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December 10, 2010

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 S0-11-235-7753, SDG H4442

Dear Mr. Neely:

Enclosed is a data report for two water sample designated under SAF No. F11-014 received at Eberline Analytical on November 24, 2010. The samples were analyzed according to the accompanying chain-of-custody documents.

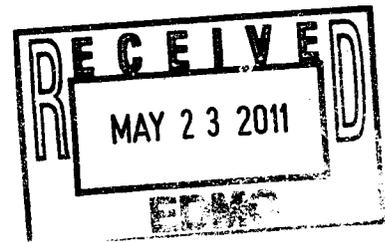
Please call if you have any questions concerning this report.

Sincerely,

N. Joseph Verville
Client Services Manager

NJV/jag

Enclosure: Data Package



1.0 GENERAL

CH2M Hill Plateau Remediation Company (CHPRC) Sample Delivery Group H4442 was composed of two water samples designated under SAF No. F11-014 with a Project Designation of: ARRA 600-286-PL – QC Sampling.

The samples were received as stated on the chain-of-custody documents. Any discrepancies are noted on the Eberline Analytical Sample Receipt Checklist.

2.0 ANALYSIS NOTES

2.1 Nickel-63 Analysis

No problems were encountered during the course of the analysis. 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

12/10/10

Date

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG_H4442

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 12/10/10

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4442

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
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 12/10/10

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

GUIDE , c o n t .

Client CHPRC
Contract No. 33677
Case no SDG_H4442

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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SUMMARY DATA SECTION

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Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 12/10/10

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4442

LAB SAMPLE SUMMARY

SDG 7753
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4442

LAB SAMPLE ID	CLIENT SAMPLE ID	LOCATION	MATRIX	LEVEL	SAF NO	CHAIN OF CUSTODY	COLLECTED
S011235-01	B29B70	600-286 EB 1	WATER		F11-014	F11-014-004	11/18/10 07:30
S011235-02	B29B71	600-286 FB 1	WATER		F11-014	F11-014-005	11/18/10 11:05
S011235-03	Lab Control Sample		WATER		F11-014		
S011235-04	Method Blank		WATER		F11-014		
S011235-05	Duplicate (S011235-01)	600-286 EB 1	WATER		F11-014		11/18/10 07:30

LAB SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRINE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-LS
 Version 3.06
 Report date 12/10/10

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
 Contact N. Joseph Verville

QC SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4442

QC BATCH	CHAIN OF CUSTODY	CLIENT SAMPLE ID	MATRIX	% SOLIDS	SAMPLE AMOUNT	BASIS AMOUNT	DAYS SINCE RECEIVED	LAB COLL SAMPLE ID	DEPARTMENT SAMPLE ID
7753	F11-014-004	B29B70	WATER		1 L		11/24/10 6	S011235-01	7753-001
	F11-014-005	B29B71	WATER		1 L		11/24/10 6	S011235-02	7753-002
		Method Blank	WATER					S011235-04	7753-004
		Lab Control Sample	WATER					S011235-03	7753-003
		Duplicate (S011235-01)	WATER		1 L		11/24/10 6	S011235-05	7753-005

Lab id EBRLNE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-QS
 Version 3.06
 Report date 12/10/10

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
 Contact N. Joseph Verville

PREP BATCH SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4442

TEST	MATRIX	METHOD	PREPARATION ERROR		PLANCHETS ANALYZED				QUALI-	
			BATCH	2σ %	CLIENT	MORE	RE BLANK	LCS		DUP/ORIG MS/ORIG
Liquid Scintillation Counting										
NI_L	WATER	Nickel-63 in Liquid	7274-120	11.2	2		1	1	1/1	

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

Lab id EBRLNE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-PBS
 Version 3.06
 Report date 12/10/10

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

LAB WORK SUMMARY

Client CHPRC
Contract No. 33677
Case no SDG H4442

LAB SAMPLE COLLECTED RECEIVED	CLIENT SAMPLE ID LOCATION CUSTODY	SAF No	MATRIX	PLANCHET	TEST	SUF- FIX	ANALYZED	REVIEWED	BY	METHOD
S011235-01 11/18/10 11/24/10	B29B70 600-286 EB 1 F11-014-004	F11-014	WATER	7753-001	NI_L		12/07/10	12/08/10	BW	Nickel-63 in Liquid
S011235-02 11/18/10 11/24/10	B29B71 600-286 FB 1 F11-014-005	F11-014	WATER	7753-002	NI_L		12/07/10	12/08/10	BW	Nickel-63 in Liquid
S011235-03 11/18/10 11/24/10	Lab Control Sample 600-286 EB 1 F11-014	F11-014	WATER	7753-003	NI_L		12/07/10	12/08/10	BW	Nickel-63 in Liquid
S011235-04 11/18/10 11/24/10	Method Blank 600-286 EB 1 F11-014	F11-014	WATER	7753-004	NI_L		12/07/10	12/08/10	BW	Nickel-63 in Liquid
S011235-05 11/18/10 11/24/10	Duplicate (S011235-01) 600-286 EB 1 F11-014	F11-014	WATER	7753-005	NI_L		12/07/10	12/08/10	BW	Nickel-63 in Liquid

