



EBERLINE
SERVICES

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July 2, 2009

Mr. Michael Neely
CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop – B6-06
Richland, WA 99352

Reference: **P.O. #33677**
Eberline Analytical R9-06-120-7849, SDG H4015

Dear Mr. Neely:

Enclosed is a data report for two solid (other solid) samples designated under SAF No. R09-013 received at Eberline Analytical on June 25, 2009. The samples were analyzed according to the accompanying chain-of-custody documents.

Please call if you have any questions concerning this report.

Sincerely,

N. Joseph Verville
Senior Program Manager

NJV/jag

Enclosure: Case Narrative

1.0 GENERAL

CH2M Hill Plateau Remediation Company (CHPRC) Sample Delivery Group H4015 was composed of two solid (other solid) samples designated under SAF No. R09-013 with a Project Designation of: ARRA 212-N, -P, and -R Buildings - Paint.

The samples were received as stated on the Chain-of-Custody document. Any discrepancies are noted on the Eberline Analytical Sample Receipt Checklist.

2.0 ANALYSIS NOTES

2.1 Gross Alpha and Gross Beta Analysis

No problems were encountered during the course of the analyses.

2.2 Tritium Analysis

No problems were encountered during the course of the analyses.

2.3 Nickel-63 Analysis

No problems were encountered during the course of the analyses.

2.4 Strontium-90 Analysis

The Sr-90 tracer yield for sample B211C2 was 112%, greater than the upper control limit of 110%. No other problems were encountered during the course of the analyses.

2.5 Technetium-99 Analysis

No problems were encountered during the course of the analyses.

2.6 Isotopic Thorium Analysis

The Th-229 tracer yield for the QC Duplicate was 114%, greater than the upper control limit of 110%. No other problems were encountered during the course of the analyses.

2.7 Isotopic Uranium Analysis

No problems were encountered during the course of the analyses.

2.8 Isotopic Plutonium Analysis

No problems were encountered during the course of the analyses.

2.9 Americium-241 and Curium-243/244 Analysis

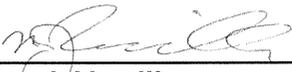
No problems were encountered during the course of the analyses.

2.10 Gamma Spectroscopy

No problems were encountered during the course of the analyses.

3.0 Case Narrative Certification Statement

"I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data obtained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature."



N. Joseph Verville
Senior Program Manager

7/2/09

Date

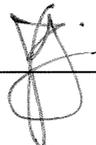
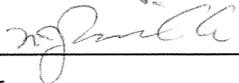
E B E R L I N E S E R V I C E S / R I C H M O N D
S A M P L E D E L I V E R Y G R O U P H 4 0 1 5

SDG 7849
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG_H4015

S U M M A R Y D A T A S E C T I O N

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Prepared by 
Reviewed by 

Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-TOC
Version 3.06
Report date 07/02/09

EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4015

ABOUT THE DATA SUMMARY SECTION

The Data Summary Section of a Data Package has all data, in several useful orders, necessary for first level, routine review of the data package for a Sample Delivery Group (SDG). This section follows the Data Package Narrative, which has an overview of the data package and a discussion of special problems. It is followed by the Raw Data Section, which has full details.

The Data Summary Section has several groups of reports:

SAMPLE SUMMARIES

The Sample and QC Summary Reports show all samples, including QC samples, reported in one SDG. These reports cross-reference client and lab sample identifiers.

PREPARATION BATCH SUMMARY

The Preparation Batch Summary Report shows all preparation batches (lab groupings reflecting how work was organized) relevant to the reported SDG with information necessary to check the completeness and consistency of the SDG.

WORK SUMMARY

The Work Summary Report shows all samples and work done on them relevant to the reported SDG.

METHOD BLANKS

The Method Blank Reports, one for each Method Blank relevant to the SDG, show all results and primary supporting information for the blanks.

LAB CONTROL SAMPLES

The Lab Control Sample Reports, one for each Lab Control Sample relevant to the SDG, show all results, recoveries and primary supporting information for these QC samples.

REPORT GUIDES

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SUMMARY DATA SECTION

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Lab id EBRLNE
Protocol CHPRC
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Form DVD-RG
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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
Case no SDG H4015

ABOUT THE DATA SUMMARY SECTION

DUPLICATES

The Duplicate Reports, one for each Duplicate and Original sample pair relevant to the SDG, show all results, differences and primary supporting information for these QC samples.

MATRIX SPIKES

The Matrix Spike Reports, one for each Spiked and Original sample pair relevant to the SDG, show all results, recoveries and primary supporting information for these QC samples.

DATA SHEETS

The Data Sheet Reports, one for each client sample in the SDG, show all results and primary supporting information for these samples.

METHOD SUMMARIES

The Method Summary Reports, one for each test used in the SDG, show all results, QC and method performance data for one analyte on one or two pages. (A test is a short code for the method used to do certain work to the client's specification.)

REPORT GUIDES

The Report Guides, one for each of the above groups of reports, have documentation on how to read the associated reports.

REPORT GUIDES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849
 Contact N. Joseph Verville

LAB SAMPLE SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4015

LAB						CHAIN OF	
SAMPLE ID	CLIENT SAMPLE ID	LOCATION	MATRIX	LEVEL	SAF NO	CUSTODY	COLLECTED
R906120-01	B211C1	212 N/P/R PAINT;I-001	SOLID		R09-013	R09-013-014	06/22/09 13:50
R906120-02	B211C2	212 N/P/R PAINT;I-001D	SOLID		R09-013	R09-013-014	06/22/09 13:50
R906120-03	Lab Control Sample		SOLID		R09-013		
R906120-04	Method Blank		SOLID		R09-013		
R906120-05	Duplicate (R906120-01)	212 N/P/R PAINT;I-001	SOLID		R09-013		06/22/09 13:50

LAB SUMMARY

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Lab id EBRLNE
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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849
 Contact N. Joseph Verville

QC SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4015

QC BATCH	CHAIN OF CUSTODY	CLIENT SAMPLE ID	MATRIX	% SOLIDS	SAMPLE AMOUNT	BASIS AMOUNT	DAYS SINCE RECEIVED	LAB COLL	LAB SAMPLE ID	DEPARTMENT SAMPLE ID
7849	R09-013-014	B211C1	SOLID	100.0	6.7 g		06/26/09 4	R906120-01		7849-001
		B211C2	SOLID	100.0	6.5 g		06/26/09 4	R906120-02		7849-002
		Method Blank	SOLID					R906120-04		7849-004
		Lab Control Sample	SOLID					R906120-03		7849-003
		Duplicate (R906120-01)	SOLID	100.0	6.7 g		06/26/09 4	R906120-05		7849-005

QC SUMMARY

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SAMPLE DELIVERY GROUP H4015

PREP BATCH SUMMARY

SDG 7849
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG H4015

TEST	MATRIX	METHOD	PREPARATION ERROR		PLANCHETS ANALYZED				QUALI- FIERS	
			BATCH	2σ %	CLIENT	MORE	RE	BLANK		LCS
Alpha Spectroscopy										
PU	SOLID	Plutonium, Isotopic in Solids	7197-190	8.0	2			1	1	1/1
TH	SOLID	Thorium, Isotopic in Solids	7197-190	8.0	2			1	1	1/1
TP	SOLID	Americium 241/Curium in Solids	7197-190	8.0	2			1	1	1/1
U	SOLID	Uranium, Isotopic in Solids	7197-190	8.0	2			1	1	1/1
Beta Counting										
SR	SOLID	Total Strontium in Solids	7197-190	10.4	2			1	1	1/1
TC	SOLID	Technetium 99 in Solids	7197-190	13.2	2			1	1	1/1
Gas Proportional Counting										
93A	SOLID	Gross Alpha in Solids	7197-190	20.6	2			1	1	1/1
93B	SOLID	Gross Beta in Solids	7197-190	20.6	2			1	1	1/1
Gamma Spectroscopy										
GAM	SOLID	Gamma Scan	7197-190	7.0	2			1	1	1/1
Liquid Scintillation Counting										
H	SOLID	Tritium in Solids	7197-190	10.0	2			1	1	1/1
NI_L	SOLID	Nickel 63 in Solids	7197-190	11.2	2			1	1	1/1

Blank, LCS, Duplicate and Spike planchets are those in the same preparation batch as some Client sample.

