

SAF-RC-074

100-D/DR Burial Grounds & Remaining

Sites – Soil In-Process

FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt

H4-21

KW 1/30/13
INITIAL/DATE

COMMENTS:

SDG J01683

SAF RC-074

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: 100-D-100

Analytical Data Package Prepared For
Washington Closure Hanford

Radiochemical Analysis By
TestAmerica

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 71 Pages

Report No.: 54381

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J01683	RC-074	J1R9D5	J3A290406-1	MX1AT1AC	9MX1AT10	3029045
		J1R9D6	J3A290406-2	MX1AV1AC	9MX1AV10	3029045
		J1RCM1	J3A280416-15	MX0WN1AC	9MX0WN10	3028032
		J1RCR8	J3A280416-1	MX0V71AC	9MX0V710	3028032
		J1RCR9	J3A280416-2	MX0V81AC	9MX0V810	3028032
		J1RCT0	J3A280416-3	MX0V91AC	9MX0V910	3028032
		J1RCT1	J3A280416-4	MX0WA1AC	9MX0WA10	3028032
		J1RCT2	J3A280416-5	MX0WC1AC	9MX0WC10	3028032
		J1RCT3	J3A280416-6	MX0WD1AC	9MX0WD10	3028032
		J1RCT4	J3A280416-7	MX0WE1AC	9MX0WE10	3028032
		J1RCT5	J3A280416-8	MX0WF1AC	9MX0WF10	3028032
		J1RCT6	J3A280416-9	MX0WG1AC	9MX0WG10	3028032
		J1RCT7	J3A280416-10	MX0WH1AC	9MX0WH10	3028032
		J1RCT8	J3A280416-11	MX0WJ1AC	9MX0WJ10	3028032
		J1RCT9	J3A280416-12	MX0WK1AC	9MX0WK10	3028032
		J1RCV0	J3A280416-13	MX0WL1AC	9MX0WL10	3028032
		J1RCV1	J3A280416-14	MX0WM1AC	9MX0WM10	3028032
RC-074		J1RCW0	J3A280423-1	MX02K1AC	9MX02K10	3028045
		J1RCW2	J3A280423-2	MX02L1AC	9MX02L10	3028045
		J1RCW4	J3A280423-3	MX02M1AC	9MX02M10	3028045



THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

January 30, 2013

Attention: Joan Kessner

SAF Number	:	RC-074
Date SDG Closed	:	January 29, 2013
Number of Samples	:	Twenty (20)
Sample Type	:	Soil
SDG Number	:	J01683
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

Between January 28, 2013 and January 29, 2013, twenty soil samples were received at TestAmerica for analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Washington Closure Hanford (WCH) specific ID;

<u>WCH ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
J1RCR8	MX0V7	SOIL	1/28/13
J1RCR9	MX0V8	SOIL	1/28/13
J1RCT0	MX0V9	SOIL	1/28/13
J1RCT1	MX0WA	SOIL	1/28/13
J1RCT2	MX0WC	SOIL	1/28/13
J1RCT3	MX0WD	SOIL	1/28/13
J1RCT4	MX0WE	SOIL	1/28/13
J1RCT5	MX0WF	SOIL	1/28/13
J1RCT6	MX0WG	SOIL	1/28/13
J1RCT7	MX0WH	SOIL	1/28/13
J1RCT8	MX0WJ	SOIL	1/28/13
J1RCT9	MX0WK	SOIL	1/28/13
J1RCV0	MX0WL	SOIL	1/28/13
J1RCV1	MX0WM	SOIL	1/28/13
J1RCM1	MX0WN	SOIL	1/28/13
J1RCW0	MX02K	SOIL	1/28/13
J1RCW2	MX02L	SOIL	1/28/13
J1RCW4	MX02M	SOIL	1/28/13
J1R9D5	MX1AT	SOIL	1/29/13
J1R9D6	MX1AV	SOIL	1/29/13

Washington Closure Hanford
January 30, 2013

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors. The requested analyses were:

ICP Metals

ICP Metals by method SW-846 6010A

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

IV. Quality Control

SDG J01683 includes a minimum of one Laboratory Control Samples (LCS), one method (reagent) blank, a duplicate sample, matrix spike sample and a matrix spike duplicate sample. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

V. Comments

ICP Metals

ICP Metals by method SW-846 6010A

Three batches were analyzed for the samples with the standard metal request list.

Batch 3028035:

The MSD recovery for Selenium is not within the acceptance limits. All other batch QC is within the acceptance criteria. Except as noted The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 3028044:

The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 3029046:

The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

Three batches were analyzed.

Batch 3028032:

The LCS, batch blank, samples, sample duplicate (J1RCR8) and sample matrix spike (J1RCR8) results are within contractual requirements.

Washington Closure Hanford
January 30, 2013

Batch 3028045:

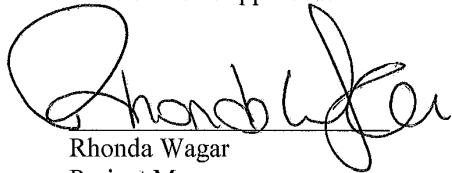
The LCS, batch blank, samples, sample duplicate (J1RCW0) and sample matrix spike (J1RCW0) results are within contractual requirements.

Batch 3029045:

The matrix spike recovered low at 52%. The post digestive matrix spike recovered at 90% and the insoluble matrix spike recovered at 96%. This implies a reducing capacity in the sample, but not enough to exhaust the more copious insoluble matrix spike. Except as noted; the LCS, batch blank, samples, sample duplicate (J1R9D5) and sample matrix spike (J1R9D5) results are within contractual requirements.

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

Reviewed and approved:



Rhonda Wagar
Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z,...)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c- Combined Uncertainty.</i>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u_c</i> the <i>combined uncertainty</i> . The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $L_c = (1.645 * \text{Sqrt}(2 * (\text{BkgrndCnt/BkgrndCntMin}) / \text{SCntMin})) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \text{Sqr}((\text{BkgrndCnt/BkgrndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number .
RER	The equation Replicate Error Ratio = $(S-D)/[\sqrt{TPUs^2 + TPUs^2}]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUs is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 30-Jan-13

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 54381

SDG No: J01683

Client Id Batch	Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
3028032 7196_CR6									
J1RCM1	MX0WN1AC	HEXCHROME	4.27E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCR8	MX0V71AC	HEXCHROME	2.82E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
	MX0V71AM	HEXCHROME	3.59E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	3.50E-01	24.0
J1RCR9	MX0V81AC	HEXCHROME	4.79E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT0	MX0V91AC	HEXCHROME	5.01E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT1	MX0WA1AC	HEXCHROME	3.62E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT2	MX0WC1AC	HEXCHROME	2.83E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT3	MX0WD1AC	HEXCHROME	3.45E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT4	MX0WE1AC	HEXCHROME	4.85E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT5	MX0WF1AC	HEXCHROME	3.57E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT6	MX0WG1AC	HEXCHROME	4.25E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT7	MX0WH1AC	HEXCHROME	1.34E+00	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT8	MX0WJ1AC	HEXCHROME	3.61E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCT9	MX0WK1AC	HEXCHROME	4.80E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCV0	MX0WL1AC	HEXCHROME	4.57E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCV1	MX0WM1A	HEXCHROME	6.23E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
3028045 7196_CR6									
J1RCW0	MX02K1AC	HEXCHROME	3.26E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
	MX02K1CF	HEXCHROME	3.67E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	3.50E-01	11.8
J1RCW2	MX02L1AC	HEXCHROME	4.74E-01	+- 0.0E+00	mg/kg	N/A	1.55E-01	1.55E-01	
J1RCW4									

TestAmerica RPD - Relative Percent Difference.

rptSTLRchSaSum
mary2 V5.2.23
A2002

Sample Results Summary**Date:** 30-Jan-13**TestAmerica TARL**

Ordered by Method, Batch No., Client Sample ID.

Report No. : 54381**SDG No:** J01683

Client Id Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
3028045 7196_CR6									
J1RCW4									
MX02M1AC HEXCHROME			4.58E-01 +/- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
3029045 7196_CR6									
J1R9D5									
MX1AT1AC HEXCHROME			2.29E-01 +/- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
MX1AT1AM HEXCHROME			2.08E-01 +/- 0.0E+00		mg/kg	N/A	1.55E-01	3.50E-01	9.6
J1R9D6									
MX1AV1AC HEXCHROME			1.55E-01 +/- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
No. of Results: 23									

TestAmerica RPD - Relative Percent Difference.
 rptSTLRchSaSum U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or
 mary2 V5.2.23 not identified by gamma scan software.
 A2002

QC Results Summary
TestAmerica TARL
 Ordered by Method, Batch No, QC Type,.