COUNTS OF TESTS BY SAMPLE TYPE

TEST	SAF No	METHOD	REFERENCE	CLIENT	MORE	RE	BLANK	LCS	DUP SPIKE	TOTAL
NI_L	F11-014	Nickel-63 in Liquid	NI63_LSC	2			1	1	1	5
TOTALS				2			1	1	1	5

Lab id EBRLNE
Protocol CHPRC
Version Ver 1.0
Form DVD-LWS
Version 3.06
Report date 12/10/10

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

7753-004

Method Blank

METHOD BLANK

SDG <u>7753</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4442</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S011235-04</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7753-004</u>	Material/Matrix <u>WATER</u>	
	SAF No <u>F11-014</u>	

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Nickel 63	13981-37-8	-1.56	1.7	3.03	15.0	U	NI_L

QC-BLANK #76226

Lab id <u>EBERLINE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>12/10/10</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4442

7753-003

Lab Control Sample

LAB CONTROL SAMPLE

SDG <u>7753</u>	Client/Case no <u>CHPRC</u> SDG <u>H4442</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>
Lab sample id <u>S011235-03</u>	Client sample id <u>Lab Control Sample</u>
Dept sample id <u>7753-003</u>	Material/Matrix _____ <u>WATER</u>
	SAF No <u>F11-014</u>

ANALYTE	RESULT	2σ ERR	MDA	RDL	QUALI-	ADDED	2σ ERR	REC	3σ LMTS	PROTOCOL
	pCi/L	(COUNT)	pCi/L	pCi/L	FIERS TEST	pCi/L	pCi/L	%	(TOTAL)	LIMITS
Nickel 63	200	7.5	4.87	15.0	NI_L	216	8.6	93	83-117	80-120

QC-LCS #76225

LAB CONTROL SAMPLES

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SUMMARY DATA SECTION

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Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-LCS</u>
Version <u>3.06</u>
Report date <u>12/10/10</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4442

7753-005

B29B70

DUPLICATE

SDG <u>7753</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4442</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
DUPLICATE	ORIGINAL	
Lab sample id <u>S011235-05</u>	Lab sample id <u>SC11235-01</u>	Client sample id <u>B29B70</u>
Dept sample id <u>7753-005</u>	Dept sample id <u>7753-001</u>	Location/Matrix <u>600-286 EB 1</u> <u>WATER</u>
	Received <u>11/24/10</u>	Collected/Volume <u>11/18/10 07:30</u> <u>1 L</u>
		Custody/SAF No <u>F11-014-004</u> <u>F11-014</u>

ANALYTE	DUPLICATE	2σ ERR	MDA	RDL	QUALI-	ORIGINAL	2σ ERR	MDA	QUALI-	RPD	3σ	DER
	pCi/L	(COUNT)	pCi/L	pCi/L	FIERS		TEST	pCi/L	(COUNT)	pCi/L	FIERS	%
Nickel 63	-1.40	1.7	2.93	15.0	U	NI_L	-0.058	2.8	4.74	U	-	0.8

QC-DUP#1 76227

ARRA 600-286-PL - QC Sampling

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DUP</u>
Version <u>3.06</u>
Report date <u>12/10/10</u>

EBERLINE ANALYTICAL/RICHMOND
SAMPLE DELIVERY GROUP H4442

7753-001

B29B70

DATA SHEET

SDG <u>7753</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4442</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S011235-01</u>	Client sample id <u>B29B70</u>	
Dept sample id <u>7753-001</u>	Location/Matrix <u>600-286 EB 1</u>	<u>WATER</u>
Received <u>11/24/10</u>	Collected/Volume <u>11/18/10 07:30</u>	<u>1 L</u>
	Custody/SAF No <u>F11-014-004</u>	<u>F11-014</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Nickel 63	13981-37-8	-0.058	2.8	4.74	15.0	U	NI_L

