

RECEIVED DECEMBER 14, 2009



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December 14, 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 R9-12-054-7720, SDG H4099

Dear Mr. Neely:

Enclosed is a data report for two liquid (other liquid) samples designated under SAF No. F10-057 received at Eberline Analytical on December 11, 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
Client Services Manager

NJV/

Enclosure: Case Narrative

RECEIVED
JUN 03 2010
EDMC

1.0 GENERAL

CH2M Hill Plateau Remediation Company (CHPRC) Sample Delivery Group H4099 was composed of two liquid (other liquid) samples designated under SAF No. F10-057 with a Project Designation of: ARRA Upper ALE Waste Drum-Other Liquids.

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

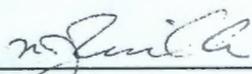
2.0 ANALYSIS NOTES

2.1 Strontium-90 Analysis

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
Client Services Manager

12/14/09

Date

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4099

SDG 7720
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Case no SDG H4099

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

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UB

Prepared by

N. Joseph Verville

Reviewed by

Lab id EBRLNE
Protocol Hanford1
Version Ver 1.0
Form DVD-TOC
Version 3.06
Report date 12/14/09

SDG 7720
Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
Contract No. 33677
Case no SDG H4099

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 Hanford1
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 12/14/09

SDG 7720
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
Contract No. 33677
Case no SDG H4099

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

Page 2

Lab id EBRLNE
Protocol Hanford1
Version Ver 1.0
Form DVD-RG
Version 3.06
Report date 12/14/09

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4099

SDG 7720

Contact N. Joseph Verville

LAB SAMPLE SUMMARY

Client CHPRC

Contract No. 33677

Case no SDG H4099

LAB						CHAIN OF	
SAMPLE ID	CLIENT SAMPLE ID	LOCATION	MATRIX	LEVEL	SAF NO	CUSTODY	COLLECTED
R912054-01	B23776	WASTE DRUM 1	LIQUID		F10-057	F10-057-005	12/07/09 09:30
R912054-02	B23777	WASTE DRUM 1 DUP	LIQUID		F10-057	F10-057-006	12/07/09 09:30
R912054-03	Lab Control Sample		LIQUID		F10-057		
R912054-04	Method Blank		LIQUID		F10-057		
R912054-05	Duplicate (R912054-01)	WASTE DRUM 1	LIQUID		F10-057		12/07/09 09:30

LAB SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRLNE

Protocol Hanford

Version Ver 1.0

Form DVD-LS

Version 3.06

Report date 12/14/09

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4099

SDG 7720
 Contact N. Joseph Verville

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

QC SUMMARY

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
7720	F10-057-005	B23776	LIQUID	100.0	2000 mL		12/11/09	4	R912054-01	7720-001
	F10-057-006	B23777	LIQUID	100.0	2000 mL		12/11/09	4	R912054-02	7720-002
		Method Blank	LIQUID						R912054-04	7720-004
		Lab Control Sample	LIQUID						R912054-03	7720-003
		Duplicate (R912054-01)	LIQUID	100.0	2000 mL		12/11/09	4	R912054-05	7720-005

QC SUMMARY

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SUMMARY DATA SECTION

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 Protocol Hanford1
 Version Ver 1.0
 Form DVD-QS
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 Report date 12/14/09

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4099

SDG 7720
 Contact N. Joseph Verville

PREP BATCH SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

TEST	MATRIX	METHOD	PREPARATION ERROR		PLANCHETS ANALYZED				QUALI-	
			BATCH	2σ %	CLIENT	MORE	RE	BLANK		LCS
Beta Counting										
SR	LIQUID	Total Strontium in Liquids	7215-167	10.4	2			1	1	1/1

Duplicates and Matrix Spikes are those with original (Client) sample in this Sample Delivery Group.
 Blank and LCS planchets are those in the same preparation batch as some Client, Duplicate or Spike sample.