Date: 30-Jan-13

Report No. : 54381

SDG No.: J01683

Batch Work Order	Parameter	Result +- Uncertainty (2 s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
7196_CR6								
3028032 MATRIX SPIKE, J1RCR8								
MX0V71AL HEXCHROME		2.55E+01 +- 0.0E+00		mg/kg	N/A	86%	-0.1	1.55E-01
3028032 LCS,								
MX0WR1AC HEXCHROME		1.78E+01 +- 0.0E+00		mg/kg	N/A	94%	-0.1	1.55E-01
3028032 BLANK QC,								
MX0WR1AA HEXCHROME		1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01
7196_CR6								
3028045 MATRIX SPIKE, J1RCW0								
MX02K1CE HEXCHROME		2.60E+01 +- 0.0E+00		mg/kg	N/A	88%	-0.1	1.55E-01
3028045 LCS,								
MX04L1AC HEXCHROME		1.81E+01 +- 0.0E+00		mg/kg	N/A	95%	0.0	1.55E-01
3028045 BLANK QC,								
MX04L1AA HEXCHROME		1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01
7196_CR6								
3029045 MATRIX SPIKE, J1R9D5								
MX1AT1AL HEXCHROME		1.55E+01 +- 0.0E+00		mg/kg	N/A	52%	-0.5	1.55E-01
3029045 LCS,								
MX1DE1AC HEXCHROME		1.80E+01 +- 0.0E+00		mg/kg	N/A	95%	-0.1	1.55E-01
3029045 BLANK QC,								
MX1DE1AA HEXCHROME		1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 9

TestAmerica rptSTLRchQcSum mary V5.2.23 A2002	Bias - (Result/Expected)-1 as defined by ANSI N13.30. U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl, Total Uncert, CRDL, RDL or not identified by gamma scan software.
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FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A290406-1
Client Sample ID: J1R9D5

SDG: J01683
Report No. : 54381
COC No. : RC-074-443

Collection Date: 1/28/2013 2:41:00 PM
Received Date: 1/29/2013 8:35:00 AM
Matrix: SOIL

Parameter	Result	Count	Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncrt	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3029045	7196_CR6				MX1AT1AC		Report DB ID: 9NX1AT10					
HEXCHROME	2.29E-01	0.0E+00		1.55E-01	mg/kg	N/A	(1.5)	1/29/13 11:30 a	2.5015			g

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A290406-2
Client Sample ID: J1R9D6

SDG: J01683
Report No. : 54381
COC No. : RC-074-443

Collection Date: 1/28/2013 2:45:00 PM
Received Date: 1/29/2013 8:35:00 AM
Matrix: SOIL

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Uncert(2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUcert	Prep Date	Size	Size	Detector
Batch: 3029045 HEXCHROME	7196 CR6	1.55E-01	0.0E+00	MX1AV1AC	mg/kg	N/A	Report DB ID: 9MX1AV10	1/29/13 11:30 a	2.5077	g	
		U		1.55E-01		1.55E-01			1.55E-01		

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-15
Client Sample ID: J1RCM1

SDG: J01683
Report No. : 54381
COC No. : RC-074-438

Collection Date: 1/25/2013 9:30:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_CR6	Work Order: MX0WN1AC	Report DB ID: 9MX0WN10								
HEXCHROME	4.27E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.8)	2.5233	1/28/13 11:30 a			g

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A280416-1
 Client Sample ID: J1RCR8

SDG: J01683
 Report No.: 54381
 COC No.: RC-074-454

Collection Date: 1/25/2013 10:25:00 AM
 Received Date: 1/28/2013 8:45:00 AM
 Matrix: SOIL

Parameter	Result	Count	Total	Rpt Unit,	Yield	Analysis,	Total Sa	Aliquot	Primary
		Qual	Uncert(2 s)	Action Lev	CRDL(Lc)	Rst/TotUncert	Size	Size	Detector
Batch: 3028032	7196_CR6		Work Order: MX0V71AC	Report DB ID: 9MX0V710					
HEXCHROME	2.82E-01	0.0E+00	1.55E-01	mg/kg	N/A	(1.8)	1/28/13 11:30 a	2.4986	

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-2
Client Sample ID: J1RCR9

SDG: J01683
Report No.: 54381
COC No.: RC-074-454

Collection Date: 1/25/2013 9:06:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196 CR6	Work Order: MX0V81AC	Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
HEXCROME	4.79E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.1)	Report DB ID: 9MX0V810	1/28/13 11:30 a	2.513	g	N/A

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A280416-3
 Client Sample ID: J1RCT0

SDG: J01683
 Report No. : 54381
 COC No. : RC-074-454

Collection Date: 1/25/2013 10:13:00 AM
 Received Date: 1/28/2013 8:45:00 AM
 Matrix: SOIL

Parameter	Result	Qual	Count	Total	MDL,	Rpt Unit, Lc	Yield	Rst/MDL, Rst/(RL)	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_CRG			Work Order: MX0V91AC		Report DB ID: 9MX0V910						
HEXCHROME	5.01E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.2)	1/28/13 11:30 a	2.5067			g	

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-4
Client Sample ID: J1RCT1

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncrt	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_CR6	Work Order: MX0WA1AC	Report DB ID: 9MX0WA10								
HEXCHROME	3.62E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.3)	1/28/13 11:30 a	2.5109		g	

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A280416-5
 Client Sample ID: J1RCT2

SDG: J01683
 Report No.: 54381
 COC No.: RC-074-454

Collection Date: 1/25/2013 9:20:00 AM
 Received Date: 1/28/2013 8:45:00 AM
 Matrix: SOIL

Parameter	Result	Count	Total	Rpt Unit,	Yield	Total Sa	Aliquot	Primary
		Qual	Uncert(2 s)	Lc	CRDL(RL)	Rst/TotUcert	Size	Detector
Batch: 3028032	7196_CRG		Work Order: MX0WC1AC		Report DB ID: 9MX0WC10			
HEXCHROME	2.83E-01	0.0E+00	1.55E-01	mg/kg	N/A	(1.8)	1/28/13 11:30 a	2.5033

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-6
Client Sample ID: J1RCT3

SDG: J01683
Report No. : 54381
COC No. : RC-074-454

Collection Date: 1/25/2013 9:25:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Count	Total	Rpt Unit,	Yield	Analysis,	Total Sa	Aliquot	Primary
		Error (2 s)	Uncert(2 s)	Action Lev	CRDL(RL)	Rst/MDL, Rst/TotUncrt	Size	Size	Detector
Batch: 3028032	7196_CR6		Work Order: MX0WD1AC	Report DB ID: 9MX0WD10					
HEXCHROME	3.45E-01	0.0E+00	1.55E-01 mg/kg	N/A	(2.2)	1/28/13 11:30 a	2.5268		g

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A280416-7
 Client Sample ID: J1RCT4

SDG: J01683

Report No.: 54381

COC No.: RC-074-454

Collection Date: 1/25/2013 9:37:00 AM

Received Date: 1/28/2013 8:45:00 AM

Matrix: SOIl

Parameter	Result	Count	Total	MDL _{Lc}	Rpt Unit, Lc	Yield	Rst/MDL, Rst/Tot/Cert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196 CR6	Work Order: MX00WE1AC	Uncert(2 s)	Action Lev	Report DB ID: 9MX00WE10						
HEXCHROME	4.85E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.1)	1/28/13 11:30 a	2.5236			g

No. of Results: 1 Comments:

TestAmerica	MDC MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
rptSTIRChSample	U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/MDL, Total Uncert, CRDL, RDL or not identified by gamma scan software.

V5.2.23 A2002

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-8
Client Sample ID: J1RCT5

SDG: J01683
Report No. : 54381
COC No. : RC-074-454

Collection Date: 1/25/2013 9:40:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_C06				Work Order: MX0WF1AC		Report DB ID: 9MX0WF10					
HEXCHROME	3.57E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.3)	1/28/13 11:30 a	2.5003				g

No. of Results: 1 **Comments:**

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-9
Client Sample ID: J1RCT6

SDG: J01683
Report No. : 54381
COC No. : RC-074-454

Collection Date: 1/25/2013 9:44:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Count	Total	Rpt Unit,	Yield	Analysis,	Total Sa	Primary
		Qual	Uncert(2 s)	MDL, Lc	Rst/MDL, CRDL(RL)	Rst/TotUncert	Size	Detector
Batch: 3028032	7196 CR6		Work Order: MX0WG1AC		Report DB ID: 9MX0WG10			
HEXCHROME	4.25E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.7)	2.52/13	g

No. of Results: 1 **Comments:**

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-10
Client Sample ID: J1RCT7

SDG: J01683
Report No.: 54381
COC No.: RC-074-454

Collection Date: 1/25/2013 9:51:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Count	Total	Rpt Unit,	Yield	Analysis,	Total Sa	Aliquot	Primary
	Qual	Error (2 s)	Uncert(2 s)	MDL, Action Lev	CRDL(RL)	Rst/MDL, Rst/TotUncert	Size	Size	Detector
Batch: 3028032	7196 CR6	Work Order: MX0WH1AC	Report DB ID: 9MX0WH10						
HEXCHROME	1.34E+00	0.0E+00	1.55E-01	mg/kg	N/A	(8.7)	1/28/13 11:30 a	2.5445	
					1.55E-01	N/A			g

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A280416-11
 Client Sample ID: J1RCT8

Parameter	Result	Qual	Count	Total	MDL,	Rpt Unit, Lc	Yield	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196 CR6		Work Order: MX0WJ1AC		Report DB ID: 9MX0WJ10							
HEXCHROME	3.61E-01	0.0E+00	0.0E+00	1.55E-01	mg/kg	N/A	(2.3)	2.5022	1/28/13 11:30 a		g	

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-12
Client Sample ID: J1RCT9

Parameter	Result	Qual	Count	Total	MDL _L	Rpt Unit, L _c	Yield	Rst/MDL _U	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_CRG			Work Order: MX0WK1AC			Report DB ID: 9MX0WK10					
HEXCHROME	4.80E-01			0.0E+00	1.55E-01	mg/kg	N/A	(3.1)	1/28/13 11:30 a	2.5081	g	

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-13
Client Sample ID: J1RCV0

