



EBERLINE SERVICES

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June 15, 2011

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 S1-06-030-7897, SDG H4599

Dear Mr. Neely:

Enclosed is a data report for two soil samples designated under SAF No. F11-064 received at Eberline Analytical on June 4, 2011. The samples were analyzed according to the accompanying chain-of-custody document.

Please call if you have any questions concerning this report.

Sincerely,

N. Joseph Verville
Client Services Manager

NJV/

Enclosure: Data Package



1.0 GENERAL

CH2M Hill Plateau Remediation Company (CHPRC) Sample Delivery Group H4599 was composed of two soil samples designated under SAF No. F11-064 with a Project Designation of: ARRA 200-W-147-PL-A Verification Sampling – Soil.

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 Tritium Analysis

No problems were encountered during the course of the analyses. The results for both the original and duplicate analyses were less than their respective MDA's; therefore no RPD or statistical control limit is calculated.

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
Client Services Manager

6/15/11

Date

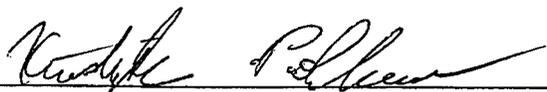
EBRLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4599

SDG 7897
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG_H4599

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Prepared by


Reviewed by

Lab id EBRLNE
Protocol F11-064
Version Ver 1.0
Form DVD-TOC
Version 3.06
Report date 06/14/11

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4599

SDG 7897
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG_H4599

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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Form DVD-RG
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SAMPLE DELIVERY GROUP H4599

SDG 7897
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
Case no SDG H4599

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 ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4599

LAB SAMPLE SUMMARY

SDG 7897
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4599

LAB	CLIENT SAMPLE ID	LOCATION	MATRIX	LEVEL	SAF NO	CHAIN OF CUSTODY	COLLECTED
S106030-01	B2BNP0	200-W-147-PL-A RV 1	SOIL		F11-064	F11-064-027	05/31/11 09:07
S106030-02	B2BNP1	200-W-147-PL-A RV 2	SOIL		F11-064	F11-064-031	05/31/11 09:07
S106030-03	Lab Control Sample		SOIL		F11-064		
S106030-04	Method Blank		SOIL		F11-064		
S106030-05	Duplicate (S106030-01)	200-W-147-PL-A RV 1	SOIL		F11-064		05/31/11 09:07

LAB SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRLNE
 Protocol F11-064
 Version Ver 1.0
 Form DVD-LS
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SAMPLE DELIVERY GROUP H4599

SDG 7897
 Contact N. Joseph Verville

QC SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4599

QC BATCH	CHAIN OF CUSTODY	CLIENT SAMPLE ID	MATRIX	% SOLIDS	SAMPLE AMOUNT	BASIS AMOUNT	DAYS SINCE RECEIVED	COLL	LAB SAMPLE ID	DEPARTMENT SAMPLE ID
7897	F11-064-027	B2BNP0	SOIL	100.0	0.215 g		06/04/11	4	S106030-01	7897-001
	F11-064-031	B2BNP1	SOIL	100.0	0.224 g		06/04/11	4	S106030-02	7897-002
		Method Blank	SOIL						S106030-04	7897-004
		Lab Control Sample	SOIL						S106030-03	7897-003
		Duplicate (S106030-01)	SOIL	100.0	0.215 g		06/04/11	4	S106030-05	7897-005

Lab id EBRLNE
 Protocol F11-064
 Version Ver 1.0
 Form DVD-QS
 Version 3.06
 Report date 06/14/11

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4599

SDG 7897
 Contact N. Joseph Verville

PREP BATCH SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4599

TEST MATRIX	METHOD	PREPARATION ERROR		PLANCHETS ANALYZED				QUALI- FIERS
		BATCH	2σ %	CLIENT	MORE	RE BLANK	LCS DUP/ORIG MS/ORIG	
Liquid Scintillation Counting								
H	SOIL	Tritium in Solids	7296-006	10.0	2	1	1	1/1

Duplicates and Spikes are those with original sample in the QC Batch of some Client sample in this SDG.
 Blank and LCS planchets are those in the same preparation batch as some Client, Duplicate or Spike sample.