Lab id EBRLNE
 Protocol Hanford1
 Version Ver 1.0
 Form DVD-PBS
 Version 3.06
 Report date 12/14/09

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4099

SDG 7720
 Contact N. Joseph Verville

LAB WORK SUMMARY

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

LAB SAMPLE	CLIENT SAMPLE ID				SUF-					
COLLECTED	LOCATION	MATRIX			FIX	ANALYZED	REVIEWED	BY	METHOD	
RECEIVED	CUSTODY	SAF No	PLANCHET	TEST						
R912054-01	B23776		7720-001	SR		12/12/09	12/14/09	BW	Total Strontium in Liquids	
12/07/09	WASTE DRUM 1	LIQUID								
12/11/09	F10-057-005	F10-057								
R912054-02	B23777		7720-002	SR		12/12/09	12/14/09	BW	Total Strontium in Liquids	
12/07/09	WASTE DRUM 1 DUP	LIQUID								
12/11/09	F10-057-006	F10-057								
R912054-03	Lab Control Sample		7720-003	SR		12/12/09	12/14/09	BW	Total Strontium in Liquids	
		LIQUID								
		F10-057								
R912054-04	Method Blank		7720-004	SR		12/12/09	12/14/09	BW	Total Strontium in Liquids	
		LIQUID								
		F10-057								
R912054-05	Duplicate (R912054-01)		7720-005	SR		12/12/09	12/14/09	BW	Total Strontium in Liquids	
12/07/09	WASTE DRUM 1	LIQUID								
12/11/09		F10-057								

COUNTS OF TESTS BY SAMPLE TYPE

TEST	SAF No	METHOD	REFERENCE	CLIENT	MORE	RE	BLANK	I.C.S	DUP	SPIKE	TOTAL
SR	F10-057	Total Strontium in Liquids	SRTOT_SEP_PRECIP_GPC	2			1	1	1		5
TOTALS				2			1	1	1		5

WORK SUMMARY

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SUMMARY DATA SECTION

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 Form DVD-LWS
 Version 3.06
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EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4099

7720-004

Method Blank

METHOD BLANK

SDG <u>7720</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4099</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R912054-04</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7720-004</u>	Material/Matrix <u>LIQUID</u>	
	SAF No <u>F10-057</u>	

ANALYTE	CAS NO	RESULT pCi/mL	2σ ERR (COUNT)	MDA pCi/mL	RDL pCi/mL	QUALI- FIERS	TEST
Total Strontium	SR-RAD	-0.006	0.024	0.051	1.00	U	SR

QC-BLANK #71778

Lab id <u>EBRLNE</u>
Protocol <u>Hanford1</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>12/14/09</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4099

7720-003

Lab Control Sample

LAB CONTROL SAMPLE

SDG <u>7720</u>	Client/Case no <u>CHERC</u>	<u>SDG H4099</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>R912054-03</u>	Client sample id <u>Lab Control Sample</u>	
Dept sample id <u>7720-003</u>	Material/Matrix <u>LIQUID</u>	
	SAF No <u>F10-057</u>	

ANALYTE	RESULT pCi/mL	2σ ERR (COUNT)	MDA pCi/mL	RDL pCi/mL	QUALI- FIERS	TEST	ADDED pCi/mL	2σ ERR pCi/mL	REC %	3σ LMTS (TOTAL)	PROTOCOL LIMITS
Total Strontium	2.10	0.12	0.054	1.00		SR	1.98	0.079	106	80-120	80-120

QC-LCS #71777

Lab id <u>EBRLNE</u>
Protocol <u>Hanford1</u>
Version <u>Ver 1.0</u>
Form <u>DVD-LCS</u>
Version <u>3.06</u>
Report date <u>12/14/09</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4099

7720-005

B23776

DUPLICATE

SDG <u>7720</u>	Client/Case no <u>CHPRC</u>	<u>SDG H4099</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
<u>DUPLICATE</u>	<u>ORIGINAL</u>	
Lab sample id <u>R912054-05</u>	Lab sample id <u>R912054-01</u>	Client sample id <u>B23776</u>
Dept sample id <u>7720-005</u>	Dept sample id <u>7720-001</u>	Location/Matrix <u>WASTE DRUM 1</u> <u>LIQUID</u>
	Received <u>12/11/09</u>	Collected/Volume <u>12/07/09 09:30</u> <u>2000 mL</u>
% solids <u>100.0</u>	% solids <u>100.0</u>	Custody/SAF No <u>F10-057-005</u> <u>F10-057</u>

ANALYTE	DUPLICATE pCi/mL	2σ ERR (COUNT)	MDA pCi/mL	RDL pCi/mL	QUALI- FIERS	TEST	ORIGINAL pCi/mL	2σ ERR (COUNT)	MDA pCi/mL	QUALI- FIERS	RPD %	3σ TOT	DER σ
Total Strontium	-0.020	0.025	0.056	1.00	U	SR	0.015	0.028	0.054	U	-	1.9	