SDG: J01683
Report No. : 54381
COC No. : RC-074-454

Collection Date: 1/25/2013 9:15:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Qual	Count	Error (2 s)	Total	MDL, Action Lev	Rpt Unit, Lc	Yield	Rst/MDL, CRDL(RL)	Analysis, Rst/Tot/Ucert	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_CRG				Work Order: MX0WL1AC		Report DB ID: 9MX0WL10						
HEXCHROME	4.57E-01				0.0E+00	1.55E-01	mg/kg	N/A	(2.9)	1/28/13 11:30 a	2.5469	g	

No. of Results: 1 **Comments:**

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-14
Client Sample ID: J1RCV1

SDG: J01683
Report No.: 54381
COC No.: RC-074-454

Collection Date: 1/25/2013 9:21:00 AM
Received Date: 1/28/2013 8:45:00 AM
Matrix: SOIL

Parameter	Result	Count	Total	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196 CR6	Work Order: MX0W/M1AC	Report DB ID: 9MX0W/M10								
HEXCHROME	6.23E-01	0.0E+00	1.55E-01	mg/kg	N/A	(4.)	1/28/13 11:30 a	2.4996		g	

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280423-1
Client Sample ID: J1RCW0

SDG: J01683
Report No.: 54381
COC No.: RC-074-455

Collection Date: 1/28/2013 7:27:00 AM
Received Date: 1/28/2013 12:50:00 PM
Matrix: SOIL

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Error (2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUncert	Prep Date	Size	Size	Detector
Batch: 3028045	7196 CR6			MX02K1AC		Report DB ID: 9MX02K10					
HEXCHROME	3.26E-01	0.0E+00	1.55E-01	mg/kg	N/A	(2.1)	1/28/13 03:36 p		2.5057		g

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280423-2
Client Sample ID: J1RCW2

SDG: J01683
Report No. : 54381
COC No. : RC-074-455

Collection Date: 1/28/2013 7:32:00 AM
Received Date: 1/28/2013 12:50:00 PM
Matrix: SOIL

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Uncert(2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUcert	Prep Date	Size	Size	Detector
Batch: 3028045	7196_CR6		Work Order: MX02L1AC		Report DB ID: 9MX02L10						
HEXCHROME	4.74E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.1)	1/28/13 03:36 p		2.5081		g

No. of Results: 1 Comments:

FORM I
SAMPLE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
Lot-Sample No.: J3A280423-3
Client Sample ID: J1RCW4

SDG: J01683

Report No.: 54381

COC No.: RC-074-455

Collection Date: 1/28/2013 7:35:00 AM

Received Date: 1/28/2013 12:50:00 PM

Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Count	Total	MDL,	Rpt Unit,	Yield	Rst/MDL,	Analysis,	Total Sa	Aliquot	Primary
		Qual	Error (2 s)	Action Lev	Lc	CRDL(RL)	Rst/TotUncrt	Prep Date	Size	Size	Detector
Batch: 3028045	7196_CIR6		Work Order: MX02M1AC			Report DB ID: 9MX02M10					
HEXCHROME	4.58E-01	0.0E+00	1.55E-01	mg/kg	N/A	(3.)	1/28/13 03:36 p		2.4997		g

No. of Results: 1 Comments:

FORM II

Date: 30-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J3A290406-1
Client Sample ID: J1R9D5

Parameter	Result, Orig Rst	Count	Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Rst/MDL, Yield	Rst/TotUncert	Report DB ID: MX1AT1ER	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3029045 HEXCHROME	7196_CR6 2.08E-01 2.29E-01	Work Order: MX1AT1AM 0.0E+00	1.55E-01	mg/kg	N/A	Report DB ID: 9MX1AT10 1/29/13 11:30 a	Orig Sa DB ID: 9MX1AT10 1/29/13 11:30 a	N/A	(1.3)	N/A	2.5041	g	
		RPD 9.6	3.50E-01										

No. of Results: 1 Comments:

FORM II

Date: 30-Jan-13

DUPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J3A280416-1
Client Sample ID: J1RCR8

Parameter	Result, Orig Rst	Count	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Rst/MDL, Rst/TotCert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_CR6	Work Order: MX0V71AM			Report DB ID: MX0V71ER		Orig Sa DB ID: 9MX0V710			
HEXCHROME	3.59E-01 2.82E-01	0.0E+00 RPD 24.0	1.55E-01 3.50E-01	mg/kg N/A	N/A (2.3)	1/28/13 11:30 a N/A	1/28/13 11:30 a N/A	2.5134 g	2.5134 g	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.
 rptSTLRchDupV5. MDC|MD,A,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 2.23 A2002

FORM II

Date: 30-Jan-13

DUPPLICATE RESULTS

Lab Name: TestAmerica
Lot-Sample No.: J3A280423-1
Client Sample ID: J1RCW0

SDG: J01683
Report No. : 54381
COC No. : RC-074-455

Collection Date: 1/28/2013 7:27:00 AM
Received Date: 1/28/2013 12:50:00 PM
Matrix: SOIL

Parameter	Result, Orig Rst	Count	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcart	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028045 HEXCHROME	7196_CR6 3.67E-01 3.26E-01	Work Order: MX02K1CF 0.0E+00	1.55E-01 3.50E-01	mg/kg 3.50E-01	N/A (2.4)	N/A N/A	Report DB ID: MX02K1ER 1/28/13 03:36 p	Orig Sa DB ID: 9MX02K10 1/28/13 03:36 p	2.5039	g	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.
 rptSTLRchDupV5. MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 2.23 A2002

FORM II
BLANK RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Matrix: SOIL

SDG: J01683
 Report No.: 54381

Parameter	Result	Qual	Count	Total	MDL,	Rpt Unit, CRDL	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 3028032	7196_CR6		Work Order:	MX0WR1AA	Report DB ID:	MX0WR1AB					
HEXCHROME	1.55E-01	U	0.0E+00	1.55E-01	mg/kg	N/A	1.	1/28/13 11:30 a	2.5	g	
				1.55E-01		N/A					
Batch: 3028045	7196_CR6		Work Order:	MX04L1AA	Report DB ID:	MX04L1AB					
HEXCHROME	1.55E-01	U	0.0E+00	1.55E-01	mg/kg	N/A	1.	1/28/13 03:36 p	2.5	g	
				1.55E-01		N/A					
Batch: 3029045	7196_CR6		Work Order:	MX1DE1AA	Report DB ID:	MX1DE1AB					
HEXCHROME	1.55E-01	U	0.0E+00	1.55E-01	mg/kg	N/A	1.	1/29/13 11:30 a	2.5	g	
				1.55E-01		N/A					

No. of Results: 3 Comments:

TestAmerica MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchBlank U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda/Mdl. Total Uncert, CRDL, RDL or not identified by gamma scan software.
 V5.2.23 A2002

Date: 30-Jan-13

FORM II
LCS RESULTS

Lab Name: TestAmerica
Matrix: Soil

SDG: J01683
Report No. : 54381

Parameter	Result	Count	Total	Report	Expected	Recovery,	Analysis,	Aliquot	Primary
		Qual	Error (2 s)	Unit	Yield	Uncert	Prep Date	Size	Detector
Batch: 3028032 HEXCHROME	7196_CR6 1.78E+01	Work Order: MX0WR1AC 0.0E+00	1.55E-01 mg/kg	Report DB ID: MX0WR1AS N/A	1.90E+01	94%	1/28/13 11:30 a	2.5 g	
Batch: 3028045 HEXCHROME	7196_CR6 1.81E+01	Work Order: MX04L1AC 0.0E+00	1.55E-01 mg/kg	Report DB ID: MX04L1AS N/A	1.90E+01	95%	1/28/13 03:36 p	2.5 g	
Batch: 3028045 HEXCHROME	7196_CR6 1.80E+01	Work Order: MX1DE1AC 0.0E+00	1.55E-01 mg/kg	Report DB ID: MX1DE1AS N/A	1.90E+01	95%	1/29/13 11:30 a	2.5 g	

No. of Results: 3 **Comments:**

FORM II
MATRIX SPIKE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A280416-1, J1RCR8

SDG: J01683

Report No. : 54381

Matrix: SOIL

Parameter	SpikeResult, Orig Rst	Count	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Rec- over	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3028032	Work Order: MX0V71AL	Report DB ID: MX0V71CW	Orig Sa DB ID: 9mXCV710	0.0E+00	1.55E-01	mg/kg	N/A	86.16%	1/28/13 11:30 a	2.5244	7196_CR6
HEXCHROME	2.55E+01										
	2.82E-01									g	

Number of Results: 1

Comments:

TestAmerica	RER	- Replicate Error Ratio = $(S-D)/[\sqrt{(\sum(TPUs)^2)} - \sum(TPUs)]$ as defined by ICPT BOA.
rptSTLRchMs	Bias	- (Result/Expected)-1 as defined by ANSI N13.30.