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SAMPLE DELIVERY GROUP H4015

SDG 7849

Contact N. Joseph Verville

LAB WORK SUMMARY

Client CHPRC

Contract No. 33677

Case no SDG H4015

LAB SAMPLE	CLIENT SAMPLE ID				SUF-					
COLLECTED	LOCATION	MATRIX			FIX	ANALYZED	REVIEWED	BY	METHOD	
RECEIVED	CUSTODY	SAF No	PLANCHET	TEST						
R906120-01	B211C1		7849-001	93A/93		06/30/09	06/30/09	BW	Gross Alpha in Solids	
06/22/09	212 N/P/R PAINT;I-001	SOLID	7849-001	93B/93		06/30/09	06/30/09	BW	Gross Beta in Solids	
06/26/09	R09-013-014	R09-013	7849-001	GAM		06/29/09	06/30/09	BW	Gamma Scan	
			7849-001	H		06/30/09	07/01/09	BW	Tritium in Solids	
			7849-001	NI_L		07/01/09	07/02/09	BW	Nickel 63 in Solids	
			7849-001	PU		07/01/09	07/02/09	MWT	Plutonium, Isotopic in Solids	
			7849-001	SR		06/30/09	07/02/09	BW	Total Strontium in Solids	
			7849-001	TC		07/01/09	07/02/09	BW	Technetium 99 in Solids	
			7849-001	TH		07/01/09	07/02/09	MWT	Thorium, Isotopic in Solids	
			7849-001	TP		07/01/09	07/01/09	BW	Americium 241/Curium in Solids	
			7849-001	U		07/01/09	07/01/09	BW	Uranium, Isotopic in Solids	
R906120-02	B211C2		7849-002	93A/93		06/30/09	06/30/09	BW	Gross Alpha in Solids	
06/22/09	212 N/P/R PAINT;I-001D	SOLID	7849-002	93B/93		06/30/09	06/30/09	BW	Gross Beta in Solids	
06/26/09	R09-013-014	R09-013	7849-002	GAM		06/29/09	06/30/09	BW	Gamma Scan	
			7849-002	H		06/30/09	07/01/09	BW	Tritium in Solids	
			7849-002	NI_L		07/01/09	07/02/09	BW	Nickel 63 in Solids	
			7849-002	PU		07/01/09	07/02/09	MWT	Plutonium, Isotopic in Solids	
			7849-002	SR		06/30/09	07/02/09	BW	Total Strontium in Solids	
			7849-002	TC		06/30/09	07/02/09	BW	Technetium 99 in Solids	
			7849-002	TH		07/01/09	07/02/09	MWT	Thorium, Isotopic in Solids	
			7849-002	TP		07/01/09	07/01/09	BW	Americium 241/Curium in Solids	
			7849-002	U		07/01/09	07/01/09	BW	Uranium, Isotopic in Solids	
R906120-03	Lab Control Sample		7849-003	93A/93		06/30/09	06/30/09	BW	Gross Alpha in Solids	
		SOLID	7849-003	93B/93		06/30/09	06/30/09	BW	Gross Beta in Solids	
		R09-013	7849-003	GAM		06/29/09	06/30/09	BW	Gamma Scan	
			7849-003	H		06/30/09	07/01/09	BW	Tritium in Solids	
			7849-003	NI_L		07/01/09	07/02/09	BW	Nickel 63 in Solids	
			7849-003	PU		07/01/09	07/02/09	MWT	Plutonium, Isotopic in Solids	
			7849-003	SR		06/30/09	07/02/09	BW	Total Strontium in Solids	
			7849-003	TC		06/30/09	07/02/09	BW	Technetium 99 in Solids	
			7849-003	TH		07/01/09	07/02/09	MWT	Thorium, Isotopic in Solids	
			7849-003	TP		07/01/09	07/01/09	BW	Americium 241/Curium in Solids	
			7849-003	U		07/01/09	07/01/09	BW	Uranium, Isotopic in Solids	

WORK SUMMARY

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849

Contact N. Joseph Verville

WORK SUMMARY, cont.

Client CHPRC

Contract No. 33677

Case no SDG H4015

LAB SAMPLE	CLIENT SAMPLE ID				SUF-				
COLLECTED	LOCATION	MATRIX	PLANCHET	TEST	FIX	ANALYZED	REVIEWED	BY	METHOD
RECEIVED	CUSTODY	SAF No							
R906120-04	Method Blank		7849-004	93A/93		06/30/09	06/30/09	BW	Gross Alpha in Solids
		SOLID	7849-004	93B/93		06/30/09	06/30/09	BW	Gross Beta in Solids
		R09-013	7849-004	GAM		06/29/09	06/30/09	BW	Gamma Scan
			7849-004	H		06/30/09	07/01/09	BW	Tritium in Solids
			7849-004	NI_L		07/01/09	07/02/09	BW	Nickel 63 in Solids
			7849-004	PU		07/01/09	07/02/09	MWT	Plutonium, Isotopic in Solids
			7849-004	SR		06/30/09	07/02/09	BW	Total Strontium in Solids
			7849-004	TC		06/30/09	07/02/09	BW	Technetium 99 in Solids
			7849-004	TH		07/01/09	07/02/09	MWT	Thorium, Isotopic in Solids
			7849-004	TP		07/01/09	07/01/09	BW	Americium 241/Curium in Solids
			7849-004	U		07/01/09	07/01/09	BW	Uranium, Isotopic in Solids
R906120-05	Duplicate (R906120-01)		7849-005	93A/93		06/30/09	06/30/09	BW	Gross Alpha in Solids
06/22/09	212 N/P/R PAINT;I-001	SOLID	7849-005	93B/93		06/30/09	06/30/09	BW	Gross Beta in Solids
06/26/09		R09-013	7849-005	GAM		06/29/09	06/30/09	BW	Gamma Scan
			7849-005	H		06/30/09	07/01/09	BW	Tritium in Solids
			7849-005	NI_L		07/01/09	07/02/09	BW	Nickel 63 in Solids
			7849-005	PU		07/01/09	07/02/09	MWT	Plutonium, Isotopic in Solids
			7849-005	SR		06/30/09	07/02/09	BW	Total Strontium in Solids
			7849-005	TC		07/01/09	07/02/09	BW	Technetium 99 in Solids
			7849-005	TH		07/01/09	07/02/09	MWT	Thorium, Isotopic in Solids
			7849-005	TP		07/01/09	07/01/09	BW	Americium 241/Curium in Solids
			7849-005	U		07/01/09	07/01/09	BW	Uranium, Isotopic in Solids

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849

Contact N. Joseph Verville

WORK SUMMARY, cont.

Client CHPRC

Contract No. 33677

Case no SDG H4015

COUNTS OF TESTS BY SAMPLE TYPE

TEST	SAF No	METHOD	REFERENCE	CLIENT	MORE	RE	BLANK	LCS	DUP	SPIKE	TOTAL
93A/93	R09-013	Gross Alpha in Solids	900.0_ALPHABETA_GPC	2			1	1	1		5
93B/93	R09-013	Gross Beta in Solids	900.0_ALPHABETA_GPC	2			1	1	1		5
GAM	R09-013	Gamma Scan	GAMMA_GS	2			1	1	1		5
H	R09-013	Tritium in Solids	TRITIUM_COX_LSC	2			1	1	1		5
NI_L	R09-013	Nickel 63 in Solids	NI63_LSC	2			1	1	1		5
PU	R09-013	Plutonium, Isotopic in Solids	PUISO_PLATE_AEA	2			1	1	1		5
SR	R09-013	Total Strontium in Solids	SRTOT_SEP_PRECIP_GPC	2			1	1	1		5
TC	R09-013	Technetium 99 in Solids	TC99_TR_SEP_GPC	2			1	1	1		5
TH	R09-013	Thorium, Isotopic in Solids	THISO_IE_PLATE_AEA	2			1	1	1		5
TP	R09-013	Americium 241/Curium in Solids	AMCMISO_IE_PLATE_AEA	2			1	1	1		5
U	R09-013	Uranium, Isotopic in Solids	UIISO_PLATE_AEA	2			1	1	1		5
TOTALS				22			11	11	11		55

WORK SUMMARY

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Lab id EBRLNE

Protocol CHPRC

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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-004

Method Blank

METHOD BLANK

SDG <u>7849</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4015</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R906120-04</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7849-004</u>	Material/Matrix <u>SOLID</u>	
	SAF No <u>R09-013</u>	

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Gross Alpha	12587-46-1	0.567	2.2	4.15	10.0	U	93A
Gross Beta	12587-47-2	-0.068	3.4	5.76	15.0	U	93B
Tritium	10028-17-8	1.54	2.9	5.21	400	U	H
Nickel 63	13981-37-8	-0.360	1.7	2.93	30.0	U	NI_L
Total Strontium	SR-RAD	-0.022	0.13	0.277	1.00	U	SR
Technetium 99	14133-76-7	-0.074	0.19	0.559	15.0	U	TC
Thorium 228	14274-82-9	0	0.42	0.940	1.00	U	TH
Thorium 230	14269-63-7	-0.070	0.28	0.537	1.00	U	TH
Thorium 232	TH-232	0	0.14	0.537	1.00	U	TH
Uranium 233/234	U-233/234	0	0.27	<u>1.05</u>	1.00	U	U
Uranium 235	15117-96-1	0	0.33	<u>1.27</u>	1.00	U	U
Uranium 238	U-238	0	0.27	<u>1.05</u>	1.00	U	U
Americium 241	14596-10-2	-0.112	0.23	0.861	1.00	U	TP
Curium 242	15510-73-3	0	0.22	0.861	1.00	U	TP
Curium 243/244	CM-243/244	0.562	0.68	0.861	1.00	U	TP
Plutonium 238	13981-16-3	0	0.48	<u>1.34</u>	1.00	U	PU
Plutonium 239/240	PU-239/240	-0.121	0.24	0.926	1.00	U	PU
Beryllium 7	13966-02-4	U		5.80		U	GAM
Potassium 40	13966-00-2	U		16.7		U	GAM
Cobalt 60	10198-40-0	U		<u>0.929</u>	0.050	U	GAM
Ruthenium 106	13967-48-1	U		7.09		U	GAM
Antimony 125	14234-35-6	U		1.94		U	GAM
Cesium 134	13967-70-9	U		1.02		U	GAM
Cesium 137	10045-97-3	U		<u>0.689</u>	0.100	U	GAM
Europium 152	14683-23-9	U		<u>2.26</u>	0.100	U	GAM
Europium 154	15585-10-1	U		<u>2.34</u>	0.100	U	GAM
Europium 155	14391-16-3	U		<u>1.71</u>	0.100	U	GAM
Niobium 94	14681-63-1	U		0.664		U	GAM
Radium 226	13982-63-3	U		1.59		U	GAM

ARRA 212-N,-P, and-R Buildings-Paint

METHOD BLANKS

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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-004

Method Blank

BLANK, cont.