QC-DUP#1 71779

ARRA Upper ALE Waste Drum - Other Liquids

Lab id <u>EBRLNE</u>
Protocol <u>Hanford</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DUP</u>
Version <u>3.06</u>
Report date <u>12/14/09</u>

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4099

7720-001

B23776

DATA SHEET

SDG <u>7720</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4099</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>R912054-01</u>	Client sample id <u>B23776</u>	
Dept sample id <u>7720-001</u>	Location/Matrix <u>WASTE DRUM 1</u>	<u>LIQUID</u>
Received <u>12/11/09</u>	Collected/Volume <u>12/07/09 09:30</u>	<u>2000 mL</u>
% solids <u>100.0</u>	Custody/SAF No <u>F10-057-005</u>	<u>F10-057</u>

ANALYTE	CAS NO	RESULT pCi/mL	2σ ERR (COUNT)	MDA pCi/mL	RDL pCi/mL	QUALI- FIERS	TEST
Total Strontium	SR-RAD	0.015	0.028	0.054	1.00	U	SR

ARRA Upper ALE Waste Drum - Other Liquids

Lab id <u>EBRLNE</u>
Protocol <u>Hanford1</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>12/14/09</u>

EBERLINE ANALYTICAL / RICHMOND
SAMPLE DELIVERY GROUP H4099

7720-002

B23777

DATA SHEET

SDG <u>7720</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4099</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>R912054-02</u>	Client sample id <u>B23777</u>	
Dept sample id <u>7720-002</u>	Location/Matrix <u>WASTE DRUM 1 DUP</u>	<u>LIQUID</u>
Received <u>12/11/09</u>	Collected/Volume <u>12/07/09 09:30</u>	<u>2000 mL</u>
% solids <u>100.0</u>	Custody/SAF No <u>F10-057-006</u>	<u>F10-057</u>

ANALYTE	CAS NO	RESULT pCi/mL	2σ ERR (COUNT)	MDA pCi/mL	RDL pCi/mL	QUALI- FIERS	TEST
Total Strontium	SR-RAD	-0.012	0.024	0.052	1.00	U	SR

ARRA Upper ALE Waste Drum - Other Liquids

Lab id <u>EBRLNE</u>
Protocol <u>Hanford1</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>12/14/09</u>

EBERLINE ANALYTICAL/RICHMOND

SAMPLE DELIVERY GROUP H4099

LAB METHOD SUMMARY

TOTAL STRONTIUM IN LIQUIDS
BETA COUNTING

Test SR Matrix LIQUID
SDG 7720
Contact N. Joseph Verville

Client CHPRC
Contract No. 33677
Contract SDG H4099

RESULTS

LAB	RAW	SUF-		Total
SAMPLE ID	TEST FIX	PLANCHET	CLIENT SAMPLE ID	Strontium
Preparation batch 7215-167				
R912054-01		7720-001	B23776	U
R912054-02		7720-002	B23777	U
R912054-03		7720-003	Lab Control Sample	ok
R912054-04		7720-004	Method Blank	U
R912054-05		7720-005	Duplicate (R912054-01)	- U

Nominal values and limits from method RDLs (pCi/mL) 1.00

METHOD PERFORMANCE

LAB	RAW	SUF-	MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS	ANAL-
SAMPLE ID	TEST FIX	CLIENT SAMPLE ID	pCi/mL	mL	FAC	TION	%	%	min	keV	KeV	HELD PREPARED	Y/YRD DETECTOR
Preparation batch 7215-167			2σ prep error 10.4 % Reference Lab Notebook No. 7215 pg.167										
R912054-01		B23776	0.054	5.00			92	100			5	12/12/09 12/12	GRB-217
R912054-02		B23777	0.052	5.00			94	100			5	12/12/09 12/12	GRB-220
R912054-03		Lab Control Sample	0.054	5.00			93	100				12/12/09 12/12	GRB-221
R912054-04		Method Blank	0.051	5.00			94	100				12/12/09 12/12	GRB-222
R912054-05		Duplicate (R912054-01)	0.056	5.00			90	100			5	12/12/09 12/12	GRB-223

Nominal values and limits from method 1.00 5.00 40-110 100 180

PROCEDURES REFERENCE SRTOT_SEP_PRECIP_GPC
SPP-040 Environmental Water Dissolution, rev 2
CP-383 Strontium in Dissolved Solid of < 5.0g Aliquot, rev 4

AVERAGES ± 2 SD MDA 0.053 ± 0.004
FOR 5 SAMPLES YIELD 93 ± 3

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Version Ver 1.0
Form DVD-LMS
Version 3.06
Report date 12/14/09

SDG 7720
 Contact N. Joseph Verville

REPORT GUIDE

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

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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SDG 7720
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REPORT GUIDE

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

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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SDG 7720
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Client CHPRC
 Contract No. 33677
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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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GUIDE, cont.