V5.2.23 A2002

FORM II
MATRIX SPIKE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A280423-1, J1RCW0

SDG: J01683
 Report No. : 54381

Parameter	SpikeResult, Orig Rst	Count	Total	Rpt Unit, CRDL	Rec- over	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3028045	Work Order: MX02K1CE	Report DB ID: MX02K1CW	0.0E+00	1.55E-01	mg/kg	Orig Sa DB ID: 9MX02K10	87.75%	2.96E+01	1/28/13 03:36 p
HEXCHROME	2.60E+01			N/A				2.5021	7196_CR6
	3.26E-01							g	

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = $(S-D)/[\sqrt{sq(TPU_s)+sq(TPU_d)}]$ as defined by ICPT BOA.
 rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 V5.2.23 A2002

FORM II
MATRIX SPIKE RESULTS

Date: 30-Jan-13

Lab Name: TestAmerica
 Lot-Sample No.: J3A290406-1, J1R9D5

SDG: J01683
 Report No. : 54381

Parameter	SpikeResult, Orig Rst	Count	Total Uncert(2 s)	MDCMDA	Rpt Unit, CRDL	Rec- over	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 3029045	Work Order: MX1AT1AL		Report DB ID: MX1AT1CW		Orig Sa DB ID: 9MX1AT10					
HEXCHROME	1.55E+01	0.0E+00	1.55E-01	mg/kg	N/A	51.61%	3.01E+01	1/29/13 11:30 a	2.5045	7196_CR6
	2.29E-01								g	

Number of Results: 1

Comments:

TestAmerica	RER	-Replicate Error Ratio = $(S-D)/[\sqrt{sq(TPUS)+sq(TPUd)}]$ as defined by ICPT BOA.
rpSTLRchMs V5.2.23 A2002	Bias	-(Result/Expected)-1 as defined by ANSI N13.30.

Matrix	Result	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits	SReporting_Limits	Uncertainty_1s	Analyzed	sAnalyzeDecision	level_lc	LCSReco	AdderAnalysis	date_time	Batch_nbr	Test_MetLab_sample_id
SOIL	CS	7440-22-4	Ag	-1.21E-01	U	UGG	1.00E-01	1.00E-01	1.40E-01	0.2497 G	1.12E-01	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	1.65E+00	U	UGG	1.00E-01	1.00E-01	4.80E-01	0.2497 G	3.97E-01	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-39-3	Ba	7.68E-01	U	UGG	2.00E-00	2.00E-00	3.80E-01	0.2497 G	3.11E-01	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	2.21E-01	U	UGG	1.00E-01	1.00E-01	4.70E-03	0.2497 G	3.87E-03	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Cadmium	1.22E-01	U	UGG	2.00E-00	2.00E-00	3.40E-02	0.2497 G	2.79E-02	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-47-3	Chromium	8.83E-00	U	UGG	1.00E-01	1.00E-01	9.91E-01	0.2497 G	1.03E-01	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7439-92-1	Lead	1.31E+00	U	UGG	1.00E-01	1.00E-01	2.00E-01	0.2497 G	1.67E-01	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-4.97E-01	U	UGG	1.00E-01	1.00E-01	7.20E-01	0.2497 G	5.98E-01	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-22-4	Ag	-8.70E-02	U	UGG	9.90E-00	9.90E-00	2.40E-01	0.2524 G	2.01E-01	1/28/2013 16:51	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	1.31E+00	U	UGG	9.90E-00	9.90E-00	5.50E-01	0.2524 G	4.56E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-39-3	Ba	5.38E+01	U	UGG	1.98E-00	1.98E-00	6.60E-01	0.2524 G	5.41E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	1.93E-01	U	UGG	9.90E-02	9.90E-02	1.40E-03	0.2524 G	1.15E-03	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Cadmium	1.33E-01	U	UGG	1.98E-00	1.98E-00	1.10E-01	0.2524 G	8.78E-03	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-47-3	Chromium	1.11E+01	U	UGG	9.90E-00	9.90E-00	1.10E-01	0.2524 G	1.69E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7439-92-1	Lead	2.96E+08	U	UGG	9.90E-00	9.90E-00	3.01E-01	0.2524 G	3.34E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-5.54E-01	U	UGG	9.90E-00	9.90E-00	5.00E-01	0.2524 G	4.13E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-22-4	Ag	-1.58E-01	U	UGG	1.00E-01	1.00E-01	1.50E-01	0.2492 G	1.22E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	1.48E+00	U	UGG	1.00E-01	1.00E-01	4.80E-01	0.2492 G	3.94E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-39-3	Ba	5.91E+01	U	UGG	2.01E+00	2.01E+00	1.60E-01	0.2492 G	1.33E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	2.06E-01	U	UGG	1.00E-01	1.00E-01	9.10E-02	0.2492 G	9.12E-03	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Cadmium	1.32E-01	U	UGG	2.00E-00	2.00E-00	1.10E-02	0.2492 G	1.59E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-47-3	Chromium	9.50E+00	U	UGG	1.00E-01	1.00E-01	1.60E-01	0.2492 G	1.28E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7439-92-1	Lead	4.50E-01	U	UGG	9.90E-00	9.90E-00	3.50E-01	0.2492 G	2.92E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-1.27E-02	U	UGG	1.00E-01	1.00E-01	1.10E-01	0.2492 G	9.48E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-22-4	Ag	-1.27E-02	U	UGG	1.00E-01	1.00E-01	3.20E-01	0.2492 G	2.60E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-4.33E-01	U	UGG	1.00E-01	1.00E-01	1.50E-01	0.2492 G	1.23E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	9.45E+01	U	UGG	2.00E-00	2.00E-00	1.00E-01	0.2492 G	1.06E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	2.18E-01	U	UGG	1.00E-01	1.00E-01	2.00E-00	0.2492 G	3.49E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Cadmium	1.40E-01	U	UGG	2.00E-00	2.00E-00	4.50E-02	0.2492 G	3.70E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-47-3	Chromium	1.79E+00	U	UGG	1.00E-01	1.00E-01	1.30E-01	0.2492 G	1.06E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7439-92-1	Lead	1.72E+00	U	UGG	1.00E-01	1.00E-01	3.20E-02	0.2492 G	2.63E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-9.44E-02	U	UGG	1.00E-01	1.00E-01	7.70E-01	0.2492 G	9.58E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	2.25E+00	U	UGG	1.00E-01	1.00E-01	4.20E-01	0.2492 G	3.49E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-39-3	Ba	6.10E+01	U	UGG	2.00E-00	2.00E-00	2.60E-01	0.2492 G	2.17E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	2.08E-01	U	UGG	1.00E-01	1.00E-01	2.90E-01	0.2492 G	2.39E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Cadmium	1.34E-01	U	UGG	2.00E-00	2.00E-00	2.50E-02	0.2492 G	2.08E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-47-3	Chromium	1.34E-01	U	UGG	1.00E-01	1.00E-01	3.80E-01	0.2492 G	3.15E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7439-92-1	Lead	3.07E+00	U	UGG	1.00E-01	1.00E-01	1.60E-01	0.2492 G	1.31E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-4.20E-01	U	UGG	1.00E-01	1.00E-01	6.10E-01	0.2492 G	5.00E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-22-4	Ag	-4.36E-02	U	UGG	1.00E-01	1.00E-01	1.60E-01	0.2492 G	1.33E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	2.13E+00	U	UGG	1.00E-01	1.00E-01	2.50E-01	0.2492 G	2.39E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-39-3	Ba	6.49E+01	U	UGG	2.00E-00	2.00E-00	3.50E-01	0.2492 G	2.87E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	1.38E-01	U	UGG	1.00E-01	1.00E-01	2.50E-03	0.2492 G	2.03E-03	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Chromium	1.60E-01	U	UGG	2.00E-00	2.00E-00	5.50E-02	0.2492 G	4.56E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7439-92-1	Lead	4.20E-01	U	UGG	1.00E-01	1.00E-01	1.40E-01	0.2492 G	1.13E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-4.36E-02	U	UGG	1.00E-01	1.00E-01	2.49E-05	0.2492 G	3.55E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-22-4	Ag	-1.32E-02	U	UGG	1.00E-01	1.00E-01	3.20E-01	0.2492 G	2.62E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	1.32E+00	U	UGG	1.00E-01	1.00E-01	5.10E-02	0.2492 G	4.252E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-39-3	Ba	5.71E+01	U	UGG	2.00E-00	2.00E-00	5.00E-01	0.2492 G	4.13E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	1.36E-01	U	UGG	1.00E-01	1.00E-01	2.70E-02	0.2492 G	2.25E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Chromium	1.37E-01	U	UGG	1.00E-01	1.00E-01	9.97E-02	0.2492 G	6.68E-03	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7439-92-1	Lead	3.26E-01	U	UGG	1.00E-01	1.00E-01	4.30E-01	0.2492 G	3.55E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7782-49-2	Se	-5.37E-01	U	UGG	1.00E-01	1.00E-01	3.20E-01	0.2492 G	2.86E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-22-4	Ag	-2.44E-02	U	UGG	1.00E-01	1.00E-01	5.10E-02	0.2492 G	4.50E-02	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-38-2	As	5.73E-01	U	UGG	9.91E-00	9.91E-00	9.91E-00	0.2492 G	1.26E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-39-3	Ba	1.32E+00	U	UGG	9.91E-00	9.91E-00	1.30E-01	0.2492 G	1.10E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-41-7	Beryllium	1.11E-01	U	UGG	1.00E-01	1.00E-01	2.70E-02	0.2492 G	1.43E-01	1/28/2013 17:11	3028035 46DQ	MX0V7IA0			
SOIL	CS	7440-43-9	Chromium	1.19E-01	U	UGG	1.00E-01	1.00E-01	8.10E								

