ----

Sample ID	: OH207-7844-20		
Sample Title	: SB-CZ-SS-2019-SD		
Sample Quantity	: 4.45800E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16039		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 27-SEP-2007 09:39:42
Decay time	: 37 09:39:42.02	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
1	74.89	256	363	1.02	149.19	146	13	26.7	1.06E+00	AM-243 PB-214 PB-212
1	77.24*	431	370	0.95	153.90	146	13	17.4		PB-214 PB-212
0	87.14	160	428	1.25	173.73	171	7	45.7		NP-237 PB-214 PB-212
0	92.99*	159	513	1.96	185.44	182	9	56.3		
0	186.00*	225	432	1.33	371.69	367	11	39.5		
0	209.48	137	446	1.11	418.69	414	11	62.3		AC-228
4	238.61*	1343	243	1.27	477.03	470	22	6.9	4.12E+00	PB-212
4	241.75	358	245	1.71	483.32	470	22	23.6		PB-214
0	270.32*	97	289	1.11	540.52	536	10	69.5		RA-223 AC-228
0	295.16*	460	329	1.13	590.26	583	14	19.3		PB-214
0	300.59	87	244	1.14	601.12	596	10	70.9		PB-212
0	338.54*	264	229	1.31	677.10	672	12	26.4		AC-228
0	351.95*	853	162	1.41	703.96	700	11	9.1		PB-214
0	463.04	68	75	0.95	926.39	923	7	49.0		AC-228
0	510.86*	172	151	1.96	1022.13	1014	16	40.1		TL-208
0	583.17*	444	152	1.51	1166.90	1160	16	15.9		TL-208
0	609.15*	687	158	1.52	1218.92	1212	16	11.3		BI-214
0	661.01	65	160	1.17	1322.76	1319	13	83.3		CS-137
0	727.58	83	109	1.66	1456.02	1449	15	59.0		BI-212
0	795.26	92	54	1.76	1591.52	1584	15	41.2		AC-228
0	911.06*	324	68	1.92	1823.35	1814	16	16.1		AC-228
0	934.64	71	77	1.93	1870.55	1864	18	61.5		BI-214
2	964.19	47	57	2.06	1929.71	1922	24	69.4	1.01E+00	AC-228
2	968.71	208	45	1.82	1938.75	1922	24	18.8		AC-228
0	1120.22*	151	48	2.18	2242.05	2237	11	24.8		BI-214
0	1238.25	57	38	2.14	2478.31	2473	13	51.9		BI-214
0	1460.17*	361	26	1.79	2922.51	2914	15	12.2		K-40
0	1588.43	25	20	1.64	3179.22	3170	14	88.1		AC-228
0	1728.70	16	14	1.97	3459.95	3454	11	101.4		BI-214
0	1763.52*	152	9	2.11	3529.65	3519	18	19.1		BI-214
0	1846.52	23	5	2.01	3695.76	3691	9	54.2		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	92.99	159	513	1.96	185.44	182	9	1.48E-02	56.3	2.43E+00	T
0	186.00	225	432	1.33	371.69	367	11	2.08E-02	39.5	3.03E+00	
0	1846.52	23	5	2.01	3695.76	3691	9	2.08E-03	54.2	5.86E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.688E+00	3.759E-01	2.393E-01	1.633E-02	11.232
CS-137	3.542E-02	2.974E-02	2.518E-02	2.706E-03	1.406
TL-208	2.214E-01	4.157E-02	2.428E-02	2.437E-03	9.119
BI-212	3.481E-01	2.082E-01	1.749E-01	1.683E-02	1.990
PB-212	6.549E-01	6.759E-02	3.550E-02	2.739E-03	18.451
BI-214	6.490E-01	9.850E-02	4.322E-02	4.402E-03	15.017
PB-214	6.396E-01	7.682E-02	4.442E-02	3.505E-03	14.399
RA-223	1.625E-01	1.138E-01	1.158E-01	1.066E-02	1.403
AC-228	7.243E-01	1.233E-01	9.072E-02	5.013E-03	7.984
NP-237	3.311E-01	1.589E-01	2.139E-01	3.093E-02	1.548
AM-243	1.262E-01	4.286E-02	4.309E-02	9.039E-03	2.929

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.070E-02		1.529E-02	1.972E-02	1.287E-03	0.543
RH-101	-3.184E-03		1.387E-02	2.297E-02	3.563E-03	-0.139
SB-125	9.083E-05		3.709E-02	6.393E-02	5.243E-03	0.001
EU-155	7.723E-02		4.901E-02	8.736E-02	8.673E-03	0.884
PO-209	2.923E-01		2.710E+00	4.827E+00	8.640E-01	0.061
BI-211	-9.706E-02		3.795E-01	6.584E-01	4.797E-02	-0.147
PA-233	-4.711E-03		2.370E-02	4.104E-02	3.446E-03	-0.115
PA-234M	1.615E-01		1.587E+00	2.844E+00	1.635E-01	0.057
TH-234	6.844E-01	+	3.935E-01	5.016E-01	5.852E-02	1.365
U-235	-9.741E-03		8.663E-02	1.443E-01	1.007E-02	-0.068
NP-236	2.435E-02		3.115E-02	5.196E-02	5.708E-03	0.469
NP-239	8.955E-03		8.754E-02	1.446E-01	1.951E-02	0.062
AM-241	2.166E-02		8.458E-02	1.488E-01	1.183E-02	0.146
CM-243	-2.308E-02		4.445E-02	7.415E-02	8.450E-03	-0.311
AM-246	6.230E-02		4.417E-02	8.736E-02	1.075E-02	0.713
CF-249	1.029E-03		1.592E-02	2.763E-02	2.665E-03	0.037

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:			
S7842 7845			

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
SCAQC	7845-PB		9/10/2007 9:00:00 AM	
SCAQC	7845-LD1 OH207-7845-01	SB-CZ-SS-2020-SD	8/21/2007	
SCAQC	7845-LC1		9/10/2007 9:00:00 AM	

Prefix	Batch and Sample Number	Client ID	Collection Date	Date Submitted to Counting Room
OH207	7845-01 ✓	SB-CZ-SS-2020-SD	8/21/2007	
OH207	7845-02 ✓	SB-CZ-SS-2021-SD	8/21/2007	
OH207	7845-03 ✓	SB-CZ-SS-2022-SD	8/21/2007	
OH207	7845-04 ✓	SB-CZ-SS-2023-SD	8/21/2007	
OH207	7845-05 ✓	SB-CZ-SS-2024-SD	8/21/2007	

T M Mear 10/18/2007
Radiochemistry Reviewer Date

QA Reviewer 10-24-07
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
9-27-07 ~~1626~~ WR G3	180	SCAQC	7845	PB1	—	9-10-07 0900	Prep BLK	Liquid	400.0 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-28-07 0922 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 ☐
9-27-07 ~~1848~~ ~~1248~~ WR ~~G3~~ G1	180			LD1	—	8-21-07	DUP 7845-01		419.3 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-28-07 0924 G3	↓	OH207	↓	01	—	↓	SB-CZ-SS-2020-SD	↓	↓	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-27-07 1850 G2 WR				02	—		SB-CZ-SS-2021-SD		438.6 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-28-07 1226 WR G3				03	—		SB-CZ-SS-2022-SD		549.4 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-28-07 1537 WR G3				04	—		SB-CZ-SS-2023-SD		408.1 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-28-07 1902 G1 AH	↓	↓	↓	05	—	↓	SB-CZ-SS-2024-SD	↓	425.7 g dry	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-28-07 1907 G2 AH	180	SCAQC	7846	PB1	—	9-10-07 0900	Prep BLK	Liquid	400.0 g	400 mL Liquid ☐ 20 mL Sand ☐ 400 mL Sand ☑ 1 Liter Liquid ☐ 40 mL Sand ☐ _____ ☐ 10 mL Sand ☐ 200 mL Sand ☐
9-29-07 1001 G3 AH	60	SCAQC	↓	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 ☐

Gamma1 = G1
Gamma2 = G2

OH207 → ANALYSIS Seq. File: Schofield Barrac

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

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:37:38

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7845PB1_GAMMA3_400MLSA_16051.CNF

---- Sample Information ----

Sample ID : SCAQC-7845-PB1
Sample Title : PREP BLK
Sample Quantity : 4.00000E+02 G
Sample Type : LIQUID
Sample Geometry : 400 ml sand
Sample Seq No. : 16051

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

Collection Date : 10-SEP-2007 09:00:00 Acquisition date : 27-SEP-2007 16:26:48
Decay time : 17 07:26:48.99 % 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

Post-NID Peak Search Report
***** No peaks found *****

Interference Report

No interference correction performed

Unidentified Energy Lines

None

Flags: "T" = Tentatively associated

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	3.307E-02		1.525E-01	3.222E-01	1.896E-02	0.103
CO-60	-3.666E-03		1.307E-02	2.167E-02	1.149E-03	-0.169
RH-101	7.042E-03		1.244E-02	2.156E-02	3.327E-03	0.327
SB-125	1.557E-02		2.986E-02	5.585E-02	4.617E-03	0.279
CS-137	-4.855E-03		1.302E-02	2.227E-02	1.603E-03	-0.218
EU-155	1.959E-03		3.180E-02	5.599E-02	5.265E-03	0.035
TL-208	-3.869E-03		1.550E-02	2.629E-02	2.092E-03	-0.147
PO-209	1.524E+00		2.778E+00	5.330E+00	9.821E-01	0.286
BI-211	4.324E-01		3.879E-01	7.628E-01	5.494E-02	0.567
BI-212	-1.042E-01		1.056E-01	1.680E-01	1.219E-02	-0.621
PB-212	1.910E-02		2.405E-02	4.353E-02	3.253E-03	0.439
BI-214	-1.300E-02		2.856E-02	4.877E-02	3.716E-03	-0.267
PB-214	-1.287E-02		2.763E-02	4.478E-02	3.563E-03	-0.287
RA-223	2.776E-02		6.061E-02	1.075E-01	9.514E-03	0.258
AC-228	-9.577E-03		5.076E-02	9.079E-02	6.383E-03	-0.105
PA-233	6.213E-03		2.475E-02	4.300E-02	3.509E-03	0.144
PA-234M	4.159E-02		1.630E+00	3.104E+00	2.119E-01	0.013
TH-234	-1.102E-01		1.873E-01	3.418E-01	3.060E-02	-0.322
U-235	-3.529E-02		7.465E-02	1.244E-01	9.230E-03	-0.284
NP-236	1.096E-02		1.959E-02	3.315E-02	3.164E-03	0.331
NP-237	-3.598E-03		5.844E-02	9.709E-02	1.082E-02	-0.037
NP-239	-3.184E-02		7.632E-02	1.281E-01	1.714E-02	-0.249
AM-241	-7.466E-02		2.553E-02	3.606E-02	2.282E-03	-2.070
AM-243	-6.963E-05		1.144E-02	1.909E-02	3.671E-03	-0.004
CM-243	1.264E-02		2.887E-02	5.170E-02	5.571E-03	0.245
AM-246	1.156E-02		3.790E-02	7.431E-02	9.380E-03	0.156
CF-249	8.317E-03		1.423E-02	2.641E-02	2.630E-03	0.315

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:37:59

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7845LC1_GAMMA2_400MLSA_16058.CNF

---- Sample Information ----

Sample ID	: SCAQC-7845-LC1		
Sample Title	: CTRL SAMP S-142		
Sample Quantity	: 6.40000E+02 G		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16058		

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

Collection Date	: 10-SEP-2007 09:00:00	Acquisition date	: 28-SEP-2007 09:22:58
Decay time	: 18 00:22:58.47	% dead time	: 0.3%
Elapsed live time	: 0 01:00:00.00	Elapsed real time	: 0 01:00:09.58

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

Sample ID : SCAQC-7845-LC1 Acquisition date : 28-SEP-2007 09:22:58

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
5	58.07	1587	9457	1.39	115.88	112	12	28.0	4.75E+00	
5	59.49	26309	4893	0.97	118.70	112	12	1.5		AM-241
0	87.99	11463	5969	1.11	175.45	170	12	3.3		
0	121.99	2221	3658	1.08	243.15	238	10	11.0		
0	136.62	282	2564	0.95	272.28	269	7	60.9		
0	238.80*	212	2718	0.94	475.78	472	8	86.3		
0	352.30*	302	1784	1.94	701.91	698	9	51.7		
0	583.54*	148	869	1.10	1162.86	1159	8	71.1		
0	609.38*	200	816	1.63	1214.38	1211	8	51.5		
0	661.79	26831	1376	1.51	1318.91	1312	13	1.3		CS-137
0	1172.83	21257	751	1.88	2339.01	2330	18	1.5		CO-60
0	1331.80	19253	287	1.99	2656.67	2647	19	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
5	58.07	1587	9457	1.39	115.88	112	12	4.41E-01	28.0	1.05E+00	
0	87.99	11463	5969	1.11	175.45	170	12	3.18E+00	3.3	2.54E+00	T
0	121.99	2221	3658	1.08	243.15	238	10	6.17E-01	11.0	3.30E+00	
0	136.62	282	2564	0.95	272.28	269	7	7.83E-02	60.9	3.38E+00	
0	238.80	212	2718	0.94	475.78	472	8	5.90E-02	86.3	2.80E+00	T
0	352.30	302	1784	1.94	701.91	698	9	8.39E-02	51.7	2.07E+00	T
0	583.54	148	869	1.10	1162.86	1159	8	4.11E-02	71.1	1.35E+00	T
0	609.38	200	816	1.63	1214.38	1211	8	5.56E-02	51.5	1.30E+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	1.816E+00	1.050E-01	6.107E-03	302.135
CS-137	3.044E+01	3.487E+00	1.639E-01	1.865E-02	185.688
AM-241	7.619E+01	5.134E+00	9.896E-01	6.491E-02	76.995

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

Nuclide	Key-Line Activity (pCi/G)	K.L. Ided	Act error	MDA (pCi/G)	MDA error	Act/MDA
K-40	2.356E-01		4.014E-01	7.553E-01	4.862E-02	0.312
RH-101	2.594E-02		7.624E-02	1.224E-01	1.911E-02	0.212
SB-125	-9.967E-02		2.690E-01	4.405E-01	3.611E-02	-0.226
EU-155	-9.239E-02		2.512E-01	4.117E-01	3.855E-02	-0.224
TL-208	1.524E-01	+	1.095E-01	1.646E-01	1.714E-02	0.926
PO-209	2.677E+01		2.621E+01	4.359E+01	8.358E+00	0.614
BI-211	-2.862E+00		3.189E+00	5.209E+00	5.099E-01	-0.549
BI-212	8.225E-02		7.248E-01	1.229E+00	1.344E-01	0.067
PB-212	2.054E-01	+	1.780E-01	2.363E-01	1.806E-02	0.869
BI-214	3.912E-01	+	2.058E-01	3.130E-01	3.333E-02	1.250
PB-214	4.542E-01	+	2.375E-01	3.077E-01	2.359E-02	1.476
RA-223	1.912E-01		4.245E-01	7.227E-01	6.430E-02	0.265
AC-228	3.205E-01		4.952E-01	8.310E-01	7.221E-02	0.386
PA-233	2.213E-02		1.583E-01	2.667E-01	2.148E-02	0.083
PA-234M	-2.971E+00		1.472E+01	2.417E+01	1.887E+00	-0.123
TH-234	6.159E-01		1.235E+00	1.854E+00	1.854E-01	0.332
U-235	-1.383E-01		4.526E-01	7.320E-01	5.343E-02	-0.189
NP-236	1.122E-01		1.481E-01	2.470E-01	2.455E-02	0.454
NP-237	2.080E+01		2.771E+00	1.702E+00	2.139E-01	12.220
NP-239	-4.631E-01		5.258E-01	8.804E-01	1.188E-01	-0.526
AM-243	1.227E-02		1.427E-01	2.383E-01	4.751E-02	0.051
CM-243	9.632E-02		2.333E-01	3.870E-01	4.184E-02	0.249
AM-246	-1.774E-01		4.429E-01	7.188E-01	9.193E-02	-0.247
CF-249	4.327E-02		1.069E-01	1.785E-01	1.710E-02	0.242

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:38:53

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_SCAQC7845LD1_GAMMA1_400MLSA_16056.CNF

---- Sample Information ----

Sample ID	: SCAQC-7845-LD1		
Sample Title	: DUP 7845-01		
Sample Quantity	: 4.19300E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16056		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 27-SEP-2007 18:48:29
Decay time	: 37 18:48:29.66	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
3	74.96	299	447	1.07	149.33	144	16	25.3	1.57E+00	AM-243
										PB-214
										PB-212
3	77.25*	472	439	0.96	153.93	144	16	17.1		PB-214
										PB-212
0	87.24	176	481	1.16	173.92	171	7	44.1		NP-237
										PB-214
										PB-212
4	90.07	133	392	1.03	179.59	177	13	49.6	1.33E+00	
4	92.98*	253	513	1.39	185.42	177	13	35.3		
0	128.69	162	435	0.86	256.93	252	9	49.0		AC-228
0	185.92*	254	424	1.20	371.52	367	10	33.8		
0	209.25	189	362	0.96	418.24	414	9	39.1		AC-228
4	238.69*	1625	254	1.11	477.19	472	17	6.0	8.31E-01	PB-212
4	241.51	271	290	1.71	482.83	472	17	33.5		PB-214
0	270.29*	129	230	0.88	540.45	536	8	44.9		RA-223
										AC-228
0	277.20	47	218	0.60	554.30	551	8	111.9		TL-208
0	295.34*	249	268	1.17	590.62	584	13	30.3		PB-214
0	299.89	107	178	1.31	599.73	597	8	47.1		PB-212
0	328.19	164	217	1.71	656.39	650	13	40.3		
0	338.35*	313	189	1.23	676.74	672	9	19.6		AC-228
0	351.76*	429	231	1.15	703.58	697	13	17.7		PB-214
0	409.71	74	209	3.26	819.61	815	15	88.2		AC-228
0	462.88	115	146	1.72	926.07	920	13	47.2		AC-228
0	511.09*	227	171	2.15	1022.61	1014	16	32.4		TL-208
0	583.13*	508	117	1.43	1166.83	1161	12	12.4		TL-208
0	609.27*	314	150	1.17	1219.16	1213	13	19.9		BI-214
0	727.48	114	80	1.29	1455.82	1449	11	35.8		BI-212
0	771.35	58	97	4.46	1543.65	1534	16	81.0		
0	794.80	100	63	1.42	1590.61	1583	14	39.2		AC-228
0	860.58	71	53	1.30	1722.28	1717	10	44.7		TL-208
0	911.03*	402	67	1.37	1823.28	1816	15	13.5		AC-228
3	964.75	52	38	2.26	1930.83	1923	39	60.2	1.29E+00	AC-228
3	968.87	258	19	1.66	1939.08	1923	39	14.3		AC-228
3	974.68	31	17	2.27	1950.71	1923	39	82.1		
0	1120.23*	83	45	1.87	2242.08	2236	16	42.9		BI-214
0	1460.44*	347	16	2.06	2923.05	2915	16	12.3		K-40
0	1621.08	26	15	1.53	3244.58	3236	15	75.9		BI-212
0	1729.12	16	9	1.51	3460.80	3454	13	96.3		BI-214
0	1764.14*	61	9	1.96	3530.89	3525	13	34.8		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	90.07	133	392	1.03	179.59	177	13	1.23E-02	49.6	2.33E+00	
4	92.98	253	513	1.39	185.42	177	13	2.34E-02	35.3	2.43E+00	T
0	185.92	254	424	1.20	371.52	367	10	2.35E-02	33.8	3.03E+00	
0	328.19	164	217	1.71	656.39	650	13	1.52E-02	40.3	2.10E+00	
0	771.35	58	97	4.46	1543.65	1534	16	5.39E-03	81.0	1.09E+00	
3	974.68	31	17	2.27	1950.71	1923	39	2.87E-03	82.1	9.30E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.746E+00	3.863E-01	1.797E-01	1.227E-02	15.278
TL-208	2.694E-01	4.303E-02	2.623E-02	2.632E-03	10.271
BI-212	5.072E-01	1.878E-01	1.935E-01	1.862E-02	2.621
PB-212	8.425E-01	8.243E-02	4.205E-02	3.245E-03	20.036
BI-214	3.156E-01	7.047E-02	4.920E-02	5.011E-03	6.416
PB-214	3.426E-01	6.629E-02	5.007E-02	3.951E-03	6.842
RA-223	2.304E-01	1.055E-01	1.219E-01	1.122E-02	1.891
AC-228	9.562E-01	1.396E-01	8.320E-02	4.598E-03	11.493
NP-237	3.868E-01	1.795E-01	2.257E-01	3.264E-02	1.714
AM-243	1.568E-01	5.159E-02	5.109E-02	1.072E-02	3.069

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	1.096E-02		1.304E-02	2.451E-02	1.600E-03	0.447
RH-101	-1.674E-02		1.489E-02	2.337E-02	3.625E-03	-0.716
SB-125	4.824E-03		3.647E-02	6.362E-02	5.217E-03	0.076
CS-137	-8.727E-03		1.473E-02	2.521E-02	2.709E-03	-0.346
EU-155	1.138E-01		5.536E-02	9.898E-02	9.827E-03	1.150
PO-209	-3.678E-01		2.748E+00	4.810E+00	8.609E-01	-0.076
BI-211	-1.071E-01		4.119E-01	7.136E-01	5.199E-02	-0.150
PA-233	1.013E-03		2.546E-02	4.460E-02	3.745E-03	0.023
PA-234M	5.873E-01		1.554E+00	2.878E+00	1.655E-01	0.204
TH-234	1.154E+00	+	4.287E-01	5.856E-01	6.832E-02	1.970
U-235	1.951E-02		9.627E-02	1.620E-01	1.131E-02	0.120
NP-236	1.168E-02		3.199E-02	5.490E-02	6.031E-03	0.213
NP-239	3.798E-02		9.422E-02	1.575E-01	2.125E-02	0.241
AM-241	3.557E-02		8.982E-02	1.587E-01	1.262E-02	0.224
CM-243	-6.168E-02		5.111E-02	8.230E-02	9.379E-03	-0.749
AM-246	-3.658E-02		4.524E-02	7.237E-02	8.907E-03	-0.506
CF-249	3.576E-03		1.587E-02	2.788E-02	2.690E-03	0.128

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:39:13

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784501_GAMMA3_400MLSAN_16059.CNF

---- Sample Information ----

Sample ID	: OH207-7845-01
Sample Title	: SB-CZ-SS-2020-SD
Sample Quantity	: 4.19300E+02 GDRY
Sample Type	: SOIL
Sample Geometry	: 400 ml sand
Sample Seq No.	: 16059

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 28-SEP-2007 09:24:35
Decay time	: 38 09:24:35.34	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.91

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.28*	165	680	1.47	140.58	135	11	66.6		TH-234
1	74.88	596	707	1.44	166.29	159	19	19.2	1.27E+00	AM-243
										PB-214
										PB-212
1	77.11*	926	592	1.38	171.24	159	19	12.2		PB-214
										PB-212
5	87.33	390	698	1.79	193.90	182	34	29.1	2.26E+00	NP-237
										PB-214
										PB-212
5	89.96	255	492	1.40	199.72	182	34	35.3		
5	92.74*	333	551	1.67	205.89	182	34	34.1		TH-234
0	185.93*	293	491	1.64	412.44	406	15	36.2		
0	209.07	125	351	0.96	463.73	459	10	59.1		AC-228
0	238.51*	1383	685	1.25	528.98	521	13	9.7		PB-212
0	270.23	162	326	1.91	599.28	592	15	51.2		RA-223
										AC-228
1	295.07	250	202	1.59	654.35	647	25	25.5	7.63E-01	PB-214
1	300.17	90	235	1.74	665.65	647	25	70.0		PB-212
0	328.30	116	216	1.81	728.01	721	13	55.7		
0	338.49	375	248	1.55	750.60	745	15	21.0		AC-228
0	351.79*	444	206	1.56	780.06	772	15	17.2		PB-214
0	462.24	77	151	1.28	1024.87	1021	14	71.0		AC-228
0	510.38*	108	262	2.11	1131.57	1123	22	83.7		TL-208
0	582.91*	480	148	1.56	1292.32	1283	19	15.4		TL-208
0	608.87*	335	115	1.72	1349.87	1340	20	19.5		BI-214
0	727.09*	81	81	1.28	1611.88	1609	12	52.0		BI-212
0	794.60	67	41	1.24	1761.49	1756	11	44.5		AC-228
0	859.73	58	53	1.56	1905.83	1898	15	60.9		TL-208
0	910.71*	329	72	1.82	2018.83	2010	18	16.6		AC-228
5	964.13	72	27	2.32	2137.21	2131	25	36.1	1.29E+00	AC-228
5	968.43*	188	35	2.41	2146.75	2131	25	21.5		AC-228
0	1120.24*	83	33	2.05	2483.17	2473	21	43.0		BI-214
0	1459.96*	232	39	1.32	3236.01	3227	22	19.5		K-40
0	1763.33*	36	11	1.45	3908.25	3903	12	54.5		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	89.96	255	492	1.40	199.72	182	34	2.36E-02	35.3	3.55E+00	
0	185.93	293	491	1.64	412.44	406	15	2.72E-02	36.2	2.82E+00	
0	328.30	116	216	1.81	728.01	721	13	1.07E-02	55.7	1.89E+00	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.331E+00	4.748E-01	2.578E-01	1.517E-02	9.040
TL-208	2.897E-01	5.027E-02	3.167E-02	2.520E-03	9.148
BI-212	4.223E-01	2.218E-01	2.320E-01	1.684E-02	1.820
PB-212	7.936E-01	9.704E-02	6.718E-02	5.022E-03	11.812
BI-214	3.851E-01	8.047E-02	5.772E-02	4.398E-03	6.673
PB-214	3.939E-01	7.459E-02	5.649E-02	4.494E-03	6.974
RA-223	3.195E-01	1.660E-01	1.425E-01	1.261E-02	2.242
AC-228	9.476E-01	1.708E-01	1.127E-01	7.923E-03	8.409
TH-234	1.036E+00	3.649E-01	3.485E-01	3.120E-02	2.972
NP-237	5.282E-01	1.644E-01	1.515E-01	1.688E-02	3.488
AM-243	1.492E-01	4.059E-02	3.013E-02	5.794E-03	4.953

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	6.652E-03		1.624E-02	2.627E-02	1.393E-03	0.253
RH-101	4.433E-03		1.738E-02	2.952E-02	4.556E-03	0.150
SB-125	-5.422E-04		4.388E-02	7.692E-02	6.358E-03	-0.007
CS-137	-1.064E-02		1.862E-02	3.091E-02	2.226E-03	-0.344
EU-155	7.540E-02		5.303E-02	9.420E-02	8.858E-03	0.800
PO-209	1.925E+00		3.360E+00	6.275E+00	1.156E+00	0.307
BI-211	1.939E-01		5.199E-01	9.215E-01	6.636E-02	0.210
PA-233	6.428E-03		3.222E-02	5.483E-02	4.475E-03	0.117
PA-234M	1.197E+00		2.115E+00	4.015E+00	2.741E-01	0.298
U-235	2.858E-02		1.067E-01	1.825E-01	1.355E-02	0.157
NP-236	2.400E-02		3.298E-02	4.861E-02	4.639E-03	0.494
NP-239	6.065E-02		1.130E-01	1.950E-01	2.609E-02	0.311
AM-241	3.734E-02		3.754E-02	5.673E-02	3.590E-03	0.658
CM-243	3.847E-02		4.809E-02	8.450E-02	9.105E-03	0.455
AM-246	6.187E-02		6.119E-02	1.181E-01	1.491E-02	0.524
CF-249	-2.559E-03		1.883E-02	3.285E-02	3.272E-03	-0.078

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:39:33

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784502_GAMMA2_400MLSAN_16057.CNF

---- Sample Information ----

Sample ID	: OH207-7845-02		
Sample Title	: SB-CZ-SS-2021-SD		
Sample Quantity	: 4.38600E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16057		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 27-SEP-2007 18:50:35
Decay time	: 37 18:50:35.19	% 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA2__15827.CNF;1
Nuclide Lib File : SYS$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 Woal Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.83*	138	784	1.35	127.34	123	10	78.9		TH-234
3	74.84	458	571	1.06	149.27	144	16	18.8	1.19E+00	AM-243
										PB-214
										PB-212
3	77.09	689	695	1.32	153.74	144	16	16.0		PB-214
										PB-212
1	87.36	194	663	1.11	174.20	171	11	46.4	8.80E-01	NP-237
										PB-214
										PB-212
1	89.77	148	542	0.99	178.99	171	11	53.4		
0	93.15*	484	905	1.60	185.72	182	12	27.3		TH-234
0	129.27	160	698	1.02	257.64	254	9	61.6		AC-228
0	186.00*	313	728	1.20	370.62	365	11	36.1		
0	209.45	223	678	1.14	417.33	412	12	48.7		AC-228
3	238.74*	2081	360	1.12	475.67	471	15	5.4	6.97E-01	PB-212
3	241.17*	269	414	1.63	480.50	471	15	42.8		
3	242.13*	141	242	1.07	482.42	471	15	47.2		PB-214
0	270.63	186	425	1.46	539.18	535	12	46.7		RA-223
										AC-228
0	277.50	58	289	1.05	552.88	550	8	104.0		TL-208
0	295.45	435	361	1.18	588.63	584	10	19.0		PB-214
0	301.39	207	433	1.59	600.48	594	15	46.3		PB-212
0	328.14	118	317	1.30	653.76	650	11	61.1		
0	338.50	437	289	1.24	674.41	669	11	17.8		AC-228
0	352.20*	667	274	1.35	701.71	697	10	12.3		PB-214
0	463.00	179	160	1.59	922.52	916	13	32.2		AC-228
0	510.89*	247	236	1.71	1018.00	1010	16	33.1		TL-208
0	583.40*	639	169	1.45	1162.57	1155	14	11.8		TL-208
0	609.33*	550	114	1.28	1214.29	1208	13	11.9		BI-214
0	727.34	124	78	1.20	1449.67	1445	10	32.0		BI-212
0	785.88	49	67	2.08	1566.46	1561	9	66.8		BI-212
0	794.70	94	87	1.73	1584.06	1578	12	44.8		AC-228
0	861.18	54	64	1.83	1716.73	1709	10	61.2		TL-208
0	911.22*	470	74	1.97	1816.61	1811	11	11.9		AC-228
1	964.84	108	24	1.93	1923.65	1915	28	29.0	2.81E+00	AC-228
1	968.96*	307	22	1.80	1931.87	1915	28	13.1		AC-228
2	1119.64*	75	23	2.22	2232.77	2227	16	40.4	1.86E+00	
2	1120.49*	53	25	2.22	2234.47	2227	16	61.6		BI-214
0	1376.77*	42	17	1.87	2746.56	2741	10	49.9		BI-214
0	1459.83*	618	23	1.96	2912.62	2904	20	9.2		K-40
0	1762.72*	81	12	2.88	3518.52	3510	15	30.2		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	89.77	148	542	0.99	178.99	171	11	1.37E-02	53.4	2.60E+00	
0	186.00	313	728	1.20	370.62	365	11	2.90E-02	36.1	3.21E+00	
3	241.17	269	414	1.63	480.50	471	15	2.49E-02	42.8	2.78E+00	
0	328.14	118	317	1.30	653.76	650	11	1.09E-02	61.1	2.20E+00	
2	1119.64	75	23	2.22	2232.77	2227	16	6.93E-03	40.4	8.18E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	4.899E+00	5.498E-01	1.940E-01	1.249E-02	25.249
TL-208	3.200E-01	5.039E-02	2.583E-02	2.690E-03	12.391
BI-212	5.327E-01	1.802E-01	2.002E-01	2.189E-02	2.660
PB-212	9.789E-01	9.152E-02	4.242E-02	3.241E-03	23.079
BI-214	5.233E-01	8.362E-02	5.088E-02	5.418E-03	10.285
PB-214	4.881E-01	7.055E-02	5.363E-02	4.112E-03	9.101
RA-223	3.021E-01	1.437E-01	1.343E-01	1.195E-02	2.249
AC-228	1.093E+00	1.606E-01	1.014E-01	8.808E-03	10.780
TH-234	1.893E+00	5.505E-01	4.203E-01	4.204E-02	4.503
NP-237	3.603E-01	1.731E-01	2.349E-01	2.952E-02	1.534
AM-243	1.968E-01	5.387E-02	4.903E-02	9.774E-03	4.013

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-1.593E-02		1.552E-02	2.537E-02	1.476E-03	-0.628
RH-101	2.034E-02		1.618E-02	2.688E-02	4.197E-03	0.757
SB-125	-3.370E-02		3.974E-02	6.419E-02	5.263E-03	-0.525
CS-137	1.691E-02		1.728E-02	3.183E-02	3.621E-03	0.531
EU-155	5.638E-02		5.637E-02	9.688E-02	9.071E-03	0.582
PO-209	-1.228E-01		2.735E+00	4.792E+00	9.187E-01	-0.026
BI-211	-3.718E-01		4.658E-01	7.628E-01	7.467E-02	-0.487
PA-233	-1.284E-02		2.788E-02	4.698E-02	3.784E-03	-0.273
PA-234M	2.263E+00		1.803E+00	3.448E+00	2.692E-01	0.656
U-235	3.488E-02		1.023E-01	1.687E-01	1.231E-02	0.207
NP-236	5.378E-02		3.724E-02	5.819E-02	5.785E-03	0.924
NP-239	-2.446E-02		9.562E-02	1.647E-01	2.223E-02	-0.149
AM-241	3.907E-02		9.464E-02	1.476E-01	9.680E-03	0.265
CM-243	-1.706E-02		5.121E-02	8.475E-02	9.162E-03	-0.201
AM-246	4.098E-02		4.867E-02	9.144E-02	1.170E-02	0.448
CF-249	1.159E-02		1.779E-02	3.126E-02	2.995E-03	0.371

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:39:51

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784503_GAMMA3_400MLSAN_16064.CNF

---- Sample Information ----

Sample ID	: OH207-7845-03		
Sample Title	: SB-CZ-SS-2022-SD		
Sample Quantity	: 5.49400E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16064		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 28-SEP-2007 12:26:48
Decay time	: 38 12:26:48.09	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:01.03