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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.

Lab id EBRLNE
 Protocol Hanford1
 Version Ver 1.0
 Form DVD-RG
 Version 3.06
 Report date 12/14/09

EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4099

SDG 7720
 Contact N. Joseph Verville

GUIDE , c o n t .

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

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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 SUMMARY DATA SECTION
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SAMPLE DELIVERY GROUP H4099

SDG 7720
Contact N. Joseph Verville

REPORT GUIDE

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Contract No. 33677
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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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Protocol Hanford1
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EBERLINE ANALYTICAL / RICHMOND

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SDG 7720
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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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 Protocol Hanford1
 Version Ver 1.0
 Form DVD-RG
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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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Protocol Hanford1
Version Ver 1.0
Form DVD-RG
Version 3.06
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 Contract No. 33677
 Case no SDG H4099

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'

Lab id EBRLNE
 Protocol Hanford1
 Version Ver 1.0
 Form DVD-RG
 Version 3.06
 Report date 12/14/09

SDG 7720
 Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

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.

Lab id EBRLNE
 Protocol Hanford1
 Version Ver 1.0
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EBERLINE ANALYTICAL / RICHMOND

SAMPLE DELIVERY GROUP H4099

SDG 7720
 Contact N. Joseph Verville

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Client CHPRC
 Contract No. 33677
 Case no SDG H4099

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

Lab id EBRLNE
 Protocol Hanford1
 Version Ver 1.0
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GUIDE, cont.

Client CHPRC
 Contract No. 33677
 Case no SDG H4099

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.

Lab id EBRLNE
 Protocol Hanford1
 Version Ver 1.0
 Form DVD-RG
 Version 3.06
 Report date 12/14/09

COLLECTOR **KC Patterson**
CHPRC

SAMPLING LOCATION

WASTE DRUM 1

ICE CHEST NO.

SHIPPED TO

Eberline Services

MATRIX*

- A=Air
- DL=Drum
- Liquids
- DS=Drum
- Solids
- L=Liquid
- O=Oil
- S=Soil
- SE=Settling
- T=Tissue
- V=Vegetation
- W=Water
- WI=Wipe
- X=Other

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 B237F3

SAMPLE NO.

MATRIX*

B23776

OTHER LIQUID

SAMPLE DATE

DEC 07 2009

SAMPLE TIME

0930

COMPANY CONTACT

WIDRIG, DL

TELEPHONE NO.

376-2858

PROJECT COORDINATOR

WIDRIG, DL

PROJECT DESIGNATION

ARRA Upper ALE Waste Drum - Other Liquids

SAF NO.

F10-057

FIELD LOGBOOK NO.

HNF-N-507-7

ACTUAL SAMPLE DEPTH

N/A

COA

302228ES10

OFFSITE PROPERTY NO.

SEE PTR

H4099(7720)

BILL OF LADING/AIR BILL NO.

SEE PTR 7930 2103 1662

PRICE CODE 9A

DATA TURNAROUND

3 Days / 15 Days

AIR QUALITY

METHOD OF SHIPMENT

FEDERAL EXPRESS

PRESERVATION

None

TYPE OF CONTAINER

G/P

NO. OF CONTAINER(S)

2

VOLUME

1000mL

SAMPLE ANALYSIS

Strontium-89,90 - Total Sr;

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

KC Patterson

DATE/TIME

DEC 07 2009 / 1530

RECEIVED BY/STORED IN

SSU-1

DATE/TIME

DEC 07 2009 / 1530

RELINQUISHED BY/REMOVED FROM

CHPRC

SSU-1

DATE/TIME

12-10-09 1345

RECEIVED BY/STORED IN

FM Hall

DATE/TIME

12-10-09 245

RELINQUISHED BY/REMOVED FROM

FM Hall

DATE/TIME

12-10-09 1400

RECEIVED BY/STORED IN

FED EX

DATE/TIME

12-10-09 1095

RELINQUISHED BY/REMOVED FROM

FED EX

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

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

 ORIGINAL

Pages 31 of 34

COLLECTOR
KC Patterson
CHPRC
 SAMPLING LOCATION
 WASTE DRUM 1 DUP
 ICE CHEST NO.