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EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4599

LAB WORK SUMMARY

SDG 7897
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4599

LAB SAMPLE COLLECTED RECEIVED	CLIENT SAMPLE ID LOCATION CUSTODY	MATRIX SAF No	PLANCHET	TEST	SUF- FIX	ANALYZED	REVIEWED	BY	METHOD
S106030-01 05/31/11 06/04/11	B2BNP0 200-W-147-PL-A RV 1 F11-064-027	SOIL F11-064	7897-001	H		06/08/11	06/14/11	KWP	Tritium in Solids
S106030-02 05/31/11 06/04/11	B2BNP1 200-W-147-PL-A RV 2 F11-064-031	SOIL F11-064	7897-002	H		06/08/11	06/14/11	KWP	Tritium in Solids
S106030-03 05/31/11 06/04/11	Lab Control Sample F11-064	SOIL F11-064	7897-003	H		06/09/11	06/14/11	KWP	Tritium in Solids
S106030-04 05/31/11 06/04/11	Method Blank F11-064	SOIL F11-064	7897-004	H		06/08/11	06/14/11	KWP	Tritium in Solids
S106030-05 05/31/11 06/04/11	Duplicate (S106030-01) 200-W-147-PL-A RV 1 F11-064	SOIL F11-064	7897-005	H		06/08/11	06/14/11	KWP	Tritium in Solids

COUNTS OF TESTS BY SAMPLE TYPE

TEST	SAF No	METHOD	REFERENCE	CLIENT	MORE	RE	BLANK	LCS	DUP	SPIKE	TOTAL
H	F11-064	Tritium in Solids	TRITIUM_COX_LSC		2		1	1	1		5
TOTALS					2		1	1	1		5

WORK SUMMARY

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SAMPLE DELIVERY GROUP H4599

7897-004

Method Blank

METHOD BLANK

SDG <u>7897</u>	Client/Case no <u>CHPRC</u>	<u>SDG_H4599</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106030-04</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7897-004</u>	Material/Matrix _____	<u>SOIL</u>
	SAF No <u>F11-064</u>	

ANALYTE	CAS NO	RESULT pCi/g	2 σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	4.50	5.1	7.22	400	U	H

QC-BLANK #78684

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SAMPLE DELIVERY GROUP H4599

7897-003

Lab Control Sample

LAB CONTROL SAMPLE

SDG <u>7897</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4599</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106030-03</u>	Client sample id <u>Lab Control Sample</u>	
Dept sample id <u>7897-003</u>	Material/Matrix <u>SOIL</u>	
	SAF No <u>F11-064</u>	

ANALYTE	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS TEST	ADDED pCi/g	2σ ERR pCi/g	REC %	3σ LMES (TOTAL)	PROTOCOL LIMITS
Tritium	389	19	8.81	400	H	415	17	94	83-117	80-120

QC-LCS #78683

Lab id <u>EBRLNE</u>
Protocol <u>F11-064</u>
Version <u>Ver 1.0</u>
Form <u>DVD-LCS</u>
Version <u>3.06</u>
Report date <u>06/14/11</u>

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SAMPLE DELIVERY GROUP H4599

7897-005

B2BNP0

DUPLICATE

SDG <u>7897</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4599</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
DUPLICATE	ORIGINAL	
Lab sample id <u>S106030-05</u>	Lab sample id <u>S106030-01</u>	Client sample id <u>B2BNP0</u>
Dept sample id <u>7897-005</u>	Dept sample id <u>7897-001</u>	Location/Matrix <u>200-W-147-PL-A RV 1</u> <u>SOIL</u>
	Received <u>06/04/11</u>	Collected/Weight <u>05/31/11 09:07</u> <u>0.215 g</u>
% solids <u>100.0</u>	% solids <u>100.0</u>	Custody/SAF No <u>F11-064-027</u> <u>F11-064</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 %	3σ TOT	DER σ
Tritium	0.453	4.8	6.61	400	U	H	-2.68	4.3	6.08	U	-		1.0