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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 Mooney Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
0	63.10*	176	689	1.42	140.18	135	10	61.0		TH-234
4	74.89	872	937	1.73	166.31	158	19	17.0	2.04E+00	AM-243
										PB-214
										PB-212
4	77.18*	932	707	1.29	171.39	158	19	13.1		PB-214
										PB-212
2	87.13	362	745	1.40	193.44	183	29	28.9	1.34E+00	NP-237
										PB-214
										PB-212
2	89.96	275	706	1.40	199.72	183	29	37.6		
2	92.80*	359	660	1.36	206.00	183	29	31.6		TH-234
0	129.06	154	752	1.78	286.38	281	10	68.5		AC-228
0	185.82*	339	717	1.52	412.19	406	13	35.3		
0	209.11	267	358	1.42	463.81	460	8	27.4		AC-228
5	238.52*	2220	388	1.48	529.02	521	21	5.5	1.57E+00	PB-212
5	241.51	454	387	2.07	535.63	521	21	24.1		PB-214
0	269.77	191	488	1.73	598.27	590	15	52.6		RA-223
										AC-228
0	277.37	63	353	1.07	615.12	609	11	118.9		TL-208
1	295.21	538	238	1.53	654.65	648	35	13.8	1.22E+00	PB-214
1	299.94	204	290	1.74	665.15	648	35	36.2		PB-212
0	328.09	174	383	1.53	727.55	719	16	52.5		
0	338.20	455	389	1.48	749.95	744	15	21.0		AC-228
0	351.84*	815	360	1.68	780.18	772	16	12.6		PB-214
0	408.79	70	211	1.56	906.41	900	12	87.3		AC-228
0	462.69	134	174	1.33	1025.87	1020	12	43.0		AC-228
0	510.57*	104	231	1.86	1131.99	1126	13	69.7		TL-208
0	582.96*	677	156	1.81	1292.43	1285	15	11.3		TL-208
0	608.96*	615	158	1.41	1350.06	1342	15	12.2		BI-214
0	726.74*	166	75	1.56	1611.10	1605	13	26.8		BI-212
0	794.59	78	95	1.87	1761.48	1755	13	56.1		AC-228
0	861.04	81	75	3.50	1908.75	1900	16	52.7		TL-208
0	910.77*	482	63	1.79	2018.96	2011	18	12.2		AC-228
3	964.00	103	22	2.42	2136.93	2131	23	29.6	9.35E-01	AC-228
3	968.25*	299	44	2.05	2146.35	2131	23	14.9		AC-228
0	1120.15*	135	47	1.67	2482.98	2473	17	29.4		BI-214
0	1459.97*	319	28	2.38	3236.04	3226	18	14.0		K-40
0	1629.67	18	15	0.64	3612.08	3605	12	97.9		
0	1763.27*	94	13	2.59	3908.12	3897	19	29.1		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	89.96	275	706	1.40	199.72	183	29	2.55E-02	37.6	3.55E+00	
0	185.82	339	717	1.52	412.19	406	13	3.14E-02	35.3	2.82E+00	
0	328.09	174	383	1.53	727.55	719	16	1.61E-02	52.5	1.89E+00	
0	1629.67	18	15	0.64	3612.08	3605	12	1.67E-03	97.9	5.17E-01	

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.445E+00	3.711E-01	2.267E-01	1.334E-02	10.782
TL-208	3.116E-01	4.312E-02	2.552E-02	2.031E-03	12.209
BI-212	6.623E-01	1.836E-01	1.979E-01	1.436E-02	3.346
PB-212	9.719E-01	9.001E-02	4.250E-02	3.177E-03	22.868
BI-214	5.387E-01	7.741E-02	4.933E-02	3.758E-03	10.922
PB-214	5.512E-01	8.228E-02	5.233E-02	4.164E-03	10.532
RA-223	2.875E-01	1.532E-01	1.333E-01	1.180E-02	2.157
AC-228	1.060E+00	1.496E-01	8.902E-02	6.259E-03	11.911
TH-234	8.525E-01	2.803E-01	3.065E-01	2.744E-02	2.781
NP-237	3.746E-01	1.161E-01	1.332E-01	1.485E-02	2.812
AM-243	1.667E-01	4.277E-02	2.494E-02	4.797E-03	6.683

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.869E-03		1.452E-02	2.529E-02	1.539E-03	-0.113
RH-101	-7.045E-03		1.543E-02	2.553E-02	3.940E-03	-0.276
SB-125	7.390E-03		4.039E-02	7.085E-02	5.857E-03	0.104
CS-137	1.568E-02		1.773E-02	3.177E-02	2.287E-03	0.493
EU-155	5.192E-02		4.584E-02	8.056E-02	7.575E-03	0.645
PO-209	1.892E+00		2.983E+00	5.500E+00	1.013E+00	0.344
BI-211	-3.905E-01		4.535E-01	7.238E-01	5.213E-02	-0.540
PA-233	2.798E-03		2.904E-02	4.757E-02	3.882E-03	0.059
PA-234M	6.228E-01		1.757E+00	3.250E+00	2.219E-01	0.192
U-235	2.793E-02		9.479E-02	1.619E-01	1.202E-02	0.172
NP-236	1.837E-02		2.819E-02	4.326E-02	4.128E-03	0.425
NP-239	-4.163E-02		1.034E-01	1.717E-01	2.297E-02	-0.242
AM-241	3.908E-02		2.903E-02	4.441E-02	2.810E-03	0.880
CM-243	4.324E-03		4.131E-02	7.128E-02	7.681E-03	0.061
AM-246	2.559E-03		5.037E-02	8.986E-02	1.134E-02	0.028
CF-249	1.170E-02		1.786E-02	3.187E-02	3.175E-03	0.367

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:40:11

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784504_GAMMA3_400MLSAN_16071.CNF

---- Sample Information ----

Sample ID	: OH207-7845-04		
Sample Title	: SB-CZ-SS-2023-SD		
Sample Quantity	: 4.08100E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16071		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 28-SEP-2007 15:37:09
Decay time	: 38 15:37:09.64	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:00.81

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG090707_GAMMA3__15828.CNF;1
Nuclide Lib File : SYS$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 Blaine Date: 10/17/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.83	514	649	1.45	166.19	161	15	20.9	1.90E+00	AM-243
										PB-214
										PB-212
2	77.14*	675	502	1.23	171.29	161	15	14.7		PB-214
										PB-212
0	87.01	152	474	1.07	193.17	191	7	50.1		NP-237
										PB-214
										PB-212
0	129.00	180	480	1.70	286.25	280	12	50.8		AC-228
0	185.76*	133	435	1.46	412.07	405	11	66.5		
0	209.34	88	313	1.81	464.32	460	9	75.9		AC-228
0	238.69*	998	563	1.42	529.37	524	12	11.6		PB-212
0	270.28	141	270	1.43	599.41	592	14	52.1		RA-223
										AC-228
0	295.30	244	210	1.56	654.86	649	12	27.1		PB-214
0	301.11	132	240	4.79	667.73	661	16	55.3		PB-212
0	338.22	213	308	1.41	750.00	745	16	38.9		AC-228
0	351.58*	460	167	1.65	779.59	771	15	15.7		PB-214
0	462.62	110	88	1.85	1025.73	1021	11	38.1		AC-228
0	510.60*	178	134	2.35	1132.07	1123	18	38.1		TL-208
0	582.86*	366	125	1.47	1292.22	1285	16	17.5		TL-208
0	608.91*	300	104	1.61	1349.96	1342	15	19.3		
0	661.46	125	62	1.98	1466.43	1461	10	29.7		CS-137
0	727.27*	66	94	1.69	1612.28	1603	15	70.4		BI-212
0	910.73*	284	45	2.07	2018.87	2013	18	16.2		AC-228
0	969.65*	101	147	2.06	2149.44	2140	22	68.0		AC-228
0	1002.88	58	50	3.97	2223.08	2213	23	71.6		PA-234M
0	1237.93	43	29	2.24	2743.98	2737	12	58.6		
0	1460.24*	317	33	2.24	3236.63	3227	19	14.6		K-40
3	1762.77*	44	13	2.36	3907.00	3899	17	52.8	5.57E+00	
3	1764.64*	18	6	1.76	3911.15	3899	17	109.7		

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	185.76	133	435	1.46	412.07	405	11	1.23E-02	66.5	2.82E+00	
0	608.91	300	104	1.61	1349.96	1342	15	2.77E-02	19.3	1.13E+00	T
0	1237.93	43	29	2.24	2743.98	2737	12	4.02E-03	58.6	6.30E-01	T
3	1762.77	44	13	2.36	3907.00	3899	17	4.06E-03	52.8	4.90E-01	
3	1764.64	18	6	1.76	3911.15	3899	17	1.65E-03	****	4.90E-01	T

Flags: "T" = Tentatively associated

---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	3.272E+00	5.157E-01	2.543E-01	1.496E-02	12.866
CS-137	8.567E-02	2.622E-02	3.322E-02	2.392E-03	2.579
TL-208	2.269E-01	4.370E-02	3.102E-02	2.469E-03	7.313
BI-212	3.529E-01	2.498E-01	2.772E-01	2.012E-02	1.273
PB-212	5.884E-01	8.095E-02	5.526E-02	4.131E-03	10.647
PB-214	4.186E-01	7.380E-02	5.964E-02	4.745E-03	7.019
RA-223	2.871E-01	1.517E-01	1.490E-01	1.319E-02	1.927
AC-228	8.407E-01	1.487E-01	1.158E-01	8.140E-03	7.261
PA-234M	5.757E+00	4.143E+00	3.415E+00	2.332E-01	1.686
NP-237	2.115E-01	1.085E-01	1.706E-01	1.901E-02	1.240
AM-243	1.322E-01	3.758E-02	2.925E-02	5.626E-03	4.517

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	-2.837E-03		1.689E-02	2.976E-02	1.811E-03	-0.095
RH-101	-5.315E-03		1.726E-02	2.874E-02	4.436E-03	-0.185
SB-125	-6.681E-03		4.487E-02	7.807E-02	6.454E-03	-0.086
EU-155	3.002E-02		4.944E-02	8.692E-02	8.173E-03	0.345
PO-209	2.207E+00		3.340E+00	6.294E+00	1.160E+00	0.351
BI-211	1.572E-01		5.229E-01	9.234E-01	6.650E-02	0.170
BI-214	3.534E-01	+	7.335E-02	1.133E-01	8.634E-03	3.119
PA-233	2.993E-02		3.261E-02	5.733E-02	4.679E-03	0.522
TH-234	4.675E-01		2.914E-01	5.023E-01	4.497E-02	0.931
U-235	5.965E-02		1.039E-01	1.796E-01	1.333E-02	0.332
NP-236	1.953E-02		2.955E-02	4.920E-02	4.695E-03	0.397
NP-239	4.023E-02		1.101E-01	1.895E-01	2.535E-02	0.212
AM-241	-1.451E-01		3.799E-02	5.339E-02	3.379E-03	-2.717
CM-243	-2.085E-02		4.526E-02	7.712E-02	8.310E-03	-0.270
AM-246	-2.824E-02		5.865E-02	1.001E-01	1.264E-02	-0.282
CF-249	9.351E-03		2.027E-02	3.630E-02	3.615E-03	0.258

SANFORD COHEN & ASSOCIATES, INC.
Montgomery, AL

Gamma Spectroscopy Report Generated 17-OCT-2007 11:40:33

Configuration :
SYS$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]SMP_OH207784505_GAMMA1_400MLSAN_16075.CNF

---- Sample Information ----

Sample ID	: OH207-7845-05		
Sample Title	: SB-CZ-SS-2024-SD		
Sample Quantity	: 4.25700E+02 GDRY		
Sample Type	: SOIL		
Sample Geometry	: 400 ml sand		
Sample Seq No.	: 16075		

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

Collection Date	: 21-AUG-2007 00:00:00	Acquisition date	: 28-SEP-2007 19:02:48
Decay time	: 38 19:02:48.95	% dead time	: 0.0%
Elapsed live time	: 0 03:00:00.00	Elapsed real time	: 0 03:00:02.16

---- 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$SYSDEVICE:[GAMMA.SCUSR.ARCHIVE]BKG_LNGBKG091407_GAMMA1__15882.CNF;1
Nuclide Lib File : SYS$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 Abad Date: 10/18/2007

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides
2	74.94	370	467	1.12	149.29	142	24	22.6	2.68E+00	AM-243
										PB-214
										PB-212
2	77.24*	522	465	1.13	153.89	142	24	16.7		PB-214
										PB-212
0	84.09*	125	420	1.98	167.61	165	7	57.7		
5	87.51	230	411	1.39	174.46	171	20	29.7	1.85E+00	NP-237
										PB-214
										PB-212
5	90.03	239	578	1.54	179.51	171	20	39.2		
5	93.01*	266	476	1.40	185.47	171	20	33.4		
0	186.04*	246	403	1.25	371.76	368	9	33.2		
0	209.21	187	452	1.22	418.15	414	10	45.0		AC-228
1	238.71*	1831	241	1.18	477.22	470	22	5.5	1.87E+00	PB-212
1	241.06	229	207	1.28	481.94	470	22	36.9		
1	242.59	108	170	1.17	485.00	470	22	55.9		PB-214
0	270.37*	164	280	1.26	540.63	536	10	41.7		RA-223
										AC-228
2	295.21*	255	192	1.48	590.36	585	26	23.3	2.80E+00	PB-214
2	299.96	94	171	1.49	599.87	585	26	57.4		PB-212
2	301.03	60	130	1.23	602.00	585	26	75.6		
0	328.07	127	245	1.01	656.15	650	11	50.8		
0	338.29*	441	296	1.38	676.62	669	16	19.9		AC-228
0	351.95*	516	205	1.28	703.97	699	10	13.8		PB-214
0	409.17	98	127	2.03	818.54	813	10	47.5		AC-228
0	462.96	137	156	1.30	926.22	919	13	41.3		AC-228
0	510.66*	255	184	1.66	1021.74	1014	16	29.7		TL-208
0	583.10*	600	108	1.45	1166.76	1161	12	10.8		TL-208
0	609.13*	367	114	1.37	1218.89	1214	11	15.5		BI-214
0	727.53	165	97	1.31	1455.93	1450	14	29.8		BI-212
0	768.42	49	61	1.67	1537.80	1533	10	66.9		BI-214
0	795.36	72	54	1.93	1591.73	1587	11	46.2		AC-228
0	910.96*	431	71	1.66	1823.15	1816	16	13.0		AC-228
1	964.67	71	45	1.87	1930.66	1921	25	42.6	6.65E-01	AC-228
1	968.77	272	32	1.67	1938.88	1921	25	14.5		AC-228
0	1040.49	19	21	1.40	2082.45	2079	8	94.0		
0	1120.51*	76	79	1.94	2242.62	2234	19	60.7		BI-214
0	1400.79	22	9	1.38	2803.65	2796	12	70.1		BI-214
0	1460.46*	279	38	1.72	2923.09	2915	15	15.8		K-40
0	1588.12	27	27	1.19	3178.61	3171	12	85.2		AC-228
0	1592.70	19	15	1.42	3187.77	3183	8	85.5		
0	1764.24*	80	14	2.30	3531.09	3521	19	32.7		BI-214

Interference Report

No interference correction performed

Unidentified Energy Lines

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pwr	Cts/Sec	%Err	%Eff	Flags
0	84.09	125	420	1.98	167.61	165	7	1.16E-02	57.7	2.10E+00	
5	90.03	239	578	1.54	179.51	171	20	2.21E-02	39.2	2.33E+00	
5	93.01	266	476	1.40	185.47	171	20	2.47E-02	33.4	2.43E+00	T
0	186.04	246	403	1.25	371.76	368	9	2.28E-02	33.2	3.03E+00	
1	241.06	228	207	1.28	481.94	470	22	2.12E-02	36.9	2.64E+00	
2	301.03	60	130	1.23	602.00	585	26	5.56E-03	75.6	2.25E+00	
0	328.07	127	245	1.01	656.15	650	11	1.18E-02	47.8	2.11E+00	
0	1040.49	19	21	1.40	2082.45	2079	8	1.76E-03	94.0	8.91E-01	
0	1592.70	19	15	1.42	3187.77	3183	8	1.76E-03	85.5	6.63E-01	

Flags: "T" = Tentatively associated

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---- Identified Nuclides ----

Nuclide	Activity (pCi/GDRY)	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
K-40	2.171E+00	3.740E-01	2.306E-01	1.574E-02	9.415
TL-208	3.133E-01	4.623E-02	2.475E-02	2.483E-03	12.660
BI-212	7.254E-01	2.272E-01	2.006E-01	1.929E-02	3.617
PB-212	9.355E-01	8.880E-02	3.887E-02	3.000E-03	24.065
BI-214	3.636E-01	6.756E-02	4.820E-02	4.909E-03	7.544
PB-214	4.050E-01	6.433E-02	4.849E-02	3.827E-03	8.352
RA-223	2.875E-01	1.228E-01	1.167E-01	1.074E-02	2.464
AC-228	1.010E+00	1.430E-01	7.955E-02	4.396E-03	12.703
NP-237	4.971E-01	1.644E-01	1.872E-01	2.707E-02	2.656
AM-243	1.909E-01	5.883E-02	5.032E-02	1.056E-02	3.794

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

Nuclide	Key-Line Activity (pCi/GDRY)	K.L. Ided	Act error	MDA (pCi/GDRY)	MDA error	Act/MDA
CO-60	2.051E-04		1.433E-02	1.979E-02	1.292E-03	0.010
RH-101	-5.977E-03		1.458E-02	2.393E-02	3.712E-03	-0.250
SB-125	-5.236E-03		3.672E-02	6.289E-02	5.157E-03	-0.083
CS-137	-1.751E-03		1.575E-02	2.783E-02	2.991E-03	-0.063
EU-155	1.603E-02		5.561E-02	9.540E-02	9.472E-03	0.168
PO-209	7.481E-01		2.571E+00	4.687E+00	8.389E-01	0.160
BI-211	-3.146E-01		4.082E-01	6.764E-01	4.928E-02	-0.465
PA-233	1.498E-03		2.490E-02	4.367E-02	3.667E-03	0.034
PA-234M	4.377E-01		1.466E+00	2.712E+00	1.559E-01	0.161
TH-234	1.196E+00	+	4.238E-01	5.760E-01	6.720E-02	2.077
U-235	7.104E-02		9.627E-02	1.648E-01	1.150E-02	0.431
NP-236	4.130E-02		3.312E-02	5.589E-02	6.140E-03	0.739
NP-239	-3.498E-02		9.786E-02	1.577E-01	2.127E-02	-0.222
AM-241	5.826E-02		8.835E-02	1.574E-01	1.252E-02	0.370
CM-243	2.267E-02		4.991E-02	8.620E-02	9.823E-03	0.263
AM-246	1.376E-02		4.517E-02	8.222E-02	1.012E-02	0.167
CF-249	-1.690E-04		1.638E-02	2.833E-02	2.733E-03	-0.006

COUNTING RAW DATA

GPL Laboratories, LLLP
Frederick, MD

GPL Laboratories, LLLP

Analysis Run Log

Project: 709115 Instrument: P3050

Data File Name: 070925.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
STD0		09/25/07	2:47 PM
STD1		09/25/07	2:57 PM
STD2		09/25/07	3:06 PM
STD4		09/25/07	3:16 PM
IVICV		09/25/07	3:21 PM
IBICB		09/25/07	3:31 PM
CVCCV1		09/25/07	3:40 PM
BCCCB1		09/25/07	3:49 PM
PQL		09/25/07	3:59 PM
IAICSAI		09/25/07	4:08 PM
IBICSABI		09/25/07	4:18 PM
CVCCV2		09/25/07	4:50 PM
BCCCB2		09/25/07	4:59 PM
BLK100487	BLK100487	09/25/07	5:09 PM
BKS100487	BKS100487	09/25/07	5:18 PM
S 709115-001-001-1/1	SB-CZ-SS-2000-ST	09/25/07	5:27 PM
SP709115-001-001-1/1	SB-CZ-SS-2000-ST MS	09/25/07	5:37 PM
SD709115-001-001-1/1	SB-CZ-SS-2000-ST MSD	09/25/07	5:46 PM
SE709115-001-001-1/1	SB-CZ-SS-2000-ST	09/25/07	6:05 PM
S 709115-002-002-1/1	SB-CZ-SS-2001-ST	09/25/07	6:14 PM
S 709115-003-003-1/1	SB-CZ-SS-2002-ST	09/25/07	6:23 PM
S 709115-004-004-1/1	SB-CZ-SS-2003-ST	09/25/07	6:33 PM
CVCCV3		09/25/07	6:45 PM
BCCCB3		09/25/07	6:54 PM
S 709115-005-005-1/1	SB-CZ-SS-2004-ST	09/25/07	7:04 PM
S 709115-006-006-1/1	SB-CZ-SS-2005-ST	09/25/07	7:13 PM
S 709115-007-007-1/1	SB-CZ-SS-2006-ST	09/25/07	7:22 PM
S 709115-008-008-1/1	SB-CZ-SS-2007-ST	09/25/07	7:31 PM
S 709115-009-009-1/1	SB-CZ-SS-2008-ST	09/25/07	7:41 PM
S 709115-010-010-1/1	SB-CZ-SS-2009-ST	09/25/07	7:50 PM
S 709115-011-011-1/1	SB-CZ-SS-2010-ST	09/25/07	7:59 PM
S 709115-012-012-1/1	SB-CZ-SS-2011-ST	09/25/07	8:09 PM
S 709115-013-013-1/1	SB-CZ-SS-2012-ST	09/25/07	8:18 PM
S 709115-014-014-1/1	SB-CZ-SS-2013-ST	09/25/07	8:27 PM
CVCCV4		09/25/07	8:40 PM
BCCCB4		09/25/07	8:49 PM

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Analysis Run Log

Project: 709115 Instrument: V3050

Data File Name: 070928V.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
STD0		09/28/07	11:52 AM
STD1		09/28/07	12:00 PM
STD2		09/28/07	12:09 PM
STD4		09/28/07	12:24 PM
IVICV		09/28/07	12:30 PM
BIICB		09/28/07	12:38 PM
CVCCV1		09/28/07	12:46 PM
BCCCB1		09/28/07	12:55 PM
REPORT LMT		09/28/07	1:06 PM
IAICSA		09/28/07	1:23 PM
IBICSAB		09/28/07	1:31 PM
CVCCV2		09/28/07	1:54 PM
BCCCB2		09/28/07	2:05 PM
S 709115-015-015-1/1	SB-CZ-SS-2014-ST	09/28/07	3:07 PM
S 709115-016-016-1/1	SB-CZ-SS-2015-ST	09/28/07	3:16 PM
S 709115-017-017-1/1	SB-CZ-SS-2016-ST	09/28/07	3:24 PM
S 709115-018-018-1/1	SB-CZ-SS-2017-ST	09/28/07	3:32 PM
S 709115-019-019-1/1	SB-CZ-SS-2018-ST	09/28/07	3:41 PM
CVCCV3		09/28/07	3:52 PM
BCCCB3		09/28/07	4:00 PM
S 709115-020-020-1/1	SB-CZ-SS-2019-ST	09/28/07	4:09 PM
BLK100502	BLK100502	09/28/07	4:20 PM
BKS100502	BKS100502	09/28/07	4:28 PM
S 709115-021-021-1/1	SB-CZ-SS-2020-ST	09/28/07	4:37 PM
SP709115-021-021-1/1	SB-CZ-SS-2020-ST MS	09/28/07	4:45 PM
SD709115-021-021-1/1	SB-CZ-SS-2020-ST MSD	09/28/07	4:53 PM
SE709115-021-021-1/1	SB-CZ-SS-2020-ST	09/28/07	5:10 PM
S 709115-022-022-1/1	SB-CZ-SS-2021-ST	09/28/07	5:18 PM
S 709115-023-023-1/1	SB-CZ-SS-2022-ST	09/28/07	5:27 PM
CVCCV4		09/28/07	5:38 PM
BCCCB4		09/28/07	5:46 PM
S 709115-024-024-1/1	SB-CZ-SS-2023-ST	09/28/07	5:55 PM
S 709115-025-025-1/1	SB-CZ-SS-2024-ST	09/28/07	6:03 PM
S 709115-026-026-1/1	SB-CZ-SS-2000-SD	09/28/07	6:11 PM
S 709115-027-027-1/1	SB-CZ-SS-2001-SD	09/28/07	6:20 PM
S 709115-028-028-1/1	SB-CZ-SS-2002-SD	09/28/07	6:28 PM
S 709115-029-029-1/1	SB-CZ-SS-2003-SD	09/28/07	6:36 PM
S 709115-030-030-1/1	SB-CZ-SS-2004-SD	09/28/07	6:45 PM
S 709115-031-031-1/1	SB-CZ-SS-2005-SD	09/28/07	6:53 PM

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Analysis Run Log

Project: 709115 Instrument: V3050

Data File Name: 070928V.ARC

Sample Name	Client ID	Analysis Date	Analysis Time
S 709115-032-032-1/1	SB-CZ-SS-2006-SD	09/28/07	7:02 PM
S 709115-033-033-1/1	SB-CZ-SS-2007-SD	09/28/07	7:10 PM
CVCCV5		09/28/07	7:21 PM
BCCCB5		09/28/07	7:29 PM
S 709115-034-034-1/1	SB-CZ-SS-2008-SD	09/28/07	7:38 PM
S 709115-035-035-1/1	SB-CZ-SS-2009-SD	09/28/07	7:46 PM
S 709115-036-036-1/1	SB-CZ-SS-2010-SD	09/28/07	7:55 PM
S 709115-037-037-1/1	SB-CZ-SS-2011-SD	09/28/07	8:03 PM
S 709115-038-038-1/1	SB-CZ-SS-2012-SD	09/28/07	8:11 PM
S 709115-039-039-1/1	SB-CZ-SS-2013-SD	09/28/07	8:20 PM
S 709115-040-040-1/1	SB-CZ-SS-2014-SD	09/28/07	8:28 PM
CVCCV6		09/28/07	9:04 PM
BCCCB6		09/28/07	9:13 PM
BLK100503	BLK100503	09/28/07	9:21 PM
BKS100503	BKS100503	09/28/07	9:29 PM
S 709115-041-041-1/1	SB-CZ-SS-2015-SD	09/28/07	9:38 PM
SP709115-041-041-1/1	SB-CZ-SS-2015-SD MS	09/28/07	9:46 PM
SD709115-041-041-1/1	SB-CZ-SS-2015-SD MSD	09/28/07	9:54 PM
SE709115-041-041-1/1	SB-CZ-SS-2015-SD	09/28/07	10:11 PM
S 709115-042-042-1/1	SB-CZ-SS-2016-SD	09/28/07	10:20 PM
S 709115-043-043-1/1	SB-CZ-SS-2017-SD	09/28/07	10:28 PM
S 709115-044-044-1/1	SB-CZ-SS-2018-SD	09/28/07	10:36 PM
CVCCV7		09/28/07	10:47 PM
BCCCB7		09/28/07	10:56 PM
S 709115-045-045-1/1	SB-CZ-SS-2019-SD	09/28/07	11:04 PM
S 709115-046-046-1/1	SB-CZ-SS-2020-SD	09/28/07	11:13 PM
S 709115-047-047-1/1	SB-CZ-SS-2021-SD	09/28/07	11:21 PM
S 709115-048-048-1/1	SB-CZ-SS-2022-SD	09/28/07	11:29 PM
S 709115-049-049-1/1	SB-CZ-SS-2023-SD	09/28/07	11:38 PM
S 709115-050-050-1/1	SB-CZ-SS-2024-SD	09/28/07	11:46 PM
CVCCV8		09/29/07	12:31 AM
BCCCB8		09/29/07	12:39 AM

Document Control No: GP_M_178

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ICP ANALYSIS LOG

Instrument ID: Trace (424690) Inst. Method: Trace Pb Nebulizer: Conical Analytical Batch No: 070925

Profile: 0.01973 Intensity: 6652 At Setting: 444

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
709115	SC&A	100487	131	S	9-25-07	6010C	Pb only 10x for all Samples Ferrum 15 → 207 Instrument Stop

KC 26/Sep/2007

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: 709115-001-001-X

Analyst: KC Date: 26/Sep/2007 Reviewed: RA Date: 9-26-07

Supersedes GP_M_165

ICP ANALYSIS LOG

GPL - Maryland Laboratory

ICPST Analysis Log

Seq	Sample Name	Dil	Date	Time	Seq	Sample Name	Dil	Date	Time	Seq	Sample Name	Dil	Date	Time
1	STD0		10/25/2007	14:47	31	S 709115-009-009-1/1		10/25/2007	19:41					
2	STD1		10/25/2007	14:57	32	S 709115-010-010-1/1		10/25/2007	19:50					
3	STD2		10/25/2007	15:06	33	S 709115-011-011-1/1		10/25/2007	19:60					
4	STD4		10/25/2007	15:16	34	S 709115-012-012-1/1		10/25/2007	20:09					
5	VICV		10/25/2007	15:21	35	S 709115-013-013-1/1		10/25/2007	20:18					
6	BICB		10/25/2007	15:31	36	S 709115-014-014-1/1		10/25/2007	20:27					
7	CVCCV	K	10/25/2007	15:40	37	CVCCV3	K	10/25/2007	20:40					
8	BCCCB		10/25/2007	15:46	38	BCCCB3		10/25/2007	20:46					
9	POL	Mo	10/25/2007	15:50	39	S 709115-015-015-1/1		10/25/2007	20:58					
10	MICSAI	Ca, Cu, Mg, Zn	10/25/2007	16:08	40	S 709115-016-016-1/1		10/25/2007	21:00					
11	BICSABI	K	10/25/2007	16:18	41	S 709115-017-017-1/1		10/25/2007	21:17					
12	LR		10/25/2007	16:27										
13	CVCCV3	K, Mo	10/25/2007	16:50										
14	BCCCB3		10/25/2007	16:59										
15	BLK100487		10/25/2007	17:09										
16	BKS100487		10/25/2007	17:18										
17	S 709115-001-001-1/1		10/25/2007	17:27										
18	SP709115-001-001-1/		10/25/2007	17:37										
19	SD709115-001-001-1/		10/25/2007	17:40										
20	PS709115-001-001-1/		10/25/2007	17:55										
21	SE709115-001-001-1/	50	10/25/2007	18:05										
22	S 709115-002-002-1/1		10/25/2007	18:14										
23	S 709115-003-003-1/1		10/25/2007	18:23										
24	S 709115-004-004-1/1		10/25/2007	18:33										
25	CVCCV3	K, Mo	10/25/2007	18:45										
26	BCCCB3		10/25/2007	18:54										
27	S 709115-005-005-1/1		10/25/2007	19:04										
28	S 709115-006-006-1/1		10/25/2007	19:13										
29	S 709115-007-007-1/1		10/25/2007	19:22										
30	S 709115-008-008-1/1		10/25/2007	19:31										

Analyst Signature: [signature] Date: 10/25/2007 Analyst Signature:

Sample Dilutions:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	IVICV	AUG1207	TRACEPB	09/25/07	15:21	LCM	Q	CONC
2	IBICB	AUG1207	TRACEPB	09/25/07	15:31	LCM	Q	CONC
3	CVCCV	AUG1207	TRACEPB	09/25/07	15:40	LCM	Q	CONC
4	BCCCB	AUG1207	TRACEPB	09/25/07	15:49	LCM	Q	CONC
5	PQL	AUG1207	TRACEPB	09/25/07	15:59	LCM	Q	CONC
6	IAICSAI	AUG1207	TRACEPB	09/25/07	16:08	LCM	Q	CONC
7	IBICSABI	AUG1207	TRACEPB	09/25/07	16:18	LCM	Q	CONC
8	LR	AUG1207	TRACEPB	09/25/07	16:27	LCM	Q	CONC
9	CVCCV3	AUG1207	TRACEPB	09/25/07	16:50	LCM	Q	CONC
10	BCCCB3	AUG1207	TRACEPB	09/25/07	16:59	LCM	Q	CONC
11	CVCCV3	AUG1207	TRACEPB	09/25/07	18:45	LCM	Q	CONC
12	BCCCB3	AUG1207	TRACEPB	09/25/07	18:54	LCM	Q	CONC
13	CVCCV3	AUG1207	TRACEPB	09/25/07	20:40	LCM	Q	CONC
14	BCCCB3	AUG1207	TRACEPB	09/25/07	20:49	LCM	Q	CONC

#	Element	IVICV	IBICB	CVCCV	BCCCB	PQL	IAICSAI
1	AL	5071.3	2.4981	50701.	12.703	208.72	484900.
2	SB	404.84	-.70398	509.20	-1.1077	19.338	-.62782
3	AS	Q428.02	2.0431	510.24	.32974	22.912	.57970
4	BA	419.25	.05095	498.39	.12600	4.9420	.88155
5	BE	Q42.101	.00808	49.548	-.05207	1.9829	.45897
6	CD	Q42.028	.04951	495.60	.24397	6.2435	1.6395
7	CA	4779.5	3.4831	98339.	10.223	932.08	500540.
8	CR	407.20	.25976	496.50	.51606	5.4796	1.0645
9	CO	Q433.82	.33797	497.78	.09111	5.5083	Q2.8926
10	CU	403.59	-.28145	511.11	-.00446	9.6126	Q5.1506
11	FE	5087.8	-6.4415	49279.	9.0798	151.29	190400.
12	PB	418.89	-.68094	498.32	.75214	10.063	4.9188
13	MG	5049.1	-.30374	99985.	23.235	263.66	495650.
14	MN	415.21	.13637	501.00	.19936	5.1106	Q12.878
15	NI	418.21	.43940	494.53	-.05186	10.311	3.1909
16	K	Q5448.0	-8.1539	Q27839.	6.6441	268.44	-2.5920
17	SE	410.55	-.41897	507.91	-.03830	18.853	3.5455
18	AG	405.81	-.09044	517.52	-.38793	4.8270	.04191
19	NA	Q10994.	-174.11	Q110820.	-14.868	2878.2	155.89
20	TL	409.68	.37367	507.06	-1.1445	29.088	-4.6303
21	V	413.54	-.59923	498.22	.02909	10.040	1.1885
22	ZN	Q425.98	-.36181	495.16	.10486	20.834	Q22.899
23	B	Q425.26	.67396	511.61	.28148	14.770	5.2690
24	MO	408.21	2.0797	501.22	1.7247	Q6.4345	.61722
25	SN	416.42	-.59039	508.39	-1.1489	25.844	.33657
26	SR	410.38	.10296	501.57	.11070	5.0525	Q4.2965
27	TI	413.96	-.01406	507.95	-.00601	25.343	1.0780
28	*Y	35488.5	35303.6	34778.5	35474.1	35526.5	33122.8
29	SI	Q121.43	-7.3275	523.79	1.2107	50.774	Q26.836
30	ZR	Q-25.632	-51.700	Q326.72	-173.69	-171.01	-165.68
31	TE	Q-1.8704	.81452	514.26	-3.4523	1.6689	-36.946