SDG <u>7849</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4015</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R906120-04</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7849-004</u>	Material/Matrix <u>SOLID</u>	
	SAF No <u>R09-013</u>	

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Radium 228	15262-20-1	U		3.96		U	GAM

ARRA 212-N, -P, and-R Buildings-Paint

QC-BLANK #70166

METHOD BLANKS

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SUMMARY DATA SECTION

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Protocol <u>CHPRC</u>
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Report date <u>07/02/09</u>

EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-003

Lab Control Sample

LAB CONTROL SAMPLE

SDG <u>7849</u> Contact <u>N. Joseph Verville</u> Lab sample id <u>R906120-03</u> Dept sample id <u>7849-003</u>	Client/Case no <u>CHPRC</u> <u>SDG H4015</u> Contract <u>No. 33677</u> Client sample id <u>Lab Control Sample</u> Material/Matrix <u>SOLID</u> SAF No <u>R09-013</u>
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ANALYTE	RESULT	2σ ERR	MDA	RDL	QUALI-	ADDED	2σ ERR	REC	3σ	LMTS	PROTOCOL
	pCi/g	(COUNT)	pCi/g	pCi/g	FIERS TEST	pCi/g	pCi/g	%	(TOTAL)	LIMITS	
Gross Alpha	121	12	3.95	10.0	93A	112	4.5	108	62-138	70-130	
Gross Beta	110	7.7	4.92	15.0	93B	109	4.4	101	66-134	70-130	
Tritium	976	22	8.22	400	H	1160	46	<u>84</u>	86-114	80-120	
Nickel 63	247	6.2	2.94	30.0	NI_L	264	11	94	83-117	80-120	
Total Strontium	9.72	0.58	0.265	1.00	SR	10.0	0.40	97	82-118	80-120	
Technetium 99	139	4.1	0.540	15.0	TC	133	5.3	104	78-122	80-120	
Thorium 230	69.7	6.8	0.559	1.00	TH	69.3	2.8	101	80-120	80-120	
Uranium 233/234	33.6	4.7	<u>2.51</u>	1.00	U	32.2	1.3	104	74-126	80-120	
Uranium 235	28.5	4.2	0.828	1.00	U	26.1	1.0	109	72-128	80-120	
Uranium 238	38.0	5.0	<u>2.39</u>	1.00	U	34.9	1.4	109	74-126	80-120	
Americium 241	19.8	3.2	0.781	1.00	TP	20.3	0.81	98	73-127	80-120	
Curium 243/244	25.3	3.8	<u>1.56</u>	1.00	TP	22.1	0.88	114	70-130	80-120	
Plutonium 238	22.7	3.7	0.848	1.00	PU	23.2	0.93	98	73-127	80-120	
Plutonium 239/240	25.4	4.0	0.848	1.00	PU	26.4	1.1	96	74-126	80-120	
Cobalt 60	38.0	2.6	<u>1.07</u>	0.050	GAM	36.5	1.5	104	84-116	80-120	
Cesium 137	51.7	2.3	<u>1.00</u>	0.100	GAM	45.7	1.8	113	85-115	80-120	

ARRA 212-N, -P, and-R Buildings-Paint

QC-LCS #70165

LAB CONTROL SAMPLES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-005

B211C1

DUPLICATE

SDG <u>7849</u> Contact <u>N. Joseph Verville</u> DUPLICATE Lab sample id <u>R906120-05</u> Dept sample id <u>7849-005</u> % solids <u>100.0</u>	Client/Case no <u>CHPRC</u> <u>SDG H4015</u> Contract <u>No. 33677</u> ORIGINAL Lab sample id <u>R906120-01</u> Dept sample id <u>7849-001</u> Received <u>06/26/09</u> % solids <u>100.0</u>
Client sample id <u>B211C1</u> Location/Matrix <u>212 N/P/R PAINT;I-001</u> <u>SOLID</u> Collected/Weight <u>06/22/09 13:50</u> <u>6.7 g</u> Custody/SAF No <u>R09-013-014</u> <u>R09-013</u>	

ANALYTE	DUPLICATE	2σ ERR	MDA	RDL	QUALI-	ORIGINAL	2σ ERR	MDA	QUALI-	RPD	2σ	PROT	
	pCi/g	(COUNT)	pCi/g	pCi/g	FIERS		TEST	pCi/g	(COUNT)		pCi/g		FIERS
Gross Alpha	6.98	3.3	3.07	10.0		93A	8.62	3.5	3.19		21	68	35
Gross Beta	18.7	5.8	8.30	15.0		93B	22.2	4.3	5.20		17	46	
Tritium	-1.09	3.7	7.92	400	U	H	1.86	3.7	7.57	U	-		
Nickel 63	0.345	1.8	3.12	30.0	U	NI_L	0.540	1.9	3.13	U	-		
Total Strontium	3.86	0.36	0.235	1.00		SR	3.53	0.35	0.241		9	20	35
Technetium 99	0.019	0.18	0.488	15.0	U	TC	0.188	0.18	0.448	U	-		
Thorium 228	0.281	0.28	0.518	1.00	U	TH	-0.062	0.12	0.475	U	-		
Thorium 230	0.234	0.28	0.358	1.00	U	TH	0.373	0.37	0.475	U	-		
Thorium 232	0.094	0.094	0.358	1.00	U	TH	0.186	0.25	0.475	U	-		
Uranium 233/234	0.257	0.26	0.982	1.00	U	U	0.174	0.35	<u>1.33</u>	U	-		
Uranium 235	0	0.31	<u>1.19</u>	1.00	U	U	0	0.42	<u>1.61</u>	U	-		
Uranium 238	0.385	0.51	0.982	1.00	U	U	0	0.35	<u>1.33</u>	U	-		
Americium 241	1.26	0.70	0.879	1.00		TP	-0.161	0.32	<u>1.23</u>	U	200	109	
Curium 242	0	0.24	0.913	1.00	U	TP	-0.167	0.33	<u>1.28</u>	U	-		
Curium 243/244	0	0.23	0.880	1.00	U	TP	0	0.64	<u>1.78</u>	U	-		
Plutonium 238	0	0.44	<u>1.06</u>	1.00	U	PU	-0.121	0.24	0.923	U	-		
Plutonium 239/240	0	0.22	0.844	1.00	U	PU	0	0.24	0.922	U	-		
Beryllium 7	U		5.92		U	GAM	U		5.20	U	-		
Potassium 40	U		15.0		U	GAM	U		14.8	U	-		
Cobalt 60	U		<u>0.976</u>	0.050	U	GAM	U		<u>0.759</u>	U	-		
Ruthenium 106	U		7.27		U	GAM	U		7.70	U	-		
Antimony 125	U		1.94		U	GAM	U		1.82	U	-		
Cesium 134	U		1.19		U	GAM	U		1.16	U	-		
Cesium 137	U		<u>0.931</u>	0.100	U	GAM	U		<u>1.01</u>	U	-		
Europium 152	U		<u>1.73</u>	0.100	U	GAM	U		<u>2.06</u>	U	-		
Europium 154	U		<u>2.48</u>	0.100	U	GAM	U		<u>3.15</u>	U	-		
Europium 155	U		<u>1.33</u>	0.100	U	GAM	U		<u>1.32</u>	U	-		
Niobium 94	U		0.784		U	GAM	U		0.839	U	-		

ARRA 212-N, -P, and-R Buildings-Paint

DUPLICATES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-005

B211C1

DUPLICATE, cont.

SDG <u>7849</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4015</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
DUPLICATE	ORIGINAL	
Lab sample id <u>R906120-05</u>	Lab sample id <u>R906120-01</u>	Client sample id <u>B211C1</u>
Dept sample id <u>7849-005</u>	Dept sample id <u>7849-001</u>	Location/Matrix <u>212 N/P/R PAINT;I-001</u> <u>SOLID</u>
	Received <u>06/26/09</u>	Collected/Weight <u>06/22/09 13:50</u> <u>6.7 g</u>
% solids <u>100.0</u>	% solids <u>100.0</u>	Custody/SAF No <u>R09-013-014</u> <u>R09-013</u>

ANALYTE	DUPLICATE pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST	ORIGINAL pCi/g	2σ ERR (COUNT)	MDA pCi/g	QUALI- FIERS	RPD %	2σ TOT	PROT LIMIT
Radium 226	U		1.90		U	GAM	U		2.24	U	-		
Radium 228	U		4.07		U	GAM	U		4.32	U	-		

ARRA 212-N,-P, and-R Buildings-Paint

QC-DUP#1 70167

DUPLICATES

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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-001