QC-DUP#1 78685

ARRA 200-W-147-PL-A Verification Sampling - Soil

Lab id EBRLNE
Protocol F11-064
Version Ver 1.0
Form DVD-DUP
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SAMPLE DELIVERY GROUP H4599

7897-001

B2BNP0

DATA SHEET

SDG <u>7897</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4599</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106030-01</u>	Client sample id <u>B2BNP0</u>	
Dept sample id <u>7897-001</u>	Location/Matrix <u>200-W-147-PL-A RV 1</u>	<u>SOIL</u>
Received <u>06/04/11</u>	Collected/Weight <u>05/31/11 09:07</u>	<u>0.215 g</u>
% solids <u>100.0</u>	Custody/SAF No <u>F11-064-027</u>	<u>F11-064</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	-2.68	4.3	6.08	400	U	H

ARRA 200-W-147-PL-A Verification Sampling - Soil

Lab id <u>EBRLNE</u>
Protocol <u>F11-064</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/14/11</u>

EBERLINE ANALYTICAL / RICHMOND
 SAMPLE DELIVERY GROUP H4599

7897-002

B2BNP1

DATA SHEET

SDG <u>7897</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4599</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106030-02</u>	Client sample id <u>B2BNP1</u>	
Dept sample id <u>7897-002</u>	Location/Matrix <u>200-W-147-PL-A RV 2</u>	<u>SOIL</u>
Received <u>06/04/11</u>	Collected/Weight <u>05/31/11 09:07</u>	<u>0.224 g</u>
% solids <u>100.0</u>	Custody/SAF No <u>F11-064-031</u>	<u>F11-064</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	3.92	4.0	6.50	400	U	H

ARRA 200-W-147-PL-A Verification Sampling - Soil

Lab id <u>EBRLNE</u>
Protocol <u>F11-064</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/14/11</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4599

LAB METHOD SUMMARY

TRITIUM IN SOLIDS

LIQUID SCINTILLATION COUNTING

Test H Matrix SOIL
 SDG 7897
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
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RESULTS

LAB	RAW	SUF-		
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID	Tritium
Preparation batch 7296-006				
S106030-01		7897-001	B2BNP0	U
S106030-02		7897-002	B2BNP1	U
S106030-03		7897-003	Lab Control Sample	ok
S106030-04		7897-004	Method Blank	U
S106030-05		7897-005	Duplicate (S106030-01)	- U

Nominal values and limits from method RDLs (pCi/g) 400

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 7296-006 2σ prep error 10.0 % Reference Lab Notebook 7896 pg. 006															
S106030-01		B2BNP0	6.08	0.215			100		100			8	06/08/11	06/08	LSC-004
S106030-02		B2BNP1	6.50	0.224			100		100			8	06/08/11	06/08	LSC-004
S106030-03		Lab Control Sample	8.81	0.200			100		100				06/08/11	06/09	LSC-004
S106030-04		Method Blank	7.22	0.200			100		100				06/08/11	06/08	LSC-004
S106030-05		Duplicate (S106030-01)	6.61	0.216			100		100			8	06/08/11	06/08	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 11
	SPP-061	Determination of Moisture Content in Solid Samples rev 0

AVERAGES ± 2 SD	MDA	<u>7.04</u> ± <u>2.14</u>
FOR 5 SAMPLES	YIELD	<u>100</u> ± <u>0</u>

METHOD SUMMARIES

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REPORT GUIDE

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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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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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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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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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SDG 7897
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GUIDE, cont.