COMPANY CONTACT
 WIDRIG, DL
 TELEPHONE NO.
 376-2858
 PROJECT DESIGNATION
 ARRA Upper ALE Waste Drum - Other Liquids
 FIELD LOGBOOK NO.
HNF-N-507-7
 ACTUAL SAMPLE DEPTH
N/A
 OFFSITE PROPERTY NO.
 SEE PTR
H4099 (7720)

PROJECT COORDINATOR
 WIDRIG, DL
 PRICE CODE
 9A
 DATA TURNAROUND
 3 Days / 15 Days
 SAF NO.
 F10-057
 AIR QUALITY

SHIPPED TO
 Eberline Services

COA
 302228ES10
 METHOD OF SHIPMENT
 FEDERAL EXPRESS
 BILL OF LADING/AIR BILL NO.
 SEE PTR
7930 9103 0662

MATRIX*
 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

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 B237F4

PRESERVATION	None																		
TYPE OF CONTAINER	G/P																		
NO. OF CONTAINER(S)	2																		
VOLUME	1000mL																		
SAMPLE ANALYSIS	Strontium-89,90 - Total Sr;																		

SAMPLE NO.	MATRIX*
B23777	OTHER LIQUID

SAMPLE DATE	SAMPLE TIME																		
DEC 07 2009	0930	✓																	

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM KC Patterson	DATE/TIME DEC 07 2009 / 1530	RECEIVED BY/STORED IN SSU-1	DATE/TIME DEC 07 2009 / 1530
RELINQUISHED BY/REMOVED FROM SSU-1	DATE/TIME 12-10-09 1345	RECEIVED BY/STORED IN FBI Hall	DATE/TIME 12-10-09 1345
RELINQUISHED BY/REMOVED FROM FBI Hall	DATE/TIME 12-10-09	RECEIVED BY/STORED IN FED ER	DATE/TIME 12-10-09
RELINQUISHED BY/REMOVED FROM FED ER	DATE/TIME	RECEIVED BY/STORED IN FBI Hall	DATE/TIME 12/14/09 0915
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

 ORIGINAL

LABORATORY SECTION
 FINAL SAMPLE DISPOSITION

RECEIVED BY
 DISPOSAL METHOD

TITLE
 DATE/TIME
 DISPOSED BY
 DATE/TIME



RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client: CHPRC City MONTANA State WA

Date/Time received 12/11/09 1015 CoC No. F10-057-005, 006

Container I.D. No. 6WS-098 Requested TAT (Days) 3/15 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
6. Number of samples in shipping container: 2 Sample Matrix LIQUID
7. Number of containers per sample: 2 (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 9 Preservative _____
13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [] No [] Date _____

15. Inspected by [Signature] Date: 12/11/09 Time: 1030

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wide	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wide
<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 05 AUG 09

PAGE 1
WORK NOT COMPLETED

Eberline Svcs
INVOICE
12/14/09 15:44:42

ORD # R9-12-054
GROUP # 7720_NUC
INVOICE # not set

INVOICE CH2M HILL PLATEAU REMED. CO. REMIT Eberline Analytical Corp. TERMS NET 30 DAYS
TO P. O. BOX 1600 TO 7021 Pan American Fwy NE
MAIL STOP - R3-60 Albuquerque, NM 87109
RICHLAND, WA 99352

ATTEN ACCOUNTS PAYABLE ATTEN Accounts Receivable
PHONE (510)235-2633

WORK ID SAF# F10-057 SDG# H4099
P.O. # CONTRACT #33677 For proper credit customer's remittance copy is required with payment.

REPORT CH2M HILL PLATEAU REMED. CO. Federal ID No. 85-0327981
TO P.O. Box 1600 Accounting Customer #0007908 Invoice date=12/14/09 - NJV
MAIL STOP - R3-60 3-Day (9A08) TAT Prices Applied to Tests.
RICHLAND, WA 99352

ATTEN

RECEIVED 12/11/09 CLIENT CHPRC
REPORTED PROJECT WHC_CH2M

ID	CODE	DESCRIPTION	REMARK	PRICE	QTY	DISCOUNT	AMOUNT
STS	DISPOS-T	Disposal		10.00	2		20.00
	ESR -9A08	SR-89, 90 - Total Radioact		348.00	4		1392.00
						SUBTOTAL	\$1,412.00
						TOTAL INVOICE AMOUNT	\$1,412.00