#	Element	IBICSABI	LR	CVCCV3	BCCCB3	CVCCV3	BCCCB3
1	AL	482430.	155.48	50511.	9.4053	50636.	10.009
2	SB	619.89	5023.1	508.93	-.32028	510.98	-.39190
3	AS	99.515	2007.9	507.11	.94174	512.53	1.9537
4	BA	510.13	9640.4	494.23	.07231	497.11	.09654
5	BE	486.08	483.39	49.966	.05906	49.801	.00692
6	CD	940.97	1977.4	496.22	.26685	493.52	.15939
7	CA	497220.	72.633	97456.	-6.8729	97481.	7.0408
8	CR	484.05	9938.1	499.03	.21122	496.26	.27781
9	CO	473.51	9923.1	498.86	.35316	496.76	.03459
10	CU	533.57	10143.	506.22	-.27316	511.69	-.26525
11	FE	191080.	502070.	49369.	3.2168	49169.	6.6618
12	PB	52.883	19706.	499.59	.59467	498.82	1.3482
13	MG	496500.	70.544	99847.	19.011	100140.	18.967
14	MN	502.60	9694.4	501.78	.16662	499.33	.15355
15	NI	945.57	7419.8	497.24	.77079	493.94	.47192
16	K	Q6136.6	21.960	Q27867.	5.0802	Q28078.	2.2818
17	SE	54.007	1995.0	504.82	.33523	509.67	-2.1042
18	AG	212.64	1011.6	518.00	-.13073	521.56	-.32876

#	Element	IBICSABI	LR	CVCCV3	BCCCB3	CVCCV3	BCCCB3
19	NA	11570.	305.23	Q111410.	43.307	Q111780.	.78276
20	TL	93.826	2020.4	504.91	-4.1554	506.69	.49073
21	V	490.56	9964.1	502.04	.13719	502.75	-.14521
22	ZN	955.70	Q20015.	494.41	-.36245	490.15	-.36596
23	B	1027.3	4981.3	510.02	.38976	509.64	-1.1640
24	MO	992.24	9744.8	504.39	2.7494	504.56	2.0609
25	SN	1009.7	9990.4	513.36	.51115	513.89	1.2126
26	SR	509.12	1977.3	501.65	.08957	508.17	.10519
27	TI	989.21	9979.6	508.73	.05522	510.74	.47497
28	*Y	33094	35381.8	34865.9	35270.5	34937.5	35376.5
29	SI	Q1333.8	11552.	521.27	-6.4833	524.15	-7.6868
30	ZR	Q19.852	-141.71	Q266.99	-164.13	Q295.83	-175.40
31	TE	172.89	-81.167	510.56	.71336	509.32	1.3275

#	Element	CVCCV3	BCCCB3
1	AL	50989.	9.3399
2	SB	513.57	-.66979
3	AS	515.39	1.2783
4	BA	503.45	.08549
5	BE	50.493	-.12518
6	CD	500.95	.24528
7	CA	98806.	18.921
8	CR	502.03	.05848
9	CO	502.21	.49929
10	CU	513.70	-.23553
11	FE	49583.	10.204
12	PB	503.34	.66444
13	MG	101170.	21.202
14	MN	504.78	.13774
15	NI	500.02	.43826
16	K	Q28226.	-1.9797
17	SE	519.85	-2.2143
18	AG	525.54	-.06846
19	NA	Q112520.	-156.93
20	TL	518.30	-1.2153
21	V	507.93	-.63877
22	ZN	495.60	-.45759
23	B	513.88	-2.0465
24	MO	512.81	1.5207
25	SN	517.61	-.42280
26	SR	513.03	.10059
27	TI	513.85	.37671
28	*Y	34743.1	35170.6
29	SI	529.74	-7.3718
30	ZR	Q283.64	-215.14
31	TE	513.96	1.7066

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	BLK100487	AUG1207	TRACEPB	09/25/07	17:09	LCM	S	CONC
2	BKS100487	AUG1207	TRACEPB	09/25/07	17:18	LCM	S	CONC
3	S 709115-001-001-1/1	AUG1207	TRACEPB	09/25/07	17:27	LCM	S	CONC
4	SP709115-001-001-1/1	AUG1207	TRACEPB	09/25/07	17:37	LCM	S	CONC
5	SD709115-001-001-1/1	AUG1207	TRACEPB	09/25/07	17:46	LCM	S	CONC
6	PS709115-001-001-1/1	AUG1207	TRACEPB	09/25/07	17:55	LCM	S	CONC
7	SE709115-001-001-1/1	AUG1207	TRACEPB	09/25/07	18:05	LCM	S	CONC
8	S 709115-002-002-1/1	AUG1207	TRACEPB	09/25/07	18:14	LCM	S	CONC
9	S 709115-003-003-1/1	AUG1207	TRACEPB	09/25/07	18:23	LCM	S	CONC
10	S 709115-004-004-1/1	AUG1207	TRACEPB	09/25/07	18:33	LCM	S	CONC
11	S 709115-005-005-1/1	AUG1207	TRACEPB	09/25/07	19:04	LCM	S	CONC
12	S 709115-006-006-1/1	AUG1207	TRACEPB	09/25/07	19:13	LCM	S	CONC
13	S 709115-007-007-1/1	AUG1207	TRACEPB	09/25/07	19:22	LCM	S	CONC
14	S 709115-008-008-1/1	AUG1207	TRACEPB	09/25/07	19:31	LCM	S	CONC
15	S 709115-009-009-1/1	AUG1207	TRACEPB	09/25/07	19:41	LCM	S	CONC
16	S 709115-010-010-1/1	AUG1207	TRACEPB	09/25/07	19:50	LCM	S	CONC
17	S 709115-011-011-1/1	AUG1207	TRACEPB	09/25/07	19:59	LCM	S	CONC
18	S 709115-012-012-1/1	AUG1207	TRACEPB	09/25/07	20:09	LCM	S	CONC
19	S 709115-013-013-1/1	AUG1207	TRACEPB	09/25/07	20:18	LCM	S	CONC
20	S 709115-014-014-1/1	AUG1207	TRACEPB	09/25/07	20:27	LCM	S	CONC
21	S 709115-015-015-1/1	AUG1207	TRACEPB	09/25/07	20:58	LCM	S	CONC
22	S 709115-016-016-1/1	AUG1207	TRACEPB	09/25/07	21:08	LCM	S	CONC
23	S 709115-017-017-1/1	AUG1207	TRACEPB	09/25/07	21:17	LCM	S	CONC

#	Sample Name	AL	SB	AS	BA	BE	CD
1	BLK100487	13.960	4.5055	1.2751	.15348	-.01481	-.11601
2	BKS100487	9922.7	98.912	102.42	1016.9	51.998	102.78
3	S 709115-001-001-1/1	18625.	-.89966	8.0843	17.314	.40739	-.79703
4	SP709115-001-001-1/1	24732.	4.9991	13.762	117.87	5.5513	9.3874
5	SD709115-001-001-1/1	25548.	4.6955	14.323	119.92	5.6071	9.4416
6	PS709115-001-001-1/1	20150.	89.949	99.211	40.015	11.510	21.720
7	SE709115-001-001-1/1	3944.4	-.26882	1.0040	3.5934	.14062	-.20785
8	S 709115-002-002-1/1	8229.1	-.64464	11.242	17.788	.22327	-.44293
9	S 709115-003-003-1/1	9628.5	.43385	10.731	20.697	.30283	-1.0826
10	S 709115-004-004-1/1	13111.	-1.0633	8.3964	15.899	.34262	-.58370
11	S 709115-005-005-1/1	28753.	-.72101	8.9247	52.060	.28600	-.44561
12	S 709115-006-006-1/1	30624.	-1.1828	6.4229	39.264	.20897	-.26048
13	S 709115-007-007-1/1	27632.	-.44257	6.0138	70.003	.38309	-.51966
14	S 709115-008-008-1/1	22319.	.57748	5.0296	38.626	.41876	.02767
15	S 709115-009-009-1/1	24790.	-.82789	5.7959	57.730	.25432	-.07625
16	S 709115-010-010-1/1	24558.	-.64899	5.1833	67.454	.29755	-.29520
17	S 709115-011-011-1/1	23343.	-1.0940	6.4179	34.976	.34705	.09705
18	S 709115-012-012-1/1	21760.	-.61070	7.7269	41.728	.32655	-.15619
19	S 709115-013-013-1/1	25352.	1.4522	6.6749	48.270	.29573	5.1310
20	S 709115-014-014-1/1	21139.	1.9097	6.0217	34.025	.29753	.10202
21	S 709115-015-015-1/1	25551.	.85701	5.6054	62.680	.26918	1.8805
22	S 709115-016-016-1/1	44425.	1.8156	8.8924	31.774	.37776	-.01666
23	S 709115-017-017-1/1	22981.	.46059	3.0327	53.550	.29991	.35003

#	Sample Name	CA	CR	CO	CU	FE	PB
1	BLK100487	35.528	1.1754	-.97403	-.85091	17.505	1.8231
2	BKS100487	9626.6	522.68	504.84	519.98	10139.	993.92
3	S 709115-001-001-1/1	988.30	358.29	4.5578	48.181	230320.	15.756
4	SP709115-001-001-1/1	1948.2	424.41	54.811	101.44	237810.	115.80
5	SD709115-001-001-1/1	2036.5	445.83	54.760	105.99	253150.	117.16
6	PS709115-001-001-1/1	6308.1	386.79	37.648	83.612	235800.	104.94
7	SE709115-001-001-1/1	187.76	76.621	1.2235	9.6663	48270.	4.1942
8	S 709115-002-002-1/1	851.71	242.48	7.9257	57.366	171820.	13.751
9	S 709115-003-003-1/1	908.66	296.50	8.8285	67.605	193080.	15.915
10	S 709115-004-004-1/1	806.76	340.31	9.9678	68.157	211940.	16.652
11	S 709115-005-005-1/1	1053.1	261.48	8.8465	76.304	147600.	13.326
12	S 709115-006-006-1/1	1468.7	289.06	9.8098	63.771	149030.	13.109
13	S 709115-007-007-1/1	2092.1	309.02	16.374	85.531	146050.	21.795
14	S 709115-008-008-1/1	837.44	356.07	13.351	90.522	179350.	17.805
15	S 709115-009-009-1/1	1404.7	313.38	12.948	72.765	147630.	23.236
16	S 709115-010-010-1/1	1827.2	322.97	15.809	99.344	147340.	27.277
17	S 709115-011-011-1/1	1050.4	366.09	9.2781	76.627	183310.	135.21
18	S 709115-012-012-1/1	3126.7	303.18	10.666	88.588	167990.	128.99
19	S 709115-013-013-1/1	1337.0	319.33	9.9422	600.19	163140.	362.37
20	S 709115-014-014-1/1	605.18	314.26	17.168	106.51	146410.	342.02
21	S 709115-015-015-1/1	1694.1	336.42	14.152	201.92	156420.	307.02
22	S 709115-016-016-1/1	1246.4	326.68	7.0348	70.360	180260.	102.74
23	S 709115-017-017-1/1	2175.4	217.49	12.575	69.894	124490.	31.773

#	Sample Name	MG	MN	NI	K	SE	AG
1	BLK100487	27.156	.54239	-4.5950	19.172	-2.2983	-.49168
2	BKS100487	9711.8	1032.8	509.19	10367.	91.609	103.05
3	S 709115-001-001-1/1	818.15	226.04	31.839	294.51	11.574	.30931
4	SP709115-001-001-1/1	1857.8	334.51	89.029	1410.8	15.570	10.340
5	SD709115-001-001-1/1	1911.6	349.65	90.179	1426.3	14.585	10.408
6	PS709115-001-001-1/1	6370.4	319.31	77.762	6423.5	87.714	32.538
7	SE709115-001-001-1/1	175.22	47.528	6.2285	59.078	3.2364	-.30689
8	S 709115-002-002-1/1	884.47	296.49	33.791	319.69	5.9620	-.08430
9	S 709115-003-003-1/1	922.89	306.95	42.836	301.53	6.4198	-.50047
10	S 709115-004-004-1/1	959.57	320.14	46.283	340.47	6.5223	-.33723
11	S 709115-005-005-1/1	1084.1	493.32	59.946	785.27	5.4714	.34512
12	S 709115-006-006-1/1	1008.6	422.47	60.463	605.96	6.2332	-.05688
13	S 709115-007-007-1/1	1299.5	1291.7	68.182	691.20	3.8714	.00593
14	S 709115-008-008-1/1	1033.4	526.23	56.035	573.84	5.5430	.43880
15	S 709115-009-009-1/1	1113.1	612.08	60.835	612.20	4.7821	-.02411
16	S 709115-010-010-1/1	1387.0	1118.0	67.689	758.35	4.9086	.54513
17	S 709115-011-011-1/1	765.39	425.42	43.851	512.67	4.7530	.57379
18	S 709115-012-012-1/1	1379.5	475.65	40.706	944.24	4.4754	-.02411
19	S 709115-013-013-1/1	1029.2	430.09	72.961	536.36	5.8964	.33025
20	S 709115-014-014-1/1	850.14	943.79	55.114	470.20	4.7110	.34391
21	S 709115-015-015-1/1	1157.2	726.73	63.591	768.22	4.3511	.13170
22	S 709115-016-016-1/1	1222.3	313.70	77.977	669.02	11.456	.38655
23	S 709115-017-017-1/1	1124.4	712.41	42.925	625.73	4.7880	.34220

#	Sample Name	NA	TL	V	ZN	B	MO
1	BLK100487	363.38	-9.9415	.04321	5.9649	1.9245	H2.9754
2	BKS100487	11067.	93.247	526.20	1032.0	958.80	520.69
3	S 709115-001-001-1/1	20.735	3.1275	562.63	52.014	-1.8849	3.9572
4	SP709115-001-001-1/1	1436.7	14.611	637.46	157.36	92.871	47.041
5	SD709115-001-001-1/1	1175.3	12.676	679.28	161.44	91.080	45.887
6	PS709115-001-001-1/1	6271.0	114.11	597.20	142.60	75.781	35.848
7	SE709115-001-001-1/1	-79.348	-2.2466	118.82	11.691	-2.0337	1.3215
8	S 709115-002-002-1/1	184.51	1.3668	523.61	74.479	-2.8793	3.1475
9	S 709115-003-003-1/1	86.173	1.6404	570.73	83.448	-4.2563	4.3262
10	S 709115-004-004-1/1	68.563	2.7764	594.04	86.774	-4.1689	4.0406
11	S 709115-005-005-1/1	69.713	-1.0721	388.29	112.38	-1.2866	2.4397
12	S 709115-006-006-1/1	101.33	.91152	420.38	94.118	-1.8965	3.5252
13	S 709115-007-007-1/1	183.41	3.5315	419.73	124.31	-.57582	2.3563
14	S 709115-008-008-1/1	67.766	.59942	532.11	145.55	-4.2197	3.7138
15	S 709115-009-009-1/1	85.056	2.6900	440.40	114.21	-2.4918	1.6987
16	S 709115-010-010-1/1	106.02	1.6335	445.46	145.42	-2.2980	2.2025
17	S 709115-011-011-1/1	-54.043	-4.0147	525.58	107.72	-4.3119	1.9112
18	S 709115-012-012-1/1	151.09	.83699	481.38	129.11	-1.5633	2.9876
19	S 709115-013-013-1/1	96.835	-1.8354	441.89	145.96	-2.8213	5.9960
20	S 709115-014-014-1/1	100.59	1.4383	437.45	139.91	-4.1789	2.3453
21	S 709115-015-015-1/1	-75.231	-2.8415	441.08	204.56	-2.4794	8.3050
22	S 709115-016-016-1/1	-44.944	2.6338	463.57	71.903	-2.5942	2.2080
23	S 709115-017-017-1/1	-46.481	-3.0864	385.43	90.964	-2.1470	1.5239

#	Sample Name	SN	SR	TI	*Y	SI	ZR
1	BLK100487	H25.522	.13370	.20657	34806.8	18.832	-179.53
2	BKS100487	539.56	1037.6	2064.4	35307.4	8879.4	213.46
3	S 709115-001-001-1/1	4.6360	16.274	11823.	35315.5	617.57	-81.679
4	SP709115-001-001-1/1	54.747	118.87	12576.	35381.2	1016.8	-31.160
5	SD709115-001-001-1/1	52.044	120.81	13165.	35123.9	994.06	-15.778
6	PS709115-001-001-1/1	118.27	39.490	12079.	35264.4	6205.3	448.77
7	SE709115-001-001-1/1	-.00587	3.4512	2496.8	35527.9	119.48	-157.89
8	S 709115-002-002-1/1	6.1187	15.571	11317.	35320.9	1216.1	-111.63
9	S 709115-003-003-1/1	4.3486	19.058	12536.	35506.9	954.65	-107.13
10	S 709115-004-004-1/1	6.8836	14.634	12598.	35210	729.87	-95.506
11	S 709115-005-005-1/1	4.0500	16.933	7941.8	35120.8	504.30	-69.202
12	S 709115-006-006-1/1	3.4092	20.057	9013.5	34996.9	572.83	-79.791
13	S 709115-007-007-1/1	2.4878	25.760	9088.9	35232.9	539.67	-64.090
14	S 709115-008-008-1/1	2.0731	12.807	11673.	34863.3	507.79	-69.991
15	S 709115-009-009-1/1	4.5847	19.568	9661.7	34721.1	517.95	-86.370
16	S 709115-010-010-1/1	3.9176	25.288	9896.5	34922.8	526.51	-72.596
17	S 709115-011-011-1/1	3.4174	19.080	11538.	34899	501.11	-65.344
18	S 709115-012-012-1/1	5.0081	44.935	10329.	35345	553.07	-93.067
19	S 709115-013-013-1/1	3.0196	20.090	9633.5	35052.1	531.41	-104.81
20	S 709115-014-014-1/1	4.1058	12.038	9658.3	34955.7	475.66	-89.917
21	S 709115-015-015-1/1	3.7639	23.739	9562.4	35075.9	524.50	-73.744
22	S 709115-016-016-1/1	4.2822	14.302	9662.4	35310.4	558.79	-43.978
23	S 709115-017-017-1/1	4.0373	28.557	7912.9	35056.1	569.81	-57.184

#	Sample Name	TE
1	BLK100487	-30.733
2	BKS100487	337.29
3	S 709115-001-001-1/1	-20.551
4	SP709115-001-001-1/1	10.464
5	SD709115-001-001-1/1	8.1783
6	PS709115-001-001-1/1	532.74
7	SE709115-001-001-1/1	-5.3462
8	S 709115-002-002-1/1	-13.945
9	S 709115-003-003-1/1	-19.432
10	S 709115-004-004-1/1	-23.654
11	S 709115-005-005-1/1	-8.8529
12	S 709115-006-006-1/1	-11.294
13	S 709115-007-007-1/1	-12.888
14	S 709115-008-008-1/1	-15.764
15	S 709115-009-009-1/1	-14.956
16	S 709115-010-010-1/1	-13.220
17	S 709115-011-011-1/1	-17.389
18	S 709115-012-012-1/1	-13.018
19	S 709115-013-013-1/1	-13.639
20	S 709115-014-014-1/1	-13.661
21	S 709115-015-015-1/1	-11.824
22	S 709115-016-016-1/1	-14.382
23	S 709115-017-017-1/1	-11.108

Method: TRACEPB Standard: STD0
Run Time: 09/25/07 14:47:43

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	.02542	.00463	-.00186	.00589	-.00663	-.00210	.07581
#1	.02526	.00404	-.00006	.00562	-.00686	-.00155	.07591
#2	.02558	.00522	-.00367	.00616	-.00641	-.00265	.07570

Elem	CR	CO	CU	FE	MG	MN	NI
Avge	.00032	-.00212	.03234	.00284	-.00030	.00051	-.01328
#1	.00040	-.00203	.03220	.00336	-.00025	.00054	-.01386
#2	.00025	-.00220	.03247	.00232	-.00034	.00048	-.01271

Elem	K	AG	NA	TL	V	ZN	B
Avge	-.00175	.00167	-.00260	-.00402	.00018	.00124	.00443
#1	-.00279	.00161	-.00327	-.00452	.00003	.00133	.00460
#2	-.00071	.00172	-.00192	-.00353	.00034	.00116	.00426

Elem	MO	SN	SR	TI	1/PB	2/PB	1/SE
Avge	-.00017	-.00051	.00600	.00083	-.00814	.00085	-.01286
#1	-.00051	.00006	.00607	.00073	-.01081	.00375	-.01278
#2	.00017	-.00107	.00593	.00093	-.00548	-.00206	-.01293

Elem	2/SE	TE	ZR	SI
Avge	.01704	-.02817	3.9788	.08549
#1	.01651	-.03163	3.9683	.08539
#2	.01756	-.02471	3.9892	.08559

Method: TRACEPB Standard: STD1
Run Time: 09/25/07 14:57:20

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	6.2793	.43028	.34610	2.8148	.11216	2.4663	.73832
#1	6.2561	.42638	.34772	2.8021	.11203	2.4563	.73595
#2	6.3025	.43418	.34447	2.8276	.11229	2.4762	.74068

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	.81506	.99687	6.4970	1.2033	1.2544	.50821	.17275
#1	.81151	.99313	6.4766	1.2001	1.2471	.50799	.17177
#2	.81861	1.0006	6.5175	1.2064	1.2618	.50843	.17374

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.20150	.35951	.72932	.49003	.41304	3.4437	1.6647
#1	.20062	.36055	.72393	.48651	.41086	3.4271	1.6576
#2	.20239	.35847	.73472	.49356	.41521	3.4603	1.6718

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	1.1002	1.3583	.35055	.75838	.48156	4.6003	.34595
#1	1.0965	1.3602	.34761	.75576	.48207	4.6171	.34532
#2	1.1039	1.3564	.35350	.76100	.48105	4.5834	.34658

Method: TRACEPB Standard: STD2
Run Time: 09/25/07 15:06:41

Elem	AL	SB	AS	BA	BE	CD	CR
Avge	12.430	.84961	.69288	5.6214	.22799	4.8802	1.4637
#1	12.417	.84931	.69400	5.6298	.22774	4.8734	1.4617
#2	12.442	.84990	.69176	5.6129	.22825	4.8871	1.4656

Elem	CO	CU	FE	MN	NI	AG	TL
Avge	1.6244	1.9673	12.908	2.3938	2.4935	1.0175	.35214
#1	1.6240	1.9711	12.910	2.3943	2.4952	1.0197	.35113
#2	1.6248	1.9635	12.906	2.3934	2.4917	1.0153	.35316

Elem	V	ZN	B	MO	SN	SR	TI
Avge	.40010	.71126	1.4466	.97866	.82402	6.8764	3.3249
#1	.39976	.70997	1.4465	.97734	.82242	6.8855	3.3246
#2	.40044	.71254	1.4468	.97998	.82563	6.8674	3.3252

Elem	1/PB	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	2.1949	2.6611	.70722	1.4908	.99447	5.1774	.60722
#1	2.1849	2.6661	.70757	1.4887	.99461	5.1759	.60683
#2	2.2048	2.6561	.70687	1.4928	.99433	5.1789	.60760

Method: TRACEPB Standard: STD4
Run Time: 09/25/07 15:16:00

Elem	1/PB	2/PB
Avge	4.3728	5.2941
#1	4.3979	5.3184
#2	4.3476	5.2699

Method: TRACEPB Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AL	308.215	Multiple	Standards	8027.14	-205.082	09/25/07 03:06:41
SB	206.838	Multiple	Standards	1175.34	-5.45063	09/25/07 03:06:41
AS	189.042	Multiple	Standards	1425.91	2.65529	09/25/07 03:06:41
BA	493.409	Multiple	Standards	178.130	-1.04895	09/25/07 03:06:41
BE	313.042	Multiple	Standards	429.228	2.84572	09/25/07 03:06:41
CD	226.502	Multiple	Standards	205.982	.419237	09/25/07 03:06:41
CA	317.933	STD3	STD0	1.07911	-.048743	09/25/07 03:16:00
CR	267.716	Multiple	Standards	679.859	-.231409	09/25/07 03:06:41
CO	228.616	Multiple	Standards	614.580	1.29514	09/25/07 03:06:41
CU	324.753	Multiple	Standards	517.153	-16.7186	09/25/07 03:06:41
FE	271.441	Multiple	Standards	7730.77	-22.7315	09/25/07 03:06:41
PB	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
MG	279.078	STD3	STD0	1.01405	.000422	09/25/07 03:16:00
MN	257.610	Multiple	Standards	416.126	-.217773	09/25/07 03:06:41
NI	231.604	Multiple	Standards	396.860	5.25657	09/25/07 03:06:41
K	766.491	STD3	STD0	1.07841	-.002239	09/25/07 03:16:00
SE	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
AG	328.068	Multiple	Standards	985.795	-1.63840	09/25/07 03:06:41
NA	330.232	STD3	STD0	.892572	.000960	09/25/07 03:16:00
TL	190.864	Multiple	Standards	2877.68	11.5845	09/25/07 03:06:41
V	292.402	Multiple	Standards	2482.50	-.464060	09/25/07 03:06:41
ZN	206.200	Multiple	Standards	1402.98	-1.75396	09/25/07 03:06:41
B	249.678	Multiple	Standards	690.667	-3.06742	09/25/07 03:06:41
MO	202.030	Multiple	Standards	1020.81	.170776	09/25/07 03:06:41
SN	189.989	Multiple	Standards	1213.60	.612993	09/25/07 03:06:41
SR	421.552	Multiple	Standards	145.499	-.873668	09/25/07 03:06:41
TI	334.941	Multiple	Standards	300.700	-.251771	09/25/07 03:06:41
1/PB	220.351	Multiple	Standards	468.989	3.88088	09/25/07 03:16:00
2/PB	220.352	Multiple	Standards	369.577	-.392027	09/25/07 03:16:00
1/SE	196.021	Multiple	Standards	1378.00	17.7067	09/25/07 03:06:41
2/SE	196.022	Multiple	Standards	647.868	-11.0442	09/25/07 03:06:41
TE	214.200	Multiple	Standards	1028.84	28.9870	09/25/07 03:06:41
ZR	349.600	Multiple	Standards	810.185	-3223.58	09/25/07 03:06:41
SI	288.158	Multiple	Standards	1918.18	-163.981	09/25/07 03:06:41

Method: TRACEPB

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AL	308.215	STD0	.000000	-1.03640	1.03640
		STD1	50000.0	50199.7	-199.656
		STD2	100000.	99570.2	429.805
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SB	206.838	STD0	.000000	-.009276	.009276
		STD1	500.000	500.274	-.274231
		STD2	1000.00	993.128	6.87244
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
AS	189.042	STD0	.000000	-.002098	.002098
		STD1	500.000	496.160	3.84039
		STD2	1000.00	990.641	9.35913
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BA	493.409	STD0	.000000	-.000538	.000538
		STD1	500.000	500.358	-.357513
		STD2	1000.00	1000.28	-.284912
CorCoef:	1.00000				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
BE	313.042	STD0	.000000	-.001582	.001582
		STD1	50.0000	50.9864	-.986420
		STD2	100.000	100.707	-.707161
CorCoef:	0.99997				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CD	226.502	STD0	.000000	-.013980	.013980
		STD1	500.000	508.424	-8.42401
		STD2	1000.00	1005.66	-5.66400
CorCoef:	0.99998				
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
CA	317.933	STD0	.033061	.075807	-.042746
		STD3	27.3352	25.3765	1.95875
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CR	267.716	STD0	.000000	-.010726	.010726
		STD1	500.000	501.719	-1.71860
		STD2	1000.00	994.857	5.14331
CorCoef:	0.99999				
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CO	228.616	STD0	.000000	-.006008	.006008
		STD1	500.000	502.215	-2.21506
		STD2	1000.00	999.624	.376221
CorCoef:	1.00000				

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
CU	324.753	STD0	.000000	.003798	-.003798
		STD1	500.000	498.817	1.18329
		STD2	1000.00	1000.67	-.672729

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
FE	271.441	STD0	.000000	-.801174	.801174
		STD1	50000.0	50204.4	-204.355
		STD2	100000.	99767.8	232.227

CorCoef: 0.99999

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	-.000296	.000418
		STD3	8.71535	8.59421	.121144

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MN	257.610	STD0	.000000	-.006341	.006341
		STD1	500.000	500.494	-.494110
		STD2	1000.00	995.916	4.08417

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
NI	231.604	STD0	.000000	-.014197	.014197
		STD1	500.000	503.089	-3.08939
		STD2	1000.00	994.821	5.17877

CorCoef: 0.99998

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	STD0	-.004126	-.001750	-.002376
		STD3	10.3396	9.58991	.749663

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	.003424	-.003424
		STD1	500.000	499.354	.646332
		STD2	1000.00	1001.45	-1.44666

CorCoef: 1.00000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
NA	330.232	STD0	-.001357	-.002597	.001239
		STD3	2.27386	2.54646	-.272600

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TL	190.864	STD0	.000000	.009390	-.009390
		STD1	500.000	508.716	-8.71606
		STD2	1000.00	1024.94	-24.9438

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD0	.000000	-.008439	.008439
		STD1	500.000	499.767	.232605
		STD2	1000.00	992.783	7.21680

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZN	206.200	STD0	.000000	-.011438	.011438
		STD1	500.000	502.638	-2.63766
		STD2	1000.00	996.125	3.87524

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	STD0	.000000	-.006549	.006549
		STD1	500.000	500.651	-.651276
		STD2	1000.00	996.063	3.93665

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
MO	202.030	STD0	.000000	-.002006	.002006
		STD1	500.000	500.401	-.401245
		STD2	1000.00	999.197	.802551

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SN	189.989	STD0	.000000	-.003869	.003869
		STD1	500.000	501.874	-1.87372
		STD2	1000.00	1000.65	-.652527

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SR	421.552	STD0	.000000	-.000900	.000900
		STD1	500.000	500.180	-.179932
		STD2	1000.00	999.640	.359924

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TI	334.941	STD0	.000000	-.001359	.001359
		STD1	500.000	500.323	-.322784
		STD2	1000.00	999.558	.441711

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/PB	220.351	STD0	.000000	.061915	-.061915
		STD1	500.000	519.852	-19.8521
		STD2	1000.00	1033.26	-33.2633
		STD4	2000.00	2054.65	-54.6541

CorCoef: 0.99969

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/PB	220.352	STD0	.000000	-.079399	.079399
		STD1	500.000	501.595	-1.59460
		STD2	1000.00	983.076	16.9236
		STD4	2000.00	1956.20	43.7994

CorCoef: 0.99989

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/SE	196.021	STD0	.000000	-.011601	.011601
		STD1	500.000	500.769	-.769257
		STD2	1000.00	992.258	7.74249

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/SE	196.022	STD0	.000000	-.007233	.007233
		STD1	500.000	480.288	19.7120
		STD2	1000.00	954.790	45.2100

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
TE	214.200	STD0	.000000	.004084	-.004084
		STD1	500.000	524.433	-24.4331
		STD2	1000.00	1052.13	-52.1337

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
ZR	349.600	STD0	.000000	-.044872	.044872
		STD1	500.000	503.492	-3.49152
		STD2	1000.00	971.059	28.9410

CorCoef: 0.99977

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
SI	288.158	STD0	.000000	.001921	-.001921
		STD1	500.000	499.615	.384766
		STD2	1000.00	1000.77	-.769470