B211C1

DATA SHEET

SDG <u>7849</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4015</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>R906120-01</u>	Client sample id <u>B211C1</u>	
Dept sample id <u>7849-001</u>	Location/Matrix <u>212 N/P/R PAINT;I-001</u>	<u>SOLID</u>
Received <u>06/26/09</u>	Collected/Weight <u>06/22/09 13:50</u>	<u>6.7 g</u>
% solids <u>100.0</u>	Custody/SAF No <u>R09-013-014</u>	<u>R09-013</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Gross Alpha	12587-46-1	8.62	3.5	3.19	10.0		93A
Gross Beta	12587-47-2	22.2	4.3	5.20	15.0		93B
Tritium	10028-17-8	1.86	3.7	7.57	400	U	H
Nickel 63	13981-37-8	0.540	1.9	3.13	30.0	U	NI_L
Total Strontium	SR-RAD	3.53	0.35	0.241	1.00		SR
Technetium 99	14133-76-7	0.188	0.18	0.448	15.0	U	TC
Thorium 228	14274-82-9	-0.062	0.12	0.475	1.00	U	TH
Thorium 230	14269-63-7	0.373	0.37	0.475	1.00	U	TH
Thorium 232	TH-232	0.186	0.25	0.475	1.00	U	TH
Uranium 233/234	U-233/234	0.174	0.35	<u>1.33</u>	1.00	U	U
Uranium 235	15117-96-1	0	0.42	<u>1.61</u>	1.00	U	U
Uranium 238	U-238	0	0.35	<u>1.33</u>	1.00	U	U
Americium 241	14596-10-2	-0.161	0.32	<u>1.23</u>	1.00	U	TP
Curium 242	15510-73-3	-0.167	0.33	<u>1.28</u>	1.00	U	TP
Curium 243/244	CM-243/244	0	0.64	<u>1.78</u>	1.00	U	TP
Plutonium 238	13981-16-3	-0.121	0.24	0.923	1.00	U	PU
Plutonium 239/240	PU-239/240	0	0.24	0.922	1.00	U	PU
Beryllium 7	13966-02-4	U		5.20		U	GAM
Potassium 40	13966-00-2	U		14.8		U	GAM
Cobalt 60	10198-40-0	U		<u>0.759</u>	0.050	U	GAM
Ruthenium 106	13967-48-1	U		7.70		U	GAM
Antimony 125	14234-35-6	U		1.82		U	GAM
Cesium 134	13967-70-9	U		1.16		U	GAM
Cesium 137	10045-97-3	U		<u>1.01</u>	0.100	U	GAM
Europium 152	14683-23-9	U		<u>2.06</u>	0.100	U	GAM
Europium 154	15585-10-1	U		<u>3.15</u>	0.100	U	GAM
Europium 155	14391-16-3	U		<u>1.32</u>	0.100	U	GAM
Niobium 94	14681-63-1	U		0.839		U	GAM

ARRA 212-N, -P, and-R Buildings-Paint

DATA SHEETS

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EBERLINE SERVICES / RICHMOND
SAMPLE DELIVERY GROUP H4015

7849-001

B211C1

DATA SHEET, cont

SDG <u>7849</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4015</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R906120-01</u>	Client sample id <u>B211C1</u>	
Dept sample id <u>7849-001</u>	Location/Matrix <u>212 N/P/R PAINT;I-001</u>	<u>SOLID</u>
Received <u>06/26/09</u>	Collected/Weight <u>06/22/09 13:50</u>	<u>6.7 g</u>
% solids <u>100.0</u>	Custody/SAF No <u>R09-013-014</u>	<u>R09-013</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Radium 226	13982-63-3	U		2.24		U	GAM
Radium 228	15262-20-1	U		4.32		U	GAM

ARRA 212-N, -P, and-R Buildings-Paint

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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-002

B211C2

DATA SHEET

SDG <u>7849</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4015</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>R906120-02</u>	Client sample id <u>B211C2</u>	
Dept sample id <u>7849-002</u>	Location/Matrix <u>212 N/P/R PAINT;I-001D</u>	<u>SOLID</u>
Received <u>06/26/09</u>	Collected/Weight <u>06/22/09 13:50</u>	<u>6.5 g</u>
% solids <u>100.0</u>	Custody/SAF No <u>R09-013-014</u>	<u>R09-013</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Gross Alpha	12587-46-1	7.53	3.2	2.94	10.0		93A
Gross Beta	12587-47-2	10.8	4.4	6.46	15.0		93B
Tritium	10028-17-8	0	3.6	7.69	400	U	H
Nickel 63	13981-37-8	-0.461	1.8	3.12	30.0	U	NI_L
Total Strontium	SR-RAD	0.064	0.12	0.228	1.00	U	SR
Technetium 99	14133-76-7	0.037	0.22	0.457	15.0	U	TC
Thorium 228	14274-82-9	-0.058	0.12	0.446	1.00	U	TH
Thorium 230	14269-63-7	-0.058	0.23	0.558	1.00	U	TH
Thorium 232	TH-232	5.82	<u>12</u>	0.446	1.00		TH
Uranium 233/234	U-233/234	0.292	0.59	<u>1.12</u>	1.00	U	U
Uranium 235	15117-96-1	0	0.35	<u>1.35</u>	1.00	U	U
Uranium 238	U-238	0	0.29	<u>1.12</u>	1.00	U	U
Americium 241	14596-10-2	0	0.79	<u>1.46</u>	1.00	U	TP
Curium 242	15510-73-3	0.138	0.28	<u>1.05</u>	1.00	U	TP
Curium 243/244	CM-243/244	0.795	1.1	<u>1.63</u>	1.00	U	TP
Plutonium 238	13981-16-3	0.574	0.69	0.878	1.00	U	PU
Plutonium 239/240	PU-239/240	0.344	0.46	0.878	1.00	U	PU
Beryllium 7	13966-02-4	U		6.25		U	GAM
Potassium 40	13966-00-2	U		16.3		U	GAM
Cobalt 60	10198-40-0	U		<u>0.928</u>	0.050	U	GAM
Ruthenium 106	13967-48-1	U		6.30		U	GAM
Antimony 125	14234-35-6	U		1.94		U	GAM
Cesium 134	13967-70-9	U		1.06		U	GAM
Cesium 137	10045-97-3	U		<u>0.814</u>	0.100	U	GAM
Europium 152	14683-23-9	U		<u>2.28</u>	0.100	U	GAM
Europium 154	15585-10-1	U		<u>2.13</u>	0.100	U	GAM
Europium 155	14391-16-3	U		<u>1.26</u>	0.100	U	GAM
Niobium 94	14681-63-1	U		0.687		U	GAM

ARRA 212-N, -P, and-R Buildings-Paint

DATA SHEETS

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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

7849-002

B211C2

DATA SHEET, cont

SDG <u>7849</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4015</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R906120-02</u>	Client sample id <u>B211C2</u>	
Dept sample id <u>7849-002</u>	Location/Matrix <u>212 N/P/R PAINT;I-001D</u>	<u>SOLID</u>
Received <u>06/26/09</u>	Collected/Weight <u>06/22/09 13:50</u>	<u>6.5 g</u>
% solids <u>100.0</u>	Custody/SAF No <u>R09-013-014</u>	<u>R09-013</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Radium 226	13982-63-3	U		1.74		U	GAM
Radium 228	15262-20-1	U		3.84		U	GAM

ARRA 212-N, -P, and-R Buildings-Paint

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test PU Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

LAB METHOD SUMMARY

PLUTONIUM, ISOTOPIC IN SOLIDS
 ALPHA SPECTROSCOPY

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

RESULTS

LAB	RAW	SUF-		Plutonium	Plutonium
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID	238	239/240
Preparation batch 7197-190					
R906120-01		7849-001	B211C1	U	U
R906120-02		7849-002	B211C2	U	U
R906120-03		7849-003	Lab Control Sample	ok	ok
R906120-04		7849-004	Method Blank	U	U
R906120-05		7849-005	Duplicate (R906120-01)	- U	- U
Nominal values and limits from method					
			RDLs (pCi/g)	1.00	1.00
ARRA 212-N, -P, and-R Buildings-Paint					

METHOD PERFORMANCE

LAB	RAW	SUF-		MAX MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-		
SAMPLE ID	TEST FIX	CLIENT	SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190				2σ prep error	8.0 %	Reference Lab Notebook No. 7192 pg.190										
R906120-01		B211C1		0.923	0.150			80		101			9	07/01/09	07/01	SS-031
R906120-02		B211C2		0.878	0.150			79		101			9	07/01/09	07/01	SS-032
R906120-03		Lab Control Sample		0.848	0.150			87		101				07/01/09	07/01	SS-034
R906120-04		Method Blank		<u>1.34</u>	0.150			79		101				07/01/09	07/01	SS-035
R906120-05		Duplicate (R906120-01)		<u>1.06</u>	0.150			72		101			9	07/01/09	07/01	SS-036
Nominal values and limits from method				1.00	0.150			30-110		100	100		180			

PROCEDURES REFERENCE PUIISO_PLATE_AEA
 SPP-071 Soil Dissolution, > 1.0g Aliquot, rev 1
 CP-941 Plutonium in Water and Dissolved Samples by
 Extraction Chromatography, rev 8
 CP-008 Heavy Element Electroplating, rev 13

AVERAGES ± 2 SD MDA 1.01 ± 0.403
 FOR 5 SAMPLES YIELD 79 ± 11

Lab id EBRLNE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-LMS
 Version 3.06
 Report date 07/02/09

EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test TP Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

LAB METHOD SUMMARY

AMERICIUM 241/CURIUM IN SOLIDS

ALPHA SPECTROSCOPY

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

RESULTS

LAB	RAW	SUF-		Americium	Curium
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID	241	243/244
Preparation batch 7197-190					
R906120-01		7849-001	B211C1	U	U
R906120-02		7849-002	B211C2	U	U
R906120-03		7849-003	Lab Control Sample	ok	ok
R906120-04		7849-004	Method Blank	U	U
R906120-05		7849-005	Duplicate (R906120-01)	ok	- U
Nominal values and limits from method					
ARRA 212-N,-P, and-R Buildings-Paint			RDLs (pCi/g)	1.00	1.00

METHOD PERFORMANCE

LAB	RAW	SUF-	MAX MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-
SAMPLE ID	TEST FIX	CLIENT SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD PREPARED	YZED DETECTOR
Preparation batch 7197-190			2σ prep error 8.0 %		Reference Lab Notebook No. 7192 pg.190								
R906120-01		B211C1	<u>1.78</u>	0.150			52		101			9 07/01/09 07/01	SS-033
R906120-02		B211C2	<u>1.63</u>	0.150			72		101			9 07/01/09 07/01	SS-035
R906120-03		Lab Control Sample	<u>1.56</u>	0.150			78		101			07/01/09 07/01	SS-036
R906120-04		Method Blank	0.861	0.150			82		102			07/01/09 07/01	SS-054
R906120-05		Duplicate (R906120-01)	0.913	0.150			70		101			9 07/01/09 07/01	SS-059
Nominal values and limits from method			1.00	0.150			30-110		100	100		180	