Matrix	Result	tCas_nbr	Parameter	Qualifier	Result	Qualifier	Units	Reporting_Limits_Reporting_Limits	Reporting_Limits_Reporting_Limits	Uncertainty_1s	Analyzed_AnalyzeDecision_Level_1c	LCSRecoAddAnalysis_date_time	Batch_nbr	Test_MetLab_sample_id
SOIL	CS	J1RC0-41-7	Beryllium		1.82E-01		UG/G	9.98E-02	9.98E-02	0.2502 G	1.20E-02	1/28/2013 17:54	3028035 46DQ	MX0W/G/AA
SOIL	CS	J1RC0-43-9	Cadmium		1.54E-01	U	UG/G	2.00E-00	2.00E-00	5.90E-02	0.2502 G	1/28/2013 17:54	3028035 46DQ	MX0W/G/AA
SOIL	CS	J1RC0-47-3	Chromium		1.39E-01		UG/G	9.99E-00	9.99E-00	5.80E-01	0.2502 G	1/28/2013 17:54	3028035 46DQ	MX0W/G/AA
SOIL	CS	J1RC0-49-2	Lead		1.38E-01	U	UG/G	9.98E+00	9.98E+00	2.20E-01	0.2502 G	1/28/2013 17:54	3028035 46DQ	MX0W/G/AA
SOIL	CS	J1RC0-52-2	Se		-6.61E-01	U	UG/G	9.98E+00	9.98E+00	2.80E-00	0.2502 G	1/28/2013 17:54	3028035 46DQ	MX0W/G/AA
SOIL	CS	J1RC0-22-4	Ag		-1.40E-01	U	UG/G	1.01E-01	1.01E-01	2.40E-01	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	As		-5.60E-01	U	UG/G	1.01E-01	1.01E-01	2.70E-01	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Ba		5.36E-01		UG/G	1.01E-00	2.01E-00	2.30E-01	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-41-7	Beryllium		1.79E-01		UG/G	1.01E-01	1.01E-01	1.00E-02	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		1.34E-01	U	UG/G	2.01E-00	2.01E-00	4.00E-01	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		1.32E-01		UG/G	1.01E-01	1.01E-01	1.30E-01	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		3.43E-00	U	UG/G	1.01E-01	1.01E-01	4.50E-01	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	Se		-5.60E-01	U	UG/G	1.01E-01	1.01E-01	4.90E-01	0.2486 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	As		-1.38E-01	U	UG/G	1.01E-00	2.00E-01	1.00E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Ba		1.39E-00	U	UG/G	1.01E-01	1.01E-01	4.60E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		6.37E-01		UG/G	2.02E-00	2.02E-00	6.10E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Cadmium		2.05E-01		UG/G	1.01E-01	1.01E-01	9.60E-03	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		7.44E-01		UG/G	1.01E-01	1.01E-01	4.50E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	As		1.51E-01	U	UG/G	2.02E-00	2.02E-00	1.60E-00	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	Chromium		1.08E-01		UG/G	1.01E-01	1.01E-01	2.10E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Lead		2.39E-01		UG/G	1.01E-01	1.01E-01	1.40E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		8.62E-01		UG/G	1.01E-01	1.01E-01	9.93E-00	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		4.38E-01		UG/G	2.00E-00	2.00E-00	9.93E-00	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		4.38E-01		UG/G	2.00E-00	2.00E-00	9.93E-00	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		6.31E-00	U	UG/G	1.01E-01	1.01E-01	2.70E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	As		6.49E-01		UG/G	1.01E-01	1.01E-01	2.80E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	Chromium		7.44E-01		UG/G	1.01E-01	1.01E-01	9.93E-02	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Lead		1.46E-01		UG/G	1.01E-00	2.00E-01	1.30E-02	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		8.22E-00		UG/G	1.01E-01	1.01E-01	9.93E-00	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		4.38E-01		UG/G	2.00E-00	2.00E-00	9.93E-00	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		7.44E-01		UG/G	1.01E-01	1.01E-01	1.70E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		7.82E-01		UG/G	1.01E-01	1.01E-01	1.25E-01	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	As		4.98E-01		UG/G	1.01E-01	1.01E-01	9.93E-00	0.2473 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	Chromium		7.44E-01		UG/G	1.01E-01	1.01E-01	2.60E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Lead		1.12E-01		UG/G	1.01E-00	2.00E-01	1.90E-02	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		2.18E-01		UG/G	1.01E-01	1.01E-01	9.93E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		5.89E-01		UG/G	2.00E-00	2.00E-00	9.93E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		1.34E-01		UG/G	2.00E-00	2.00E-00	9.93E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		7.82E-01		UG/G	1.01E-01	1.01E-01	1.80E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	As		1.32E-01		UG/G	1.01E-01	1.01E-01	1.00E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	Chromium		6.12E-01		UG/G	1.01E-01	1.01E-01	2.10E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Lead		9.38E-01		UG/G	1.01E-01	1.01E-01	9.93E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		1.18E-00		UG/G	2.00E-00	2.00E-00	9.93E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		1.35E-01		UG/G	2.00E-00	2.00E-00	9.93E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		5.73E-00		UG/G	1.01E-01	1.01E-01	1.50E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		1.72E-01		UG/G	1.01E-01	1.01E-01	3.20E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	As		6.27E-01		UG/G	1.01E-01	1.01E-01	3.50E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	Chromium		5.89E-01		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Lead		1.38E-01		UG/G	1.01E-01	1.01E-01	7.47E-03	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		8.62E-01		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		1.08E-01		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		6.08E-00		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		1.18E-00		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	As		7.44E-01		UG/G	1.01E-01	1.01E-01	1.97E-02	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	Chromium		5.53E-01		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Lead		1.22E-01		UG/G	1.01E-01	1.01E-01	2.40E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		8.62E-01		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		1.08E-00		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		6.18E-00		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		1.18E-00		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-52-2	As		7.44E-01		UG/G	1.01E-01	1.01E-01	1.97E-02	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-38-2	Chromium		5.53E-01		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-39-3	Lead		1.22E-01		UG/G	1.01E-01	1.01E-01	2.40E-01	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-40-9	Beryllium		8.62E-01		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-43-9	Cadmium		1.08E-00		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-47-3	Chromium		6.08E-00		UG/G	2.02E-00	2.02E-00	9.97E-00	0.2501 G	1/28/2013 17:54	3028035 46DQ	MX0W/H/AA
SOIL	CS	J1RC0-49-2	Lead		1.18E-00		UG/G	2.02E-0						

OK
OK
OK

Client_id	Matrix	Result.tCas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits	Reporting_Limits_Reporting_Limits	Uncertainty_1s	Analyzed_AnalyzeDecision_Level	LC	LCSReco/AddAnalysis_date_time	Batch_nbr	Test_MethLab_sample_id	
J1RCR8 DUP	SOIL DUP	7439-92-1	Lead	3.96E+00	U	UG/G	9.98E+00	9.98E+00	0.2511 G	2.63E-01	0.2511 G	1/28/2013 17:06	3028035 46DQ	MX0V71A0	
J1RCR8 DUP	SOIL DUP	7782-49-2	Se	-7.85E-01	U	UG/G	9.98E-00	9.98E-00	6.70E-01	5.50E-01	1/28/2013 17:06	3028035 46DQ	MX0V71A0		
J1RCR8	SOIL MS	7440-22-4	Ag	1.30E-02	% REC	% REC	9.94E-00	9.94E-00	0.2514 L	3.12E-01	1/28/2013 16:56	3028035 46DQ	MX0V71A0		
J1RCR8	SOIL MS	7440-38-2	As	1.77E-02	% REC	% REC	9.94E+00	9.94E+00	7.90E-01	6.53E-01	1/28/2013 16:56	3028035 46DQ	MX0V71A0		
J1RCR8	SOIL MS	7440-39-3	Ba	1.38E-02	% REC	% REC	1.99E+00	1.99E+00	5.10E-00	0.2514 L	4.16E-00	0.95 199	1/28/2013 16:56	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MS	7440-41-7	Beryllium	1.92E-02	% REC	% REC	9.94E-02	9.94E-02	2.30E-00	0.2514 L	1.88E+00	0.91 199	1/28/2013 16:56	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MS	7440-43-9	Cadmium	1.74E-02	% REC	% REC	1.99E+00	1.99E+00	2.90E-01	0.2514 L	2.37E-01	0.87 199	1/28/2013 16:56	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MS	7440-47-3	Chromium	1.30E-02	% REC	% REC	9.94E+00	9.94E+00	2.70E-00	0.2514 L	2.22E+00	0.9 199	1/28/2013 16:56	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MS	7439-92-1	Lead	1.70E-02	% REC	% REC	9.94E+00	9.94E+00	3.40E-01	0.2514 L	2.76E-01	0.86 199	1/28/2013 16:56	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MS	7782-49-2	Se	1.53E-02	% REC	% REC	9.94E+00	9.94E+00	1.00E-00	0.2514 L	8.49E-01	0.82 199	1/28/2013 16:56	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7440-22-4	Ag	1.72E-02	% REC	% REC	9.88E+00	9.88E+00	1.50E-00	0.2535 L	1.23E+00	0.87 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7440-38-2	As	1.71E-02	% REC	% REC	9.88E+00	9.88E+00	1.10E+00	0.2535 L	8.97E-01	0.87 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7440-39-3	Ba	1.56E-02	% REC	% REC	1.97E+00	1.97E+00	5.00E+00	0.2535 L	4.12E+00	0.84 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7440-41-7	Beryllium	1.73E-02	% REC	% REC	9.86E-02	9.86E-02	2.60E+00	0.2535 L	2.13E+00	0.86 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7440-43-9	Cadmium	1.36E-02	% REC	% REC	1.97E+00	1.97E+00	1.20E+01	0.2535 L	9.78E-02	0.84 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7440-47-3	Chromium	1.70E-02	% REC	% REC	9.88E+00	9.88E+00	2.10E+00	0.2535 L	1.68E+00	0.86 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7439-92-1	Lead	1.64E-02	% REC	% REC	9.88E+00	9.88E+00	1.30E+00	0.2535 L	1.11E+00	0.83 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0
J1RCR8	SOIL MSD	7782-49-2	Se	1.57E+02	% REC	% REC	9.88E+00	9.88E+00	8.40E-01	0.2535 L	6.94E-01	0.8 197	1/28/2013 17:01	3028035 46DQ	MX0V71A0