CorCoef: 1.00000

Method: TRACEPB Sample Name: IVICV Operator: LCM
Run Time: 09/25/07 15:21:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	5071.302	404.8352	Q428.0153	419.2473	Q42.10115	Q42.02763	4779.451
#1	5077.575	405.1123	Q430.3646	Q420.1576	Q42.05552	Q42.09665	4786.430
#2	5065.028	404.5581	Q425.6659	418.3369	Q42.14678	41.95860	4772.472
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail	QC Fail	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	407.1975	Q433.8185	403.5876	5087.775	418.8897	5049.098	415.2107
#1	407.5656	Q434.0994	403.2353	5102.816	Q420.7401	5057.100	415.9901
#2	406.8295	Q433.5376	403.9399	5072.734	417.0392	5041.096	414.4312
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	418.2142	Q5447.976	410.5459	405.8055	Q10994.49	409.6788	413.5404
#1	Q420.0166	Q5446.078	411.9148	407.2089	Q10997.61	411.5149	414.4261
#2	416.4117	Q5449.873	409.1770	404.4021	Q10991.36	407.8427	412.6547
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail	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	Q425.9827	Q425.2646	408.2100	416.4179	410.3806	413.9650	417.2673
#1	Q427.0254	Q425.4167	407.9314	418.2597	410.9696	414.0432	417.3511
#2	Q424.9400	Q425.1125	408.4885	414.5761	409.7914	413.8868	417.1834
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	400.0000	400.0000	400.0000	400.0000	400.0000	400.0000	
Range	5.000000	5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	419.7004	413.6723	408.9823	Q-1.87039	Q-25.6323	Q121.4348
#1	422.4341	414.3312	410.7062	Q-1.33648	Q-19.8885	Q122.0968
#2	416.9666	413.0135	407.2583	Q-2.40430	Q-31.3761	Q120.7727
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: 09/25/07 15:31:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	2.498102	-.703984	2.043136	.0509509	.0080827	.0495133	3.483122
#1	2.635750	-2.08610	3.501179	.0634373	-.050694	.0432750	5.432991
#2	2.360454	.6781323	.5850936	.0384645	.0668589	.0557516	1.533253
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	.2597700	.3379756	-.281453	-6.44153	-.680941	-.303747	.1363787
#1	.2274390	.3096410	-.469734	-6.22223	-.863323	-.997782	.1456380
#2	.2921010	.3663101	-.093172	-6.66082	-.498559	.3902875	.1271194
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	.4394011	-8.15388	-.418980	-.090442	-174.107	.3736751	-.599237
#1	-.325034	-9.71346	-1.65984	.1640007	-94.3146	2.531339	-.950030
#2	1.203836	-6.59430	.8218770	-.344885	-253.899	-1.78399	-.248444
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	-.361813	.6739600	2.079679	-.590394	.1029696	-.014069	1.981005
#1	-.530517	1.381372	2.008493	-.547731	.1208648	.0949996	1.243564
#2	-.193110	-.033452	2.150865	-.633057	.0850745	-.123137	2.718445
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	-2.01242	.5539373	-.905947	.8145224	-51.7003	-7.32749
#1	-1.91727	-2.60482	-1.18785	1.114487	-63.5195	-8.64085
#2	-2.10757	3.712696	-.624044	.5145577	-39.8811	-6.01414
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: CVCCV Operator: LCM
Run Time: 09/25/07 15:40:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50700.61	509.2006	510.2448	498.3944	49.54768	495.6017	98339.16
#1	50805.32	512.3283	508.5678	499.2697	49.63737	495.9495	98398.76
#2	50595.89	506.0730	511.9218	497.5192	49.45798	495.2538	98279.56
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	496.4959	497.7754	511.1143	49279.14	498.3190	99985.23	501.0006
#1	497.5495	498.0154	512.0091	49258.29	499.0423	100033.4	500.9478
#2	495.4422	497.5356	510.2194	49300.00	497.5956	99937.07	501.0534
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	494.5339	Q27838.56	507.9062	517.5173	Q110821.4	507.0599	498.2183
#1	495.9860	Q27885.57	504.8010	516.9896	Q110881.2	508.2936	498.4360
#2	493.0819	Q27791.56	511.0114	518.0450	Q110761.5	505.8263	498.0006
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail	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	495.1569	511.6147	501.2195	508.3871	501.5657	507.9529	489.9034
#1	494.5290	511.6627	500.1860	506.1567	502.2563	508.6656	488.5550
#2	495.7849	511.5667	502.2530	510.6175	500.8752	507.2403	491.2520
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	502.5263	508.9792	507.3692	514.2587	Q326.7219	523.7908
#1	504.2856	505.8655	504.2683	515.6151	Q331.2738	524.3391
#2	500.7671	512.0930	510.4701	512.9023	Q322.1700	523.2425
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: BCCCB Operator: LCM
Run Time: 09/25/07 15:49:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	12.70283	-1.10768	.3297498	.1260063	-.052080	.2439756	10.22289
#1	13.46731	-1.32117	-2.12080	.1961234	-.009608	.4406009	12.28222
#2	11.93836	-.894197	2.780300	.0558892	-.094551	.0473502	8.163570
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	.5160635	.0911129	-.004467	9.079808	.7521443	23.23455	.1993687
#1	.6310373	.1170414	.2340860	16.48191	.8305041	25.73702	.2171190
#2	.4010897	.0651845	-.243021	1.677704	.6737844	20.73207	.1816184
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	-.051862	6.644091	-.038308	-.387932	-14.8677	-1.14453	.0290945
#1	-.056834	7.574269	-1.02414	-.165774	-68.6855	-.656909	.2395757
#2	-.046890	5.713912	.9475271	-.610091	38.95001	-1.63215	-.181387
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	.1048625	.2814823	1.724659	-1.14891	.1107014	-.006014	1.833534
#1	-.370013	.5537255	1.983452	-1.54231	.1269855	.0956627	2.328865
#2	.5797377	.0092390	1.465866	-.755504	.0944173	-.107692	1.338203
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	.2109428	-1.83256	.8583072	-3.45229	-173.688	1.210743
#1	.0808174	.2289361	-1.65119	-3.81856	-167.076	.9739607
#2	.3410681	-3.89405	3.367803	-3.08602	-180.299	1.447526
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: PQL Operator: LCM
Run Time: 09/25/07 15:59:30
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	208.7234	19.33786	22.91198	4.942004	1.982869	6.243470	932.0781
#1	211.3086	17.93234	22.51334	4.972073	1.917085	6.339840	930.1266
#2	206.1382	20.74339	23.31062	4.911936	2.048653	6.147100	934.0296
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	5.479625	5.508288	9.612627	151.2929	10.06305	263.6573	5.110573
#1	5.388757	5.323648	9.452263	152.9016	10.20589	261.0022	5.123813
#2	5.570494	5.692928	9.772992	149.6842	9.920216	266.3123	5.097332
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000000	5.000000	10.00000	150.0000	10.00000	250.0000	5.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	10.31086	268.4439	18.85340	4.827031	2878.193	29.08783	10.03958
#1	10.01059	270.1155	19.18974	4.682865	2843.262	29.48042	10.10077
#2	10.61113	266.7723	18.51706	4.971197	2913.124	28.69525	9.978392
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	20.83411	14.76961	Q6.434472	25.84436	5.052503	25.34336	9.090496
#1	20.53873	14.98810	Q6.745294	23.92758	5.063919	25.07646	9.421763
#2	21.12949	14.55111	Q6.123650	27.76113	5.041088	25.61026	8.759230
Errors	QC Pass	QC Pass	QC Fail	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	10.54899	17.67133	19.44406	1.668907	-171.013	50.77434
#1	10.59762	16.15868	20.70489	-3.02543	-173.263	52.02516
#2	10.50037	19.18397	18.18323	6.363239	-168.763	49.52352
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						50.00000
Range						20.00000

Method: TRACEPB Sample Name: IAICSAI Operator: LCM
Run Time: 09/25/07 16:08:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	484900.8	-.627827	.5797088	.8815536	.4589734	1.639455	500541.2
#1	486405.4	-1.73101	3.353064	.8617507	.4293016	1.707270	502173.8
#2	483396.2	.4753528	-2.19365	.9013566	.4886452	1.571640	498908.7
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500000.0	.0000000	.0000000	.0000000	.0000000	.0000000	500000.0
Range	100000.0	10.00000	10.00000	2.500000	1.000000	5.000000	100000.0

Elem	CR	CO	CU	FE	PB	MG	MN
Avge	1.064475	Q2.892605	Q5.150620	190402.0	4.918783	495651.4	Q12.87752
#1	1.027122	Q2.829248	Q5.125737	190818.7	4.634156	496673.3	Q12.93904
#2	1.101827	Q2.955961	Q5.175505	189985.2	Q5.203410	494629.5	Q12.81601
Errors	QC Pass	QC Fail	QC Fail	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	3.190864	-2.59199	3.545541	.0419120	155.8885	-4.63031	1.188497
#1	3.630629	-.978943	7.810564	.0292344	197.2333	-6.89705	1.265156
#2	2.751098	-4.20503	-.719482	.0545897	114.5438	-2.36358	1.111838
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
Range	5.000000	125.0000	10.00000	2.500000	1250.000	15.00000	5.000000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	Q22.89892	5.268954	.6172253	.3365726	Q4.296545	1.078007	-12.5081
#1	Q22.69722	4.584459	.2942139	-.856046	Q4.298954	.9207731	-13.8002
#2	Q23.10061	5.953449	.9402367	1.529192	Q4.294136	1.235241	-11.2160
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	13.63175	10.33878	.1485176	-36.9465	-165.677	Q26.83581
#1	13.85078	16.74220	3.344345	-34.4405	-178.160	Q26.85521
#2	13.41272	3.935367	-3.04731	-39.4525	-153.194	Q26.81642
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Fail
Value						.0000000
Range						25.00000

Method: TRACEPB Sample Name: IBICSABI Operator: LCM
Run Time: 09/25/07 16:18:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	482426.0	619.8917	99.51482	510.1300	486.0842	940.9692	497224.4
#1	482374.3	618.2438	104.0003	509.9008	485.3169	943.1493	499104.9
#2	482477.7	621.5397	95.02937	510.3592	486.8516	938.7892	495343.9
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	484.0455	473.5120	533.5737	191081.1	52.88315	496501.8	502.6009
#1	484.4090	473.6360	532.6436	191380.4	53.02846	497219.9	503.3343
#2	483.6820	473.3880	534.5038	190781.8	52.73783	495783.7	501.8675
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	945.5707	Q6136.585	54.00666	212.6397	11569.88	93.82632	490.5573
#1	945.8027	Q6132.604	54.11057	212.9490	11697.06	99.02583	490.1923
#2	945.3386	Q6140.567	53.90275	212.3304	11442.69	88.62682	490.9222
Errors	QC Pass	QC Fail	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	955.7015	1027.318	992.2358	1009.706	509.1242	989.2071	37.60764
#1	961.4647	1027.146	990.0682	1005.794	508.8787	988.2320	37.92976
#2	949.9384	1027.490	994.4035	1013.618	509.3696	990.1824	37.28552
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	60.52043	60.57703	50.72094	172.8862	Q19.85201	Q1333.775
#1	60.57735	56.32098	53.00483	171.9662	Q6.795861	Q1334.433
#2	60.46352	64.83309	48.43704	173.8061	Q32.90816	Q1333.116

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: 09/25/07 16:27:21
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	155.4770	5023.105	2007.909	9640.371	483.3944	1977.390	72.63329
#1	174.6478	5023.765	2007.104	9640.862	481.6710	1972.143	87.37930
#2	136.3061	5022.446	2008.713	9639.881	485.1177	1982.637	57.88728
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	9938.139	9923.117	10142.85	502070.1	19705.75	70.54423	9694.381
#1	9917.344	9906.549	10109.81	501331.3	19659.93	85.72284	9679.316
#2	9958.933	9939.685	10175.89	502808.8	19751.58	55.36561	9709.444
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	7419.770	21.95952	1995.017	1011.633	305.2263	2020.396	9964.064
#1	7403.067	20.35178	1990.652	1010.872	119.7966	2015.159	9923.418
#2	7436.473	23.56726	1999.382	1012.394	490.6560	2025.633	10004.71
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	Q20014.85	4981.321	9744.773	9990.406	1977.266	9979.619	19601.06
#1	Q20001.72	4972.462	9716.062	9968.958	1975.435	9949.889	19547.93
#2	Q20027.98	4990.181	9773.483	10011.85	1979.097	10009.35	19654.20
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	19758.10	2004.272	1990.390	-81.1672	-141.712	11551.95
#1	19715.94	1998.638	1986.659	-85.6083	-144.895	11491.00
#2	19800.27	2009.905	1994.120	-76.7261	-138.530	11612.91
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

Method: TRACEPB Sample Name: CVCCV3 Operator: LCM
Run Time: 09/25/07 16:50:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50510.99	508.9318	507.1059	494.2289	49.96625	496.2154	97456.38
#1	50491.39	509.0439	506.0419	493.2378	50.09658	497.6361	97753.70
#2	50530.60	508.8198	508.1699	495.2199	49.83591	494.7949	97159.06
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	499.0251	498.8591	506.2193	49369.34	499.5924	99846.52	501.7790
#1	500.4253	500.0946	506.6343	49437.60	498.5682	100097.6	501.9862
#2	497.6249	497.6237	505.8043	49301.08	500.6166	99595.41	501.5717
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	497.2446	Q27867.00	504.8180	517.9971	Q111411.4	504.9093	502.0395
#1	498.2168	Q27850.28	505.9928	518.8839	Q111233.5	506.0475	502.2980
#2	496.2724	Q27883.72	503.6432	517.1104	Q111589.4	503.7711	501.7811
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail	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	494.4127	510.0190	504.3879	513.3584	501.6532	508.7271	495.4857
#1	495.5849	512.1979	502.4895	513.8066	501.6043	509.5568	496.5475
#2	493.2404	507.8401	506.2862	512.9103	501.7021	507.8974	494.4240
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	501.6452	510.6992	501.8770	510.5577	Q266.9879	521.2689
#1	499.5782	511.5726	503.2025	514.4904	Q258.4921	522.7275
#2	503.7123	509.8258	500.5515	506.6251	Q275.4837	519.8102
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: 09/25/07 16:59:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9.405340	-.320290	.9417416	.0723106	.0590604	.2668503	-6.87286
#1	9.144973	-1.19023	1.076287	.0965599	.0857659	.2077925	-3.48573
#2	9.665708	.5496497	.8071965	.0480613	.0323548	.3259080	-10.2600
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	.2112281	.3531629	-.273168	3.216778	.5946761	19.01054	.1666295
#1	.0200820	.0883460	.1014724	3.881584	.1496650	22.29799	.1505847
#2	.4023743	.6179798	-.647808	2.551971	1.039687	15.72310	.1826744
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	.7707979	5.080232	.3352368	-.130731	43.30706	-4.15540	.1371944
#1	.2538785	.6385170	2.145934	-.572475	-58.8896	-5.59362	-.036290
#2	1.287717	9.521946	-1.47546	.3110133	145.5037	-2.71717	.3106788
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	-.362457	.3897625	2.749396	.5111591	.0895776	.0552237	-.063055
#1	-.556323	.6470268	3.511213	.9236546	.0909950	.0819291	-1.76526
#2	-.168591	.1324982	1.987580	.0986636	.0881601	.0285184	1.639150
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	.9230310	2.337763	-.666535	.7133601	-164.126	-6.48329
#1	1.106614	3.708311	1.364235	2.616428	-156.323	-6.62129
#2	.7394478	.9672142	-2.69730	-1.18971	-171.929	-6.34530
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: BLK100487 Operator: LCM
Run Time: 09/25/07 17:09:10
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	13.95961	4.505542	1.275123	.1534884	-.014810	-.116011	35.52848
#1	12.11189	3.917519	1.516675	.1227909	.0468187	-.199933	35.90392
#2	15.80732	5.093566	1.033570	.1841860	-.076439	-.032090	35.15303
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	1.175404	-.974035	-.850914	17.50517	1.823052	27.15601	.5423968
#1	1.278879	-.939719	-1.00685	6.785411	1.597931	23.23237	.4800657
#2	1.071929	-1.00835	-.694981	28.22493	2.048173	31.07966	.6047280
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	-4.59496	19.17213	-2.29825	-.491686	363.3769	-9.94148	.0432109
#1	-4.65926	28.81545	-1.43889	-.557644	472.1358	-11.2256	.4032182
#2	-4.53065	9.528804	-3.15761	-.425727	254.6179	-8.65733	-.316796
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	5.964891	1.924496	H2.975415	H25.52179	.1337036	.2065743	5.610155
#1	5.977374	2.213170	H3.881747	H24.77257	.1212323	.3467239	6.246437
#2	5.952409	1.635822	2.069082	H26.27101	.1461749	.0664248	4.973873
Errors	LC Pass	LC Pass	LC High	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	-.071014	-19.8428	6.473538	-30.7332	-179.535	18.83183
#1	-.726838	-19.5066	7.594494	-30.9245	-187.038	15.93822
#2	.5848097	-20.1789	5.352582	-30.5420	-172.031	21.72544
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						50.00000
Low						-50.0000

Method: TRACEPB Sample Name: BKS100487 Operator: LCM
Run Time: 09/25/07 17:18:26
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9922.707	98.91191	102.4178	1016.895	51.99844	102.7790	9626.561
#1	9896.110	100.1291	103.0336	1015.048	52.04027	102.8907	9627.517
#2	9949.303	97.69475	101.8020	1018.742	51.95662	102.6672	9625.606
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	522.6799	504.8356	519.9803	10139.33	993.9208	9711.794	1032.764
#1	522.9002	504.4869	519.6624	10139.43	991.6675	9718.085	1032.706
#2	522.4597	505.1844	520.2982	10139.23	996.1741	9705.503	1032.821
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	509.1934	10366.52	91.60889	103.0452	11066.56	93.24731	526.2032
#1	510.6991	10350.26	92.82042	103.2574	11210.70	92.09987	527.4794
#2	507.6878	10382.79	90.39735	102.8329	10922.42	94.39476	524.9269
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	1032.013	958.7976	520.6892	539.5587	1037.588	2064.440	993.4997
#1	1034.312	957.1325	520.6018	541.7892	1037.636	2065.241	994.6177
#2	1029.713	960.4626	520.7766	537.3283	1037.540	2063.639	992.3817
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	994.1309	74.73004	100.0478	337.2904	213.4609	8879.369
#1	990.1920	79.39394	99.53314	341.0698	217.0200	8877.512
#2	998.0698	70.06615	100.5625	333.5109	209.9017	8881.228
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						12000.00
Low						8000.000

Method: TRACEPB Sample Name: S 709115-001-001-1/1 Operator: LCM
Run Time: 09/25/07 17:27:42
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	18625.13	-.899669	8.084307	17.31449	.4073920	-.797040	988.2957
#1	18649.40	-.583405	9.255070	17.39210	.4201607	-.642731	988.5952
#2	18600.85	-1.21593	6.913544	17.23688	.3946233	-.951349	987.9960
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	358.2899	4.557838	48.18139	230318.4	15.75635	818.1459	226.0448
#1	358.5751	4.464979	48.22816	230349.7	15.59633	817.6989	226.1095
#2	358.0048	4.650698	48.13462	230287.0	15.91637	818.5928	225.9800
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	31.83949	294.5149	11.57436	.3093137	20.73490	3.127504	562.6329
#1	31.62262	294.4145	9.187072	.1544419	-46.9558	6.002315	563.0625
#2	32.05637	294.6154	13.96165	.4641855	88.42557	.2526932	562.2034
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	52.01351	-1.88487	3.957205	4.636023	16.27362	11823.48	15.40437
#1	51.76338	-1.66898	4.156037	6.008194	16.28658	11838.03	16.89099
#2	52.26364	-2.10077	3.758373	3.263851	16.26066	11808.92	13.91775
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	15.93183	5.954547	14.38383	-20.5514	-81.6789	617.5702
#1	14.94849	3.418741	12.07081	-20.9872	-86.4565	611.6865
#2	16.91517	8.490354	16.69686	-20.1157	-76.9013	623.4538
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SP709115-001-001-1/1 Operator: LCM
Run Time: 09/25/07 17:37:15
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24731.64	4.999102	13.76170	117.8678	5.551286	9.387358	1948.162
#1	24643.44	4.629614	13.04368	117.6795	5.572086	9.124336	1941.251
#2	24819.83	5.368590	14.47973	118.0560	5.530486	9.650379	1955.073
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	424.4102	54.81148	101.4357	237806.2	115.7975	1857.756	334.5121
#1	424.0523	54.95725	101.9369	237485.2	115.5927	1857.276	333.8324
#2	424.7680	54.66571	100.9346	238127.1	116.0023	1858.236	335.1918
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10500.00	10500.00	10500.00	525000.0	21000.00	525000.0	10500.00
Low	-5.00000	-5.00000	-10.0000	-150.000	-10.0000	-250.000	-5.00000

Elem	NI	K	SE	AG	NA	TL	V
Avge	89.02852	1410.787	15.57043	10.33991	1436.681	14.61127	637.4562
#1	89.01202	1409.347	15.51239	10.56242	1455.026	17.81870	636.9340
#2	89.04502	1412.227	15.62846	10.11741	1418.337	11.40385	637.9785
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	157.3558	92.87073	47.04128	54.74737	118.8730	12575.95	117.5505
#1	157.2240	91.86485	46.39343	54.24979	118.8235	12564.18	117.0827
#2	157.4875	93.87663	47.68914	55.24496	118.9225	12587.72	118.0182
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	114.9206	9.411362	18.64953	10.46430	-31.1597	1016.816
#1	114.8472	9.887583	18.32437	7.154190	-25.6045	1015.829
#2	114.9940	8.935140	18.97469	13.77441	-36.7149	1017.803
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SD709115-001-001-1/1 Operator: LCM
Run Time: 09/25/07 17:46:30
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	25547.87	4.695521	14.32304	119.9233	5.607076	9.441557	2036.496
#1	25581.63	5.921834	17.12381	120.1005	5.524246	9.555723	2041.184
#2	25514.11	3.469209	11.52227	119.7460	5.689905	9.327391	2031.808
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	445.8311	54.76018	105.9910	253149.3	117.1614	1911.623	349.6523
#1	446.4878	55.25378	105.7041	253556.6	116.8693	1914.353	350.2299
#2	445.1745	54.26659	106.2780	252742.0	117.4535	1908.892	349.0748
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	90.17923	1426.349	14.58500	10.40802	1175.326	12.67635	679.2842
#1	89.42845	1428.594	16.00405	10.52600	1332.795	14.20964	678.6412
#2	90.93000	1424.103	13.16594	10.29003	1017.858	11.14306	679.9271
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	161.4418	91.07973	45.88691	52.04424	120.8087	13165.00	117.8541
#1	161.4449	91.32789	46.20410	52.03225	120.7723	13160.24	116.8260
#2	161.4387	90.83156	45.56971	52.05622	120.8450	13169.75	118.8821
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	116.8145	10.01492	16.86959	8.178284	-15.7783	994.0646
#1	116.8904	11.72878	18.14122	9.638031	-31.7059	992.7189
#2	116.7386	8.301053	15.59795	6.718536	.1492119	995.4102
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: PS709115-001-001-1/1 Operator: LCM
Run Time: 09/25/07 17:55:46
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	20149.61	89.94934	99.21106	40.01541	11.50974	21.72000	6308.123
#1	20415.00	91.72144	100.3212	40.27434	11.49559	21.78678	6327.306
#2	19884.22	88.17723	98.10091	39.75647	11.52388	21.65323	6288.940
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	386.7946	37.64828	83.61198	235801.8	104.9396	6370.432	319.3071
#1	391.8806	37.74040	84.54617	239101.3	104.9921	6393.844	322.5490
#2	381.7086	37.55616	82.67779	232502.2	104.8871	6347.020	316.0652
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	77.76247	6423.477	87.71400	32.53833	6270.970	114.1107	597.2015
#1	77.59032	6433.800	87.83545	32.94384	6260.857	119.2170	602.7653
#2	77.93462	6413.155	87.59255	32.13282	6281.082	109.0045	591.6376
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	142.6036	75.78078	35.84801	118.2676	39.49000	12078.50	105.0931
#1	143.3622	75.49770	36.06127	119.1482	39.72134	12256.06	105.0370
#2	141.8450	76.06387	35.63475	117.3871	39.25866	11900.94	105.1493
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	104.8624	83.31465	89.91324	532.7406	448.7701	6205.304
#1	104.9692	86.40685	88.54942	536.9512	435.8564	6211.633
#2	104.7556	80.22246	91.27707	528.5300	461.6837	6198.974
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: SE709115-001-001-1/1 Operator: LCM
Run Time: 09/25/07 18:05:01
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	3944.418	-.268829	1.003974	3.593447	.1406256	-.207855	187.7556
#1	3951.505	.6917303	-.593601	3.659293	.1767535	-.169661	189.2363
#2	3937.331	-1.22939	2.601549	3.527601	.1044976	-.246049	186.2749
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	76.62085	1.223548	9.666328	48270.49	4.194215	175.2227	47.52786
#1	76.25767	1.336075	9.854143	48399.86	4.642709	177.0174	47.70661
#2	76.98402	1.111020	9.478514	48141.12	3.745720	173.4281	47.34912
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	6.228523	59.07822	3.236356	-.306895	-79.3475	-2.24660	118.8182
#1	6.529201	63.07252	.9523352	-.675651	-38.1846	-3.50842	119.8976
#2	5.927846	55.08390	5.520377	.0618623	-120.511	-.984788	117.7389
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	11.69062	-2.03374	1.321488	-.005872	3.451221	2496.811	3.752130
#1	11.82900	-1.98210	1.642582	-2.15981	3.498812	2507.753	2.825360
#2	11.55224	-2.08539	1.000393	2.148069	3.403630	2485.868	4.678899
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	4.414814	5.187771	2.260270	-5.34620	-157.886	119.4838
#1	5.550874	-1.01775	1.936997	-7.37702	-153.088	122.4517
#2	3.278754	11.39330	2.583544	-3.31539	-162.683	116.5157
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-002-002-1/1 Operator: LCM
Run Time: 09/25/07 18:14:34
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	8229.078	-.644645	11.24157	17.78820	.2232754	-.442934	851.7078
#1	8242.233	1.169609	11.47009	17.75678	.2822175	-.714161	849.9822
#2	8215.922	-2.45890	11.01304	17.81962	.1643333	-.171707	853.4332
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	242.4847	7.925743	57.36566	171818.8	13.75089	884.4673	296.4853
#1	241.2450	7.947792	57.50680	172007.6	13.25683	886.2667	296.8735
#2	243.7244	7.903694	57.22452	171630.0	14.24494	882.6679	296.0970
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	33.79079	319.6932	5.961954	-.084300	184.5101	1.366831	523.6075
#1	33.33251	328.6770	5.192270	-.027530	308.8298	5.535336	526.1451
#2	34.24908	310.7094	6.731638	-.141071	60.19040	-2.80167	521.0699
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	74.47919	-2.87931	3.147511	6.118666	15.57073	11316.79	17.12687
#1	74.80479	-2.61248	3.261177	6.929447	15.59298	11415.68	17.95690
#2	74.15359	-3.14614	3.033845	5.307885	15.54849	11217.90	16.29685
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	12.06247	2.943600	7.470619	-13.9452	-111.631	1216.077
#1	10.90638	.2917876	7.641998	-13.5945	-102.516	1254.850
#2	13.21856	5.595413	7.299240	-14.2960	-120.746	1177.305
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-003-003-1/1 Operator: LCM
Run Time: 09/25/07 18:23:49
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9628.535	.4338522	10.73139	20.69674	.3028355	-1.08258	908.6622
#1	9648.735	-1.03822	9.414276	20.76492	.2392085	-1.09698	910.5381
#2	9608.336	1.905922	12.04851	20.62856	.3664625	-1.06818	906.7864
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	296.5019	8.828504	67.60497	193084.9	15.91484	922.8874	306.9475
#1	295.8370	8.749624	68.05608	193372.7	15.67381	922.4794	307.3171
#2	297.1667	8.907383	67.15385	192797.1	16.15586	923.2953	306.5778
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	42.83585	301.5294	6.419845	-.500472	86.17327	1.640434	570.7252
#1	43.21471	300.5997	8.479712	-.900757	2.346563	7.293469	570.2206
#2	42.45700	302.4591	4.359976	-.100187	170.0000	-4.01260	571.2299
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	83.44765	-4.25627	4.326218	4.348587	19.05821	12536.27	17.29530
#1	83.53571	-4.32359	4.838403	3.073553	19.22463	12551.71	17.54336
#2	83.35959	-4.18894	3.814032	5.623621	18.89178	12520.84	17.04724
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	15.22423	2.053322	8.602680	-19.4322	-107.131	954.6533
#1	14.73862	4.265249	10.58652	-19.5785	-114.926	947.8562
#2	15.70983	-.158606	6.618843	-19.2858	-99.3356	961.4503
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-004-004-1/1 Operator: LCM
Run Time: 09/25/07 18:33:04
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	13110.73	-1.06335	8.396396	15.89852	.3426235	-.583709	806.7584
#1	13270.68	.2198553	10.89467	16.13738	.3297661	-.533926	815.1053
#2	12950.78	-2.34655	5.898117	15.65967	.3554808	-.633492	798.4116
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	340.3084	9.967784	68.15681	211937.5	16.65167	959.5658	320.1436
#1	344.9822	10.27680	69.09161	214471.7	17.20865	979.1974	324.8477
#2	335.6346	9.658768	67.22201	209403.3	16.09468	939.9343	315.4395
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	46.28325	340.4682	6.522334	-.337236	68.56346	2.776444	594.0360
#1	46.43724	353.3326	7.545576	-.588916	107.4219	2.293407	602.3848
#2	46.12925	327.6038	5.499092	-.085556	29.70500	3.259479	585.6873
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	86.77382	-4.16895	4.040628	6.883570	14.63449	12597.98	17.83366
#1	87.09184	-4.73362	4.277512	6.375814	14.79458	12779.31	17.06730
#2	86.45580	-3.60428	3.803743	7.391325	14.47440	12416.64	18.60001
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	16.06029	-2.13369	10.84991	-23.6541	-95.5057	729.8691
#1	17.27899	-1.65931	12.14767	-24.2313	-98.3734	796.4969
#2	14.84159	-2.60807	9.552155	-23.0769	-92.6380	663.2413
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: CVCCV3 Operator: LCM
Run Time: 09/25/07 18:45:12
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50636.43	510.9821	512.5325	497.1059	49.80093	493.5184	97481.08
#1	50712.09	512.8570	509.7246	498.0444	49.65238	491.9535	97168.77
#2	50560.77	509.1072	515.3404	496.1674	49.94948	495.0833	97793.40
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	496.2616	496.7572	511.6891	49168.66	498.8220	100137.6	499.3328
#1	495.5094	495.4128	512.0834	49062.32	496.8632	100011.6	498.5008
#2	497.0138	498.1016	511.2947	49275.01	500.7809	100263.5	500.1648
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	493.9354	Q28078.11	509.6696	521.5582	Q111781.8	506.6854	502.7488
#1	494.6977	Q28173.45	510.4957	522.4948	Q111928.1	504.3358	501.6774
#2	493.1732	Q27982.78	508.8434	520.6216	Q111635.6	509.0350	503.8202
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	500.0000	25000.00	500.0000	500.0000	100000.0	500.0000	500.0000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	490.1501	509.6385	504.5554	513.8929	508.1732	510.7448	493.4663
#1	487.2462	509.4308	501.6404	509.9902	509.0202	510.4362	493.7651
#2	493.0541	509.8462	507.4703	517.7957	507.3263	511.0533	493.1674
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	500.0000	500.0000	500.0000	500.0000	500.0000	500.0000	
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	501.4993	512.9804	508.0138	509.3177	Q295.8328	524.1509
#1	498.4115	512.6870	509.3996	504.4813	Q285.9704	522.4830
#2	504.5871	513.2736	506.6280	514.1540	Q305.6953	525.8188
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: 09/25/07 18:54:28
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	10.00946	-.391902	1.953703	.0965416	.0069224	.1593946	7.040796
#1	10.49186	.0988203	.5208725	.1092939	.1276092	.1849337	8.865109
#2	9.527065	-.882625	3.386533	.0837892	-.113764	.1338554	5.216483
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	.2778187	.0345952	-.265253	6.661784	1.348176	18.96726	.1535507
#1	-.019925	-.217908	.0372472	12.03960	1.588596	19.32769	.1715123
#2	.5755624	.2870980	-.567753	1.283970	1.107755	18.60683	.1355892
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	.4719221	2.281773	-2.10424	-.328761	.7827644	.4907329	-.145214
#1	.1401605	1.840606	-.903175	-.635065	-79.6887	1.589181	.0299841
#2	.8036836	2.722941	-3.30531	-.022457	81.25423	-.607715	-.320411
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	-.365967	-1.16404	2.060897	1.212588	.1051955	.4749799	2.896789
#1	-.445090	-1.36871	2.537329	.5434707	.1176974	.6493816	3.386900
#2	-.286844	-.959378	1.584464	1.881706	.0926937	.3005782	2.406677
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	.5733617	-1.26300	-2.52537	1.327505	-175.396	-7.68685
#1	.6889368	-1.11016	-.800190	-.787434	-174.016	-7.90478
#2	.4577866	-1.41584	-4.25056	3.442443	-176.775	-7.46892
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

Method: TRACEPB Sample Name: S 709115-005-005-1/1 Operator: LCM
Run Time: 09/25/07 19:04:02
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	28752.61	-.721013	8.924744	52.06046	.2860083	-.445611	1053.092
#1	29039.19	-.064636	7.910289	52.66215	.2486336	-.328070	1062.167
#2	28466.03	-1.37739	9.939199	51.45878	.3233829	-.563152	1044.017
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	261.4786	8.846519	76.30362	147604.6	13.32557	1084.124	493.3154
#1	262.9795	8.786213	78.03992	148925.2	13.43345	1092.332	498.0694
#2	259.9777	8.906826	74.56731	146284.1	13.21769	1075.917	488.5615
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	59.94640	785.2651	5.471370	.3451285	69.71297	-1.07213	388.2885
#1	60.89919	790.9028	4.142721	.0418329	33.99857	-2.23235	393.7774
#2	58.99362	779.6273	6.800019	.6484242	105.4274	.0880928	382.7995
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	112.3832	-1.28656	2.439672	4.049962	16.93256	7941.829	14.03988
#1	113.5253	-1.20258	3.316224	3.482704	17.14251	8053.489	13.12408
#2	111.2412	-1.37053	1.563120	4.617220	16.72262	7830.168	14.95568
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	12.96786	-1.16184	8.787456	-8.85287	-69.2021	504.2987
#1	13.58770	-2.57619	7.501659	-11.4562	-60.3440	512.8845
#2	12.34801	.2525182	10.07325	-6.24955	-78.0603	495.7129
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-006-006-1/1 Operator: LCM
Run Time: 09/25/07 19:13:18
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	30624.37	-1.18281	6.422854	39.26380	.2089797	-.260481	1468.690
#1	30890.30	-.877220	6.666397	39.54887	.2474093	-.356798	1480.570
#2	30358.43	-1.48839	6.179310	38.97875	.1705502	-.164164	1456.809
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	289.0566	9.809753	63.77099	149034.7	13.10869	1008.643	422.4714
#1	291.3652	10.11371	64.52511	150107.8	14.03372	1016.624	425.7960
#2	286.7479	9.505791	63.01687	147961.6	12.18366	1000.662	419.1468
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	60.46261	605.9627	6.233153	-.056890	101.3307	.9115257	420.3775
#1	60.67097	608.1497	6.620882	.0732105	44.22885	1.919254	425.5989
#2	60.25425	603.7755	5.845424	-.186990	158.4326	-.096203	415.1562
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	94.11827	-1.89650	3.525240	3.409157	20.05737	9013.490	12.64588
#1	94.96725	-1.96270	3.587552	3.831070	20.24639	9115.786	13.28805
#2	93.26929	-1.83031	3.462927	2.987245	19.86835	8911.193	12.00370
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	13.33966	1.199450	8.749615	-11.2945	-79.7906	572.8319
#1	14.40612	-1.17020	10.51603	-10.9870	-61.6794	574.5821
#2	12.27321	3.569104	6.983196	-11.6019	-97.9017	571.0817
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-007-007-1/1 Operator: LCM
Run Time: 09/25/07 19:22:33
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	27631.63	-.442579	6.013815	70.00337	.3830918	-.519667	2092.092
#1	27532.84	.8162126	7.019602	69.80919	.3832016	-.434735	2090.238
#2	27730.43	-1.70137	5.008028	70.19755	.3829819	-.604599	2093.945
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	309.0215	16.37390	85.53069	146046.8	21.79500	1299.477	1291.728
#1	308.4561	16.63292	85.23062	145927.6	21.02941	1296.666	1290.030
#2	309.5870	16.11487	85.83075	146165.9	22.56059	1302.289	1293.425
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	68.18214	691.2008	3.871386	.0059361	183.4075	3.531498	419.7288
#1	69.06986	693.5024	3.644976	-.334192	234.8515	1.851357	417.8981
#2	67.29443	688.8992	4.097796	.3460641	131.9635	5.211639	421.5594
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	124.3110	-.575822	2.356257	2.487847	25.76044	9088.917	21.60076
#1	123.7440	-.101101	3.176678	2.960999	25.71838	9054.265	21.05139
#2	124.8781	-1.05054	1.535835	2.014695	25.80249	9123.569	22.15013
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	21.89178	1.454383	5.079460	-12.8881	-64.0895	539.6697
#1	21.01808	-.395027	5.664635	-19.8389	-78.3143	537.6592
#2	22.76548	3.303793	4.494286	-5.93723	-49.8648	541.6802
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-008-008-1/1 Operator: LCM
Run Time: 09/25/07 19:31:49
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	22318.85	.5774803	5.029619	38.62583	.4187642	.0276728	837.4413
#1	22288.18	.6090126	6.420275	38.53738	.4130700	.0098457	837.9797
#2	22349.53	.5459480	3.638964	38.71428	.4244585	.0454998	836.9028
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	356.0696	13.35055	90.52232	179351.1	17.80514	1033.361	526.2344
#1	355.8807	13.59533	90.50833	179468.3	18.09459	1039.478	526.7205
#2	356.2586	13.10577	90.53632	179233.9	17.51569	1027.244	525.7483
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	56.03456	573.8405	5.543047	.4388016	67.76636	.5994244	532.1118
#1	56.01226	583.6140	6.679846	1.037566	239.5264	-2.09792	531.1813
#2	56.05685	564.0669	4.406248	-.159962	-103.994	3.296768	533.0424
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	145.5461	-4.21973	3.713774	2.073141	12.80680	11672.63	17.51172
#1	145.3402	-4.04075	3.697847	3.247850	12.79955	11643.37	17.84751
#2	145.7519	-4.39871	3.729701	.8984318	12.81404	11701.89	17.17594
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	17.95146	-.674266	8.651268	-15.7640	-69.9912	507.7929
#1	18.21770	.8248692	9.606987	-17.2656	-83.5987	512.4208
#2	17.68523	-2.17340	7.695549	-14.2625	-56.3837	503.1650
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-009-009-1/1 Operator: LCM
Run Time: 09/25/07 19:41:25
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24789.75	-.827896	5.795942	57.73013	.2543300	-.076260	1404.692
#1	24839.93	-1.44285	5.534732	57.86605	.2836185	.1828136	1407.721
#2	24739.57	-.212942	6.057152	57.59421	.2250415	-.335333	1401.663
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	313.3765	12.94813	72.76505	147630.6	23.23586	1113.097	612.0760
#1	313.8751	12.82092	73.74480	147949.3	23.75287	1114.902	613.3254
#2	312.8780	13.07534	71.78528	147311.9	22.71884	1111.293	610.8266
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	60.83491	612.1953	4.782120	-.024117	85.05606	2.690037	440.4015
#1	61.21459	610.3065	5.394591	-.401834	-16.9971	4.340931	442.3997
#2	60.45524	614.0842	4.169649	.3535998	187.1092	1.039143	438.4034
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	114.2112	-2.49176	1.698748	4.584721	19.56772	9661.715	23.77973
#1	114.0852	-2.87093	1.409197	5.367156	19.61052	9732.907	22.00798
#2	114.3372	-2.11259	1.988298	3.802285	19.52492	9590.523	25.55148
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	22.96349	-.322806	7.334190	-14.9556	-86.3696	517.9476
#1	24.62489	1.446430	7.368278	-15.3602	-79.9705	520.4595
#2	21.30209	-2.09204	7.300102	-14.5511	-92.7686	515.4357
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-010-010-1/1 Operator: LCM
Run Time: 09/25/07 19:50:40
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	24558.37	-.648991	5.183303	67.45407	.2975518	-.295204	1827.216
#1	24575.56	-1.74072	7.220717	67.35111	.2936439	-.421530	1822.000
#2	24541.18	.4427404	3.145889	67.55702	.3014598	-.168879	1832.432
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	322.9745	15.80911	99.34426	147343.6	27.27748	1387.003	1118.015
#1	322.4806	15.39874	99.21942	147294.9	27.92097	1388.758	1116.311
#2	323.4685	16.21948	99.46910	147392.2	26.63400	1385.248	1119.719
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	67.68927	758.3519	4.908620	.5451399	106.0156	1.633524	445.4568
#1	66.99470	762.3536	6.284533	.5783223	261.1154	3.818516	444.3091
#2	68.38383	754.3502	3.532708	.5119575	-49.0842	-.551468	446.6045
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	145.4180	-2.29800	2.202519	3.917643	25.28848	9896.513	28.21922
#1	144.8684	-2.27188	2.150032	6.112723	25.31678	9876.529	29.82534
#2	145.9676	-2.32412	2.255005	1.722562	25.26018	9916.496	26.61310
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10500.00	5250.000	10500.00	10500.00	2100.000	105000.0	
Low	-20.0000	-15.0000	-5.00000	-25.0000	-5.00000	-10.0000	