PROCEDURES REFERENCE AMCMISO_IE_PLATE_AEA
 SPP-073 Soil Leaching 10-200 g Aliquot, rev 0
 CP-963 Americium and Curium in Water and Dissolved Samples by Extraction Chromatography, rev 6
 CP-008 Heavy Element Electroplating, rev 13

AVERAGES ± 2 SD MDA 1.35 ± 0.859
 FOR 5 SAMPLES YIELD 71 ± 23

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test U Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

LAB METHOD SUMMARY

URANIUM, ISOTOPIC IN SOLIDS
 ALPHA SPECTROSCOPY

RESULTS

LAB	RAW	SUF-		1: Uranium	2: Uranium	3: Uranium	RESULT RATIOS (%)				
SAMPLE ID	TEST	FIX	PLANCHET	CLIENT SAMPLE ID	233/234	235	238	1+3	2σ	2+3	2σ
Preparation batch 7197-190											
R906120-01			7849-001	B211C1	U	U	U				
R906120-02			7849-002	B211C2	U	U	U				
R906120-03			7849-003	Lab Control Sample	ok	ok	ok				
R906120-04			7849-004	Method Blank	U	U	U				
R906120-05			7849-005	Duplicate (R906120-01)	- U	- U	- U				
Nominal values and limits from method				RDLs (pCi/g)	1.00	1.00	1.00	100		4	
ARRA 212-N, -P, and-R Buildings-Paint								Averages			

METHOD PERFORMANCE

LAB	RAW	SUF-		MAX MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-		
SAMPLE ID	TEST	FIX	CLIENT SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190				2σ prep error 8.0 %		Reference Lab Notebook No. 7192 pg.190										
R906120-01			B211C1	<u>1.61</u>	0.150			55		101			9	06/30/09	07/01	SS-031
R906120-02			B211C2	<u>1.35</u>	0.150			62		101			9	06/30/09	07/01	SS-032
R906120-03			Lab Control Sample	<u>2.51</u>	0.150			93		101				06/30/09	07/01	SS-033
R906120-04			Method Blank	<u>1.27</u>	0.150			70		101				06/30/09	07/01	SS-034
R906120-05			Duplicate (R906120-01)	<u>1.19</u>	0.150			74		101			9	06/30/09	07/01	SS-035
Nominal values and limits from method				1.00	0.150			30-110		100	100		180			

PROCEDURES REFERENCE UIISO_PLATE_AEA
 SPP-071 Soil Dissolution, > 1.0g Aliquot, rev 1
 CP-921 Uranium in Water and Dissolved Samples by
 Extraction Chromatography, rev 1
 CP-008 Heavy Element Electroplating, rev 13

AVERAGES ± 2 SD MDA 1.59 ± 1.08
 FOR 5 SAMPLES YIELD 71 ± 29

METHOD SUMMARIES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test SR Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

LAB METHOD SUMMARY

TOTAL STRONTIUM IN SOLIDS
 BETA COUNTING

RESULTS

LAB	RAW	SUF-		Total	
SAMPLE ID	TEST	FIX	PLANCHET	CLIENT SAMPLE ID	Strontium
Preparation batch 7197-190					
R906120-01			7849-001	B211C1	3.53
R906120-02			7849-002	B211C2	U
R906120-03			7849-003	Lab Control Sample	ok
R906120-04			7849-004	Method Blank	U
R906120-05			7849-005	Duplicate (R906120-01)	ok

Nominal values and limits from method RDLs (pCi/g) 1.00
 ARRA 212-N, -P, and-R Buildings-Paint

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-				
SAMPLE ID	TEST	FIX	CLIENT	SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190 2σ prep error 10.4 % Reference Lab Notebook No. 7192 pg.190																	
R906120-01			B211C1		0.241	1.00			101	100		8	06/30/09	06/30	GRB-220		
R906120-02			B211C2		0.228	1.00			<u>112</u>	100		8	06/30/09	06/30	GRB-221		
R906120-03			Lab Control Sample		0.265	1.00			91	100			06/30/09	06/30	GRB-222		
R906120-04			Method Blank		0.277	1.00			89	100			06/30/09	06/30	GRB-223		
R906120-05			Duplicate (R906120-01)		0.235	1.00			102	100		8	06/30/09	06/30	GRB-224		

Nominal values and limits from method 1.00 1.00 40-110 100 180

PROCEDURES REFERENCE SRTOT_SEP_PRECIP_GPC
 SPP-071 Soil Dissolution, > 1.0g Aliquot, rev 1
 CP-383 Strontium in Dissolved Solid of < 5.0g Aliquot, rev 1

AVERAGES ± 2 SD MDA 0.249 ± 0.042
 FOR 5 SAMPLES YIELD 99 ± 19

METHOD SUMMARIES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test TC Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

LAB METHOD SUMMARY

TECHNETIUM 99 IN SOLIDS
 BETA COUNTING

RESULTS

LAB	RAW	SUF-			Technetium
SAMPLE ID	TEST FIX	PLANCHET	CLIENT	SAMPLE ID	99
Preparation batch 7197-190					
R906120-01		7849-001	B211C1		U
R906120-02		7849-002	B211C2		U
R906120-03		7849-003	Lab Control Sample		ok
R906120-04		7849-004	Method Blank		U
R906120-05		7849-005	Duplicate (R906120-01)	-	U

Nominal values and limits from method RDLs (pCi/g) 15.0
 ARRA 212-N,-P, and-R Buildings-Paint

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-			
SAMPLE ID	TEST FIX	CLIENT	SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190			2σ prep error 13.2 %		Reference Lab Notebook No. 7192 pg.190											
R906120-01		B211C1		0.448	0.970			80		100			9	06/27/09	07/01	GRB-203
R906120-02		B211C2		0.457	0.920			82		100			8	06/27/09	06/30	GRB-228
R906120-03		Lab Control Sample		0.540	0.900			81		100				06/27/09	06/30	GRB-229
R906120-04		Method Blank		0.559	0.900			74		100				06/27/09	06/30	GRB-230
R906120-05		Duplicate (R906120-01)		0.488	0.930			82		100			9	06/27/09	07/01	GRB-227

Nominal values and limits from method 15.0 0.900 30-110 50 180

PROCEDURES	REFERENCE	TC99_TR_SEP_GPC
SPP-062	Sample Aliquoting, rev 1	
CP-021	Preparation of Tc-99m Tracer, rev 4	
CP-431	Technetium-99 Purification of Soil or Resin by Extraction Chromatography, rev 2	
CP-008	Heavy Element Electroplating, rev 13	

AVERAGES ± 2 SD	MDA	<u>0.498 ± 0.099</u>
FOR 5 SAMPLES	YIELD	<u>80 ± 7</u>

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test 93A Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

LAB METHOD SUMMARY

GROSS ALPHA IN SOLIDS
 GAS PROPORTIONAL COUNTING

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

RESULTS

LAB	RAW	SUF-			Gross Alpha
SAMPLE ID	TEST FIX	PLANCHET	CLIENT	SAMPLE ID	
Preparation batch 7197-190					
R906120-01	93	7849-001	B211C1		8.62
R906120-02	93	7849-002	B211C2		7.53
R906120-03	93	7849-003	Lab Control Sample		ok
R906120-04	93	7849-004	Method Blank		U
R906120-05	93	7849-005	Duplicate (R906120-01)		ok
Nominal values and limits from method			RDLs (pCi/g)		10.0
ARRA 212-N,-P, and-R Buildings-Paint					

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	RESID	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-			
SAMPLE ID	TEST FIX	CLIENT	SAMPLE ID	pCi/g	g	FAC	TION	mg	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190			2σ prep error 20.6 %		Reference Lab Notebook No. 7192 pg.190											
R906120-01	93	B211C1		3.19	0.100			41	100				8	06/30/09	06/30	GRB-101
R906120-02	93	B211C2		2.94	0.100			34	100				8	06/30/09	06/30	GRB-103
R906120-03	93	Lab Control Sample		3.95	0.100			62	100					06/30/09	06/30	GRB-104
R906120-04	93	Method Blank		4.15	0.100			63	100					06/30/09	06/30	GRB-105
R906120-05	93	Duplicate (R906120-01)		3.07	0.100			40	100				8	06/30/09	06/30	GRB-107
Nominal values and limits from method				10.0	0.100			5-250	100							180

PROCEDURES REFERENCE 900.0_ALPHABETA_GPC
 SPP-071 Soil Dissolution, > 1.0g Aliquot, rev 1
 SPP-125 Gross Alpha and Gross Beta in Dissolved Solids, rev 0

AVERAGES ± 2 SD MDA 3.46 ± 1.10
 FOR 5 SAMPLES RESIDUE 48 ± 27

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

LAB METHOD SUMMARY

GROSS BETA IN SOLIDS
GAS PROPORTIONAL COUNTING

Test 93B Matrix SOLID
SDG 7849
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Contract SDG H4015

RESULTS

LAB	RAW	SUF-			
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID		Gross Beta
Preparation batch 7197-190					
R906120-01	93	7849-001	B211C1		22.2
R906120-02	93	7849-002	B211C2		10.8
R906120-03	93	7849-003	Lab Control Sample		ok
R906120-04	93	7849-004	Method Blank		U
R906120-05	93	7849-005	Duplicate (R906120-01)		ok

Nominal values and limits from method RDLs (pCi/g) 15.0
ARRA 212-N,-P, and-R Buildings-Paint