Client CHPRC
 Contract No. 33677
 Case no SDG_H4599

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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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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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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- * 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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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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CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-064-027	PAGE 1 OF 1
COLLECTOR	KC Patterson	COMPANY CONTACT	WDRIG, DL	4599	TELEPHONE NO.
SAMPLING LOCATION	200-W-147-PL-A RV 1	PROJECT DESIGNATION	ARRA 200-W-147-PL-A Verification Sampling - Soil		
ICE CHEST NO.	GWS-215	FIELD LOGBOOK NO.	HWF-507-21	ACTUAL SAMPLE DEPTH	0-12"
SHIPPED TO	Eberline Services	OFFSITE PROPERTY NO.	2691	COA	302002ES10
MATRIX*	A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	PRESERVATION	None		
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	RADIOACTIVE TIE TO: B2BNR5				
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B2BNP0	SOIL	5/31/11	0707		

PRICE CODE	8C	DATA TURNAROUND	15 Days / 15 Days
AIR QUALITY	<input type="checkbox"/>	METHOD OF SHIPMENT	FEDERAL EXPRESS
PROJECT COORDINATOR		BAUER, RG	
SAF NO.		F11-064	
BILL OF LADING/AIR BILL NO.		7948 2204 7501	

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
KC Patterson	MAY 31 2011 1000	SSU HT	MAY 31 2011 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
SSU-1	JUN 02 2011 0800	L.D. Wall	JUN 02 2011 0800
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
L.D. Wall	JUN 02 2011 1400	FEDEX	JUN 02 2011 1400
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
FEDEX		Alex Kelenoff	6/4/11 10:00
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
 ** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. □** The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No TICs shall be reported.

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FI1-064-031	PAGE 1 OF 1
COLLECTOR	KC Patterson CHPRC	COMPANY CONTACT	WIDRIG, DL	TELEPHONE NO.	376-2858 (7897)
SAMPLING LOCATION	200-W-147-PL-A RV 2	PROJECT DESIGNATION	ARRA 200-W-147-PL-A Verification Sampling - Soil		
ICE CHEST NO.	GWS-215	FIELD LOGBOOK NO.	HNF-N-507.21	ACTUAL SAMPLE DEPTH	0-12"
SHIPPED TO	Eberline Services	OFFSITE PROPERTY NO.	2691	BILL OF LADING/AIR BILL NO.	794822047501
MATRIX*	A=Air DL=Drum L=Liquids DS=Drum S=Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	PRESERVATION	None	SEE PTR	SEE PTR
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)	HOLDING TIME	6 Months	COA	302002ES10
SPECIAL HANDLING AND/OR STORAGE	RADIOACTIVE TIE TO: B2BNRG	TYPE OF CONTAINER	G	METHOD OF SHIPMENT	FEDERAL EXPRESS
		NO. OF CONTAINER(S)	1		
		VOLUME	120ml		
		SAMPLE ANALYSIS	TRITIUM - MIDLEVEL (Tritium);		
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B2BNP1	SOIL	5/31/11	0907		

PRICE CODE	8C
AIR QUALITY	<input type="checkbox"/>
DATA TURNAROUND	15 Days / 15 Days
ORIGINAL	

PROJECT COORDINATOR	BAUER, RG
SAF NO.	FI1-064
SEE PTR	SEE PTR

SPECIAL INSTRUCTIONS		
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. <input type="checkbox"/> ** The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No TICs shall be reported.		
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
KC Patterson CHPRC	SSU-1	MAY 31 2011 1050
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
SSU-1	L.D. Wall CHPRC	JUN 02 2011 0800
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
L.D. Wall CHPRC	FEDEX	JUN 02 2011 1400
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
FEDEX	Alex Beland KEEENAW	JUN 02 2011 10:00
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
LABORATORY SECTION	RECEIVED BY	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME



RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client: CEPRC City RICHMOND State WA

Date/Time received 6/4/11 10:00 CoC No. F11-064-027, 031

Container I.D. No. GWS-215 Requested TAT (Days) 15 P.O. 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 [] N/A ✓
6. Number of samples in shipping container: 2 Sample Matrix SOIL
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 Jk Date: 6/6/11 Time: 08:40

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 < 50</u>							

Ion Chamber Ser. No. _____ Calibration date _____
 Alpha Meter Ser. No. _____ Calibration date _____
 Beta/Gamma Meter Ser. No. 100422 Calibration date 24 Sep - 2010