Elem	2/PB	1/SE	2/SE	TE	ZR	SI
Avge	26.80619	.3448947	7.190050	-13.2196	-72.5960	526.5109
#1	26.96836	1.464490	8.694122	-10.8841	-85.3595	529.8084
#2	26.64402	-.774701	5.685978	-15.5550	-59.8324	523.2134
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-011-011-1/1 Operator: LCM
Run Time: 09/25/07 19:59:55
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	23343.47	-1.09402	6.417890	34.97605	.3470537	.0970507	1050.435
#1	23593.78	-3.47743	5.504118	35.41090	.2812047	.3366051	1064.159
#2	23093.16	1.289391	7.331662	34.54120	.4129027	-.142504	1036.710
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	366.0869	9.278109	76.62747	183306.5	135.2082	765.3908	425.4178
#1	369.4623	9.531345	77.36786	185216.0	137.4982	773.9538	430.1664
#2	362.7114	9.024872	75.88709	181396.9	132.9183	756.8278	420.6691
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	43.85103	512.6679	4.752972	.5737942	-54.0430	-4.01470	525.5798
#1	43.96943	519.4333	4.006235	.6324113	-295.526	-4.33255	530.1131
#2	43.73262	505.9026	5.499709	.5151773	187.4396	-3.69685	521.0466
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	7875.000	52500.00	2100.000	1050.000	525000.0	2100.000	10500.00
Low	-10.0000	-250.000	-5.00000	-5.00000	-2500.00	-30.0000	-10.0000

Elem	ZN	B	MO	SN	SR	TI	1/PB
Avge	107.7173	-4.31189	1.911206	3.417406	19.07990	11538.24	132.0800
#1	107.9288	-4.88580	2.043210	5.927502	19.30101	11650.81	132.7764
#2	107.5057	-3.73799	1.779203	.9073105	18.85878	11425.68	131.3835
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	136.7720	-.600092	7.429069	-17.3893	-65.3439	501.1106
#1	139.8586	-4.74145	8.379639	-17.8786	-79.1812	511.2304
#2	133.6853	3.541264	6.478500	-16.9000	-51.5066	490.9908
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-012-012-1/1 Operator: LCM
Run Time: 09/25/07 20:09:10
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	21760.15	-.610704	7.726878	41.72796	.3265534	-.156198	3126.674
#1	21771.79	-.230685	8.964028	41.82482	.3359153	-.018972	3131.886
#2	21748.50	-.990724	6.489728	41.63110	.3171915	-.293425	3121.462
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	303.1788	10.66595	88.58763	167988.2	128.9860	1379.538	475.6477
#1	303.2146	10.56872	88.39534	168135.6	127.6748	1381.164	476.2407
#2	303.1429	10.76317	88.77992	167840.7	130.2972	1377.911	475.0547
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	40.70552	944.2384	4.475442	-.024111	151.0919	.8369980	481.3799
#1	40.40213	953.3699	3.999042	-.286085	264.0512	2.596916	480.4976
#2	41.00892	935.1070	4.951843	.2378627	38.13264	-.922920	482.2623
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	129.1116	-1.56326	2.987634	5.008110	44.93522	10329.35	129.5288
#1	128.9419	-1.10965	3.412555	3.854382	44.98156	10321.65	130.2678
#2	129.2812	-2.01686	2.562714	6.161840	44.88888	10337.05	128.7899
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	128.7141	-1.54291	7.484230	-13.0179	-93.0672	553.0715
#1	126.3780	-.813126	6.404739	-11.6275	-101.039	556.2899
#2	131.0502	-2.27269	8.563721	-14.4082	-85.0956	549.8532
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-013-013-1/1 Operator: LCM
Run Time: 09/25/07 20:18:44
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	25352.31	1.452237	6.674950	48.27005	.2957339	5.131019	1336.996
#1	25454.85	-1.47559	5.553612	48.47531	.3303064	5.126003	1346.907
#2	25249.77	4.380062	7.796288	48.06479	.2611615	5.136034	1327.086
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	319.3252	9.942253	600.1873	163143.3	362.3728	1029.193	430.0862
#1	322.1209	9.452593	602.0842	164223.4	363.6343	1035.917	432.7085
#2	316.5295	10.43191	598.2904	162063.2	361.1114	1022.468	427.4640
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	72.96087	536.3552	5.896399	.3302547	96.83514	-1.83538	441.8873
#1	73.32573	546.7393	6.090998	.8895017	252.2954	-.842247	444.0075
#2	72.59601	525.9711	5.701799	-.228992	-58.6251	-2.82852	439.7671
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	145.9566	-2.82128	5.995977	3.019621	20.09040	9633.483	356.4067
#1	147.0875	-3.79992	5.663792	2.636269	20.17440	9672.285	357.0715
#2	144.8257	-1.84264	6.328163	3.402973	20.00639	9594.682	355.7419
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	365.3553	-.944503	9.316353	-13.6388	-104.812	531.4135
#1	366.9151	-1.15025	9.711105	-11.7048	-110.638	534.2416
#2	363.7956	-.738754	8.921600	-15.5727	-98.9862	528.5854
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: S 709115-014-014-1/1 Operator: LCM
Run Time: 09/25/07 20:27:59
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	21138.63	1.909738	6.021716	34.02511	.2975334	.1020289	605.1777
#1	21170.50	2.927895	5.577550	34.00136	.3638733	.3249588	605.5893
#2	21106.76	.8915820	6.465881	34.04885	.2311935	-.120901	604.7660
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	314.2624	17.16807	106.5123	146413.4	342.0182	850.1366	943.7900
#1	314.4408	17.33533	106.5247	146505.4	342.7930	850.3782	944.1994
#2	314.0840	17.00081	106.5000	146321.5	341.2434	849.8950	943.3807
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	55.11432	470.2043	4.711006	.3439133	100.5853	1.438271	437.4493
#1	55.06629	473.1678	5.028504	.3229180	161.5965	1.153935	438.5740
#2	55.16235	467.2409	4.393508	.3649086	39.57413	1.722607	436.3245
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	139.9064	-4.17889	2.345335	4.105788	12.03799	9658.279	337.3854
#1	140.4923	-4.39521	2.046419	5.084134	12.03386	9686.777	340.9964
#2	139.3205	-3.96258	2.644250	3.127442	12.04213	9629.782	333.7744
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	344.3342	.3045934	6.913866	-13.6613	-89.9170	475.6625
#1	343.6910	1.844929	6.619946	-11.1692	-83.6971	475.2705
#2	344.9775	-1.23574	7.207787	-16.1534	-96.1369	476.0544
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						52500.00
Low						-50.0000

Method: TRACEPB Sample Name: CVCCV3 Operator: LCM
Run Time: 09/25/07 20:40:08
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	50989.22	513.5687	515.3878	503.4537	50.49310	500.9460	98805.61
#1	51024.40	513.8892	515.2074	503.9976	50.29335	500.3850	98801.38
#2	50954.04	513.2482	515.5681	502.9097	50.69285	501.5070	98809.84
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	502.0340	502.2081	513.6959	49583.22	503.3417	101171.0	504.7780
#1	502.4767	501.9648	513.7521	49597.74	502.3548	101168.2	505.0947
#2	501.5913	502.4514	513.6396	49568.69	504.3286	101173.8	504.4613
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	500.0244	Q28225.77	519.8469	525.5386	Q112515.2	518.2953	507.9345
#1	500.8775	Q28233.08	517.7812	526.7186	Q112607.9	514.6492	506.6505
#2	499.1712	Q28218.46	521.9125	524.3586	Q112422.5	521.9414	509.2184
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Fail	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	495.6025	513.8818	512.8072	517.6121	513.0300	513.8544	497.4049
#1	496.4918	514.0374	511.1749	517.8555	513.1219	513.3339	495.6447
#2	494.7133	513.7261	514.4395	517.3688	512.9382	514.3750	499.1651
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	506.3098	527.1765	516.1818	513.9635	Q283.6437	529.7370
#1	505.7095	524.5115	514.4158	515.7534	Q273.7000	527.8687
#2	506.9100	529.8415	517.9477	512.1735	Q293.5874	531.6053
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: 09/25/07 20:49:23
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	AL	SB	AS	BA	BE	CD	CA
Avge	9.339851	-.669798	1.278333	.0854906	-.125180	.2452815	18.92077
#1	10.09585	-1.47855	.8710098	.0713025	-.145922	.1839398	22.92316
#2	8.583849	.1389564	1.685656	.0996788	-.104439	.3066232	14.91837
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	.0584869	.4992925	-.235531	10.20429	.6644474	21.20201	.1377488
#1	-.076603	.5595518	-.632857	7.371714	.8697242	22.29849	.1026471
#2	.1935768	.4390331	.1617958	13.03687	.4591706	20.10554	.1728506
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	.4382673	-1.97974	-2.21426	-.068460	-156.929	-1.21526	-.638775
#1	.4002171	-1.98475	-.978736	.2972945	-145.648	-1.42858	-.744774
#2	.4763175	-1.97472	-3.44979	-.434215	-168.210	-1.00193	-.532776
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	-.457594	-2.04645	1.520736	-.422810	.1005928	.3767180	3.210573
#1	-.476386	-2.26167	1.884724	-.492818	.1117870	.4756037	3.236852
#2	-.438802	-1.83123	1.156749	-.352802	.0893987	.2778323	3.184294
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	-.609125	-1.25496	-2.69443	1.706568	-215.143	-7.37185
#1	-.314350	.4131378	-1.67518	3.376926	-236.528	-7.75305
#2	-.903900	-2.92306	-3.71367	.0362093	-193.758	-6.99065
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value						.0000000
Range						50.00000

GPL Laboratories, LLLP *Document Control No: GP_M_196*

ICP ANALYSIS LOG

Instrument ID: Trace (375590) Inst. Method: Trace V2 Nebulizer: Conic Cal Analytical Batch No: 07092RV

Profile: 0.007729 Intensity: 7046 At Setting: 474

Workorder	Client	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
709140	Teledyne		145	S	9-27-07	6010B	10X for 001
709115	SC & A	100487	131	↓	9-25-07	6010C	10X 015-20
709115	↓	100502	132	↓	↓	↓	10X all for Samples
709115	↓	100503	133	↓	↓	↓	↓
709117	↓	↓	↓	↓	9-25-07	↓	↓
709117	↓	100504	134	↓	9-25-07	6010C	↓
709162	Weston Solution	100487	152	e	9-28-07	6010B	
709077	GPL Lab	↓	↓	↓	↓	↓	

ke 28/Sep/2007

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 41563
S0	129-116-09	ICV	41804	Samples:
S1	41232	CCV	41839	709140-001-001-1/3
S2	41234	ICSA	41853	709115-021-021-1/1
S3	41627	ICSAB	41806	709115-041-041-1/1
S4	41816	CRI	41805	709117-001-001-1/1
S5	—	Low Ck	41820	
Ints	41746	LR	41855	

Analyst: ke Date: 28/Sep/2007 Reviewed: RA Date: 10-1-07

Supersedes GP_M_189

ICP ANALYSIS LOG

GPL - Maryland Laboratory

ICP Analysis Log

Data File: 070928V.ARC

Seq	Sample Name	Dil	Date	Time
1	STD0	1	09/28/2007	11:52
2	STD1	1	09/28/2007	12:00
3	STD2	1	09/28/2007	12:09
4	STD3	1	09/28/2007	12:17
5	STD4	1	09/28/2007	12:24
6	ICV	1	09/28/2007	12:32
7	ICB	1	09/28/2007	12:39
8	CVCCV	1	09/28/2007	12:48
9	CCCCB	1	09/28/2007	12:55
10	REPORT LMT (b	1	09/28/2007	13:06
11	CRCRI	1	09/28/2007	13:14
12	AICSA Mn, Zn	1	09/28/2007	13:23
13	BICSAB	1	09/28/2007	13:31
14	LR	1	09/28/2007	13:40
15	CVCCV3	1	09/28/2007	13:54
16	BCCCB3	1	09/28/2007	14:05
17	S 709140-001-001-1/3	100	09/28/2007	14:26
18	SP709140-001-001-1/	100	09/28/2007	14:34
19	SD709140-001-001-1/	100	09/28/2007	14:42
20	PS709140-001-001-1/	100	09/28/2007	14:51
21	SE709140-001-001-1/	500	09/28/2007	14:59
22	S 709115-015-015-1/1	100	09/28/2007	15:07
23	S 709115-018-018-1/1	100	09/28/2007	15:16
24	S 709115-017-017-1/1	100	09/28/2007	15:24
25	S 709115-016-016-1/1	100	09/28/2007	15:32
26	S 709115-019-019-1/1	100	09/28/2007	15:41
27	CVCCV4	1	09/28/2007	15:52
28	BCCCB4	1	09/28/2007	16:00
29	S 709115-020-020-1/1	100	09/28/2007	16:09
30	BLK100502	1	09/28/2007	16:20
31	BKS100502	1	09/28/2007	16:28
32	S 709115-021-021-1/1	100	09/28/2007	16:37
33	SP709115-021-021-1/	100	09/28/2007	16:45
34	SD709115-021-021-1/	100	09/28/2007	16:53
35	PS709115-021-021-1/	100	09/28/2007	17:02
36	SE709115-021-021-1/	500	09/28/2007	17:10
37	S 709115-022-022-1/1	100	09/28/2007	17:18
38	S 709115-023-023-1/1	100	09/28/2007	17:27
39	CVCCV3	1	09/28/2007	17:36
40	BCCCB3	1	09/28/2007	17:46
41	S 709115-024-024-1/1	100	09/28/2007	17:55
42	S 709115-025-025-1/1	100	09/28/2007	18:03
43	S 709115-026-020-1/1	100	09/28/2007	18:11
44	S 709115-027-027-1/1	100	09/28/2007	18:20
45	S 709115-028-028-1/1	100	09/28/2007	18:28
46	S 709115-029-029-1/1	100	09/28/2007	18:36
47	S 709115-030-030-1/1	100	09/28/2007	18:45
48	S 709115-031-031-1/1	100	09/28/2007	18:53
49	S 709115-032-032-1/1	100	09/28/2007	19:02
50	S 709115-033-033-1/1	100	09/28/2007	19:10
51	CVCCV3	1	09/28/2007	19:21
52	BCCCB3	1	09/28/2007	19:29
53	S 709115-034-034-1/1	100	09/28/2007	19:38
54	S 709115-035-035-1/1	100	09/28/2007	19:46
55	S 709115-036-030-1/1	100	09/28/2007	19:55
56	S 709115-037-037-1/1	100	09/28/2007	20:03
57	S 709115-038-038-1/1	100	09/28/2007	20:11
58	S 709115-039-039-1/1	100	09/28/2007	20:20
59	S 709115-040-040-1/1	100	09/28/2007	20:28
60	CRCRI (b	1	09/28/2007	20:36
61	AICSA Mn, Zn	1	09/28/2007	20:48
62	BICSAB	1	09/28/2007	20:56
63	CVCCV3	1	09/28/2007	21:04
64	BCCCB3	1	09/28/2007	21:13
65	BLK100503	1	09/28/2007	21:21
66	BKS100503	1	09/28/2007	21:29
67	S 709115-041-041-1/1	100	09/28/2007	21:38
68	SP709115-041-041-1/	100	09/28/2007	21:46
69	SD709115-041-041-1/	100	09/28/2007	21:54
70	PS709115-041-041-1/	100	09/28/2007	22:03
71	SE709115-041-041-1/	500	09/28/2007	22:11
72	S 709115-042-042-1/1	100	09/28/2007	22:20
73	S 709115-043-043-1/1	100	09/28/2007	22:28
74	S 709115-044-044-1/1	100	09/28/2007	22:36
75	CVCCV4	1	09/28/2007	22:47
76	BCCCB4	1	09/28/2007	22:56
77	S 709115-045-045-1/1	100	09/28/2007	23:04
78	S 709115-046-040-1/1	100	09/28/2007	23:13
79	S 709115-047-047-1/1	100	09/28/2007	23:21
80	S 709115-048-048-1/1	100	09/28/2007	23:30
81	S 709115-040-040-1/1	100	09/28/2007	23:38
82	S 709115-050-050-1/1	100	09/28/2007	23:46
83	S 709117-041-041-1/1	100	09/28/2007	23:54
84	S 709117-042-042-1/1	100	09/28/2007	0:03
85	S 709117-043-043-1/1	100	09/28/2007	0:11
86	S 709117-044-044-1/1	100	09/28/2007	0:20
87	CVCCV4	1	09/28/2007	0:31
88	BCCCB4	1	09/28/2007	0:39
89	S 709117-045-045-1/1	100	09/28/2007	0:47
90	S 709117-046-046-1/1	100	09/28/2007	0:56
91	S 709117-047-047-1/1	100	09/28/2007	1:04
92	S 709117-048-048-1/1	100	09/28/2007	1:13
93	BLK100504	1	09/28/2007	1:24
94	BKS100504	1	09/28/2007	1:32
95	S 709117-001-001-1/1	100	09/28/2007	1:41
96	SP709117-001-001-1/	100	09/28/2007	1:49
97	SD709117-001-001-1/	100	09/28/2007	1:57
98	PS709117-001-001-1/	100	09/28/2007	2:06
99	CVCCV4	1	09/28/2007	2:17
100	BCCCB4	1	09/28/2007	2:25
101	SE709117-001-001-1/	500	09/28/2007	2:34
102	S 709117-002-002-1/1	100	09/28/2007	2:42
103	S 709117-003-003-1/1	100	09/28/2007	2:50
104	S 709117-004-004-1/1	100	09/28/2007	2:59
105	S 709117-005-005-1/1	100	09/28/2007	3:07
106	S 709117-006-006-1/1	100	09/28/2007	3:16
107	CRCRI	1	09/28/2007	3:27
108	AICSA Mn, Zn	1	09/28/2007	3:35
109	BICSAB	1	09/28/2007	3:43
110	CVCCV5	1	09/28/2007	3:52
111	BCCCB5	1	09/28/2007	4:00
112	S 709117-007-007-1/1	100	09/28/2007	4:09
113	S 709117-008-008-1/1	100	09/28/2007	4:17
114	S 709117-009-009-1/1	100	09/28/2007	4:25
115	S 709117-010-010-1/1	100	09/28/2007	4:34
116	S 709117-011-011-1/1	100	09/28/2007	4:42
117	S 709117-012-012-1/1	100	09/28/2007	4:50
118	S 709117-013-013-1/1	100	09/28/2007	4:59
119	S 709117-014-014-1/1	100	09/28/2007	5:07
120	S 709117-015-015-1/1	100	09/28/2007	5:16
121	S 709117-016-016-1/1	100	09/28/2007	5:24
122	CVCCV5	1	09/28/2007	5:35
123	BCCCB5	1	09/28/2007	5:44
124	S 709117-017-017-1/1	100	09/28/2007	5:52
125	S 709117-018-018-1/1	100	09/28/2007	6:00
126	S 709117-019-019-1/1	100	09/28/2007	6:09
127	S 709117-020-020-1/1	100	09/28/2007	6:17
128	BLK 162	1	09/28/2007	6:28
129	BKS 162	1	09/28/2007	6:32
130	S 709102-001-001-1/1	100	09/28/2007	6:45
131	SP709102-001-001-1/	100	09/28/2007	6:53
132	SD709102-001-001-1/	100	09/28/2007	7:02
133	SE709102-001-001-1/	500	09/28/2007	7:10
134	CVCCV6	1	09/28/2007	7:21
135	BCCCB6	1	09/28/2007	7:30
136	S 709077-001-001-1/2	100	09/28/2007	7:38
137	SP709077-001-001-1/	100	09/28/2007	7:47
138	SD709077-001-001-1/	100	09/28/2007	7:55
139	SE709077-001-001-1/	500	09/28/2007	8:03
140	S 709077-002-003-1/2	100	09/28/2007	8:12
141	S 709077-003-005-1/2	100	09/28/2007	8:20
142	S 709077-004-007-1/2	100	09/28/2007	8:29
143	S 709077-005-009-1/2	100	09/28/2007	8:37
144	CVCCV6 (b	1	09/28/2007	8:48
145	BCCCB6	1	09/28/2007	8:56
146	S 709077-008-011-1/2	100	09/28/2007	9:05
147	S 709077-007-013-1/2	100	09/28/2007	9:13
148	070927 BE1	1	09/28/2007	9:22
149	CRCRI	1	09/28/2007	9:33
150	AICSA Mn, Zn	1	09/28/2007	9:41
151	BICSAB	1	09/28/2007	9:50
152	CVCCV6 (b	1	09/28/2007	9:58
153	BCCCB6	1	09/28/2007	10:06

Analyst Signature: [signature] Date: 1/Oct/2007

Analyst Signature: Date:

Sample Dilutions:

Method: TRACEV2 Standard: STD0
Run Time: 09/28/07 11:52:19

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	-.00204	.00120	.00057	.00201	.00153	.00051	.03684
#1	-.00216	.00210	.00061	.00207	.00152	.00067	.03733
#2	-.00192	.00029	.00052	.00195	.00154	.00035	.03635

Elem	Cr	Co	Cu	Fe	Mg	Mn	Mn3441
Avge	.00038	-.00054	.00796	.00051	.00019	.00026	-.02210
#1	.00032	-.00058	.00802	.00052	.00038	.00032	-.02225
#2	.00044	-.00049	.00790	.00049	.00000	.00020	-.02194

Elem	Ni	K	Ag	Na	Tl	V	Zn
Avge	.00058	.01035	.00014	-.02381	-.00223	.00003	.00314
#1	.00099	.01018	-.00038	-.02389	-.00195	.00009	.00303
#2	.00017	.01052	.00067	-.02374	-.00250	-.00003	.00325

Elem	B	Mo	Sn	Ti	1/Pb	2/Pb	1/Se
Avge	.00124	.00003	.00035	.00054	-.01533	-.00067	-.00236
#1	.00102	-.00023	.00052	.00017	-.01595	-.00003	-.00353
#2	.00145	.00029	.00017	.00090	-.01470	-.00131	-.00119

Elem	2/Se	2V
Avge	.0019	.00004
#1	.0024	.00009
#2	.0015	.00000

Method: TRACEV2 Standard: STD1
Run Time: 09/28/07 12:00:42

Elem	Al	Sb	As	Ba	Be	Cd	Cr
Avge	2.5708	.43396	.38959	1.1092	.11658	2.8076	.31276
#1	2.5719	.43520	.39031	1.1100	.11665	2.8085	.31277
#2	2.5696	.43272	.38886	1.1083	.11652	2.8067	.31274

Elem	Co	Cu	Fe	Mn	Mn3441	Ni	Ag
Avge	.56808	.38754	1.7397	.55184	.16898	.97877	.61403
#1	.56734	.38789	1.7401	.55199	.16872	.97926	.61424
#2	.56881	.38720	1.7393	.55169	.16924	.97827	.61383

Elem	Tl	V	Zn	B	Mo	Sn	Ti
Avge	.16769	.25172	.83091	.69189	.38507	.24244	2.4260
#1	.16821	.25173	.83134	.69150	.38388	.24137	2.4248
#2	.16718	.25171	.83047	.69228	.38627	.24351	2.4272

Elem	1/Pb	2/Pb	1/Se	2/Se	2V
Avge	1.1755	.53238	.43802	.2845	.24397
#1	1.1760	.53398	.43756	.2861	.24395
#2	1.1751	.53079	.43848	.2830	.24399

Method: TRACEV2 Standard: STD2
Run Time: 09/28/07 12:09:04

Elem	Al	Sb	As	Ba	Be	Cd	Cr
Avge	5.1280	.87676	.78615	2.2297	.23439	5.6780	.63237
#1	5.1600	.88634	.79205	2.2466	.23584	5.7175	.63686
#2	5.0960	.86719	.78025	2.2128	.23294	5.6384	.62787

Elem	Co	Cu	Fe	Mn	Mn3441	Ni	Ag
Avge	1.1522	.76844	3.5053	1.1155	.36684	1.9842	1.2294
#1	1.1603	.77343	3.5283	1.1222	.36923	1.9977	1.2352
#2	1.1441	.76345	3.4822	1.1089	.36445	1.9706	1.2236

Elem	Tl	V	Zn	B	Mo	Sn	Ti
Avge	.34472	.50665	1.6592	1.3759	.78338	.49043	4.9038
#1	.34926	.51004	1.6685	1.3826	.78736	.49269	4.9375
#2	.34019	.50327	1.6499	1.3692	.77940	.48817	4.8701

Elem	1/Pb	2/Pb	1/Se	2/Se	2V
Avge	2.3650	1.0635	.88145	.5672	.49025
#1	2.3803	1.0666	.88784	.5728	.49366
#2	2.3498	1.0604	.87506	.5616	.48685

Method: TRACEV2 Standard: STD3
Run Time: 09/28/07 12:17:27

Elem	Ca	Mg	K	Na
Avge	33.626	17.489	7.8550	4.3155
#1	33.642	17.498	7.8621	4.3207
#2	33.611	17.481	7.8478	4.3103

Method: TRACEV2 Standard: STD4
Run Time: 09/28/07 12:24:19

Elem	1/Pb	2/Pb
Avge	4.6732	2.1030
#1	4.6756	2.1033
#2	4.6708	2.1026

Method: TRACEV2 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	Multiple	Standards	19468.4	39.2989	09/28/07 12:09:04
Sb	206.838	Multiple	Standards	1144.51	-1.35365	09/28/07 12:09:04
As	189.042	Multiple	Standards	1270.20	-.709209	09/28/07 12:09:04
Ba	493.409	Multiple	Standards	450.424	-.897279	09/28/07 12:09:04
Be	313.042	Multiple	Standards	433.078	-.660406	09/28/07 12:09:04
Cd	226.502	Multiple	Standards	179.173	-.077194	09/28/07 12:09:04
Ca	317.933	STD3	STD0	.923490	.030730	09/28/07 12:24:19
Cr	267.716	Multiple	Standards	1588.47	-.586660	09/28/07 12:09:04
Co	228.616	Multiple	Standards	875.885	.488750	09/28/07 12:09:04
Cu	324.753	Multiple	Standards	1316.18	-10.4775	09/28/07 12:09:04
Fe	271.441	Multiple	Standards	28662.6	-13.6607	09/28/07 12:09:04
Pb	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Mg	279.078	STD3	STD0	1.07401	-.000335	09/28/07 12:24:19
Mn	257.610	Multiple	Standards	891.888	-.220274	09/28/07 12:09:04
Mn3441	344.199	Multiple	Standards	2565.14	56.7015	09/28/07 12:09:04
Ni	231.604	Multiple	Standards	508.012	-.278897	09/28/07 12:09:04
K	766.491	STD3	STD0	.867212	.003103	09/28/07 12:24:19
Se	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Ag	328.068	Multiple	Standards	814.007	-.116176	09/28/07 12:09:04
Na	330.232	STD3	STD0	.844932	.003377	09/28/07 12:24:19
Tl	190.864	Multiple	Standards	2893.34	6.46783	09/28/07 12:09:04
V	292.402	Multiple	Standards	1985.27	-.049964	09/28/07 12:09:04
Zn	213.856	Multiple	Standards	609.313	-1.91519	09/28/07 12:09:04
B	249.678	Multiple	Standards	721.729	-.898651	09/28/07 12:09:04
Mo	202.030	Multiple	Standards	1286.32	-.015526	09/28/07 12:09:04
Sn	189.989	Multiple	Standards	2052.80	-.702679	09/28/07 12:09:04
Ti	334.941	Multiple	Standards	205.079	-.096917	09/28/07 12:09:04
1/Pb	220.351	Multiple	Standards	433.554	6.68672	09/28/07 12:24:19
2/Pb	220.352	Multiple	Standards	932.265	.572692	09/28/07 12:24:19
1/Se	196.021	Multiple	Standards	1134.89	2.68292	09/28/07 12:09:04
2/Se	196.022	Multiple	Standards	1725.97	-3.34262	09/28/07 12:09:04
2V	292.402	Multiple	Standards	1872.41	-.076389	09/28/07 12:09:04

Method: TRACEV2

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	STD0	.000000	-.378540	.378540
		STD1	50000.0	50087.8	-87.7578
		STD2	100000.	99872.7	127.313
CorCoef: 1.00000					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb	206.838	STD0	.000000	.014343	-.014343
		STD1	500.000	495.320	4.67960
		STD2	1000.00	1002.12	-2.11517
CorCoef: 0.99998					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As	189.042	STD0	.000000	.011961	-.011961
		STD1	500.000	494.142	5.85773
		STD2	1000.00	997.853	2.14673
CorCoef: 0.99998					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	STD0	.000000	.007545	-.007545
		STD1	500.000	498.691	1.30902
		STD2	1000.00	1003.42	-3.41803
CorCoef: 0.99999					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	STD0	.000000	.001488	-.001488
		STD1	50.0000	49.8298	.170155
		STD2	100.000	100.850	-.850304
CorCoef: 0.99998					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	226.502	STD0	.000000	.014140	-.014140
		STD1	500.000	502.975	-2.97546
		STD2	1000.00	1017.26	-17.2631
CorCoef: 0.99998					
Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Ca	317.933	STD0	.064753	.036842	.027911
		STD3	31.0841	33.6261	-2.54202
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr	267.716	STD0	.000000	.014333	-.014333
		STD1	500.000	496.221	3.77863
		STD2	1000.00	1003.91	-3.90930
CorCoef: 0.99998					
Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	STD0	.000000	.016954	-.016954
		STD1	500.000	498.057	1.94272
		STD2	1000.00	1009.68	-9.67737
CorCoef: 0.99997					

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.753	STD0	.000000	.002169	-.002169
		STD1	500.000	499.594	.406433
		STD2	1000.00	1000.92	-.922791

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	271.441	STD0	.000000	.942461	-.942461
		STD1	50000.0	49851.5	148.457
		STD2	100000.	100457.	-457.055

CorCoef: 0.99999

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	.000190	-.000321
		STD3	18.7835	17.4894	1.29405

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn	257.610	STD0	.000000	.013503	-.013503
		STD1	500.000	491.961	8.03860
		STD2	1000.00	994.725	5.27478

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn3441	344.199	STD0	.000000	.021745	-.021745
		STD1	500.000	490.151	9.84912
		STD2	1000.00	997.698	2.30170

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.604	STD0	.000000	.017270	-.017270
		STD1	500.000	496.946	3.05405
		STD2	1000.00	1007.71	-7.70801

CorCoef: 0.99997

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K	766.491	STD0	.012078	.010349	.001729
		STD3	6.81503	7.85497	-1.03994

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	.001520	-.001520
		STD1	500.000	499.711	.289032
		STD2	1000.00	1000.64	-.638123

CorCoef: 1.00000

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na	330.232	STD0	-.016744	-.023814	.007070
		STD3	3.64972	4.31555	-.665826

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl	190.864	STD0	.000000	.025679	-.025679
		STD1	500.000	491.662	8.33777
		STD2	1000.00	1003.87	-3.86755