ARRA 600-286-PL - QC Sampling

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>12/10/10</u>

EBERLINE ANALYTICAL / RICHMOND
 SAMPLE DELIVERY GROUP H4442

7753-002

B29B71

DATA SHEET

SDG <u>7753</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4442</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S011235-02</u>	Client sample id <u>B29B71</u>	
Dept sample id <u>7753-002</u>	Location/Matrix <u>600-286 FB 1</u>	<u>WATER</u>
Received <u>11/24/10</u>	Collected/Volume <u>11/18/10 11:05</u>	<u>1 L</u>
	Custody/SAF No <u>F11-014-005</u>	<u>F11-014</u>

ANALYTE	CAS NO	RESULT pCi/L	2σ ERR (COUNT)	MDA pCi/L	RDL pCi/L	QUALI- FIERS	TEST
Nickel 63	13981-37-8	-1.87	3.1	5.44	15.0	U	NI_L

ARRA 600-286-PL - QC Sampling

Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>12/10/10</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4442

Test NI L Matrix WATER
 SDG 7753
 Contact N. Joseph Verville

LAB METHOD SUMMARY

NICKEL-63 IN LIQUID

LIQUID SCINTILLATION COUNTING

Client CHPRC
 Contract No. 33677
 Contract SDG H4442

RESULTS

LAB RAW SUF-
 SAMPLE ID TEST FIX PLANCHET CLIENT SAMPLE ID Nickel 63

Preparation batch 7274-120

S011235-01	7753-001	B29B70	U
S011235-02	7753-002	B29B71	U
S011235-03	7753-003	Lab Control Sample	ok
S011235-04	7753-004	Method Blank	U
S011235-05	7753-005	Duplicate (S011235-01)	- U

Nominal values and limits from method RDLs (pCi/L) 15.0

METHOD PERFORMANCE

LAB RAW SUF- MDA ALIQ PREP DILU- YIELD EFF COUNT FWHM DRIFT DAYS ANAL-
 SAMPLE ID TEST FIX CLIENT SAMPLE ID pCi/L L FAC TION % % min keV KeV HELD PREPARED YZED DETECTOR

Preparation batch 7274-120 2σ prep error 11.2 % Reference Lab Notebook No. 7270 pg.120

S011235-01	B29B70	4.74	0.500	64	50	19	12/07/10	12/07	LSC-004
S011235-02	B29B71	5.44	0.500	55	50	19	12/07/10	12/07	LSC-004
S011235-03	Lab Control Sample	4.87	0.500	62	50		12/07/10	12/07	LSC-004
S011235-04	Method Blank	3.03	0.500	99	50		12/07/10	12/07	LSC-004
S011235-05	Duplicate (S011235-01)	2.93	0.500	101	50	19	12/07/10	12/07	LSC-004

Nominal values and limits from method 15.0 0.500 40-110 50 180

PROCEDURES REFERENCE NI63_LSC
 SPP-040 Environmental Water Dissolution, rev 2
 CP-280 Nickel-63 Purification, rev 5

AVERAGES ± 2 SD MDA 4.20 ± 2.29
 FOR 5 SAMPLES YIELD 76 ± 44

METHOD SUMMARIES

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SUMMARY DATA SECTION

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Lab id EBRLNE
 Protocol CHPRC
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EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG_H4442

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.

REPORT GUIDES

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SUMMARY DATA SECTION

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Lab id EBRLNE
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EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG_H4442

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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EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
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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.

REPORT GUIDES

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SUMMARY DATA SECTION

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EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
 Contact N. Joseph Verville

R E P O R T G U I D E

Client CHPRC
 Contract No. 33677
 Case no SDG_H4442

D A T A S H E E T

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).

REPORT GUIDES

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SUMMARY DATA SECTION

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SAMPLE DELIVERY GROUP H4442

SDG 7753
 Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
 Contract No. 33677
 Case no SDG H4442

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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SUMMARY DATA SECTION

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Lab id EBRLNE
 Protocol CHPRC
 Version Ver 1.0
 Form DVD-RG
 Version 3.06
 Report date 12/10/10

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
 Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
 Contract No. 33677
 Case no SDG_H4442

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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EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4442

SDG 7753
Contact N. Joseph Verville

R E P O R T G U I D E

Client CHPRC
Contract No. 33677
Case no SDG_H4442

L A B C O N T R O L S A M P L E

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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SDG 7753
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
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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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SDG 7753
Contact N. Joseph Verville

GUIDE , c o n t .

Client CHPRC
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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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SDG 7753
 Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
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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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GUIDE, cont.

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.

REPORT GUIDES

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SUMMARY DATA SECTION

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 Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
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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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SUMMARY DATA SECTION

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GUIDE , cont .