Client_id	Result_Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Se	Reporting_Limits_Uncertainty_1s	Analyzed_AnalyzeDate/Analysis_Level_Ic	LCSReccAdd/Analysis_date_time	Batch_nbr	Test_MetLab_sample_id
J1RCW0	7440-22-4	Ag	8.6E-01	U	UG/G	9.94E+00	9.94E+00	1/28/2013 21:46	30280444 46DQ	MX02K1A0	6.84E-02
SOIL CS	7440-38-2	As	8.81E-01	U	UG/G	9.94E+00	9.94E+00	5.60E-01	30280444 46DQ	MX02K1A0	4.63E-01
SOIL CS	7440-39-3	Ba	6.67E+01	UG/G	1.99E+00	1.99E+00	7.50E-01	0.2515 G	MX02K1A0	6.14E-01	
SOIL CS	7440-41-7	Beryllium	1.90E-01	UG/G	9.94E-02	1.98E-02	2.40E-03	0.2515 G	MX02K1A0	2.50E-03	
SOIL CS	7440-43-9	Cadmium	1.15E+01	UG/G	1.98E+00	1.99E+00	1.90E-02	0.2515 G	MX02K1A0	1.59E-02	
SOIL CS	7440-47-3	Chromium	5.13E+00	UG/G	9.94E+00	9.94E+00	7.90E-02	0.2515 G	MX02K1A0	6.53E-02	
SOIL CS	7449-92-1	Lead	2.64E+00	UG/G	9.94E+00	9.94E+00	4.00E-01	0.2515 G	MX02K1A0	3.27E-01	
SOIL CS	7782-49-2	Se	5.82E-01	UG/G	9.94E+00	9.94E+00	1.10E+00	0.2515 G	MX02K1A0	9.35E-01	
SOIL CS	7782-49-2	Ag	-1.55E-01	UG/G	1.00E+01	1.00E+01	1.70E-01	0.2492 G	MX02L1A0	1.41E-01	
SOIL CS	7440-38-2	As	1.01E+00	UG/G	1.00E-01	1.00E-01	1.60E-01	0.2492 G	MX02L1A0	1.33E-01	
SOIL CS	7440-39-3	Ba	6.32E+01	UG/G	2.01E+00	2.01E+00	4.70E-01	0.2492 G	MX02L1A0	3.83E-01	
SOIL CS	7440-41-7	Beryllium	1.99E-01	UG/G	1.00E-01	1.00E-01	1.10E-02	0.2492 G	MX02L1A0	9.01E-03	
SOIL CS	7440-43-9	Cadmium	1.33E-01	UG/G	2.01E-00	2.01E-00	5.20E-02	0.2492 G	MX02L1A0	4.25E-02	
SOIL CS	7440-47-3	Chromium	5.78E+00	UG/G	1.00E+01	1.00E+01	6.40E-02	0.2492 G	MX02L1A0	5.23E-02	
SOIL CS	7449-92-1	Lead	2.81E+00	UG/G	1.00E-01	1.00E-01	2.30E-01	0.2492 G	MX02L1A0	1.88E-01	
SOIL CS	7782-49-2	Se	5.01E-01	UG/G	1.00E-01	1.00E-01	5.40E-01	0.2492 G	MX02L1A0	4.48E-01	
SOIL CS	7440-22-4	Ag	-1.1E-01	UG/G	9.99E+00	9.99E+00	1.50E-01	0.2492 G	MX02L1A0	1.23E-01	
SOIL CS	7440-38-2	As	9.66E-01	UG/G	9.99E+00	9.99E+00	3.10E-01	0.2492 G	MX02L1A0	2.58E-01	
SOIL CS	7440-39-3	Ba	7.86E+01	UG/G	2.00E+00	2.00E+00	1.70E-01	0.2503 G	MX02M1A0	9.17E-01	
SOIL CS	7440-41-7	Beryllium	2.13E-01	UG/G	9.99E-02	9.99E-02	3.30E-03	0.2503 G	MX02M1A0	2.75E-03	
SOIL CS	7440-43-9	Cadmium	1.58E-01	UG/G	2.00E+00	2.00E+00	2.20E-02	0.2503 G	MX02M1A0	1.83E-02	
SOIL CS	7440-47-3	Chromium	6.79E+00	UG/G	9.99E+00	9.99E+00	1.40E-01	0.2503 G	MX02M1A0	9.19E-01	
SOIL CS	7782-49-2	Lead	5.01E-01	UG/G	9.99E+00	9.99E+00	2.80E-01	0.2503 G	MX02M1A0	2.29E-01	
SOIL CS	7782-49-2	Se	-7.24E-01	UG/G	9.99E+00	9.99E+00	2.80E-01	0.2503 G	MX02M1A0	2.28E-01	
BLK	7440-22-4	Ag	1.10E-03	U	MG/L	5.00E-02	5.00E-02	6.70E-04	0.2498 L	MX02M1A0	5.53E-04
BLK	7440-38-2	As	-1.03E-03	U	MG/L	5.00E-02	5.00E-02	1.80E-03	0.2498 L	MX02M1A0	1.41E-03
BLK	7440-39-3	Ba	8.74E-06	U	MG/L	1.00E-02	1.00E-02	4.40E-05	0.2498 L	MX02M1A0	3.61E-05
BLK	7440-41-7	Beryllium	1.65E-05	U	MG/L	5.00E-04	5.00E-04	1.20E-05	0.2498 L	MX02M1A0	9.74E-06
BLK	7440-43-9	Cadmium	3.52E-04	U	MG/L	1.00E-02	1.00E-02	4.00E-04	0.2498 L	MX02M1A0	1.08E-04
BLK	7440-47-3	Chromium	-1.86E-04	U	MG/L	5.00E-02	5.00E-02	2.80E-04	0.2498 L	MX02M1A0	2.30E-04
BLK	7449-92-1	Lead	5.46E-05	U	MG/L	5.00E-02	5.00E-02	1.70E-03	0.2498 L	MX02M1A0	1.41E-03
BLK	7782-49-2	Se	-9.89E-04	U	MG/L	5.00E-02	5.00E-02	1.80E-03	0.2498 L	MX02M1A0	1.48E-03
LCS	7440-22-4	Ag	9.33E-06	U	MG/L	5.00E-02	5.00E-02	2.00E-03	0.2514 L	MX02M1A0	8.07E-03
LCS	7440-38-2	As	8.44E-01	U	MG/L	5.00E-02	5.00E-02	2.00E-03	0.2514 L	MX02M1A0	6.59E-03
LCS	7440-41-7	Beryllium	1.73E-01	U	MG/L	1.00E-02	1.00E-02	2.05E-03	0.2514 L	MX02M1A0	5.20E-03
LCS	7440-43-9	Cadmium	-1.86E-04	U	MG/L	5.00E-02	5.00E-02	2.00E-03	0.2514 L	MX02M1A0	2.23E-03
LCS	7440-47-3	Chromium	9.79E-01	U	MG/L	1.00E-02	1.00E-02	6.00E-03	0.2514 L	MX02M1A0	4.93E-03
LCS	7449-92-1	Lead	7.78E-02	U	MG/L	5.00E-04	5.00E-04	4.80E-05	0.2514 L	MX02M1A0	3.95E-03
LCS	7782-49-2	Se	3.92E-01	U	MG/L	5.00E-02	5.00E-02	8.90E-04	0.2514 L	MX02M1A0	7.31E-04
LCS	7782-49-2	Ag	1.40E-01	U	MG/L	5.00E-02	5.00E-02	9.80E-03	0.2514 L	MX02M1A0	8.07E-03
LCS	7782-49-2	As	8.44E-01	U	MG/L	5.00E-02	5.00E-02	8.00E-03	0.2514 L	MX02M1A0	6.59E-03
LCS	7782-49-2	Beryllium	-2.79E-01	U	MG/L	5.00E-02	5.00E-02	5.00E-02	0.2514 L	MX02M1A0	5.20E-03
DUP	7440-39-3	Ba	3.06E-01	U	UG/G	1.00E-02	1.00E-02	6.00E-03	0.2514 L	MX02M1A0	1.07E-01
DUP	7440-41-7	Beryllium	9.28E-01	U	UG/G	1.00E-02	1.00E-02	4.80E-03	0.2514 L	MX02M1A0	3.95E-03
DUP	7440-43-9	Cadmium	8.92E-01	U	UG/G	1.00E-02	1.00E-02	1.00E-03	0.2514 L	MX02M1A0	7.31E-04
DUP	7440-47-3	Chromium	9.44E-01	U	UG/G	1.00E-02	1.00E-02	9.80E-03	0.2514 L	MX02M1A0	8.07E-03
DUP	7449-92-1	Lead	9.16E-01	U	UG/G	1.00E-02	1.00E-02	8.00E-03	0.2514 L	MX02M1A0	6.59E-03
DUP	7782-49-2	Se	8.44E-01	U	UG/G	1.00E-02	1.00E-02	5.20E-03	0.2514 L	MX02M1A0	5.20E-03
DUP	7782-49-2	Ag	-2.79E-01	U	UG/G	1.00E-01	1.00E-01	2.70E-01	0.2495 G	MX02M1A0	4.67E-01
DUP	7782-49-2	As	3.06E-01	U	UG/G	1.00E-01	1.00E-01	5.70E-01	0.2495 G	MX02M1A0	1.70E-01
DUP	7782-49-2	Beryllium	9.40E-01	U	UG/G	1.00E-01	1.00E-01	4.20E-01	0.2495 G	MX02M1A0	8.78E-01
DUP	7782-49-2	Cadmium	1.87E-01	U	UG/G	1.00E-01	1.00E-01	4.00E-02	0.2495 G	MX02M1A0	1.34E+00
DUP	7782-49-2	Chromium	1.25E-01	U	UG/G	2.02E+00	2.02E+00	3.60E+00	0.2495 G	MX02M1A0	3.01E+02
DUP	7782-49-2	Lead	1.45E-01	U	UG/G	1.00E-01	1.00E-01	1.20E+00	0.2495 G	MX02M1A0	1.02E+00
DUP	7782-49-2	Se	2.20E-01	U	UG/G	1.00E-01	1.00E-01	4.05E+00	0.2495 G	MX02M1A0	1.45E+01
DUP	7782-49-2	Beryllium	1.87E-02	U	UG/G	2.02E+00	2.02E+00	5.50E+00	0.2495 G	MX02M1A0	3.85E-01
DUP	7782-49-2	Cadmium	1.84E-02	U	UG/G	2.02E+00	2.02E+00	5.05E+00	0.2495 G	MX02M1A0	1.28E+00
DUP	7782-49-2	Chromium	1.77E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	7.43E-01
DUP	7782-49-2	Lead	1.77E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Se	1.77E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Beryllium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Cadmium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Chromium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Lead	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Se	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Beryllium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Cadmium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Chromium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Lead	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Se	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Beryllium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Cadmium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Chromium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Lead	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Se	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Beryllium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Cadmium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Chromium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Lead	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Se	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Beryllium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Cadmium	1.75E-02	U	UG/G	2.02E+00	2.02E+00	4.24E+00	0.2495 G	MX02M1A0	1.70E+00
DUP	7782-49-2	Ch									