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V	292.402	STD0	.000000	.008046	-.008046
		STD1	500.000	499.679	.320618
		STD2	1000.00	1005.80	-5.79523

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.856	STD0	.000000	.000414	-.000414
		STD1	500.000	504.368	-4.36807
		STD2	1000.00	1009.07	-9.06775

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B	249.678	STD0	.000000	-.005979	.005979
		STD1	500.000	498.458	1.54218
		STD2	1000.00	992.132	7.86774

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.030	STD0	.000000	.021297	-.021297
		STD1	500.000	495.311	4.68948
		STD2	1000.00	1007.66	-7.65894

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn	189.989	STD0	.000000	.015115	-.015115
		STD1	500.000	496.981	3.01862
		STD2	1000.00	1006.06	-6.05505

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.941	STD0	.000000	.013394	-.013394
		STD1	500.000	497.431	2.56934
		STD2	1000.00	1005.58	-5.57666

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/Pb	220.351	STD0	.000000	.040980	-.040980
		STD1	500.000	516.339	-16.3393
		STD2	1000.00	1032.06	-32.0623
		STD4	2000.00	2032.76	-32.7581

CorCoef: 0.99990

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/Pb	220.352	STD0	.000000	-.050423	.050423
		STD1	500.000	496.896	3.10391
		STD2	1000.00	992.031	7.96857
		STD4	2000.00	1961.09	38.9067

CorCoef: 0.99987

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1/Se	196.021	STD0	.000000	.004322	-.004322
		STD1	500.000	499.789	.211456
		STD2	1000.00	1003.03	-3.03491

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2/Se	196.022	STD0	.000000	.000204	-.000204
		STD1	500.000	487.755	12.2449
		STD2	1000.00	975.674	24.3264

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2V	292.402	STD0	.000000	.005527	-.005527
		STD1	500.000	456.729	43.2708
		STD2	1000.00	917.880	82.1204

CorCoef: 1.00000

Method: TRACEV2 Sample Name: IVICV Operator:
Run Time: 09/28/07 12:30:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	5030.617	404.2059	Q425.4196	413.0076	41.47340	41.52222	5042.707
#1	5004.693	404.1610	Q421.4384	411.8063	41.40823	41.27800	5039.252
#2	5056.542	404.2508	Q429.4008	414.2090	41.53857	41.76645	5046.162
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	401.6478	Q427.8851	398.2787	5042.089	414.2812	5089.104	409.5214
#1	400.9717	Q427.2376	397.6244	5025.202	412.3050	5082.663	409.2865
#2	402.3238	Q428.5325	398.9330	5058.976	416.2574	5095.544	409.7563
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	407.1526	411.6860	Q4709.383	414.7225	401.5600	9796.147	399.3289
#1	406.4916	410.6224	Q4697.141	412.3115	401.5272	9865.253	394.8798
#2	407.8136	412.7496	Q4721.624	417.1335	401.5928	9727.040	403.7780
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	410.1663	Q424.6906	416.1394	404.9431	412.8379	407.8340	411.1639
#1	409.7529	Q423.4833	414.4795	403.2921	411.4769	407.3948	410.8533
#2	410.5797	Q425.8979	417.7993	406.5939	414.1988	408.2732	411.4745
Errors	QC Pass	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	2V
Avge	415.8398	422.9912	410.5881	407.9480
#1	413.0308	419.2310	408.8517	407.5408
#2	418.6488	426.7514	412.3244	408.3553
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BIICB Operator:
Run Time: 09/28/07 12:38:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	26.58261	-.131551	-.253847	.3418430	.0326949	.3837744	8.493011
#1	40.40255	1.581062	-2.59734	.4712761	.0480361	.3895010	13.46062
#2	12.76267	-1.84416	2.089651	.2124099	.0173537	.3780478	3.525406
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	.3857204	.5899098	.3818193	26.37781	.9485831	14.95554	.3414774
#1	.6674899	.6919874	.5973046	37.37494	.7195911	22.52727	.4878277
#2	.1039509	.4878323	.1663341	15.38069	1.177575	7.383800	.1951271
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	.1868173	-.065476	7.836280	.3038009	.2162253	75.76086	-3.18538
#1	-1.75467	-.249510	7.710342	.0039636	.4071228	62.49824	-6.22120
#2	2.128308	.1185582	7.962219	.6036383	.0253278	89.02348	-.149562
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	.5283480	.3435060	.6048935	1.410497	-.576569	.4942808	-.012950
#1	.6465100	.4135585	.7690309	2.239710	1.096489	.6040073	.9962828
#2	.4101861	.2734535	.4407559	.5812842	-2.24963	.3845543	-1.02218
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	1.429218	-2.06499	1.488065	.7568617
#1	.5811141	-4.11465	2.063134	.8981299
#2	2.277322	-.015338	.9129955	.6155936
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV Operator:
Run Time: 09/28/07 12:46:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50253.12	504.9892	501.3415	492.7280	49.34038	488.6039	107009.0
#1	50225.02	505.0697	503.7573	491.9250	49.39857	488.2261	107119.6
#2	50281.21	504.9087	498.9257	493.5309	49.28220	488.9818	106898.4
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	491.0930	491.9781	500.9860	48706.78	495.9803	105866.8	495.6606
#1	491.7792	492.7926	501.6464	48711.59	494.2400	105918.0	496.1352
#2	490.4067	491.1636	500.3257	48701.96	497.7207	105815.6	495.1860
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	498.3825	487.1905	23953.57	502.5906	509.3424	100829.0	500.0510
#1	499.4277	487.2751	23985.12	499.8666	510.3371	100939.1	497.6308
#2	497.3373	487.1059	23922.02	505.3145	508.3476	100718.9	502.4713
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	496.6041	503.7241	505.0475	498.8175	500.1718	501.7229	489.0221
#1	497.7077	504.0354	506.4314	496.6086	502.7100	502.3027	489.7899
#2	495.5005	503.4128	503.6635	501.0264	497.6336	501.1431	488.2542
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	499.4593	506.1141	500.8287	495.8636
#1	496.4648	505.6757	496.9620	496.6219
#2	502.4538	506.5524	504.6955	495.1053
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB Operator:
Run Time: 09/28/07 12:55:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	10.99618	-1.82479	-1.76218	.0970569	.0008272	.0735078	35.32597
#1	10.67198	-2.96906	-.114031	.1749028	.0270646	.1672840	27.03139
#2	11.32038	-.680525	-3.41034	.0192109	-.025410	-.020268	43.62055
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	-.327179	.1131295	.2912767	21.56743	.9620014	37.91866	.0991844
#1	-.306838	-.078497	.6625408	26.78982	1.895984	35.53174	.1763453
#2	-.347520	.3047559	-.079987	16.34503	.0280190	40.30558	.0220236
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	-1.01302	-.126233	11.91220	-2.02358	-.396708	-10.1898	-1.53660
#1	5.212533	.4674222	13.44765	-3.35894	-.068485	38.16803	.8802985
#2	-7.23856	-.719887	10.37675	-.688227	-.724931	-58.5477	-3.95349
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	-.047676	.0156003	-.188129	1.754906	.5503444	.2187679	1.246227
#1	-.224187	.0878827	-.515050	2.139909	-.038761	.2889005	3.113901
#2	.1288341	-.056682	.1387919	1.369903	1.139450	.1486353	-.621447
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	.8197555	-.976922	-2.54705	.0949267
#1	1.286894	-.054050	-5.01152	.3427202
#2	.3526169	-1.89979	-.082578	-.152867
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: REPORT LMT Operator:
Run Time: 09/28/07 13:06:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	202.4928	18.26659	21.23061	4.817440	1.972060	5.837384	1014.667
#1	202.8337	18.27342	21.73940	4.865542	1.989229	5.831082	1017.987
#2	202.1520	18.25976	20.72182	4.769339	1.954892	5.843686	1011.346
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	4.736425	5.013087	10.14370	141.9940	Q12.61788	261.5382	4.888451
#1	4.461591	4.817467	10.50479	147.0067	Q12.77716	262.5031	4.912120
#2	5.011259	5.208706	9.782608	136.9813	Q12.45860	260.5733	4.864780
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	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	2.972712	9.305414	226.5787	20.96202	4.855564	2445.906	27.28739
#1	3.297045	9.731849	226.6939	22.47855	5.007749	2436.034	28.33308
#2	2.648379	8.878979	226.4636	19.44550	4.703379	2455.779	26.24170
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	10.06862	23.45514	15.38754	5.337982	23.49454	25.23480	8.850682
#1	9.918817	23.51689	15.51684	5.320870	23.26544	25.18989	8.785405
#2	10.21843	23.39338	15.25825	5.355095	23.72365	25.27970	8.915959
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	14.50135	18.84156	22.02212	9.655364
#1	14.77291	18.20349	24.61594	9.873245
#2	14.22979	19.47964	19.42830	9.437483
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CRCRI Operator:
Run Time: 09/28/07 13:14:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	397.1416	122.2035	22.41449	413.9085	9.928245	10.46015	517.4438
#1	397.5031	122.3671	24.90391	413.6592	9.932331	10.31222	521.1824
#2	396.7801	122.0400	19.92508	414.1577	9.924159	10.60808	513.7053
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	120.0000	20.00000	400.0000	10.00000	10.00000	500.0000
Range	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	19.71657	107.4918	49.04960	188.2786	4.956045	520.8497	29.68936
#1	19.69176	107.6377	49.72202	197.0615	4.924756	526.0425	29.81900
#2	19.74138	107.3459	48.37718	179.4957	4.987335	515.6570	29.55972
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.00000	100.0000	50.00000	200.0000	6.000000	500.0000	30.00000
Range	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	25.27447	81.36694	448.6853	9.966117	19.80022	979.7794	21.13368
#1	27.18360	82.89695	446.9330	8.421375	20.10977	1019.992	22.95176
#2	23.36535	79.83694	450.4376	11.51086	19.49066	939.5666	19.31559
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		80.00000	500.0000	10.00000	20.00000	1000.000	20.00000
Range		25.00000	25.00000	25.00000	25.00000	25.00000	25.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	104.9092	42.64658	15.57232	4.697438	26.23190	25.86554	6.275504
#1	105.3859	42.84338	16.21806	4.313200	25.01533	25.84195	5.964956
#2	104.4325	42.44978	14.92658	5.081676	27.44847	25.88912	6.586052
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	100.0000	40.00000	15.00000	5.000000	25.00000	25.00000	
Range	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	4.296184	9.083157	10.40746	100.1548
#1	4.404523	8.549093	8.357382	100.2789
#2	4.187844	9.617220	12.45754	100.0307
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IAICSA Operator:
Run Time: 09/28/07 13:23:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	480626.6	-.809006	-4.12636	.8118977	-.188891	1.097283	515998.7
#1	479468.2	2.386945	-6.79072	.7800118	-.157033	.7741871	514380.1
#2	481784.9	-4.00496	-1.46200	.8437837	-.220749	1.420380	517617.2
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	2.263145	1.786202	2.280870	189236.8	-1.49226	492313.7	Q12.36527
#1	2.681958	1.844538	2.110488	188622.3	-1.93352	490434.5	Q12.50495
#2	1.844332	1.727866	2.451252	189851.4	-1.05101	494192.9	Q12.22557
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	33.85384	2.108824	2.742639	.7160145	-.232441	-313.360	4.495363
#1	32.93408	2.437781	4.838350	-2.86232	-.296019	-216.313	6.462225
#2	34.77359	1.779867	.6469284	4.294346	-.168863	-410.406	2.528501
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	-.053047	Q26.72398	3.465243	-.797777	.2641327	1.225620	13.09782
#1	-.469912	Q26.58894	3.899471	.1226467	.5303707	1.286488	14.74411
#2	.3638182	Q26.85903	3.031015	-1.71820	-.002105	1.164752	11.45152
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	-8.78743	-.819212	1.483484	6.960999
#1	-10.2725	.2878996	-4.43756	6.757200
#2	-7.30241	-1.92632	7.404533	7.164799
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IBICSAB Operator:
Run Time: 09/28/07 13:31:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	480512.9	616.6368	98.89952	503.8641	487.6135	940.4591	516573.2
#1	483600.6	622.5168	100.3276	506.5017	491.0907	946.3754	520472.8
#2	477425.1	610.7568	97.47149	501.2264	484.1362	934.5428	512673.6
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	482.8883	474.8646	524.5222	190748.6	49.24012	496440.4	503.1841
#1	485.5093	478.1979	529.4045	191915.7	48.79229	499713.9	506.3144
#2	480.2672	471.5313	519.6398	189581.5	49.68795	493166.9	500.0538
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	518.8486	933.5432	5329.125	54.30277	210.3991	10277.96	98.12047
#1	522.8589	939.7406	5361.598	55.36105	212.2031	10355.42	97.51430
#2	514.8383	927.3458	5296.652	53.24448	208.5951	10200.50	98.72665
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	493.7140	1027.957	1033.055	996.9217	1015.728	985.7659	63.69723
#1	497.1983	1034.306	1039.299	998.9828	1021.081	992.1404	68.57207
#2	490.2297	1021.608	1026.811	994.8608	1010.374	979.3912	58.82239
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	42.01144	61.63797	50.63510	520.1287
#1	38.90227	61.55374	52.26464	524.2699
#2	45.12060	61.72219	49.00556	515.9874
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: LR Operator:
Run Time: 09/28/07 13:40:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	308.4423	5144.247	1960.531	Q9460.481	Q473.9938	1923.024	251.5964
#1	233.0668	4770.968	1992.817	9616.655	480.8459	1956.434	183.1307
#2	383.8178	Q5517.526	1928.246	Q9304.308	Q467.1416	Q1889.613	320.0622
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	NOCHECK
Value		5000.000	2000.000	10000.00	500.0000	2000.000	
Range		5.000000	5.000000	5.000000	5.000000	5.000000	