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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CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F11-014-004 PAGE 1 OF 1

COLLECTOR KB Hulise
CHPRC

COMPANY CONTACT
WIDRIG, DL 44442
TELEPHONE NO. 376-2858 7753

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE 7C

DATA TURNAROUND 15 Days / 15 Days

SAMPLING LOCATION
600-286 EB 1

PROJECT DESIGNATION
ARRA 600-286-PL - QC Sampling

SAF NO. F11-014

AIR QUALITY

METHOD OF SHIPMENT
FEDERAL EXPRESS

ICE CHEST NO. GWS-189-D2

FIELD LOGBOOK NO. HNF-N-507-16-4

ACTUAL SAMPLE DEPTH N/A

COA 302222ES10

SHIPPED TO Eberline Services

OFFSITE PROPERTY NO. 02825

BILL OF LADING/AIR BILL NO. SEE PTR 7964 7595 2989

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HM03 to pH
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	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)		<2
		HOLDING TIME	6 Months
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	1
		VOLUME	1000mL
		SAMPLE ANALYSIS	Nickel-63 (Nickel-63);
61	MATRIX* WATER	SAMPLE DATE	NOV 18 2010
		SAMPLE TIME	0730
			X

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM KB Hulise	RECEIVED BY/STORED IN SE Hamaker	NOV 18 2010 1500
RELINQUISHED BY/REMOVED FROM SE Hamaker	RECEIVED BY/STORED IN FED EX	NOV 22 2010 0900
RELINQUISHED BY/REMOVED FROM FED EX	RECEIVED BY/STORED IN JF MATHEWS	NOV 24 10 0315
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
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

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.

ORIGINAL

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-014-005	PAGE 1 OF 1
COLLECTOR	KB Hulise CHPRC	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE
SAMPLING LOCATION	FSL Res 11/10	WIDRIG, DL	376-2858	WIDRIG, DL	7C
600-286		PROJECT DESIGNATION		SAF NO.	AIR QUALITY
ICE CHEST NO.	605-189-02	ARRA 600-286-PL - QC Sampling		F11-014	<input type="checkbox"/>
		FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
		HNF-N-507-16.4	N/A	302222ES10	FEDERAL EXPRESS
SHIPPED TO	Eberline Services	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.	
		02425		SEE PTR	7964 7595 2989

MATRIX*	PRESERVATION	HNO3 to pH
A=Air		<2
DL=Drum	HOLDING TIME	6 Months
Liquids		
DS=Drum	TYPE OF CONTAINER	G/P
Solids		
L=Liquid	NO. OF CONTAINER(S)	1
O=Oil	VOLUME	1000mL
S=Soil	SAMPLE ANALYSIS	Nickel-63 (Nickel-63)
SE=Sediment		
T=Tissue		
V=Vegetation		
W=Water		
WI=Wipe		
X=Other		

SAMPLE NO.	MATRIX*
33	
NOV 18 2010	1105
NOV 18 2010	X

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
KB Hulise	NOV 18 2010 1500	SSU #1	NOV 18 2010 1500
CHPRC		SE Haimaker	
SSU-1	NOV 27 2010 0900	CHPRC	NOV 22 2010
SE Haimaker		FED EX	
CHPRC	NOV 27 2010	PF WATKINS	NOV 27 2010
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
KB Hulise	NOV 18 2010 1500	SSU #1	NOV 18 2010 1500
CHPRC		SE Haimaker	
SSU-1	NOV 27 2010 0900	CHPRC	NOV 22 2010
SE Haimaker		FED EX	
CHPRC	NOV 27 2010	PF WATKINS	NOV 27 2010
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
KB Hulise	NOV 18 2010 1500	SSU #1	NOV 18 2010 1500
CHPRC		SE Haimaker	
SSU-1	NOV 27 2010 0900	CHPRC	NOV 22 2010
SE Haimaker		FED EX	
CHPRC	NOV 27 2010	PF WATKINS	NOV 27 2010
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
KB Hulise	NOV 18 2010 1500	SSU #1	NOV 18 2010 1500
CHPRC		SE Haimaker	
SSU-1	NOV 27 2010 0900	CHPRC	NOV 22 2010
SE Haimaker		FED EX	
CHPRC	NOV 27 2010	PF WATKINS	NOV 27 2010

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.

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME



RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client: CHPRC City MCFRAND State WA
 Date/Time received 11/24/10 0915 CoC No. F11-014-009,005
 Container I.D. No. GWS-189-02 Requested TAT (Days) 5 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 []
6. Number of samples in shipping container: 2 Sample Matrix W
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 1 Preservative HNO3
13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [] No [] Date _____
15. Inspected by [Signature] Date: 11/24/10 Time: 1045

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	wipe
<u>the stop ES</u>	<u>660</u>						

Ion Chamber Ser. No. _____ Calibration date _____
 Alpha Meter Ser. No. _____ Calibration date _____
 Beta/Gamma Meter Ser. No. 100482 Calibration date 24 SEP 10