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	RESID	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-		
SAMPLE ID	TEST FIX	CLIENT SAMPLE ID	pCi/g	g	FAC	TION	mg	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190			2σ prep error 20.6 %			Reference Lab Notebook No. 7192 pg.190									
R906120-01	93	B211C1	5.20	0.100			41		100			8	06/30/09	06/30	GRB-101
R906120-02	93	B211C2	6.46	0.100			34		100			8	06/30/09	06/30	GRB-103
R906120-03	93	Lab Control Sample	4.92	0.100			62		100				06/30/09	06/30	GRB-104
R906120-04	93	Method Blank	5.76	0.100			63		100				06/30/09	06/30	GRB-105
R906120-05	93	Duplicate (R906120-01)	8.30	0.100			40		100			8	06/30/09	06/30	GRB-107
Nominal values and limits from method			15.0	0.100			5-250		100						180

PROCEDURES REFERENCE 900.0_ALPHABETA_GPC
SPP-071 Soil Dissolution, > 1.0g Aliquot, rev 1
SPP-125 Gross Alpha and Gross Beta in Dissolved Solids, rev 0

AVERAGES ± 2 SD MDA 6.13 ± 2.70
FOR 5 SAMPLES RESIDUE 48 ± 27

METHOD SUMMARIES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test GAM Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

LAB METHOD SUMMARY

GAMMA SCAN

GAMMA SPECTROSCOPY

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

RESULTS

LAB	RAW	SUF-				
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID	Cobalt 60	Cesium 137	
Preparation batch 7197-190						
R906120-01		7849-001	B211C1	U	U	
R906120-02		7849-002	B211C2	U	U	
R906120-03		7849-003	Lab Control Sample	ok	ok	
R906120-04		7849-004	Method Blank	U	U	
R906120-05		7849-005	Duplicate (R906120-01)	- U	- U	
Nominal values and limits from method						
			RDLs (pCi/g)	0.050	0.100	
ARRA 212-N,-P, and-R Buildings-Paint						

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-		
SAMPLE ID	TEST FIX	CLIENT SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190 2σ prep error 7.0 % Reference Lab Notebook No. 7192 pg.190															
R906120-01		B211C1	<u>239</u>	6.71					103			7	06/29/09	06/29	SP,01,00
R906120-02		B211C2	<u>193</u>	6.55					100			7	06/29/09	06/29	SP,07,00
R906120-03		Lab Control Sample	<u>1.07</u>	6.00					101				06/29/09	06/29	SP,02,00
R906120-04		Method Blank	<u>248</u>	6.00					101				06/29/09	06/29	SP,02,00
R906120-05		Duplicate (R906120-01)	<u>271</u>	6.71					104			7	06/29/09	06/29	SP,01,00
Nominal values and limits from method															
			0.050	6.00					100						180

PROCEDURES REFERENCE GAMMA_GS
 SPP-100 Preparation of Sample for Gamma Spectroscopy,
 rev 0

AVERAGES ± 2 SD MDA 190 ± 219
 FOR 5 SAMPLES YIELD _____ ± _____

METHOD SUMMARIES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Test H Matrix SOLID
 SDG 7849
 Contact N. Joseph Verville

LAB METHOD SUMMARY

TRITIUM IN SOLIDS

LIQUID SCINTILLATION COUNTING

Client CHPRC
 Contract No. 33677
 Contract SDG H4015

RESULTS

LAB	RAW	SUF-			
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID		Tritium
Preparation batch 7197-190					
R906120-01		7849-001	B211C1		U
R906120-02		7849-002	B211C2		U
R906120-03		7849-003	Lab Control Sample		<u>LOW</u>
R906120-04		7849-004	Method Blank		U
R906120-05		7849-005	Duplicate (R906120-01)	-	U

Nominal values and limits from method RDLs (pCi/g) 400
 ARRA 212-N,-P, and-R Buildings-Paint

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-		
SAMPLE ID	TEST FIX	CLIENT SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190			2σ prep error 10.0 %			Reference Lab Notebook No. 7192 pg.190									
R906120-01		B211C1	7.57	0.208			100		50			8	06/29/09	06/30	LSC-004
R906120-02		B211C2	7.69	0.204			100		50			8	06/29/09	06/30	LSC-004
R906120-03		Lab Control Sample	8.22	0.200			100		50				06/29/09	06/30	LSC-004
R906120-04		Method Blank	5.21	0.200			100		109				06/29/09	06/30	LSC-004
R906120-05		Duplicate (R906120-01)	7.92	0.204			100		50			8	06/29/09	06/30	LSC-004

Nominal values and limits from method 400 0.200 25 180

PROCEDURES REFERENCE TRITIUM_COX_LSC
 CP-251 Tritium/Carbon-14 Oxidation, rev 10

AVERAGES ± 2 SD MDA 7.32 ± 2.41
 FOR 5 SAMPLES YIELD 100 ± 0

METHOD SUMMARIES

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EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4015

Client CHPRC

Contract No. 33677

Contract SDG H4015

Test NI L Matrix SOLID

SDG 7849

Contact N. Joseph Verville

LAB METHOD SUMMARY

NICKEL 63 IN SOLIDS

LIQUID SCINTILLATION COUNTING

RESULTS

LAB	RAW	SUF-		
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID	Nickel 63
Preparation batch 7197-190				
R906120-01		7849-001	B211C1	U
R906120-02		7849-002	B211C2	U
R906120-03		7849-003	Lab Control Sample	ok
R906120-04		7849-004	Method Blank	U
R906120-05		7849-005	Duplicate (R906120-01)	- U

Nominal values and limits from method RDLs (pCi/g) 30.0
ARRA 212-N,-P, and-R Buildings-Paint

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-		
SAMPLE ID	TEST FIX	CLIENT SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7197-190			2σ prep error 11.2 %		Reference Lab Notebook No. 7192 pg.190										
R906120-01		B211C1	3.13	0.500			92		50			9	07/01/09	07/01	LSC-007
R906120-02		B211C2	3.12	0.500			92		50			9	07/01/09	07/01	LSC-007
R906120-03		Lab Control Sample	2.94	0.500			98		50				07/01/09	07/01	LSC-007
R906120-04		Method Blank	2.93	0.500			98		50				07/01/09	07/01	LSC-007
R906120-05		Duplicate (R906120-01)	3.12	0.500			92		50			9	07/01/09	07/01	LSC-007

Nominal values and limits from method 30.0 0.500 40-110 25 180

PROCEDURES	REFERENCE	NI63_LSC
	SPP-071	Soil Dissolution, > 1.0g Aliquot, rev 1
	CP-280	Nickel-63 Purification, rev 5

AVERAGES ± 2 SD	MDA	<u>3.05</u> ± <u>0.207</u>
FOR 5 SAMPLES	YIELD	<u>94</u> ± <u>7</u>

METHOD SUMMARIES

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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4015

SAMPLE SUMMARY

The Sample and QC Summary Reports show all samples, including QC samples, reported in one Sample Delivery Group (SDG).

The Sample Summary Report fully identifies client samples and gives the corresponding lab sample identification. The QC Summary Report shows at the sample level how the lab organized the samples into batches and generated QC samples. The Preparation Batch and Method Summary Reports show this at the analysis level.

The following notes apply to these reports:

- * LAB SAMPLE ID is the lab's primary identification for a sample.
- * DEPARTMENT SAMPLE ID is an alternate lab id, for example one assigned by a radiochemistry department in a lab.
- * CLIENT SAMPLE ID is the client's primary identification for a sample. It includes any sample preparation done by the client that is necessary to identify the sample.
- * QC BATCH is a lab assigned code that groups samples to be processed and QCed together. These samples should have similar matrices.

QC BATCH is not necessarily the same as SDG, which reflects samples received and reported together.

- * All Lab Control Samples, Method Blanks, Duplicates and Matrix Spikes are shown that QC any of the samples. Due to possible reanalyses, not all results for all these QC samples may be relevant to the SDG. The Lab Control Sample, Method Blank, Duplicate, Matrix Spike and Method Summary Reports detail these relationships.

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Version Ver 1.0
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Version 3.06
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EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG_H4015

PREPARATION BATCH SUMMARY

The Preparation Batch Summary Report shows all preparation batches in one Sample Delivery Group (SDG) with information necessary to check the completeness and consistency of the SDG.

The following notes apply to this report:

- * The preparation batches are shown in the same order as the Method Summary Reports are printed.
- * Only analyses of planchets relevant to the SDG are included.
- * Each preparation batch should have at least one Method Blank and LCS in it to validate client sample results.
- * The QUALIFIERS shown are all qualifiers other than U, J, B, L and H that occur on any analysis in the preparation batch. The Method Summary Report has these qualifiers on a per sample basis.

These qualifiers should be reviewed as follows:

- X Some data has been manually entered or modified. Transcription errors are possible.
- P One or more results are 'preliminary'. The data is not ready for final reporting.
- 2 There were two or more results for one analyte on one planchet imported at one time. The results in DVD may not be the same as on the raw data sheets.

Other lab defined qualifiers may occur. In general, these should be addressed in the SDG narrative.

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SUMMARY DATA SECTION

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Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 07/02/09

EBERLINE SERVICES / RICHMOND

SAMPLE DELIVERY GROUP H4015

SDG 7849
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4015

WORK SUMMARY

The Work Summary Report shows all samples, including QC samples, and all relevant analyses in one Sample Delivery Group (SDG). This report is often useful as supporting documentation for an invoice.