Client_id	Matrix	Result_Icas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_S	Reporting_Limits_U	Uncertainty_1s	Analyzed_s	AnalyzerDecision_level	LCSRecdAddedAnalysis_date_time	Batch_nbr	Test_MtLab_sample_id
J1R9D5	SOIL CS	7440-22-4	Ag	-5.19E-01	U	UGG	9.97E+00	9.95E+00	9.50E-02	7.84E-02	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7440-38-2	As	1.34E+00	U	UGG	9.97E+00	9.97E+00	2.25E-01	2.20E-01	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7440-39-3	Ba	5.43E+01	U	UGG	1.98E+00	1.98E+00	1.70E-01	1.70E-01	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7440-41-7	Beryllium	2.25E-01	U	UGG	9.97E-02	9.97E-02	2.00E-02	1.62E-02	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7440-43-9	Cadmium	8.10E-02	U	UGG	1.98E+00	1.98E+00	4.20E-02	4.20E-02	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7440-47-3	Chromium	5.21E+00	U	UGG	9.97E+00	9.97E+00	2.00E-01	2.00E-01	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7439-92-1	Lead	2.73E+00	U	UGG	9.97E+00	9.97E+00	4.20E-01	3.42E-01	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7439-92-1	Se	-1.91E+01	U	UGG	9.97E+00	9.97E+00	4.90E-01	4.25E-01	0.2507 G	1/29/2013 17:23	3029046 46DQ	MX1A1T1A0
J1R9D5	SOIL CS	7440-22-4	Ag	-3.94E-01	U	UGG	1.00E+01	1.00E+01	1.90E-01	1.2491 G	3029046 46DQ	MX1A1V1AA		
J1R9D6	SOIL CS	7440-38-2	As	1.00E+01	U	UGG	1.00E+01	1.00E+01	1.90E-01	1.2491 G	3029046 46DQ	MX1A1V1AA		
J1R9D6	SOIL CS	7440-39-3	Ba	5.35E+01	U	UGG	2.01E+00	2.01E+00	7.40E-01	7.40E-01	0.2491 G	1/29/2013 17:42	3029046 46DQ	MX1A1V1AA
J1R9D6	SOIL CS	7440-41-7	Beryllium	1.76E-01	U	UGG	1.00E+01	1.00E+01	6.80E-03	6.80E-03	0.2491 G	1/29/2013 17:42	3029046 46DQ	MX1A1V1AA
J1R9D6	SOIL CS	7440-43-9	Cadmium	1.05E+01	U	UGG	2.01E+00	2.01E+00	4.00E-02	4.00E-02	0.2491 G	1/29/2013 17:42	3029046 46DQ	MX1A1V1AA
J1R9D6	SOIL CS	7440-47-3	Chromium	4.76E+00	U	UGG	1.00E+01	1.00E+01	2.00E-01	2.00E-01	0.2491 G	1/29/2013 17:42	3029046 46DQ	MX1A1V1AA
J1R9D6	SOIL CS	7439-92-1	Lead	2.68E+00	U	UGG	1.00E+01	1.00E+01	2.40E-02	1.2491 G	3029046 46DQ	MX1A1V1AA		
J1R9D6	SOIL CS	7440-49-2	Se	7.71E-01	U	UGG	1.00E+01	1.00E+01	9.10E-01	1.2491 G	3029046 46DQ	MX1A1V1AA		
J1R9D6	SOIL BLK	7440-22-4	Ag	-6.90E-04	U	MGL	5.00E-02	5.00E-02	1.60E-03	1.2504 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL BLK	7440-38-2	As	-2.84E-04	U	MGL	5.00E-02	5.00E-02	1.00E-03	1.2504 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL BLK	7440-39-3	Ba	1.75E-05	U	MGL	1.00E-02	1.00E-02	1.60E-05	1.2504 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL BLK	7440-41-7	Beryllium	-2.74E-05	U	MGL	5.00E-04	5.00E-04	7.30E-05	1.2504 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL BLK	7440-43-9	Cadmium	1.15E-04	U	MGL	1.00E-02	1.00E-02	6.30E-05	1.2504 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL BLK	7440-47-3	Chromium	1.22E-04	U	MGL	5.00E-04	5.00E-04	4.60E-04	1.2491 G	3029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL BLK	7439-92-1	Lead	4.68E-04	U	MGL	5.00E-02	5.00E-02	3.80E-04	1.2504 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL BLK	7782-49-2	Se	2.18E-04	U	MGL	5.00E-02	5.00E-02	1.10E-03	1.2504 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL LCS	7440-22-4	Ag	9.87E-01	U	MGL	5.00E-02	5.00E-02	1.00E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL LCS	7440-38-2	As	9.34E-01	U	MGL	5.00E-02	5.00E-02	7.20E-04	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL LCS	7440-39-3	Ba	1.01E+00	U	MGL	1.00E-02	1.00E-02	2.00E-02	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL LCS	7440-41-7	Beryllium	9.68E-01	U	MGL	5.00E-04	5.00E-04	2.80E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL LCS	7440-43-9	Chromium	9.19E-01	U	MGL	1.00E-02	1.00E-02	2.80E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL LCS	7782-49-2	Se	1.92E-01	U	MGL	5.00E-02	5.00E-02	1.2504 L	3.029046 46DQ	MX1D1G1AA			
J1R9D6	SOIL CHECK	7440-22-4	Ag	9.34E-01	U	MGL	5.00E-02	5.00E-02	3.50E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL CHECK	7440-38-2	As	4.46E-01	U	MGL	5.00E-02	5.00E-02	3.40E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL CHECK	7440-41-7	Beryllium	9.91E+00	U	UGG	9.91E+00	9.91E+00	1.20E-01	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL CHECK	7440-43-9	Chromium	9.96E+00	U	UGG	9.91E+00	9.91E+00	1.10E-01	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D6	SOIL CHECK	7782-49-2	Se	1.34E+00	U	UGG	1.98E+00	1.98E+00	6.30E-03	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-38-2	As	6.28E-03	U	MGL	1.00E-02	1.00E-02	2.50E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-41-7	Beryllium	1.39E-01	U	MGL	5.00E-02	5.00E-02	2.50E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-43-9	Chromium	9.98E-01	U	MGL	5.00E-02	5.00E-02	3.50E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7782-49-2	Se	1.22E-01	U	MGL	5.00E-02	5.00E-02	3.40E-03	1.2486 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-22-4	Ag	9.19E-01	U	UGG	9.91E-00	9.91E-00	1.20E-01	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-47-3	As	1.34E-01	U	UGG	9.96E-00	9.96E-00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-49-2	Ba	1.39E-01	U	UGG	9.97E-00	9.98E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-43-9	Cadmium	8.16E-02	U	UGG	9.91E-00	9.91E-00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7440-47-3	Chromium	5.68E+00	U	UGG	9.91E+00	9.91E+00	1.50E-01	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7439-92-1	Lead	2.72E+00	U	UGG	9.91E+00	9.91E+00	1.60E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL DUP	7782-49-2	Se	2.39E-01	U	UGG	9.91E+00	9.91E+00	1.60E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL MS	7440-22-4	Ag	1.24E-02	% REC	REC	9.96E+00	9.96E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL MS	7440-38-2	As	1.79E-02	% REC	REC	9.96E+00	9.96E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL MS	7440-41-7	Beryllium	1.91E-02	% REC	REC	9.96E+00	9.96E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL MS	7440-43-9	Cadmium	1.82E-02	% REC	REC	9.96E+00	9.96E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL MS	7440-47-3	Chromium	1.75E-02	% REC	REC	9.96E+00	9.96E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL MS	7439-92-1	Lead	1.82E-02	% REC	REC	9.96E+00	9.96E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	SOIL MS	7782-49-2	Se	1.63E-02	% REC	REC	9.96E+00	9.96E+00	1.20E+00	1.2523 G	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	MSD	7440-22-4	Ag	1.84E-02	% REC	REC	1.00E+01	1.00E+01	1.20E+00	1.2491 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	MSD	7440-38-2	As	1.79E-02	% REC	REC	1.00E+01	1.00E+01	1.20E+00	1.2491 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	MSD	7440-43-9	Beryllium	2.04E-02	% REC	REC	1.00E+01	1.00E+01	1.20E+00	1.2491 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	MSD	7440-47-3	Cadmium	1.93E-02	% REC	REC	1.00E+01	1.00E+01	1.20E+00	1.2491 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	MSD	7439-92-1	Lead	1.75E-02	% REC	REC	1.00E+01	1.00E+01	1.20E+00	1.2491 L	3.029046 46DQ	MX1D1G1AA		
J1R9D5 DUP	MSD	7782-49-2	Se	1.62E-02	% REC	REC	1.00E+01	1.00E+01	1.20E+00	1.2491 L	3.029046 46DQ	MX1D1G1AA		