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	9744.672	9701.612	9848.940	483989.9	19478.84	245.7754	9574.186
#1	9890.185	9846.053	9989.351	491254.6	19924.18	178.2261	9707.898
#2	9599.158	9557.172	9708.530	476725.2	19033.50	313.3248	Q9440.475
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	9816.848	7234.977	24.92694	1948.273	1034.227	191.5249	1941.294
#1	9960.264	7361.167	25.02196	1996.477	952.5524	213.1507	1973.597
#2	9673.432	Q7108.788	24.83193	1900.068	Q1115.903	169.8992	1908.990
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	9796.734	2882.165	4822.814	9967.150	10273.92	Q17167.92	18813.46
#1	9937.757	2923.105	4884.735	Q9159.484	9513.142	Q16554.13	19033.69
#2	9655.713	Q2841.225	4760.892	Q10774.82	11034.70	Q17781.71	18593.22
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Fail	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	19811.53	1926.128	1959.345	9817.621
#1	20369.42	1948.403	2020.514	9962.332
#2	19253.63	1903.854	1898.176	9672.909
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV3 Operator:
Run Time: 09/28/07 13:54:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50016.10	509.5558	503.6805	492.6976	49.53560	489.9185	107201.0
#1	50049.20	511.2879	503.4102	493.1145	49.48661	490.5672	107116.9
#2	49983.00	507.8237	503.9507	492.2807	49.58458	489.2697	107285.1
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	497.4613	493.7466	502.0196	48966.10	500.5350	106429.3	499.1435
#1	497.8581	493.3115	502.1122	48961.85	499.7930	106367.6	498.9407
#2	497.0646	494.1816	501.9270	48970.36	501.2771	106491.0	499.3462
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	500.6749	490.2880	23775.50	505.4597	509.9741	100425.5	504.8250
#1	501.3869	488.8849	23761.39	507.6713	508.7997	100343.5	499.7984
#2	499.9629	491.6910	23789.60	503.2480	511.1484	100507.6	509.8516
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	498.9515	504.5870	506.2837	505.4022	501.0793	501.2220	493.4835
#1	498.3418	504.1744	506.0179	506.1847	500.1768	501.1930	492.9977
#2	499.5612	504.9995	506.5494	504.6197	501.9819	501.2509	493.9693
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	504.0607	507.1356	504.6216	498.8562
#1	503.1906	509.8595	506.5771	498.2567
#2	504.9308	504.4116	502.6661	499.4557
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB3 Operator:
Run Time: 09/28/07 14:05:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	14.36647	-.720546	-.182498	.1861161	.0193804	.0705288	24.30809
#1	21.66172	-.483353	-.484959	.2583942	.0339557	.1508874	33.06593
#2	7.071222	-.957738	.1199640	.1138380	.0048052	-.009830	15.55024
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	.4168774	.5521095	.0282885	12.37471	1.047126	32.30328	.1739503
#1	.2936264	.5130252	-.040003	13.04970	1.521670	39.95788	.2238980
#2	.5401283	.5911938	.0965803	11.69971	.5725814	24.64869	.1240026
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	-1.57148	-.753572	11.74012	-.723515	.0514071	63.53321	1.033290
#1	-.214603	-1.13812	8.554862	2.056239	.0025025	51.94433	-.199359
#2	-2.92836	-.369026	14.92537	-3.50327	.1003118	75.12209	2.265939
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	.3869173	-.325189	1.347671	2.379328	-.243045	.5467131	.6925642
#1	.5882400	-.264002	1.206094	2.722493	-1.48081	.5846920	-.778760
#2	.1855948	-.386376	1.489248	2.036163	.9947197	.5087342	2.163888
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	1.224274	-3.70546	.7673211	.6848112
#1	2.671752	-2.04911	4.108780	.9230119
#2	-.223204	-5.36180	-2.57414	.4466105
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: S 709115-015-015-1/1 Operator:
Run Time: 09/28/07 15:07:55
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	24921.88	1.712569	3.301757	61.58107	.3034645	.4453325	1768.398
#1	25156.01	1.925610	3.077199	62.29751	.3029526	.2385616	1785.792
#2	24687.75	1.499529	3.526315	60.86462	.3039763	.6521034	1751.002
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	330.8182	14.23161	195.4730	152451.0	298.0072	1149.121	708.3055
#1	334.2713	14.25728	197.1988	153906.8	300.4970	1159.733	715.2495
#2	327.3650	14.20594	193.7472	150995.3	295.5173	1138.508	701.3616
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	714.0649	61.06872	628.6304	1.217396	-.001433	90.67725	6.262912
#1	722.0541	62.02900	638.3714	1.702578	.0356479	63.50504	6.621543
#2	706.0757	60.10844	618.8895	.7322128	-.038514	117.8495	5.904281
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	424.9146	197.2532	4.270334	7.855429	2.037180	9292.848	296.0356
#1	428.7987	199.1087	4.477461	7.525269	1.765205	9384.716	297.5459
#2	421.0304	195.3976	4.063208	8.185589	2.309156	9200.978	294.5253
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	298.9929	-3.26360	3.457754	412.2984
#1	301.9725	.7155842	2.195938	415.6153
#2	296.0132	-7.24279	4.719570	408.9815
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-016-016-1/1 Operator:
Run Time: 09/28/07 15:16:16
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	43390.00	2.440204	6.742406	31.30480	.2922676	-1.59780	1313.626
#1	43781.93	3.730760	7.706208	31.58740	.3449418	-1.54063	1328.828
#2	42998.08	1.149647	5.778605	31.02220	.2395934	-1.65497	1298.424
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	322.7342	6.620100	66.24463	176628.8	98.90662	1222.180	307.9534
#1	326.1741	6.926144	67.26019	178501.4	99.59666	1237.678	311.5190
#2	319.2942	6.314056	65.22907	174756.1	98.21659	1206.683	304.3878
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	318.1017	75.43533	544.3217	6.099616	-.125874	124.3878	3.262469
#1	323.3446	76.25267	553.2984	4.872015	-.321864	136.1309	8.463209
#2	312.8589	74.61799	535.3448	7.327218	.0701170	112.6447	-1.93827
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	447.1211	66.66592	4.289883	3.370233	3.039757	9418.217	98.25076
#1	452.0801	67.49174	4.567411	3.599824	3.071602	9517.372	99.87710
#2	442.1621	65.84010	4.012355	3.140643	3.007911	9319.062	96.62443
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	99.23442	1.550229	8.374172	433.8577
#1	99.45630	-2.07013	8.342949	438.0729
#2	99.01253	5.170589	8.405395	429.6426
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-017-017-1/1 Operator:
Run Time: 09/28/07 15:24:37
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	22389.47	-.513678	1.824070	52.52639	.4313905	-1.02685	2248.530
#1	22360.35	2.599119	2.372673	52.66404	.4229669	-1.15221	2241.897
#2	22418.59	-3.62648	1.275467	52.38875	.4398142	-.901490	2255.163
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	213.2417	11.57364	67.53462	121235.1	29.41175	1117.149	690.3787
#1	212.8942	11.54159	67.20320	121050.9	29.40098	1115.755	688.7063
#2	213.5891	11.60570	67.86603	121419.2	29.42251	1118.544	692.0512
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	693.5438	41.97628	517.1196	.7268363	-.348290	118.8875	2.630737
#1	692.4045	43.11170	518.6023	2.190135	-.136948	61.58187	1.745701
#2	694.6832	40.84086	515.6370	-.736462	-.559631	176.1930	3.515774
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	369.3890	86.09297	4.017508	1.795759	4.090391	7694.717	29.81505
#1	368.1392	85.91190	3.730378	1.769046	3.731563	7680.242	30.82551
#2	370.6390	86.27405	4.304639	1.822472	4.449219	7709.192	28.80459
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	29.20996	-2.71188	2.446055	357.4565
#1	28.68858	-.926445	3.748287	355.9828
#2	29.73134	-4.49732	1.143824	358.9303
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-018-018-1/1 Operator:
Run Time: 09/28/07 15:32:58
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	21008.63	.7584305	2.564613	51.74222	.5322943	-1.01168	1627.850
#1	21144.39	.9698391	.9193788	52.01706	.5409083	-1.00542	1640.391
#2	20872.88	.5470219	4.209848	51.46739	.5236803	-1.01794	1615.308
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	266.6291	14.71318	87.43332	135234.3	29.05200	914.8508	1007.522
#1	268.3659	14.98342	88.02296	136209.5	28.02967	919.1692	1015.038
#2	264.8925	14.44294	86.84367	134259.2	30.07433	910.5324	1000.005
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	1013.278	46.95340	477.5176	.6170799	.2487178	44.60758	3.221839
#1	1021.737	48.00222	479.2679	-1.18736	.1251082	.2401226	4.135384
#2	1004.819	45.90457	475.7673	2.421517	.3723275	88.97504	2.308294
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	405.9222	109.8524	3.667645	1.654172	2.558202	8130.305	31.14171
#1	408.8571	110.4874	3.421114	1.447980	2.602828	8191.232	29.60548
#2	402.9872	109.2174	3.914175	1.860364	2.513576	8069.377	32.67794
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	28.00701	-1.61496	1.732963	393.5229
#1	27.24163	-1.71471	-.923821	396.1584
#2	28.77239	-1.51522	4.389746	390.8874
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-019-019-1/1 Operator:
Run Time: 09/28/07 15:41:19
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	35661.82	-.050495	2.996602	71.07790	.4286773	-1.54840	6144.597
#1	35642.65	.7429838	2.928796	71.01616	.4216755	-1.44735	6133.486
#2	35681.00	-.843973	3.064409	71.13965	.4356791	-1.64944	6155.708
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	257.3849	6.940948	87.42985	192311.9	17.21375	2441.863	559.0405
#1	256.9011	6.601322	87.54798	191932.3	16.96294	2441.466	558.1080
#2	257.8687	7.280573	87.31171	192691.4	17.46456	2442.259	559.9730
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	569.1809	45.25323	506.3473	4.490227	-.010947	117.8133	5.020642
#1	568.1733	45.57786	503.6043	5.024001	-.108929	183.4212	1.715404
#2	570.1884	44.92862	509.0903	3.956453	.0870354	52.20544	8.325880
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	476.0142	91.57393	5.728170	2.789372	5.437649	9001.603	19.46125
#1	474.9042	91.53196	5.477324	3.012757	5.529686	8991.672	18.79613
#2	477.1242	91.61591	5.979017	2.565988	5.345612	9011.533	20.12638
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	16.08987	-.770552	7.120478	462.5875
#1	16.04621	-1.74721	8.409466	461.5772
#2	16.13352	.2061031	5.831490	463.5978
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV4 Operator:
Run Time: 09/28/07 15:52:32
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50335.07	510.7030	508.5014	496.7606	50.07200	495.3126	108298.5
#1	50272.17	510.2351	510.2302	496.4339	50.21494	496.1110	108533.1
#2	50397.96	511.1709	506.7726	497.0873	49.92905	494.5143	108063.9
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	501.7288	497.9129	506.4287	49426.23	502.2269	106971.7	501.5160
#1	502.2922	498.6785	506.3638	49486.71	503.7851	107146.7	502.5580
#2	501.1653	497.1473	506.4936	49365.75	500.6687	106796.6	500.4741
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	503.1259	495.2555	23804.93	512.6933	513.6779	99884.22	506.8274
#1	505.5756	495.8784	23764.91	513.0643	514.0386	99772.48	507.2918
#2	500.6763	494.6326	23844.94	512.3223	513.3172	99995.95	506.3631
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	504.2070	511.6683	511.6491	506.2005	501.2806	504.0015	493.6457
#1	505.2711	512.1956	512.4109	504.3521	501.5978	504.5232	493.3774
#2	503.1429	511.1411	510.8873	508.0489	500.9634	503.4797	493.9140
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	506.5174	510.4553	513.8121	501.7792
#1	508.9888	507.4757	515.8583	502.6624
#2	504.0459	513.4348	511.7659	500.8961
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB4 Operator:
Run Time: 09/28/07 16:00:54
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	18.13295	.0746978	-.327777	.1134417	.0441740	.2172277	41.20928
#1	29.91604	1.765564	.3980523	.2125466	.0554352	.1870877	63.85300
#2	6.349867	-1.61617	-1.05361	.0143369	.0329128	.2473677	18.56556
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	.0851269	1.040642	-.286825	21.62934	1.435512	51.50081	.0911674
#1	.0357231	1.276056	-.035509	41.38994	2.155961	78.88638	.1865963
#2	.1345307	.8052291	-.538141	1.868743	.7150624	24.11525	-.004261
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	-7.52586	-.132654	16.78107	-.846419	-.017656	-136.372	-2.76382
#1	-6.19918	-.523503	21.13616	.0496478	-.091527	-99.0856	-2.95188
#2	-8.85255	.2581950	12.42597	-1.74249	.0562151	-173.657	-2.57576
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	.3388057	-.053605	.9608517	1.397984	-.797044	.7489950	1.137653
#1	.3672849	.0224231	1.033225	1.724017	-.518474	.9816326	.0426828
#2	.3103266	-.129634	.8884780	1.071950	-1.07561	.5163572	2.232624
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	1.584308	-.803464	-.868031	.3850556
#1	3.212470	-.555731	.3522012	.4369098
#2	-.043853	-1.05120	-2.08826	.3332014
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: S 709115-020-020-1/1 Operator:
Run Time: 09/28/07 16:09:16
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	40102.21	3.022360	3.526470	21.95145	.4278710	-.328527	1574.324
#1	40537.48	4.314423	3.229274	22.27241	.4045926	-.319139	1594.677
#2	39666.94	1.730297	3.823666	21.63050	.4511494	-.337915	1553.972
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	366.5521	5.139582	80.70278	209017.7	20.62479	1058.352	305.4002
#1	371.1306	5.290239	81.48369	211418.4	21.90737	1070.935	309.1891
#2	361.9736	4.988924	79.92188	206617.0	19.34221	1045.769	301.6114
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	318.4507	51.56867	383.5088	5.254821	.0240421	80.94312	6.559512
#1	322.9304	52.45113	390.8576	7.771120	-.050820	103.0728	1.717135
#2	313.9709	50.68621	376.1600	2.738522	.0989040	58.81346	11.40189
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	475.3683	85.14592	5.186755	4.084159	10.39348	9804.133	21.66218
#1	481.0560	85.94417	5.086363	4.501760	9.109469	9924.440	21.92068
#2	469.6806	84.34767	5.287147	3.666557	11.67749	9683.825	21.40368
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	20.10596	-2.13316	8.948666	462.1786
#1	21.90058	-1.48312	12.39809	467.4215
#2	18.31134	-2.78319	5.499237	456.9356
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: BLK100502 Operator:
Run Time: 09/28/07 16:20:28
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	54.16817	1.498061	-3.27977	.9667500	.0409246	.1582385	331.9297
#1	56.56244	.9697933	-2.60045	.9197966	.0414930	.0102671	330.0390
#2	51.77391	2.026329	-3.95909	1.013703	.0403563	.3062100	333.8203
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	1.307464	-1.40154	1.523015	40.73442	3.413653	60.90497	.6828662
#1	1.600189	-1.25621	1.390159	42.51014	3.063387	56.39770	.6563289
#2	1.014738	-1.54687	1.655870	38.95870	3.763919	65.41224	.7094036
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	-5.66330	-2.21937	34.52781	-.307226	.0954398	533.6430	-11.9766
#1	-7.89734	-2.99649	41.10274	.8802130	.2572577	583.6578	-12.8379
#2	-3.42927	-1.44224	27.95287	-1.49467	-.066378	483.6282	-11.1154
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	.2202051	H19.48352	3.591575	-.153195	H22.40299	2.004604	10.13014
#1	.0683385	H19.40426	3.825932	-.369501	H23.32688	2.322237	12.86609
#2	.3720717	H19.56279	3.357217	.0631102	H21.47911	1.686970	7.394197
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	.0552643	-14.7164	6.897188	.4940528
#1	-1.83810	-12.7510	7.695694	.8240672
#2	1.948633	-16.6817	6.098681	.1640385
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: BKS100502 Operator:
Run Time: 09/28/07 16:28:49
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	9791.943	98.91240	92.12054	999.9085	49.70282	99.43443	10281.85
#1	9818.499	99.00571	90.80698	1002.138	49.82393	99.69774	10309.74
#2	9765.389	98.81910	93.43409	997.6790	49.58172	99.17112	10253.96
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	511.1860	490.6263	506.7945	9895.609	985.7761	9830.656	1001.822
#1	512.8130	492.1440	508.3951	9935.596	986.7790	9856.296	1005.010
#2	509.5590	489.1085	505.1939	9855.623	984.7732	9805.017	998.6342
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	1001.138	497.1194	8932.943	85.82193	99.13141	9793.918	91.42976
#1	1003.844	498.4285	8965.007	86.43909	99.58042	9850.470	91.97243
#2	998.4330	495.8103	8900.880	85.20476	98.68240	9737.367	90.88709
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	512.1217	1004.323	927.1691	506.1418	523.9939	2006.816	976.1727
#1	513.7505	1007.302	931.6877	507.4124	525.0081	2012.143	977.3592
#2	510.4929	1001.344	922.6505	504.8711	522.9797	2001.489	974.9863
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	990.5776	70.21901	93.62332	508.0911
#1	991.4887	71.83130	93.74292	510.2797
#2	989.6664	68.60672	93.50372	505.9025
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-021-021-1/1 Operator:
Run Time: 09/28/07 16:37:11
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	35962.91	2.793586	6.556448	24.70749	.4494661	-1.65138	974.1010
#1	36968.25	1.842912	6.060167	25.37981	.4603348	-1.66684	1003.660
#2	34957.56	3.744261	7.052729	24.03516	.4385974	-1.63593	944.5421
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	550.1958	9.365416	93.54282	250556.9	14.69396	1098.921	329.1350
#1	565.1823	9.657888	96.13439	257554.7	14.76980	1129.547	338.5198
#2	535.2093	9.072943	90.95125	243559.1	14.61811	1068.295	319.7502
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	345.6585	78.16510	528.9464	10.60140	-.369404	26.04291	5.164818
#1	353.6128	80.24661	545.9568	12.82360	-.199896	5.332213	2.163229
#2	337.7043	76.08358	511.9359	8.379197	-.538913	46.75361	8.166408
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	615.4826	105.3466	5.726399	4.679643	7.443081	13909.40	16.16767
#1	632.9714	108.3210	6.046966	4.222725	7.324149	14314.46	17.49128
#2	597.9938	102.3722	5.405833	5.136560	7.562014	13504.33	14.84406
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	13.95692	5.515503	13.14421	596.0196
#1	13.40888	6.284953	16.09278	612.7141
#2	14.50495	4.746053	10.19563	579.3251
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SP709115-021-021-1/1 Operator:
Run Time: 09/28/07 16:45:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	46763.27	9.240768	17.53524	128.9533	5.395023	8.790115	1985.075
#1	47363.38	9.755018	18.24228	130.5437	5.482363	8.668732	2016.324
#2	46163.16	8.726520	16.82820	127.3629	5.307683	8.911499	1953.825
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	614.8111	59.86013	149.3837	257762.6	115.2071	2196.495	432.4299
#1	623.6033	60.79201	151.5794	261420.7	116.3461	2230.764	438.7304
#2	606.0189	58.92826	147.1879	254104.5	114.0682	2162.226	426.1295
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	447.9765	148.2472	1624.676	18.48788	9.841057	1116.197	16.80162
#1	454.9370	150.7062	1648.147	16.98422	10.29541	1092.840	18.82297
#2	441.0160	145.7882	1601.206	19.99154	9.386701	1139.554	14.78026
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	681.2898	213.5117	99.21024	48.88499	56.93668	14456.73	115.7014
#1	690.5091	216.2629	101.0947	49.98513	57.74951	14657.63	116.2050
#2	672.0706	210.7604	97.32577	47.78484	56.12386	14255.83	115.1978
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	114.9599	11.13523	22.16406	661.9092
#1	116.4164	9.654307	20.64904	670.8901
#2	113.5033	12.61616	23.67909	652.9283
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SD709115-021-021-1/1 Operator:
Run Time: 09/28/07 16:53:53
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	48595.02	8.557585	15.47893	131.1545	5.400538	8.396116	2031.296
#1	49121.99	6.530152	14.35918	132.4998	5.506428	8.532526	2054.211
#2	48068.04	10.58502	16.59867	129.8092	5.294648	8.259707	2008.380
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	635.6736	60.58473	153.8560	267692.8	115.3802	2287.225	449.6373
#1	641.8901	61.42019	155.8920	270684.8	117.6650	2312.936	455.0359
#2	629.4570	59.74927	151.8200	264700.9	113.0954	2261.514	444.2387
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	467.8959	153.6608	1677.614	18.57732	9.545130	1097.513	16.79433
#1	473.5378	155.1629	1697.855	17.93840	9.844459	1130.752	18.49871
#2	462.2541	152.1586	1657.373	19.21624	9.245799	1064.274	15.08995
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	702.0572	216.3217	100.4596	47.74959	55.60770	14952.80	116.4244
#1	710.2362	218.6092	101.3673	47.95181	56.10245	15132.53	117.8076
#2	693.8782	214.0342	99.55194	47.54736	55.11295	14773.07	115.0412
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	114.8580	13.96678	20.88245	682.5345
#1	117.5936	10.92935	21.44279	690.2981
#2	112.1224	17.00421	20.32212	674.7711
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: PS709115-021-021-1/1 Operator:
Run Time: 09/28/07 17:02:15
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	35526.57	79.95865	84.99759	42.97230	9.847434	17.87548	5733.550
#1	35995.69	83.25256	84.41258	43.57455	9.915851	17.73062	5779.983
#2	35057.44	76.66473	85.58260	42.37004	9.779017	18.02035	5687.117
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	550.3306	37.55506	118.4983	243302.0	91.33901	5850.669	392.5629
#1	557.9357	38.01819	119.4882	246629.2	91.84103	5890.951	397.6865
#2	542.7256	37.09193	117.5084	239974.8	90.83697	5810.387	387.4394
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	410.5563	114.6485	5080.018	77.07097	41.89369	4720.032	100.0417
#1	415.9161	115.7064	5103.265	77.40260	41.90058	4719.174	101.7555
#2	405.1965	113.5906	5056.770	76.73934	41.88679	4720.890	98.32787
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	612.2743	177.1523	72.47495	33.15511	101.0106	13333.99	90.05797
#1	620.2091	178.9440	72.82740	33.68441	101.9183	13514.96	90.54353
#2	604.3395	175.3605	72.12251	32.62581	100.1030	13153.02	89.57241
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	91.97938	70.92692	80.14285	594.5912
#1	92.48965	73.77897	79.21428	602.0406
#2	91.46911	68.07487	81.07143	587.1418
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SE709115-021-021-1/1 Operator:
Run Time: 09/28/07 17:10:36
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	7761.953	1.310086	-.188047	5.156778	.1065563	-.443987	207.4921
#1	7741.229	.6864204	-1.70404	5.104936	.1047140	-.511321	206.8320
#2	7782.678	1.933751	1.327951	5.208621	.1083986	-.376652	208.1522
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	119.5702	2.439356	19.97029	54494.19	2.821360	239.1313	70.69307
#1	119.0137	2.188010	19.65396	54321.42	3.633194	236.8452	70.43520
#2	120.1266	2.690702	20.28662	54666.96	2.009526	241.4175	70.95094
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	70.65473	16.79158	110.3764	1.152286	-.043413	-17.7729	.8946657
#1	67.44974	16.64516	110.6044	.5037211	-.217448	-7.51218	2.389823
#2	73.85972	16.93801	110.1484	1.800852	.1306229	-28.0336	-.600491
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	132.8550	25.97102	2.421768	.7970809	7.474988	2971.364	4.442432
#1	132.6508	25.97380	2.223908	1.207270	7.335943	2963.231	5.540756
#2	133.0593	25.96824	2.619627	.3868917	7.614033	2979.497	3.344109
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	2.010683	.0172412	1.719671	129.4822
#1	2.679278	1.392610	.0591402	129.2928
#2	1.342087	-1.35813	3.380201	129.6717
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-022-022-1/1 Operator:
Run Time: 09/28/07 17:18:56
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	49913.07	4.451318	7.910115	16.86645	.3014503	-2.03212	291.1099
#1	49995.50	2.443375	7.581837	16.92868	.2960756	-1.91934	292.2883
#2	49830.64	6.459261	8.238394	16.80423	.3068250	-2.14490	289.9314
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	511.8925	9.088185	121.9372	238182.4	13.59963	773.1156	460.1683
#1	512.1980	9.036385	122.5586	238584.2	12.94939	772.7669	460.8753
#2	511.5869	9.139986	121.3158	237780.6	14.24988	773.4644	459.4612
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	475.9078	86.07212	474.9954	5.618492	-.092951	137.5248	1.685893
#1	477.2682	86.23788	476.3179	7.585735	.0918190	95.51373	.6030865
#2	474.5474	85.90636	473.6729	3.651249	-.277721	179.5359	2.768700
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	544.5073	137.7680	4.730212	2.774746	5.261389	11735.11	15.97486
#1	545.5231	138.1649	5.010558	2.819565	5.967950	11758.30	16.74778
#2	543.4915	137.3710	4.449866	2.729926	4.554827	11711.91	15.20195
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	12.41184	.9206574	7.967270	529.9649
#1	11.05002	4.145950	9.305489	530.6523
#2	13.77366	-2.30464	6.629051	529.2775
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-023-023-1/1 Operator:
Run Time: 09/28/07 17:27:19
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	15240.83	4.454243	5.491321	22.21498	.4524586	-.992119	740.6004
#1	15234.08	6.444188	4.780559	22.22717	.4609257	-.908295	741.9093
#2	15247.58	2.464297	6.202084	22.20279	.4439914	-1.07594	739.2915
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	504.3080	9.531301	81.65595	271482.3	18.00627	1038.578	307.1731
#1	505.9523	9.896694	82.11754	271884.5	18.26162	1044.438	307.6080
#2	502.6639	9.165909	81.19435	271080.0	17.75092	1032.718	306.7382
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	321.9154	40.84551	158.8216	7.231467	-.274026	27.39618	7.985108
#1	322.6733	41.29100	165.9232	9.639210	-.150774	101.5066	10.76250
#2	321.1575	40.40002	151.7200	4.823725	-.397278	-46.7143	5.207716
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	766.0071	93.73537	4.201006	4.097328	5.439300	15201.01	20.31003
#1	766.8419	94.07707	4.672943	4.423349	7.586984	15204.25	20.14569
#2	765.1723	93.39368	3.729070	3.771306	3.291616	15197.78	20.47437
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	16.85425	-.781644	11.23788	743.0843
#1	17.31944	.3864505	14.26545	744.0330
#2	16.38906	-1.94974	8.210316	742.1356
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV3 Operator:
Run Time: 09/28/07 17:38:31
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50084.25	511.4337	504.8688	493.6539	49.40188	492.2566	107121.2
#1	50173.62	513.4890	504.5619	494.1432	49.39829	491.6988	107106.7
#2	49994.89	509.3784	505.1756	493.1646	49.40547	492.8145	107135.8
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	497.6723	490.4642	498.5085	48892.08	497.9812	105481.5	491.7965
#1	497.6494	490.5230	499.5503	48906.31	499.4394	105496.2	492.1237
#2	497.6952	490.4055	497.4666	48877.85	496.5230	105466.7	491.4693
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	499.4029	491.4102	23675.73	509.8956	505.0980	99114.19	501.4499
#1	496.1379	491.1325	23741.65	509.1665	505.8414	99347.25	498.4135
#2	502.6678	491.6879	23609.81	510.6248	504.3545	98881.12	504.4862
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	496.3480	504.8010	506.3514	500.4653	491.6405	495.8888	489.2412
#1	496.5776	504.9499	507.0446	499.8748	489.4857	496.7774	488.9022
#2	496.1184	504.6521	505.6583	501.0558	493.7953	495.0002	489.5801
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	502.3511	513.6482	508.0192	493.0504
#1	504.7079	517.1360	505.1816	493.2209
#2	499.9943	510.1604	510.8568	492.8799
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB3 Operator:
Run Time: 09/28/07 17:46:52
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	14.81375	-2.22332	-1.99617	.1303248	.0823884	.2788249	35.35755
#1	26.15902	-2.47972	-.748764	.2878084	.0947619	.6681422	62.40029
#2	3.468483	-1.96692	-3.24358	-.027159	.0700149	-.110492	8.314817
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	-.245022	.3394054	-.197723	25.80557	.8784492	50.46496	.1105919
#1	-.099270	.2718660	.1138228	49.47889	.3429834	85.26446	.2221634
#2	-.390775	.4069447	-.509269	2.132259	1.413915	15.66546	-.000980
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	-4.38851	-.185968	9.027659	1.574739	.0211317	-50.0231	-.686264
#1	-2.31781	.0315972	14.17957	1.013353	-.016476	-47.4051	-.269836
#2	-6.45921	-.403534	3.875747	2.136126	.0587398	-52.6410	-1.10269
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	.4666143	-.321571	.4183910	1.559929	.7124694	.7760931	.2541951
#1	.8001673	-.204096	.1201279	2.070794	-.263631	.9761552	-.753806
#2	.1330613	-.439047	.7166541	1.049065	1.688570	.5760310	1.262196
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	1.190438	2.513426	1.105259	.0003256
#1	.8912396	-.546408	1.793095	.1815036
#2	1.489636	5.573261	.4174227	-.180852
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: S 709115-024-024-1/1 Operator:
Run Time: 09/28/07 17:55:13
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	42715.56	5.212097	5.363957	25.22814	.3599142	-.292562	672.3363
#1	42803.97	6.811906	6.754409	25.25048	.3559691	-.319836	675.2215
#2	42627.14	3.612289	3.973505	25.20580	.3638594	-.265287	669.4511
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	475.4759	9.019270	90.82359	222114.1	15.66372	988.8179	347.2389
#1	477.6626	9.298479	91.19769	223034.7	15.16936	992.4004	348.9269
#2	473.2891	8.740061	90.44949	221193.6	16.15809	985.2352	345.5508
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	364.7026	72.47478	460.0983	8.698929	-.384098	87.16583	3.755015
#1	364.5065	72.38771	467.5254	11.36041	-.398182	176.5791	3.292493
#2	364.8986	72.56184	452.6713	6.037446	-.370014	-2.24742	4.217538
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	507.4823	96.59687	4.990767	3.793123	5.562983	11570.12	18.89391
#1	509.8493	96.87141	5.195377	3.737682	7.100314	11620.49	18.77416
#2	505.1152	96.32233	4.786158	3.848564	4.025653	11519.74	19.01367
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	14.04845	2.745069	11.67572	494.0002
#1	13.36678	3.742386	15.16928	496.3096
#2	14.73012	1.747751	8.182156	491.6908
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-025-025-1/1 Operator:
Run Time: 09/28/07 18:03:34
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	41378.94	3.009866	5.781216	29.84641	.2903037	-1.68684	1013.204
#1	41329.87	5.354084	5.232430	29.81087	.2873375	-1.46000	1013.156
#2	41428.03	.6656485	6.330002	29.88195	.2932699	-1.91369	1013.253
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	518.1544	8.702837	93.89186	232671.4	15.22278	1231.475	380.7001
#1	517.3555	8.326467	93.73004	232375.2	14.95917	1229.496	380.4400
#2	518.9534	9.079206	94.05369	232967.5	15.48639	1233.455	380.9601
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	400.0682	81.05682	437.3923	5.981120	.2971458	66.38374	3.088644
#1	396.9630	79.92606	438.8007	7.481120	.3589310	64.88734	3.883328
#2	403.1732	82.18758	435.9838	4.481120	.2353606	67.88013	2.293960
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	548.8396	99.15829	5.497292	4.019483	3.180624	12461.64	18.76515
#1	549.0757	99.37048	5.739752	3.829765	3.785205	12455.32	19.80542
#2	548.6036	98.94611	5.254832	4.209200	2.576043	12467.96	17.72488
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	13.45148	2.435615	7.753736	533.7340
#1	12.53591	2.444450	9.999317	533.9779
#2	14.36706	2.426779	5.508156	533.4900
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-026-026-1/1 Operator:
Run Time: 09/28/07 18:11:55
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	35720.49	.8144281	2.745093	16.36586	.4054223	-1.80499	296.5063
#1	35717.92	-1.17960	.9999273	16.33442	.4050316	-1.88908	294.9452
#2	35723.06	2.808459	4.490259	16.39730	.4058131	-1.72091	298.0675
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	431.0813	4.276794	51.76878	259276.8	12.34469	509.8225	215.6312
#1	430.4586	3.816711	51.24177	259049.6	12.12467	509.4620	215.4397
#2	431.7040	4.736877	52.29579	259503.9	12.56471	510.1828	215.8227
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	230.1987	53.85991	221.5201	11.00083	-.321066	108.7646	2.166392
#1	228.8776	53.63650	218.5626	7.641325	-.519010	76.58708	3.454843
#2	231.5198	54.08332	224.4775	14.36033	-.123122	140.9421	.8779411
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	618.2202	56.57990	4.507722	3.443444	5.130413	13540.62	15.87416
#1	617.3506	56.19077	3.849994	3.243828	3.713727	13528.53	15.17437
#2	619.0898	56.96902	5.165450	3.643060	6.547100	13552.71	16.57395
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	10.57978	7.422243	12.78998	601.1287
#1	10.59964	1.368037	10.77783	600.1554
#2	10.55992	13.47645	14.80214	602.1019
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-027-027-1/1 Operator:
Run Time: 09/28/07 18:20:17
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	8463.988	2.934285	3.572142	9.469170	.1016133	-1.46463	294.0322
#1	8452.106	2.055621	3.268763	9.437764	.0971537	-1.30640	293.2123
#2	8475.870	3.812950	3.875521	9.500576	.1060730	-1.62285	294.8521
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	290.8839	11.30290	79.68289	196187.7	11.31778	877.4622	337.1008
#1	289.8627	10.76998	79.56346	195624.9	11.23682	871.3787	336.3801
#2	291.9051	11.83581	79.80232	196750.4	11.39874	883.5457	337.8215
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	347.7167	45.29349	156.0161	2.367243	-.818640	-26.3745	1.828595
#1	346.5795	45.28318	151.1094	2.794049	-1.41263	-49.1166	3.692092
#2	348.8538	45.30379	160.9227	1.940437	-.224646	-3.63242	-.034902
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	604.1444	99.44766	2.459155	2.901083	3.367165	12135.57	12.17197
#1	603.7127	99.20851	2.403181	3.525848	3.704126	12118.81	11.37900
#2	604.5761	99.68681	2.515128	2.276318	3.030204	12152.33	12.96494
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	10.89055	-1.49535	4.298403	584.8702
#1	11.16559	-1.00326	4.692566	584.5389
#2	10.61551	-1.98745	3.904240	585.2017
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-028-028-1/1 Operator:
Run Time: 09/28/07 18:28:38
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	18119.97	2.806451	9.118050	16.44827	.2182177	L-3.24491	409.8226
#1	17965.54	3.195678	9.135262	16.29934	.2385118	L-3.26334	405.7658
#2	18274.39	2.417224	9.100838	16.59720	.1979237	L-3.22648	413.8795
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	478.1725	5.039457	82.31821	316913.9	19.35534	573.3672	379.2377
#1	473.8395	4.827427	81.42160	313877.1	20.59905	567.0522	375.7306
#2	482.5054	5.251488	83.21482	319950.6	18.11163	579.6821	382.7448
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	404.1094	36.77737	300.7124	7.277764	-.308185	134.4507	8.193357
#1	400.8110	36.44741	292.9382	4.560394	-.414849	131.2120	8.187447
#2	407.4078	37.10731	308.4865	9.995133	-.201521	137.6895	8.199268
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	749.3293	88.83563	3.925305	4.109375	4.705833	14651.53	23.15055
#1	742.6897	88.47573	3.469891	3.878449	4.006164	14527.73	24.24987
#2	755.9691	89.19553	4.380720	4.340300	5.405504	14775.32	22.05122
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	17.45754	3.557759	9.137631	728.9093
#1	18.77345	-1.04475	7.362831	722.6110
#2	16.14164	8.160270	10.91243	735.2075
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-029-029-1/1 Operator:
Run Time: 09/28/07 18:36:59
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	14388.80	1.896470	2.759640	10.03010	.1342869	-2.48536	186.6825
#1	14132.34	2.341852	4.123605	9.926705	.1120865	-2.32462	184.1513
#2	14645.27	1.451088	1.395675	10.13349	.1564873	-2.64610	189.2137
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	394.6210	13.39175	83.60905	237351.5	11.49327	911.3729	363.3945
#1	387.2765	12.69926	81.92502	233287.2	11.49375	896.1517	357.0766
#2	401.9656	14.08425	85.29309	241415.9	11.49278	926.5942	369.7123
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	382.9913	56.77004	231.4475	3.513205	-.142853	70.46192	2.344546
#1	377.0985	55.68164	225.5569	1.488628	.1573940	59.87093	2.218110
#2	388.8840	57.85845	237.3381	5.537781	-.443100	81.05292	2.470982
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	668.5325	111.4175	1.667232	3.059748	3.428457	13561.95	15.06465
#1	657.2310	109.6763	2.169407	3.298969	2.027874	13321.50	16.09311
#2	679.8341	113.1587	1.165056	2.820527	4.829041	13802.39	14.03619
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	9.707445	1.909064	4.315142	648.3799
#1	9.193942	.9297328	1.767944	637.6428
#2	10.22095	2.888394	6.862339	659.1169
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-030-030-1/1 Operator:
Run Time: 09/28/07 18:45:21
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	62565.32	-.225138	2.830960	58.25077	.2714771	-1.42940	302.2425
#1	63385.43	1.039303	2.064620	59.06345	.2845916	-1.64545	303.1773
#2	61745.21	-1.48958	3.597300	57.43808	.2583627	-1.21335	301.3078
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	299.1829	9.982575	102.1443	148056.4	9.849272	810.5007	446.3371
#1	302.8571	10.30405	103.0014	149950.5	8.960863	822.2414	451.4506
#2	295.5086	9.661097	101.2873	146162.3	10.73768	798.7600	441.2236
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	460.9049	125.1384	684.5786	4.116787	-.250559	110.9598	.7475238
#1	464.6837	127.3624	692.0313	6.605991	-.442406	48.96009	-.204093
#2	457.1261	122.9145	677.1260	1.627584	-.058713	172.9595	1.699140
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	383.7633	133.1429	3.533159	1.572905	1.857400	8436.424	11.14198
#1	388.0950	134.4996	4.151974	1.439723	3.754065	8539.365	12.10644
#2	379.4316	131.7863	2.914345	1.706086	-.039266	8333.483	10.17751
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	9.202789	-.202477	6.276284	372.4579
#1	7.387944	2.615343	8.601179	376.8285
#2	11.01763	-3.02030	3.951389	368.0873
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-031-031-1/1 Operator:
Run Time: 09/28/07 18:53:42
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	63725.58	2.834058	1.838005	38.83244	.2329356	-.929749	325.9191
#1	64106.94	1.188861	3.248187	39.04319	.2257195	-.977133	327.7814
#2	63344.21	4.479255	.4278239	38.62170	.2401517	-.882364	324.0567
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	293.6441	6.130314	70.57535	125248.8	5.178534	590.6518	188.5603
#1	294.9088	5.807085	71.07164	125923.8	6.060017	592.1289	189.6941
#2	292.3794	6.453543	70.07906	124573.8	4.297051	589.1747	187.4264
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	196.3397	127.4908	489.4719	2.543450	.0205812	151.1725	2.534221
#1	197.6001	127.1261	489.6219	1.592841	-.098061	146.3173	1.530086
#2	195.0793	127.8555	489.3219	3.494058	.1392236	156.0278	3.538356
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	329.6075	68.68638	2.790237	1.339261	2.396285	7506.394	8.589358
#1	331.3100	69.20710	2.955564	1.535629	1.964363	7551.713	9.412796
#2	327.9051	68.16566	2.624909	1.142892	2.828208	7461.074	7.765921
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	3.472993	-3.39823	5.514155	319.9985
#1	4.383498	-4.13421	4.456232	321.6802
#2	2.562488	-2.66225	6.572079	318.3168
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-032-032-1/1 Operator:
Run Time: 09/28/07 19:02:03
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	63589.75	3.449187	6.013076	78.81334	.3077121	-1.53809	767.6502
#1	63631.48	4.013887	6.067985	78.88454	.2891632	-1.29714	769.3921
#2	63548.02	2.884487	5.958166	78.74214	.3262609	-1.77903	765.9083
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	330.0405	11.70049	97.14867	152641.5	8.359484	981.0256	601.0664
#1	330.9055	11.83446	97.07248	152842.0	8.183384	982.2967	602.0290
#2	329.1756	11.56652	97.22486	152440.9	8.535583	979.7544	600.1036
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	619.0551	151.6775	612.0578	2.638892	-.182794	193.7880	1.780434
#1	620.3962	151.3759	615.2351	-.202974	-.134788	250.3678	3.938981
#2	617.7140	151.9790	608.8805	5.480757	-.230799	137.2081	-.378113
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	406.9223	115.0144	3.960079	1.624702	2.732904	9412.748	10.89760
#1	407.3013	114.9866	4.462093	2.160186	2.805640	9423.900	9.990898
#2	406.5432	115.0422	3.458066	1.089217	2.660169	9401.596	11.80430
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	7.090296	1.260704	3.327851	395.1570
#1	7.279496	-2.09882	.7448120	395.8718
#2	6.901095	4.620223	5.910891	394.4422
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-033-033-1/1 Operator:
Run Time: 09/28/07 19:10:24
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	30884.53	2.370715	3.984838	29.65861	.2074074	-2.01409	194.4421
#1	30827.50	2.249439	3.922134	29.63906	.2382649	-2.01799	195.5102
#2	30941.56	2.491992	4.047543	29.67816	.1765499	-2.01019	193.3741
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	376.5439	14.46692	110.2218	199474.9	10.69853	886.9598	441.0773
#1	375.8855	14.65621	110.0973	199212.9	11.04358	886.9246	440.7897
#2	377.2024	14.27763	110.3464	199736.8	10.35347	886.9949	441.3649
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	460.2754	65.47081	524.6331	.4759877	.0747099	88.58548	4.112309
#1	461.0150	65.56456	523.0817	.0343243	-.081917	55.47277	1.975349
#2	459.5357	65.37707	526.1844	.9176510	.2313370	121.6982	6.249269
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	579.2688	157.6213	3.873760	3.376500	2.696849	12811.77	13.32244
#1	578.4761	157.4360	4.290506	3.087692	2.695262	12797.42	13.63492
#2	580.0615	157.8067	3.457014	3.665309	2.698436	12826.12	13.00995
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	9.386440	-4.53592	2.981806	561.4760
#1	9.747782	-4.47878	2.290741	560.5120
#2	9.025100	-4.59306	3.672871	562.4398
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV3 Operator:
Run Time: 09/28/07 19:21:36
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50469.57	516.2432	508.8867	500.9223	49.21254	496.7649	107143.4
#1	51057.36	522.8053	513.9963	506.6740	49.76124	502.5343	108338.8
#2	49881.77	509.6812	503.7770	495.1707	48.66385	490.9954	105947.9
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	500.5224	488.4300	497.0352	48878.13	494.2051	104968.4	487.0811
#1	505.6790	493.4737	502.9272	49448.56	499.5647	106119.0	492.6479
#2	495.3659	483.3863	491.1433	48307.71	488.8455	103817.7	481.5142
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	501.1552	496.0724	23661.76	506.9711	500.7441	99514.28	509.4094
#1	503.3514	500.6693	23874.19	513.1238	506.6402	100550.7	514.4524
#2	498.9590	491.4754	23449.33	500.8184	494.8479	98477.88	504.3664
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	494.0014	503.6416	506.7723	504.1213	488.3965	495.3671	489.4455
#1	499.3229	509.0889	511.3036	507.2775	494.7237	501.6893	493.7682
#2	488.6799	498.1942	502.2412	500.9652	482.0694	489.0449	485.1227
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	496.5848	511.7083	504.6024	489.0476
#1	502.4628	516.1722	511.5996	494.1272
#2	490.7068	507.2444	497.6052	483.9680
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB3 Operator:
Run Time: 09/28/07 19:29:59
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	9.528411	-.622286	-3.54153	.0134837	.2277642	.1121327	-2.54928
#1	13.58046	-.957109	-5.77527	.0758893	.2365108	.2120524	6.073293
#2	5.476361	-.287463	-1.30780	-.048922	.2190176	.0122129	-11.1718
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	.2192828	.6189659	-.855601	4.660533	-.078587	29.16590	.0462074
#1	.5106625	.7502681	-.761738	9.518289	-.514433	39.67972	.1023332
#2	-.072097	.4876636	-.949464	-.197223	.3572583	18.65208	-.009918
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	-3.56764	-.528672	10.17866	.1981484	.3804472	-67.1578	-1.97594
#1	-4.87924	.1783742	12.23927	.9304327	.4458035	-158.901	-2.06361
#2	-2.25604	-1.23572	8.118055	-.534136	.3150908	24.58554	-1.88827
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	.0080486	-.528986	.8836538	1.571325	-3.38679	.6013888	.4893856
#1	-.168489	-.434444	1.137152	1.644104	-3.35211	.6599383	1.387177
#2	.1845865	-.623528	.6301551	1.498545	-3.42147	.5428392	-.408405
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	-.362707	2.345782	-.875800	.3604837
#1	-1.46537	3.978485	-.593726	.3142051
#2	.7399571	.7130784	-1.15787	.4067622
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: S 709115-034-034-1/1 Operator:
Run Time: 09/28/07 19:38:20
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	55821.36	2.257445	5.561968	71.20158	.1961746	-1.84697	372.8557
#1	55949.82	1.408952	4.833634	71.32846	.2306842	-1.78183	376.0705
#2	55692.89	3.105937	6.290302	71.07471	.1616650	-1.91211	369.6410
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	332.0117	10.79758	82.41052	149071.7	7.653648	817.9561	347.9682
#1	332.8140	10.98275	82.66631	149472.9	8.559167	817.5536	348.9010
#2	331.2094	10.61242	82.15475	148670.4	6.748129	818.3586	347.0354
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	362.7107	140.3887	585.7686	2.245863	-.043170	170.4482	3.325277
#1	365.5446	140.8657	588.2201	2.457772	.2542584	226.5263	5.656085
#2	359.8768	139.9117	583.3169	2.033954	-.340599	114.3701	.9944687
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	418.8598	105.4124	3.001149	2.777377	5.049200	9664.337	9.793795
#1	420.1794	105.7853	3.162297	2.708941	6.079069	9692.526	10.82196
#2	417.5402	105.0395	2.840001	2.845813	4.019331	9636.147	8.765627
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	6.583445	-2.96258	4.849950	406.4058
#1	7.427640	-1.94800	4.660522	407.6325
#2	5.739251	-3.97716	5.039377	405.1792
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-035-035-1/1 Operator:
Run Time: 09/28/07 19:46:41
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	51898.11	4.569146	3.294317	78.31032	.1966824	-2.27581	471.8313
#1	52269.04	5.838350	2.384084	78.90291	.2102674	-2.39723	474.9184
#2	51527.17	3.299942	4.204551	77.71774	.1830974	-2.15438	468.7441
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	368.7223	14.37209	110.4114	162039.1	10.74981	1056.560	753.9377
#1	370.7012	14.08804	110.6964	163039.5	10.54212	1057.783	758.5887
#2	366.7434	14.65613	110.1263	161038.8	10.95751	1055.338	749.2867
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	777.7155	130.0095	613.7305	-.270747	-.305876	150.5461	2.575257
#1	782.5540	130.5727	619.2483	.3548957	-.163637	180.2459	1.852084
#2	772.8768	129.4462	608.2125	-.896389	-.448115	120.8463	3.298430
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	466.7137	146.9503	3.386319	1.837817	2.504539	10748.84	13.00456
#1	469.8866	147.9141	3.653577	2.093762	1.582332	10822.69	13.96874
#2	463.5408	145.9865	3.119061	1.581873	3.426746	10674.99	12.04039
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	9.622307	-2.11147	.6494827	452.2351
#1	8.828679	-.323869	.6941452	455.4824
#2	10.41594	-3.89908	.6048202	448.9879
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-036-036-1/1 Operator:
Run Time: 09/28/07 19:55:03
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	28594.29	2.599887	2.323762	28.42625	.1518297	-2.77024	339.6404
#1	28641.07	4.773955	2.772142	28.43915	.1401306	-2.79117	339.7438
#2	28547.52	.4258194	1.875382	28.41335	.1635287	-2.74931	339.5369
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	469.7339	13.29370	76.66893	215287.8	63.58319	807.6685	404.0983
#1	469.9097	13.19680	76.94093	215736.9	64.47793	808.2328	404.9401
#2	469.5583	13.39060	76.39693	214838.7	62.68845	807.1041	403.2566
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	425.5911	66.05037	512.1960	.8510570	-.188689	81.46487	4.245461
#1	424.4180	66.53495	515.0789	.1496448	-.176846	103.0351	4.141171
#2	426.7641	65.56580	509.3131	1.552469	-.200532	59.89465	4.349750
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	657.6063	131.6252	3.423071	3.357441	2.839286	14566.39	64.29215
#1	659.1429	131.7365	3.375678	3.553873	2.095954	14595.94	64.53824
#2	656.0698	131.5139	3.470464	3.161009	3.582617	14536.83	64.04607
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	63.22858	-6.42234	4.487619	636.6780
#1	64.44764	-8.52669	4.487671	638.2717
#2	62.00952	-4.31800	4.487568	635.0844
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-037-037-1/1 Operator:
Run Time: 09/28/07 20:03:24
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	30615.31	.8133767	4.897567	35.50818	.0519934	-2.53562	1007.557
#1	30746.78	-.367612	4.556360	35.62017	.0567948	-2.45681	1010.679
#2	30483.84	1.994365	5.238773	35.39618	.0471920	-2.61444	1004.434
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	361.5556	11.95509	90.54069	197317.8	13.72959	1127.769	375.2575
#1	362.9521	11.77083	90.66801	198093.8	13.41350	1131.389	376.6761
#2	360.1591	12.13935	90.41339	196541.9	14.04567	1124.149	373.8388
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	394.2836	72.06782	562.1449	1.274551	-.321281	63.38854	.7282815
#1	395.6490	72.89502	563.7101	-.191741	-.586729	16.93790	3.822194
#2	392.9181	71.24062	560.5797	2.740843	-.055832	109.8392	-2.36563
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	564.6274	123.7263	2.938557	2.690141	5.086917	12810.27	16.15360
#1	567.0625	124.1110	2.692965	2.394086	3.693027	12860.37	16.41844
#2	562.1923	123.3416	3.184150	2.986196	6.480807	12760.17	15.88876
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	12.51745	-.963577	2.393480	547.2107
#1	11.91089	-4.70336	2.063934	549.7342
#2	13.12400	2.776211	2.723026	544.6872
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-038-038-1/1 Operator:
Run Time: 09/28/07 20:11:45
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	38848.23	5.300922	6.061250	36.56840	.1273774	-1.90364	381.5645
#1	39210.46	5.553572	6.076405	36.89310	.1358505	-1.77946	384.6412
#2	38485.98	5.048272	6.046096	36.24371	.1189042	-2.02782	378.4877
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	358.9585	10.78198	130.5963	176848.1	37.09117	889.1128	351.5047
#1	361.9049	10.76877	131.6507	178477.3	37.74414	900.0709	354.7124
#2	356.0121	10.79519	129.5420	175218.8	36.43821	878.1548	348.2969
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	369.8936	99.17416	429.2152	-.176659	-.186672	222.7546	5.784621
#1	372.0378	101.0089	436.3780	.8254221	-.151382	223.1377	6.387750
#2	367.7494	97.33944	422.0524	-1.17874	-.221962	222.3716	5.181493
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	484.2025	116.4951	2.964990	2.662085	3.386081	11033.98	38.29168
#1	488.5242	117.6928	3.542685	2.156538	3.169661	11134.28	38.80125
#2	479.8808	115.2973	2.387295	3.167633	3.602501	10933.67	37.78210
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	36.49079	-1.40965	.4397030	469.8415
#1	37.21545	-1.19356	1.834778	474.1277
#2	35.76614	-1.62574	-.955372	465.5552
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-039-039-1/1 Operator:
Run Time: 09/28/07 20:20:07
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	37986.87	2.920715	4.722599	27.56973	.1645069	-2.44166	254.5461
#1	38119.18	.8763051	4.056042	27.68966	.1666871	-2.47062	256.7192
#2	37854.56	4.965124	5.389156	27.44981	.1623267	-2.41270	252.3730
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	399.5147	16.09688	120.6717	190537.1	23.96889	922.3007	685.9309
#1	400.9969	16.62505	121.2146	191254.9	23.80570	928.2200	688.3401
#2	398.0325	15.56870	120.1288	189819.3	24.13209	916.3813	683.5217
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	714.8612	81.11146	555.7949	3.049575	-.090645	163.0200	1.736210
#1	717.7499	82.12922	555.3198	1.339924	-.257774	130.1229	-2.84645
#2	711.9725	80.09370	556.2701	4.759227	.0764837	195.9171	6.318869
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	521.9448	170.0480	2.562750	2.096907	4.460009	11131.38	26.77865
#1	523.9235	170.3145	2.682185	1.633471	5.634426	11172.76	26.35870
#2	519.9661	169.7816	2.443315	2.560344	3.285591	11089.99	27.19859
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	22.56389	-2.61554	5.881998	506.7660
#1	22.52906	-4.53810	4.278797	508.1887
#2	22.59872	-.692989	7.485199	505.3433
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-040-040-1/1 Operator:
Run Time: 09/28/07 20:28:28
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	44871.04	2.936987	2.149445	59.11944	.1927805	-1.83027	467.7591
#1	45174.58	4.570431	2.844283	59.46880	.2050272	-1.84007	470.8902
#2	44567.49	1.303543	1.454608	58.77008	.1805338	-1.82047	464.6280
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	341.6532	14.53289	101.8799	146615.7	23.05851	941.2278	569.2864
#1	344.2390	14.61686	102.4009	147535.7	22.77220	948.4773	572.9416
#2	339.0673	14.44892	101.3589	145695.6	23.34481	933.9783	565.6310
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	592.7124	115.8856	549.4564	-.031050	-.096697	93.43411	-.636359
#1	596.9566	116.1262	552.8632	.1697035	.1314198	47.01238	.6572313
#2	588.4682	115.6450	546.0497	-.231804	-.324813	139.8559	-1.92995
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	423.5755	138.9384	3.747653	3.183722	-.562940	9526.879	25.00821
#1	426.5971	139.9817	4.014608	3.069518	-1.29090	9588.314	24.58085
#2	420.5539	137.8951	3.480698	3.297926	.1650200	9465.444	25.43558
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	22.08352	-3.56329	1.734934	411.0488
#1	21.86774	-6.07560	3.292217	413.9784
#2	22.29930	-1.05098	.1776504	408.1192
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CRCRI Operator:
Run Time: 09/28/07 20:39:41
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	411.1861	127.2877	23.54167	425.5422	10.28464	10.93053	479.0762
#1	416.3153	126.0658	Q25.64584	427.1334	10.32306	11.22234	482.0106
#2	406.0568	128.5096	21.43749	423.9511	10.24621	10.63872	476.1418
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	400.0000	120.0000	20.00000	400.0000	10.00000	10.00000	500.0000
Range	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn
Avge	20.72328	107.6003	47.93725	220.4904	Q7.641698	519.2340	29.41912
#1	20.71525	108.5632	48.26480	229.2010	6.468472	522.0062	29.63902
#2	20.73131	106.6375	47.60970	211.7798	Q8.814923	516.4617	29.19923
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	20.00000	100.0000	50.00000	200.0000	6.000000	500.0000	30.00000
Range	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000