The following notes apply to this report:

- * TEST is a code for the method used to measure associated analytes. Results and related information for each analyte are on the Data Sheet Report. In special cases, a test code used in the summary data section is not the same as in associated raw data. In this case, both codes are shown on the Work Summary.
- * SUFFIX is the lab's code to distinguish multiple analyses (recounts, reworks, reanalyses) of a fraction of the sample. The suffix indicates which result is being reported. An empty suffix normally identifies the first attempt to analyze the sample.
- * The LAB SAMPLE ID, TEST and SUFFIX uniquely identify all supporting data for a result. The Method Summary Report for each TEST has method performance data, such as yield, for each lab sample id and suffix and procedures used in the method.
- * PLANCHET is an alternate lab identifier for work done for one test. It, combined with the TEST and SUFFIX, may be the best link to raw data.
- * For QC samples, only analyses that directly QC some regular sample are shown. The Lab Control Sample, Method Blank, Duplicate, Matrix Spike and Method Summary Reports detail these relationships.
- * The SAS (Special Analytical Services) Number is a client or lab assigned code that reflects special processing for samples, such as rapid turn around. Counts of tests done are lists by SAS number since it is likely to affect prices.

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SAMPLE DELIVERY GROUP H4015

SDG 7849
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
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DATA SHEET

The Data Sheet Report shows all results and primary supporting information for one client sample or Method Blank. This report corresponds to both the CLP Inorganics and Organics Data Sheet.

The following notes apply to this report:

- * TEST is a code for the method used to measure an analyte. If the TEST is empty, no data is available; the analyte was not analyzed for.
- * The LAB SAMPLE ID and TEST uniquely identify work within the Summary Data Section of a Data Package. The Work Summary and Method Summary Reports further identify raw data that underlies this work.

The Method Summary Report for each TEST has method performance data, such as yield, for each Lab Sample ID and a list of procedures used in the method.

- * ERRORS can be labeled TOTAL or COUNT. TOTAL implies a preparation (non-counting method) error has been added, as square root of sum of squares, to the counting error denoted by COUNT. The preparation errors, which may vary by preparation batch, are shown on the Method Summary Report.
- * A RESULT can be 'N.R.' (Not Reported). This means the lab did this work but chooses not to report it now, possibly because it was reported at another time.
- * When reporting a Method Blank, a RESULT can be 'N.A.' (Not Applicable). This means there is no reported client sample work in the same preparation batch as the Blank's result. This is likely to occur when the Method Blank is associated with reanalyses of selected work for a few samples in the SDG.

The following qualifiers are defined by the DVD system:

U The RESULT is less than the MDA (Minimum Detectable Activity).

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Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
Case no SDG_H4015

DATA SHEET

If the MDA is blank, the ERROR is used as the limit.

J The RESULT is less than the RDL (Required Detection Limit) and no U qualifier is assigned.

B A Method Blank associated with this sample had a result without a U flag and, after correcting for possibly different aliquots, that result is greater than or equal to the MDA for this sample.

Normally, B is not assigned if U is. When method blank subtraction is shown on this report, B flags are assigned based on the unsubtracted values while U's are assigned based on the subtracted ones. Both flags can be assigned in this case.

For each sample result, all Method Blank results in the same preparation batch are compared. The Method Summary Report documents this and other QC relationships.

L Some Lab Control Sample that QC's this sample had a low recovery. The lab can disable assignment of this qualifier.

H Similar to 'L' except the recovery was high.

P The RESULT is 'preliminary'.

X Some data necessary to compute the RESULT, ERROR or MDA was manually entered or modified.

2 There were two or more results available for this analyte. The reported result may not be the same as in the raw data.

Other qualifiers are lab defined. Definitions should be in the SDG narrative.

The following values are underlined to indicate possible problems:

* An MDA is underlined if it is bigger than its RDL.

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DATA SHEET

* An ERROR is underlined if the 1.645 sigma counting error is bigger than both the MDA and the RESULT, implying that the MDA may not be a good estimate of the 'real' minimum detectable activity.

* A negative RESULT is underlined if it is less than the negative of its 2 sigma counting ERROR.

* When reporting a Method Blank, a RESULT is underlined if greater than its MDA. If the MDA is blank, the 2 sigma counting error is used in the comparison.

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LAB CONTROL SAMPLE

The Lab Control Sample Report shows all results, recoveries and primary supporting information for one Lab Control Sample.

The following notes apply to this report:

- * All fields in common with the Data Sheet Report have similar usage. Refer to its Report Guide for details.
- * An amount ADDED is the lab's value for the actual amount spiked into this sample with its ERROR an estimate of the error of this amount.

An amount added is underlined if its ratio to the corresponding RDL is outside protocol specified limits.

- * REC (Recovery) is RESULT divided by ADDED expressed as a percent.
- * The first, computed limits for the recovery reflect:
 1. The error of RESULT, including that introduced by rounding the result prior to printing.

If the limits are labeled (TOTAL), they include preparation error in the result. If labeled (COUNT), they do not.
 2. The error of ADDED.
 3. A lab specified, per analyte bias. The bias changes the center of the computed limits.
- * The second limits are protocol defined upper and lower QC limits for the recovery.
- * The recovery is underlined if it is outside either of these ranges.

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DUPLICATE

The Duplicate Report shows all results, differences and primary supporting information for one Duplicate and associated Original sample.

The following notes apply to this report:

- * All fields in common with the Data Sheet Report have similar usage. This applies both to the Duplicate and Original sample data. Refer to the Data Sheet Report Guide for details.

If the Duplicate has data for a TEST and the lab did not do this test to the Original, the Original's RESULTS are underlined.

- * The RPD (Relative Percent Difference) is the absolute value of the difference of the RESULTS divided by their average expressed as a percent.

If both RESULTS are less than their MDAs, no RPD is computed and a '-' is printed.

For an analyte, if the lab did work for both samples but has data for only one, the MDA from the sample with data is used as the other's result in the RPD.

- * The first, computed limit is the sum, as square root of sum of squares, of the errors of the results divided by the average result as a percent, hence the relative error of the difference rather than the error of the relative difference. The errors include those introduced by rounding the RESULTS prior to printing.

If this limit is labeled TOT, it includes the preparation error in the RESULTS. If labeled CNT, it does not.

This value reported for this limit is at most 999.

- * The second limit for the RPD is the larger of:

1. A fixed percentage specified in the protocol.

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DUPLICATE

2. A protocol factor (typically 2) times the average MDA as a percent of the average result. This limit applies when the results are close to the MDAs.

- * The RPD is underlined if it is greater than either limit.
- * If specified by the lab, the second limit column is replaced by the Difference Error Ratio (DER), which is the absolute value of the difference of the results divided by the quadratic sum of their one sigma errors, the same errors as used in the first limit.

Except for differences due to rounding, the DER is the same as the RPD divided by the first RPD limit with the limit scaled to 1 sigma.

- * The DER is underlined if it is greater than the sigma factor, typically 2 or 3, shown in the header for the first RPD limit.

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MATRIX SPIKE

The Matrix Spike Report shows all results, recoveries and primary supporting information for one Matrix Spike and associated Original sample.

The following notes apply to this report:

- * All fields in common with the Data Sheet Report have similar usage. This applies both to the Spiked and Original sample data. Refer to the Data Sheet Report Guide for details.

If the Spike has data for a TEST and the lab did not do this test to the Original, the Original's RESULTS are underlined.

- * An amount ADDED is the lab's value for the actual amount spiked into the Spike sample with its ERROR an estimate of the error of this amount.

An amount is underlined if its ratio to the corresponding RDL is outside protocol specified limits.

- * REC (Recovery) is the Spike RESULT minus the Original RESULT divided by ADDED expressed as a percent.

- * The first, computed limits for the recovery reflect:

1. The errors of the two RESULTS, including those introduced by rounding them prior to printing.

If the limits are labeled (TOTAL), they include preparation error in the result. If labeled (COUNT), they do not.

2. The error of ADDED.

3. A lab specified, per analyte bias. The bias changes the center of the computed limits.

- * The second limits are protocol defined upper and lower QC limits

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MATRIX SPIKE

for the recovery.

These limits are left blank if the Original RESULT is more than a protocol defined factor (typically 4) times ADDED. This is a way of accounting for that when the spike is small compared to the amount in the original sample, the recovery is unreliable.

* The recovery is underlined (out of spec) if it is outside either of these ranges.

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METHOD SUMMARY

The Method Summary Report has two tables. One shows up to five results measured using one method. The other has performance data for the method. There is one report for each TEST, as used on the Data Sheet Report.

The following notes apply to this report:

- * Each table is subdivided into sections, one for each preparation batch. A preparation batch is a group of aliquots prepared at roughly the same time in one work area of the lab using the same method.

There should be Lab Control Sample and Method Blank results in each preparation batch since this close correspondence makes the QC meaningful. Depending on lab policy, Duplicates need not occur in each batch since they QC sample dependencies such as matrix effects.

- * The RAW TEST column shows the test code used in the raw data to identify a particular analysis if it is different than the test code in the header of the report. This occurs in special cases due to method specific details about how the lab labels work.

The Lab Sample or Planchet ID combined with the (Raw) Test Code and Suffix uniquely identify the raw data for each analysis.

- * If a result is less than both its MDA and RDL, it is replaced by just 'U' on this report. If it is greater than or equal to the RDL but less than the MDA, the result is shown with a 'U' flag.

The J and X flags are as on the data sheet.

- * Non-U results for Method Blanks are underlined to indicate possible contamination of other samples in the preparation batch. The Method Blank Report has supporting data.
- * Lab Control Sample and Matrix Spike results are shown as: ok, No data, LOW or HIGH, with the last two underlined. 'No data'

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METHOD SUMMARY

means no amount ADDED was specified. 'LOW' and 'HIGH' correspond to when the recovery is underlined on the Lab Control Sample or Matrix Spike Report. See these reports for supporting data.

* Duplicate sample results are shown as: ok, No data, or OUT, with the last two underlined. 'No data' means there was no original sample data found for this duplicate. 'OUT' corresponds to when the RPD is underlined on the Duplicate Report. See this report for supporting data.

* If the MDA column is labeled 'MAX MDA', there was more than one result measured by the reported method and the MDA shown is the largest MDA. If not all these results have the same RDL, the MAX MDA reflects only those results with RDL equal to the smallest one.

MDAs are underlined if greater than the printed RDL.

* Aliquots are underlined if less than the nominal value specified for the method.

* Preparation factors are underlined if greater than the nominal value specified for the method.

* Dilution factors are underlined if greater than the nominal value specified for the method.

* Residues are underlined if outside the range specified for the method. Residues are not printed if yields are.

* Yields, which may be gravimetric, radiometric or some type of recovery depending on the method, are underlined if outside the range specified for the method.

* Efficiencies are underlined if outside the range specified for the method. Efficiencies are detector and geometry dependent so this test is only approximate.

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METHOD SUMMARY

* Count times are underlined if less than the nominal value specified for the method.

* Resolutions (as FWHM; Full Width at Half Max) are underlined if greater than the method specified limit.

* Tracer drifts are underlined if their absolute values are greater than the method specified limit. Tracer drifts are not printed if percent moistures are.

* Days Held are underlined if greater than the holding time specified in the protocol.

* Analysis dates are underlined if before their planchet's preparation date or, if a limit is specified, too far after it.

For some methods, ratios as percentages and error estimates for them are computed for pairs of results. A ratio column header like '1+3' means the ratio of the first result column and the third result column.

Ratios are not computed for Lab Control Sample, Method Blank or Matrix Spike results since their matrices are not necessarily similar to client samples'.

The error estimate for a ratio of results from one planchet reflects only counting errors since other errors should be correlated. For a ratio involving different planchets, if QC limits are computed based on total errors, the error for the ratio allows for the preparation errors for the planchets.

The ratio is underlined (out of spec) if the absolute value of its difference from the nominal value is greater than its error estimate. If no nominal value is specified, this test is not done.

For Gross Alpha or Gross Beta results, there may be a column showing the sum of other Alpha or Beta emitters. This sum includes all relevant

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Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
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METHOD SUMMARY

results in the DVD database, whether reported or not. Results in the sum are weighted by a particles/decay value specified by the lab for each relevant analyte. Results less than their MDA are not included. No sums are computed for Lab Control, Method Blank or Matrix Spike samples since their various planchets may not be physically related.

If a ratio of total isotopic to Gross Alpha or Beta is shown, the error for the ratio reflects both the error in the Gross result and the sum, as square root of sum of squares, of the errors in the isotopic results.

For total elemental uranium or thorium results, there may be a column showing the total weight computed from associated isotopic results. Ignoring results less than their MDAs, this is a weighted sum of the isotopic results. The weights depend on the molecular weight and half-life of each isotope so as to convert activities (decays) to weight (atoms).

If a ratio of total computed to measured elemental uranium or thorium is shown, the error for the ratio reflects the errors in all the measurements.

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SUMMARY DATA SECTION

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Lab id EBRLNE
Protocol CHPRC
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Form DVD-RG
Version 3.06
Report date 07/02/09

COLLECTOR KB Hulse
SAMPLING LOCATION 212 N/P/R PAINT; I-001
ICE CHEST NO. GWS 094
SHIPPED TO Eberline Services
COMPANY CONTACT CLINTON, R
TELEPHONE NO. 373-1741
PROJECT COORDINATOR WIDRIG, DL
PROJECT DESIGNATION AARA 212-N, -P, and -R Buildings - Paint
SAF NO. R09-013
FIELD LOGBOOK NO.
OFFSITE PROPERTY NO. N/A
PRICE CODE 9B
AIR QUALITY
METHOD OF SHIPMENT GOVERNMENT VEHICLE
DATE 7 Days / 15 Days
DATE 7967 2533 3969

SPECIAL HANDLING AND/OR STORAGE
Possible Sample Hazards/ Remarks
 Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS	PRESERVATION
B211C1		OS	6/22/09	1350	1X120ml P 60ml	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	None

CHAIN OF POSSESSION

REMOVED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
KB Hulse	6/22/09 1600		SSU #1	6/22/09 1600
SSU #1	JUN 25 2009 0830		AR McIntyre	JUN 25 2009 0830
AR McIntyre	JUN 25 2009 1400		FED EX	JUN 25 2009 1900
FED EX			P.F. MATTHEW...	06/26/09 0920

SPECIAL INSTRUCTIONS
 (1) Nickel-63; Americium-241/Curium-244 {Am-241} Gamma Spectroscopy
 {Co-58, Co-60, Cs-137, Eu-152, Eu-154, Eu-155} Gross Alpha; Gross Beta;
 Isotopic Plutonium {Pu-238, Pu-239/240} Isotopic Thorium {Th-232}
 Technetium-99 {Tc-99} Isotopic Uranium {U-233/234, U-235, U-238}
 Strontium-89,90 -- Total Sr; TRITIUM - MIDLEVEL;
 Radiactive tie to: ORIGINAL B212L8

LABORATORY SECTION RECEIVED BY: DATE/TIME
FINAL SAMPLE DISPOSITION RECEIVED BY: DATE/TIME

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

PROJECT COORDINATOR
 WIDRIG, DL

TELEPHONE NO.
 373-1741

COMPANY CONTACT
 CLINTON, R

PROJECT DESIGNATION
 AARA 212-N, -P, and -R Buildings - Paint

SAF NO.
 R09-013

AIR QUALITY

METHOD OF SHIPMENT
 GOVERNMENT VEHICLE

ICE CHEST NO.
 CWS 093/

ACTUAL SAMPLE DEPTH

OFFSITE PROPERTY NO.
 N/A

FIELD LOGBOOK NO.

COA
 301789E510

BILL OF LADING/AIR BILL NO.
 N/A

7967 2533

3969

SHIPPED TO
 Eberline Services

POSSIBLE SAMPLE HAZARDS/ REMARKS
 Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

MATRIX*
 OL = OTHER LIQUID
 OS = OTHER SOLID
 S = SOIL
 W = WATER

LAB ID

MATRIX*
 OS

SAMPLE DATE
 6/23/09

SAMPLE TIME
 1350

SAMPLE NO.
 B211C2

NO./TYPE CONTAINER(S)
 1x 20mL P
 60

ANALYSIS
 SEE ITEM (1) IN SPECIAL INSTRUCTIONS

PRESERVATION
 None

SIGN / PRINT NAMES

RECEIVED BY/STORED IN
 SSU #1

DATE/TIME
 6/22/09 1600

RECEIVED BY/STORED IN
 AR McIntyre

RECEIVED BY/STORED IN
 FED EX

DATE/TIME
 JUN 25 2009 0830

RECEIVED BY/STORED IN
 P.F. VENTRUK

DATE/TIME
 JUN 25 2009 1400

RECEIVED BY/STORED IN
 P.F. VENTRUK

DATE/TIME
 JUN 25 2009 0920

RECEIVED BY/STORED IN
 P.F. VENTRUK

DATE/TIME
 JUN 25 2009 0920

LABORATORY SECTION

RECEIVED BY

DATE/TIME

DISPOSAL METHOD

FINAL SAMPLE DISPOSITION

DATE/TIME

DISPOSED BY

DATE/TIME

CHAIN OF POSSESSION

RECEIVED BY/REMOVED FROM
 K6 Hulse

DATE/TIME
 JUN 25 2009 0830

RECEIVED BY/REMOVED FROM
 AR McIntyre

DATE/TIME
 JUN 25 2009 1400

RECEIVED BY/REMOVED FROM
 P.F. VENTRUK

DATE/TIME
 JUN 25 2009 0920

RECEIVED BY/REMOVED FROM
 P.F. VENTRUK

SPECIAL INSTRUCTIONS

(1) Nickel-63; Americium-241/Curium-244 {Am-241} Gamma Spectroscopy {Co-58, Co-60, Cs-137, Eu-152, Eu-154, Eu-155} Gross Alpha; Gross Beta; Isotopic Plutonium {Pu-238, Pu-239/240} Isotopic Thorium {Th-232} Technetium-99 {Tc-99} Isotopic Uranium {U-233/234, U-235, U-238} Strontium-89,90 -- Total Sr; TRITIUM - MIDLEVEL;

ORIGINAL

DATE/TIME
 TUE TO: B21208

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

HK 6/26/09

Client: CAPRC City: RICHMOND State: WA
 Date/Time received: 06/26/09 0920 CoC No. 1209-013-014 015
 Container I.D. No. GWS-094 Requested TAT (Days) 7 P.D. Received Yes [] No []

INSPECTION

1. Custody seals on shipping container intact? Yes [] No [] N/A []
2. Custody seals on shipping container dated & signed? Yes [] No [] N/A []
3. Custody seals on sample containers intact? Yes [] No [] N/A []
4. Custody seals on sample containers dated & signed? Yes [] No [] N/A []
5. Packing material is: Wet [] Dry []
6. Number of samples in shipping container: 2 Sample Matrix: SOUP
7. Number of containers per sample: 1 (Or see CoC)
8. Samples are in correct container Yes [] No []
9. Paperwork agrees with samples? Yes [] No []
10. Samples have: Tape [] Hazard labels [] Rad labels [] Appropriate sample labels []
11. Samples are: In good condition [] Leaking [] Broken Container [] Missing []
12. Samples are: Preserved [] Not preserved [] pH Preservative
13. Describe any anomalies:
14. Was P.M. notified of any anomalies? Yes [] No [] Date
15. Inspected by M. Fry Date: 06/26/09 Time: 10:45

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	wipe
<u>All samples</u>	<u>260</u>						

Ion Chamber Ser. No. Calibration date
 Alpha Meter Ser. No. Calibration date
 Beta/Gamma Meter Ser. No. 100482 Calibration date 10-11-08