Elem	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	26.23283	84.66031	452.7701	8.616718	19.17791	902.5006	18.81551
#1	26.60062	85.82056	453.7435	Q7.444019	19.31896	838.5444	19.92316
#2	25.86505	83.50006	451.7967	9.789418	19.03687	966.4569	17.70785
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		80.00000	500.0000	10.00000	20.00000	1000.000	20.00000
Range		25.00000	25.00000	25.00000	25.00000	25.00000	25.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	105.0512	43.12780	16.10226	4.410608	25.89194	26.89462	5.303903
#1	105.6532	43.49396	16.24832	4.080448	25.66559	27.13187	4.886400
#2	104.4493	42.76164	15.95619	4.740768	26.11829	26.65736	5.721406
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK
Value	100.0000	40.00000	15.00000	5.000000	25.00000	25.00000	
Range	25.00000	25.00000	25.00000	25.00000	25.00000	25.00000	

Elem	2/Pb	1/Se	2/Se	2V
Avge	8.810461	8.952417	8.448736	100.7790
#1	7.259374	4.798459	8.766664	101.3033
#2	10.36155	13.10637	8.130810	100.2546
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IAICSA Operator:
Run Time: 09/28/07 20:48:03
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	475557.8	.8719323	-1.17849	.8189889	.0621347	-.493688	507008.2
#1	481708.7	.5979605	-2.51574	.8208202	.0826427	-.551624	513544.7
#2	469406.9	1.145904	.1587707	.8171576	.0416266	-.435751	500471.8
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	2.130544	1.464126	.9323293	186389.1	-.712203	478978.7	Q13.72569
#1	2.287625	1.659458	.9258512	188614.8	-1.40151	484364.3	Q13.98213
#2	1.973464	1.268794	.9388073	184163.4	-.022896	473593.0	Q13.46924
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	39.18347	2.110362	-.141460	1.206601	-.758726	-207.291	4.196691
#1	39.17684	2.680415	-1.92135	-1.92638	-.802847	-339.158	5.641276
#2	39.19011	1.540310	1.638432	4.339584	-.714604	-75.4241	2.752106
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	.0388472	Q25.73192	2.990127	.5996723	-1.16086	1.489882	15.41922
#1	.3054542	Q26.08227	2.639649	.1717840	-.899227	1.591223	14.48029
#2	-.227760	Q25.38158	3.340605	1.027561	-1.42249	1.388542	16.35815
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	-8.77804	3.736038	-.058254	5.087989
#1	-9.34254	4.005922	-4.89267	5.233047
#2	-8.21355	3.466153	4.776161	4.942930
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: IBICSAB Operator:
Run Time: 09/28/07 20:56:25
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	489275.1	636.1107	101.5629	520.1259	482.8456	964.4648	521173.7
#1	485453.8	632.1138	100.6895	516.0563	479.5734	958.6486	517215.3
#2	493096.3	640.1075	102.4364	524.1955	486.1179	970.2811	525132.1
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	497.0861	471.3650	521.8546	192051.2	49.07108	493239.2	495.2860
#1	492.9605	468.7161	517.7543	190629.5	47.83183	489918.4	491.7752
#2	501.2116	474.0140	525.9550	193472.9	50.31033	496560.0	498.7967
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	526.6555	959.7346	5285.211	49.82930	206.9781	10113.67	104.8125
#1	524.7669	952.7838	5255.709	48.44343	205.8531	10072.02	100.6498
#2	528.5441	966.6854	5314.713	51.21518	208.1032	10155.32	108.9752
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	491.1553	1032.667	1046.285	1016.169	980.0215	978.4993	64.30873
#1	487.8481	1024.298	1037.649	1004.823	972.7735	971.1992	62.34132
#2	494.4626	1041.035	1054.922	1027.515	987.2695	985.7994	66.27614
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	41.45213	57.06056	46.21361	502.3070
#1	40.57695	56.20012	44.56502	498.9441
#2	42.32730	57.92099	47.86220	505.6699
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: CVCCV3 Operator:
Run Time: 09/28/07 21:04:47
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	49950.19	516.3407	509.8875	495.6227	49.14776	497.7406	106983.1
#1	49962.48	514.9455	508.0041	494.6210	49.01775	495.9372	106681.9
#2	49937.89	517.7359	511.7708	496.6244	49.27777	499.5441	107284.4
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	499.8119	485.2757	489.0544	48769.93	494.7387	104973.9	482.1730
#1	498.1395	482.5150	487.9925	48624.82	495.2394	104733.2	480.4853
#2	501.4843	488.0364	490.1163	48915.04	494.2380	105214.6	483.8608
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	501.4052	498.5365	23287.21	503.9894	494.0747	97778.95	513.6152
#1	499.5937	497.3172	23279.46	503.5840	492.3747	97761.80	513.4632
#2	503.2167	499.7558	23294.97	504.3947	495.7746	97796.09	513.7672
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	490.0640	500.9357	504.3768	504.5876	485.9685	492.0328	486.7403
#1	488.7576	499.2378	502.9581	501.7007	483.4588	490.7730	484.7826
#2	491.3705	502.6335	505.7955	507.4744	488.4783	493.2926	488.6981
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	498.7377	513.2045	499.3817	483.8231
#1	500.4676	514.0420	498.3549	482.3334
#2	497.0078	512.3669	500.4085	485.3127
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB3 Operator:
Run Time: 09/28/07 21:13:08
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	71.20705	-.801777	.6158899	.0823361	.2686548	.3324984	57.35454
#1	110.6639	-1.32379	-.254556	.1365619	.2949539	.3065455	99.20339
#2	31.75020	-.279765	1.486336	.0281102	.2423557	.3584512	15.50569
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	.1479320	.2138956	-1.20330	32.04446	1.363233	95.05959	.1289347
#1	.0304411	.4873262	-1.13872	50.42260	1.729027	140.0165	.1842552
#2	.2654229	-.059535	-1.26788	13.66634	.9974392	50.10262	.0736142
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	-2.68079	-.695270	9.830532	-.216317	.3205813	-43.4251	1.456622
#1	-2.71594	-.476200	12.13684	-1.20337	.4906344	-43.4404	-.529214
#2	-2.64565	-.914341	7.524222	.7707342	.1505281	-43.4099	3.442459
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	.2167369	-.310328	.6730105	1.786166	.6141374	.3522369	1.274313
#1	.4828337	-.174719	.6534177	2.170711	3.153539	.4594785	1.049701
#2	-.049360	-.445937	.6926033	1.401620	-1.92526	.2449953	1.498926
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	1.407559	.6194559	-.634338	.2414305
#1	2.068555	-1.37710	-1.11664	.4091324
#2	.7465624	2.616007	-.152035	.0737286
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BLK100503 Operator:
Run Time: 09/28/07 21:21:29
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	8.567446	.7166697	-1.75041	.6123164	.2249709	.0437238	168.9239
#1	9.311671	1.760848	-.817337	.5711699	.2286124	-.042381	169.9775
#2	7.823220	-.327509	-2.68349	.6534628	.2213293	.1298287	167.8703
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	.7281994	-1.52525	-.822134	17.49315	3.376308	39.01483	.3447032
#1	.9965833	-1.17835	-.623944	21.04297	2.649991	41.05514	.3207158
#2	.4598154	-1.87216	-1.02032	13.94332	4.102626	36.97453	.3686906
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	-1.02368	-2.99801	23.75257	-.443549	-.188242	561.5547	-8.05620
#1	-2.38095	-3.11623	29.64828	.4292220	.1296303	613.8508	-7.86248
#2	.3335887	-2.87980	17.85687	-1.31632	-.506114	509.2586	-8.24991
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	.1292555	H10.36577	2.119510	.5856427	H22.40568	.4829577	8.335945
#1	.2495215	H10.31555	2.045136	.9941246	H21.66822	.6024455	6.237583
#2	.0089897	H10.41599	2.193884	.1771607	H23.14314	.3634698	10.43431
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	.8963534	-15.1181	6.893593	.2204029
#1	.8560518	-17.1534	9.220381	.5025087
#2	.9366550	-13.0829	4.566805	-.061703
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: BKS100503 Operator:
Run Time: 09/28/07 21:29:52
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	9833.665	101.5291	92.62067	1013.367	48.44799	99.84685	9965.518
#1	9838.941	101.5775	91.54069	1013.908	48.51766	99.81449	9976.176
#2	9828.389	101.4807	93.70064	1012.825	48.37833	99.87921	9954.858
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	511.2302	478.7861	495.5828	9809.676	975.4565	9640.704	964.3195
#1	511.2781	478.7092	496.2628	9823.098	977.1546	9657.345	965.2024
#2	511.1823	478.8630	494.9028	9796.253	973.7584	9624.064	963.4366
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	999.2248	498.6696	8879.660	85.63682	96.35355	9789.990	91.09546
#1	999.9311	499.6938	8907.522	84.67406	96.55836	9876.453	88.27813
#2	998.5186	497.6454	8851.799	86.59957	96.14874	9703.526	93.91278
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	500.0854	974.2586	921.5333	507.3643	509.4191	1986.342	961.2093
#1	500.7588	974.6689	922.7164	508.9397	508.9725	1987.948	964.4908
#2	499.4119	973.8483	920.3503	505.7888	509.8657	1984.735	957.9280
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	982.5801	72.05776	92.42628	492.2208
#1	983.4865	71.63728	91.19238	493.3251
#2	981.6736	72.47822	93.66018	491.1164
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-041-041-1/1 Operator:
Run Time: 09/28/07 21:38:14
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	60536.12	3.329466	6.990651	31.95278	.0709218	-1.97949	647.9189
#1	60829.91	6.180195	5.403409	32.16973	.0629636	-2.08336	651.5624
#2	60242.32	.4787369	8.577893	31.73582	.0788801	-1.87562	644.2756
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	306.4282	6.141038	69.77724	155174.1	74.90721	789.9284	264.7874
#1	307.8580	6.202072	69.98128	156034.4	75.79549	792.4070	266.3273
#2	304.9984	6.080004	69.57320	154313.8	74.01894	787.4498	263.2476
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	280.7308	114.2964	513.0911	1.278538	-.397751	111.2199	4.663057
#1	282.3552	115.0417	517.1372	-.124677	-.505934	147.8461	5.960483
#2	279.1064	113.5511	509.0450	2.681753	-.289568	74.59370	3.365631
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	393.9608	70.16578	3.965544	2.462934	3.314372	8693.776	75.38680
#1	395.8870	70.67824	4.623610	3.019595	3.902540	8744.596	76.55679
#2	392.0346	69.65332	3.307477	1.906273	2.726204	8642.957	74.21680
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	74.66734	-2.49742	3.166386	382.3168
#1	75.41470	-6.83803	3.231865	384.1491
#2	73.91997	1.843186	3.100906	380.4846
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SP709115-041-041-1/1 Operator:
Run Time: 09/28/07 21:46:36
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	72668.16	3.917699	14.00200	135.0442	4.825850	8.082008	1650.740
#1	72507.68	3.651321	14.20455	134.7675	4.812518	7.820269	1649.692
#2	72828.62	4.184078	13.79944	135.3210	4.839181	8.343748	1651.789
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	358.2991	54.01718	124.2139	157181.3	159.5734	1896.960	370.1830
#1	357.5992	53.81493	123.8536	156947.8	160.1986	1892.552	369.5575
#2	358.9991	54.21944	124.5742	157414.8	158.9482	1901.370	370.8085
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	392.5592	181.8968	1509.600	13.09117	9.415394	1082.407	15.30632
#1	391.7400	181.5949	1509.506	13.35996	9.501462	1075.688	13.81339
#2	393.3784	182.1987	1509.693	12.82238	9.329327	1089.126	16.79925
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	441.4804	172.9404	96.96305	49.07394	45.27751	8969.197	160.7797
#1	441.1497	172.8162	96.82928	49.31215	47.09021	8955.479	160.7954
#2	441.8112	173.0647	97.09682	48.83573	43.46480	8982.915	160.7641
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	158.9701	13.63541	12.81891	429.2858
#1	159.9002	14.31972	12.87995	429.0695
#2	158.0401	12.95111	12.75788	429.5022
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SD709115-041-041-1/1 Operator:
Run Time: 09/28/07 21:54:57
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	76598.93	7.249297	14.56041	138.1745	4.868080	7.837735	1693.783
#1	77220.29	5.235371	12.29140	139.1474	4.947425	8.063021	1705.783
#2	75977.57	9.263224	16.82942	137.2017	4.788734	7.612450	1681.782
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	372.1799	55.17635	129.1124	162814.9	167.6861	1917.557	378.1559
#1	374.6307	55.45382	129.8745	163977.2	169.4672	1932.445	380.9301
#2	369.7290	54.89889	128.3504	161652.5	165.9051	1902.668	375.3817
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	400.6782	188.0337	1561.325	14.43491	9.382872	1150.709	13.00752
#1	404.8297	189.6390	1572.784	14.84878	9.225300	1205.618	13.99861
#2	396.5268	186.4283	1549.867	14.02103	9.540443	1095.800	12.01643
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	456.6255	177.5202	98.63991	49.31913	49.33960	9321.574	169.0475
#1	459.7024	178.8053	99.13322	48.50562	50.08866	9389.328	171.0243
#2	453.5485	176.2351	98.14661	50.13264	48.59053	9253.821	167.0707
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	167.0053	9.818985	16.74273	443.4803
#1	168.6885	9.111611	17.71723	446.3984
#2	165.3222	10.52636	15.76823	440.5623
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: PS709115-041-041-1/1 Operator:
Run Time: 09/28/07 22:03:19
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	61838.94	87.27214	83.29050	52.35169	9.587620	17.81505	5553.378
#1	61699.09	86.40810	82.74423	52.30069	9.602642	18.02052	5538.761
#2	61978.80	88.13618	83.83676	52.40268	9.572598	17.60958	5567.995
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	327.7830	35.18001	99.13121	157972.3	152.9751	5651.571	341.6051
#1	326.8839	34.82903	98.91294	157565.0	153.0849	5635.072	340.7253
#2	328.6821	35.53099	99.34947	158379.6	152.8653	5668.070	342.4849
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	362.7765	153.9354	5114.137	73.23300	44.83474	4983.498	100.0042
#1	363.8649	152.8173	5104.055	73.29158	44.32869	4970.972	100.5411
#2	361.6882	155.0536	5124.219	73.17443	45.34080	4996.024	99.46728
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	415.3397	148.7217	72.27907	32.75099	99.86627	8740.185	151.0508
#1	414.6973	148.4155	72.04010	32.95354	98.74273	8724.196	151.2335
#2	415.9820	149.0280	72.51803	32.54844	100.9898	8756.173	150.8681
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	153.9371	68.10194	75.79840	403.9739
#1	154.0105	69.81471	75.02988	403.4236
#2	153.8637	66.38916	76.56692	404.5242
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: SE709115-041-041-1/1 Operator:
Run Time: 09/28/07 22:11:40
Comment: UG/L 50
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	12695.42	.6251885	-2.09500	6.553193	.2916149	-.598369	103.4036
#1	12698.62	.9583321	-2.95187	6.531908	.2706542	-.642751	103.7764
#2	12692.23	.2920449	-1.23813	6.574477	.3125755	-.553987	103.0307
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	63.94183	1.285222	13.01197	32642.31	14.89141	166.4668	55.09151
#1	63.59925	1.245009	12.94639	32651.56	15.17415	167.4263	55.02593
#2	64.28441	1.325436	13.07756	32633.04	14.60867	165.5072	55.15710
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	59.79036	23.86083	107.2848	1.457752	-.166276	-43.4843	-2.21157
#1	59.94311	24.45756	106.1180	-.013426	-.022435	-76.8360	-.604977
#2	59.63760	23.26411	108.4516	2.928931	-.310118	-10.1326	-3.81817
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	82.37181	17.40157	1.071366	.6272707	.5136335	1811.990	14.23545
#1	82.33878	17.57216	1.465201	.7776910	-.065347	1812.529	13.97595
#2	82.40485	17.23098	.6775310	.4768504	1.092614	1811.450	14.49495
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	15.21925	.0333711	2.169809	79.85771
#1	15.77311	.2734467	-.156995	79.87796
#2	14.66539	-.206704	4.496613	79.83746
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-042-042-1/1 Operator:
Run Time: 09/28/07 22:20:02
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	43190.62	1.473820	.4009179	61.01987	.1642606	-2.24597	1419.746
#1	43010.02	3.076581	2.709960	60.71771	.1607603	-2.34138	1414.813
#2	43371.23	-.128942	-1.90812	61.32202	.1677608	-2.15055	1424.679
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	261.8551	13.94177	84.64490	146642.2	15.41364	1092.247	656.9249
#1	260.6957	13.73115	84.44902	146053.7	15.34525	1087.891	654.5430
#2	263.0145	14.15239	84.84078	147230.8	15.48203	1096.603	659.3069
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	687.7203	81.51294	516.7894	.7861239	-.100497	144.2503	.2914825
#1	684.1661	81.22592	514.2277	-.016269	-.136701	178.2258	1.722654
#2	691.2744	81.79995	519.3513	1.588516	-.064293	110.2747	-1.13969
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	453.0189	103.3599	3.469902	1.694330	.7690217	9879.141	17.62873
#1	450.9945	103.3987	3.408164	1.687577	1.494343	9838.908	18.22251
#2	455.0433	103.3212	3.531639	1.701084	.0437007	9919.374	17.03495
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	14.30596	.0037606	1.177172	439.1042
#1	13.90648	-1.73406	.8424911	437.3076
#2	14.70544	1.741577	1.511852	440.9008
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-043-043-1/1 Operator:
Run Time: 09/28/07 22:28:23
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	40018.08	.5603161	2.531324	51.95805	.1902404	-2.22088	763.6960
#1	39774.77	1.763079	4.897441	51.66582	.1972424	-2.27068	757.6938
#2	40261.38	-.642447	.1652063	52.25029	.1832384	-2.17109	769.6981
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	277.1442	12.71895	87.58305	147483.5	12.74429	783.9751	624.0028
#1	275.4497	12.58137	87.17699	146439.0	13.77018	781.1852	619.7617
#2	278.8387	12.85652	87.98912	148527.9	11.71839	786.7649	628.2439
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	655.2451	77.86035	429.6435	1.517376	-.184701	130.4562	1.379016
#1	651.8363	77.04603	428.2155	-1.05185	-.063927	141.4611	-.651581
#2	658.6540	78.67467	431.0715	4.086601	-.305476	119.4514	3.409613
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	439.2703	111.1932	2.900634	1.447252	2.130114	9283.344	13.62466
#1	436.4142	110.6459	3.326199	2.065018	3.725309	9222.933	13.65716
#2	442.1264	111.7405	2.475068	.8294858	.5349185	9343.755	13.59217
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	12.30397	1.431672	1.560095	426.0102
#1	13.82657	-2.15110	-.502357	423.1972
#2	10.78137	5.014443	3.622547	428.8233
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-044-044-1/1 Operator:
Run Time: 09/28/07 22:36:45
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	47999.24	1.509367	7.619721	69.58720	.0124895	L-3.60619	5048.773
#1	47825.38	3.183940	6.542209	69.35850	.0042841	L-3.55318	5040.996
#2	48173.10	-.165206	8.697234	69.81591	.0206949	L-3.65920	5056.550
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	308.0335	6.953187	93.04330	228113.6	13.26839	2059.651	508.1818
#1	307.5731	7.303650	92.72736	227665.7	12.71526	2058.658	507.5156
#2	308.4939	6.602724	93.35923	228561.5	13.82151	2060.644	508.8480
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	537.3416	63.65264	399.9962	2.131203	-.680205	200.6928	4.927289
#1	537.0076	63.89264	400.5520	1.660697	-.594046	176.8990	3.802088
#2	537.6757	63.41265	399.4403	2.601710	-.766365	224.4867	6.052489
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	574.9681	91.05853	3.710807	3.822631	3.620973	11819.41	17.34930
#1	573.9244	90.64830	3.839284	3.950269	4.043618	11795.39	16.26456
#2	576.0118	91.46875	3.582331	3.694992	3.198327	11843.42	18.43404
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	11.22780	2.387566	2.002888	558.5699
#1	10.94048	5.358360	-.188267	557.5271
#2	11.51512	-.583228	4.194042	559.6128
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV4 Operator:
Run Time: 09/28/07 22:47:57
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50224.46	518.4507	500.9126	502.9172	48.36485	495.1076	106055.2
#1	49737.74	515.7206	495.0590	498.6730	47.91555	490.1565	105099.3
#2	50711.18	521.1809	506.7661	507.1614	48.81414	500.0587	107011.0
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	498.7022	479.1458	488.2381	48269.09	492.1576	103401.6	475.2607
#1	494.1016	474.4026	484.1189	47823.65	488.2112	102491.9	471.2048
#2	503.3029	483.8891	492.3573	48714.54	496.1042	104311.4	479.3166
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	500.4575	495.2611	23403.58	503.5717	491.1671	98600.89	509.1555
#1	496.0328	489.5663	23222.69	500.3393	486.9055	97660.00	510.1897
#2	504.8823	500.9558	23584.47	506.8041	495.4287	99541.77	508.1212
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	485.1886	496.1886	504.2440	501.3557	478.3885	491.3087	485.8778
#1	481.2825	492.1247	500.2273	494.4565	471.2798	487.3167	482.0307
#2	489.0947	500.2525	508.2606	508.2550	485.4971	495.3006	489.7249
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	495.2975	511.2282	499.7433	478.0762
#1	491.3013	512.4075	494.3050	474.0281
#2	499.2937	510.0490	505.1816	482.1243
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB4 Operator:
Run Time: 09/28/07 22:56:19
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	Q16.53876	Q1.656352	Q-1.26572	Q.1282686	Q.4522076	Q.3444460	Q-10.7839
#1	Q21.69019	Q2.470379	Q-1.82138	Q.1660278	Q.4503972	Q.3583885	Q.5914735
#2	Q11.38733	Q.8423257	Q-.710056	Q.0905095	Q.4540179	Q.3305035	Q-22.1593
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-.169058	Q.1675502	Q-1.92846	Q16.86173	Q.7329357	Q47.61466	Q.0291569
#1	Q-.215862	Q.4364192	Q-1.92296	Q27.25446	Q.6506877	Q56.97087	Q.0689122
#2	Q-.122254	Q-.101319	Q-1.93397	Q6.469009	Q.8151837	Q38.25846	Q-.010598
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	1.062743	Q-.213472	Q13.83377	Q-1.50305	Q.1451221	Q-15.7537	Q.5576634
#1	.8537096	Q.5204694	Q13.64876	Q.0833201	Q.1922367	Q-73.0472	Q2.001923
#2	1.271777	Q-.947414	Q14.01877	Q-3.08941	Q.0980075	Q41.53984	Q-.886596
Errors	NOCHECK	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
Range		10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	V	Zn	B	Mo	Sn	Ti	1/Pb
Avge	Q.1821185	Q-.225588	Q.5869981	Q1.374131	Q-.431485	Q.4658877	-.096450
#1	Q.2394142	Q-.193593	Q1.038038	Q1.371968	Q-1.36090	Q.4769677	-.777857
#2	Q.1248229	Q-.257583	Q.1359583	Q1.376293	Q.4979322	Q.4548077	.5849584
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	2V
Avge	1.147496	.4605990	-2.48500	.4262048
#1	1.364828	1.690019	-.720159	.1811617
#2	.9301646	-.768821	-4.24984	.6712479
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: S 709115-045-045-1/1 Operator:
Run Time: 09/28/07 23:04:41
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	40945.56	2.304562	5.975053	14.24338	-.104125	L-3.36030	330.9357
#1	40908.52	.9050126	5.501723	14.18613	-.094009	L-3.48003	330.0722
#2	40982.59	3.704111	6.448383	14.30063	-.114242	L-3.24058	331.7991
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	376.2958	6.534445	72.68660	208306.0	10.80611	683.0243	259.6182
#1	375.9915	6.596470	72.17159	207672.2	10.74540	681.5130	258.7843
#2	376.6000	6.472420	73.20160	208939.7	10.86681	684.5356	260.4522
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	Mn3441	Ni	K	Se	Ag	Na	Tl
Avge	281.1075	65.76039	323.4475	5.443875	-.136991	163.9258	6.124176
#1	280.3839	65.76479	323.1385	6.656826	.0875763	114.2762	3.977395
#2	281.8312	65.75598	323.7565	4.230926	-.361558	213.5754	8.270958
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	502.2903	75.96984	1.645619	3.387014	3.094802	10922.87	12.46220
#1	501.1491	75.73906	1.789270	2.854738	3.058715	10889.15	11.61606
#2	503.4315	76.20062	1.501968	3.919290	3.130890	10956.60	13.30835
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	9.977930	4.122109	6.104628	488.3039
#1	10.30995	4.004271	7.982971	487.0543
#2	9.645912	4.239947	4.226284	489.5535
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-046-046-1/1 Operator:
Run Time: 09/28/07 23:13:03
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	54689.85	2.394698	8.217604	15.72565	-.056532	L-3.34243	265.9617
#1	54478.68	3.691219	9.370265	15.62841	-.058911	L-3.54914	264.6750
#2	54901.02	1.098177	7.064942	15.82289	-.054153	L-3.13572	267.2483
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	473.3935	2.089769	73.99351	209640.5	10.71399	535.5795	199.3296
#1	472.2891	1.972977	73.41260	208962.3	10.32537	536.0978	198.5152
#2	474.4980	2.206562	74.57442	210318.7	11.10262	535.0612	200.1441
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	219.9198	99.03743	403.5827	10.28102	-.322878	109.3719	1.042302
#1	216.2546	98.34119	402.3354	9.800788	-.193013	145.9973	.6129770
#2	223.5850	99.73367	404.8300	10.76125	-.452742	72.74659	1.471626
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	428.6241	68.16532	1.469293	2.548166	2.319121	9829.494	13.35750
#1	427.6159	67.97034	2.056586	2.336157	3.321565	9800.319	12.76390
#2	429.6322	68.36030	.8820000	2.760175	1.316676	9858.668	13.95110
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	9.392071	10.69297	10.07492	417.3059
#1	9.105933	11.44687	8.977619	416.3551
#2	9.678207	9.939074	11.17221	418.2566
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-047-047-1/1 Operator:
Run Time: 09/28/07 23:21:25
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	45200.10	2.510978	4.399651	16.18297	-.218318	L-3.77500	224.1090
#1	45420.73	2.635755	4.003594	16.26474	-.208585	L-3.79825	226.0362
#2	44979.47	2.386201	4.795707	16.10120	-.228052	L-3.75174	222.1818
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	514.5614	8.639688	114.8236	231476.8	12.80816	782.9167	443.5103
#1	518.1688	8.754518	115.4022	232773.5	14.07008	788.1086	445.9110
#2	510.9540	8.524857	114.2449	230180.2	11.54624	777.7248	441.1096
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	472.9952	82.19093	457.0470	.7565383	-.357508	167.2013	5.985986
#1	472.7377	82.62382	460.5695	.2515117	-.489676	178.6599	7.809093
#2	473.2526	81.75803	453.5245	1.261565	-.225341	155.7427	4.162880
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	541.2302	133.9300	1.676242	2.361811	3.218877	11670.26	15.70027
#1	544.4756	134.5857	1.820833	3.994830	3.110992	11733.29	15.82182
#2	537.9848	133.2743	1.531651	.7287928	3.326762	11607.24	15.57871
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	11.36193	.6129104	.8282204	525.9933
#1	13.19403	-1.52614	1.140205	529.4765
#2	9.529833	2.751964	.5162353	522.5101
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-048-048-1/1 Operator:
Run Time: 09/28/07 23:29:48
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	16101.17	4.036358	4.267751	12.11290	-.309150	L-4.58287	214.6114
#1	16115.12	5.691704	6.375130	12.17553	-.305076	L-4.76678	214.5002
#2	16087.21	2.381013	2.160372	12.05027	-.313223	L-4.39896	214.7227
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	538.6971	5.458016	59.96594	284287.2	12.38830	581.9160	243.6101
#1	539.3889	5.454203	60.18148	284530.0	11.68798	583.8090	243.8606
#2	538.0053	5.461830	59.75039	284044.4	13.08862	580.0231	243.3596
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	268.5951	30.05733	124.7016	5.845803	-.412300	189.7729	2.443142
#1	266.5363	30.62819	125.4543	6.631709	-.365092	222.1535	1.746087
#2	270.6540	29.48647	123.9488	5.059897	-.459508	157.3923	3.140197
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	723.5121	70.59951	.0835142	3.337239	3.694805	14646.69	16.46163
#1	723.7595	70.60629	-.188295	3.228477	3.265697	14665.65	17.92377
#2	723.2647	70.59273	.3553238	3.446002	4.123913	14627.73	14.99948
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	10.35145	-.100343	8.818739	702.8346
#1	8.569895	2.443193	8.725830	703.3518
#2	12.13300	-2.64388	8.911648	702.3174
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-049-049-1/1 Operator:
Run Time: 09/28/07 23:38:10
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	42996.74	2.400941	5.888660	18.95292	-.108656	L-3.50359	254.9689
#1	43292.37	2.260422	4.917227	19.10137	-.110276	L-3.35245	256.5342
#2	42701.12	2.541460	6.860093	18.80447	-.107035	L-3.65472	253.4036
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	455.1066	6.646249	80.20343	207333.4	10.35605	699.7673	267.1832
#1	459.2501	6.850071	80.78711	209000.2	10.58390	706.5599	269.3060
#2	450.9631	6.442427	79.61974	205666.5	10.12820	692.9746	265.0605
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	288.8778	70.09750	381.8091	5.771497	-.556487	63.81792	2.327311
#1	290.7433	71.34071	387.3100	4.048408	-.727145	52.67400	4.296907
#2	287.0124	68.85428	376.3082	7.494586	-.385829	74.96184	.3577137
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	461.8396	80.86781	.9347248	4.177224	2.716559	10744.19	14.66934
#1	465.5319	81.45266	1.962420	4.757386	2.890493	10829.10	14.43682
#2	458.1473	80.28296	-.092971	3.597061	2.542626	10659.27	14.90185
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	8.199240	-.658577	8.986397	449.7616
#1	8.657265	-2.41805	7.281498	453.5475
#2	7.741215	1.100894	10.69130	445.9756
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: S 709115-050-050-1/1 Operator:
Run Time: 09/28/07 23:46:32
Comment: UG/L 10
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	60902.58	2.799424	6.264049	21.17371	-.047562	L-3.76021	265.1376
#1	61224.62	1.418006	6.427043	21.25289	-.070200	L-3.79045	266.9018
#2	60580.54	4.180841	6.101054	21.09452	-.024923	L-3.72996	263.3735
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	502.0136	2.127270	76.23650	218728.0	11.51443	541.9203	231.3179
#1	504.2537	2.163340	76.76746	219745.2	12.58271	545.3934	232.3433
#2	499.7736	2.091200	75.70552	217710.8	10.44615	538.4472	230.2924
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	252.0701	104.0960	283.4159	6.718914	-.065199	145.4042	.2296062
#1	252.3607	104.2593	285.8631	7.873790	-.340259	85.66132	-1.50704
#2	251.7795	103.9327	280.9687	5.564039	.2098599	205.1470	1.966256
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	434.5707	67.49406	1.477127	2.485112	2.776220	10151.94	16.03509
#1	436.4464	67.69395	1.815638	2.061701	2.008780	10199.39	17.90781
#2	432.6950	67.29417	1.138615	2.908523	3.543660	10104.49	14.16237
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	9.253967	9.032444	5.562019	423.8850
#1	9.920027	9.430562	7.095272	426.0173
#2	8.587908	8.634325	4.028767	421.7526
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: TRACEV2 Sample Name: CVCCV4 Operator:
Run Time: 09/29/07 00:31:12
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	50374.89	518.4719	503.7006	505.2694	48.20225	496.3412	106067.4
#1	50314.34	515.0862	502.2107	504.7812	48.26415	496.3218	106091.4
#2	50435.44	521.8577	505.1904	505.7576	48.14035	496.3605	106043.6
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	500.1911	478.5256	487.0582	48177.39	490.8356	103036.4	473.3050
#1	500.6198	478.5174	486.5595	48147.54	491.0378	103018.4	473.4356
#2	499.7624	478.5337	487.5568	48207.25	490.6335	103054.4	473.1744
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	498.2052	496.2974	23423.00	497.7382	488.2084	98730.59	519.1067
#1	499.5721	497.2683	23387.27	495.4771	488.2455	98511.84	520.5225
#2	496.8383	495.3265	23458.73	499.9994	488.1714	98949.35	517.6909
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	483.0665	495.3577	504.1539	501.7024	475.9558	489.5130	484.7201
#1	482.8550	495.0875	504.5616	501.2859	476.0802	489.6090	484.2322
#2	483.2781	495.6279	503.7463	502.1190	475.8315	489.4169	485.2080
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	493.8933	506.0710	493.5718	475.3572
#1	494.4404	507.1365	489.6474	475.4363
#2	493.3461	505.0056	497.4961	475.2781
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

Method: TRACEV2 Sample Name: BCCCB4 Operator:
Run Time: 09/29/07 00:39:34
Comment: UG/L
Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	7.337833	2.421795	-.110294	.0673309	.5229324	-.057718	-29.0905
#1	11.73755	.5919195	.9755048	.1109549	.5383857	.0424431	-21.3023
#2	2.938122	4.251671	-1.19609	.0237070	.5074791	-.157879	-36.8788
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	.2583750	.8499578	-2.09816	12.52171	-.396339	32.54864	.0578912
#1	.1618773	.8487984	-2.06552	15.82891	-1.18203	42.58496	.1233953
#2	.3548726	.8511171	-2.13080	9.214503	.3893470	22.51233	-.007613
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	1.566377	.3657509	17.48159	-1.12651	.1602369	50.58482	-2.51202
#1	2.378917	.5738845	19.57772	.5123766	.1954443	57.07829	.1684944
#2	.7538370	.1576173	15.38546	-2.76539	.1250296	44.09134	-5.19253
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	.5653241	-.241111	.4994342	1.332357	-.277770	.4998269	-1.34491
#1	.8863393	-.138494	.0369419	1.803369	-.400270	.5010592	-4.31293
#2	.2443089	-.343728	.9619266	.8613443	-.155270	.4985946	1.623116
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	.0778116	-2.49690	-.441447	.7591789
#1	.3832931	-2.86699	2.201926	1.037050
#2	-.227670	-2.12680	-3.08482	.4813075
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				