1/12/2013

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s):	3028032	Lab Sample Numbers or SDG:	J01683	
Method/Test/Parameter:	Cr+6 <input type="checkbox"/> RL-WC-003(Aqueous) <input checked="" type="checkbox"/> RL-WC-004(Solid)			
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✗
2. Correlation coefficient greater than 0.97?	✓			✗
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within 10% of expected?	✓			✗
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✗
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within 10% of expected?	✓			✗
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✗
C. Sample Analysis			✓	✗
1. Were any samples with concentrations above the linear range diluted and reanalyzed?				✗
2. Were all sample holding times met?	✓			✗
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✗
2. LCS percent recovery within 85-115%	✓			✗
3. PbCrO ₄ percent recovery within 75-125%?	✓			✗
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓			✗
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?	✓			✗
6. On MS failure, PDMS within 85-115%?			✓	✗
E. Other			✓	✗
1. Are all nonconformances included and noted?				✗
2. Is the correct date and time of analysis shown?	✓			✗
3. Did the analyst sign and date the front page of the analytical run?	✓			✗
4. Correct methodology used?	✓			✗
5. Transcriptions checked?	✓			✗
6. Calculations checked at minimum frequency?	✓			✗
7. Units checked?	✓			✗

Comments on any "No" response or list NCM number:

Analyst

Date 1/29/13 2nd Review

Date 11/29/13

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s):	3028045	Lab Sample Numbers or SDG:	J01683	
Method/Test/Parameter: Cr+6 <input type="checkbox"/> RL-WC-003(Aqueous) <input checked="" type="checkbox"/> RL-WC-004(Solid)				
Review Item	Yes (✓)	No (✗)	N/A (✗)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✗
2. Correlation coefficient greater than 0.97?	✓			✗
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within 10% of expected?	✓			✗
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✗
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within 10% of expected?	✓			✗
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✗
C. Sample Analysis				
1. Were any samples with concentrations above the linear range diluted and reanalyzed?			✓	✗
2. Were all sample holding times met?	✓			✗
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✗
2. LCS percent recovery within 85-115%	✓			✗
3. PbCrO ₄ percent recovery within 75-125%?	✓			✗
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓			✗
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?	✓			✗
6. On MS failure, PDMS within 85-115%?			✓	✗
E. Other				
1. Are all nonconformances included and noted?			✓	✗
2. Is the correct date and time of analysis shown?	✓			✗
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✗
5. Transcriptions checked?	✓			✗
6. Calculations checked at minimum frequency?	✓			✗
7. Units checked?	✓			✗

Comments on any "No" response or list NCM number:

Analyst

Date 1/29/13

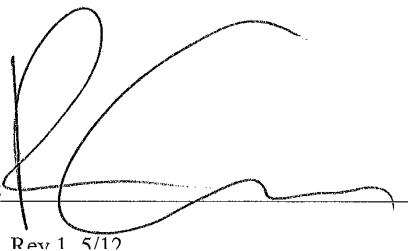
2nd Review

Date 1/29/13

**Richland Laboratory
Data Review Check List
Hexavalent Chromium**

Batch Number(s):	3029045	Lab Sample Numbers or SDG:	J01683	
Method/Test/Parameter: Cr+6 <input type="checkbox"/> RL-WC-003(Aqueous) <input checked="" type="checkbox"/> RL-WC-004(Solid)				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient greater than 0.97?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within 10% of expected?	✓			✓
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within 10% of expected?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis				
1. Were any samples with concentrations above the linear range diluted and reanalyzed?		✓		N/A
2. Were all sample holding times met?	✓			✓
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✓
2. LCS percent recovery within 85-115%	✓			✓
3. PbCrO ₄ percent recovery within 75-125%?	✓			✓
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓			✓
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?		✓		✓
6. On MS failure, PDMS within 85-115%?	✓			✓
E. Other				
1. Are all nonconformances included and noted?	✓			✓
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

Comments on any "No" response or list NCM number:


 Analyst Date 1/30/13 2nd Review 
 Date 1/30/13
 CG-231 Rev 1 5/12

Clouseau Nonconformance Memo



NCM #: **10-22660**
NCM Initiated By: Traci KROUPA
Date Opened: 01/29/2013
Date Closed:

Classification: **Deficiency**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: None
Lot #'s (Sample #'s): J3A290406 (1),
QC Batches: None.,

Nonconformance: Batch Result Out of Limits
Subcategory: MS/MSD result outside acceptance limits

Problem Description / Root Cause

Name	Date	Description
Traci KROUPA	01/29/2013	The matrix spike recovered low at 51.613%. A PDMS was performed and recovered within the acceptable range at 89.932%. The insoluble spike recovered within the acceptable limits at 95.789%. Sample MX1AT1AC/J1R9D5 may have a reducing capacity.

Corrective Action

Name	Date	Corrective Action
Traci KROUPA	01/29/2013	A PDMS was performed.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response		Response Note		

Quality Assurance Verification

Verified By	Due Date	Status	Notes
This section not yet completed by QA.			

Approval History

Date Approved Approved By Position

TK 1/29/13

Lot No., Due Date: J3A280416; 01/29/2013
 Client, Site: 127642; S00X235B00 HANFORD
 QC Batch No., Method Test: 3028035; M6010_S 6010A
 SDG, Matrix: J01683; SOIL

1.0 Initial Calibration

- 1.1 Performed at required frequency with required number of levels? Yes No N/A 2nd
- 1.2 Correlation coefficient within QC limits? Yes No N/A 2nd
- 1.3 Initial calibration verification (ICV) analyzed immediately after calibr. and results within QC limits of +/- 10% at 0.75 ppm? Yes No N/A 2nd
- 1.4 ICB analyzed immediately after ICV and concentration of all parameters +/- report limit from zero? RL per RadCalc. Yes No N/A 2nd

2.0 Continuing Calibration

- 2.1 CCV analyzed at required frequency and all parameters within QC limits or +/- 10% at 0.7500 ppm? Yes No N/A 2nd
- 2.2 CCB analyzed at required frequency and all results +/- reporting limit from zero? Yes No N/A 2nd

3.0 Sample Analysis

- 3.1 Were any samples with concentration above the linear range diluted and reanalyzed? Yes No N/A 2nd
- 3.2 Were all sample holding times met? Yes No N/A 2nd

4.0 QC Samples

- 4.1 All results for the preparation blank < reporting limits? Yes No N/A 2nd
- 4.2 MS or MS/MSD recoveries within 20% at 1 ppm and within 20% RPD (for MSD)? *(M.B.)* Yes No N/A 2nd *1/29/13*
- 4.3 LCS precent recovery within 20% at 1 ppm and 20% RPD (for LCSD)? Yes No N/A 2nd
- 4.4 Analytical spikes within QC limits where applicable? Yes No N/A 2nd
- 4.5 ICP only: One serial dilution performed and within 10% of parent per SDG? Yes No N/A 2nd
- 4.6 ICP only: RLV run per batch and within 20% of current values? Yes No N/A 2nd
- 4.7 ICP only: ICSA,ICSAB analyzed at the required frequencies and within 20% of values per dilution record? Yes No N/A 2nd

5.0 Other

- 5.1 Are all nonconformances included and noted? Yes No N/A 2nd *1/29/13*
- 5.2 Is the correct date and time of analysis shown? Yes No N/A 2nd
- 5.3 Did the analyst sign and date the digestion log for the analytical run? Yes No N/A 2nd
- 5.4 Correct methodology used? Yes No N/A 2nd
- 5.5 Transcriptions checked? Yes No N/A 2nd
- 5.6 Calculations checked at minimum frequency? Yes No N/A 2nd
- 5.7 Units checked? Yes No N/A 2nd
- 5.8 Verified that appropriate data transferred to ReportDB? Yes No N/A 2nd

6.0 Comments on any 'No' response:

First Level

BB

Date 01/29/13

Second

Phyllis Baugh

Date 1/28/13

TestAmerica Richland
QAS_RADCALCV4.8.58

Page 1

Clouseau Nonconformance Memo



NCM #: **10-22656**

NCM Initiated By: Philip Bouslaugh

Date Opened: 01/29/2013

Date Closed:

Classification: **Deficiency**

Status: **PMREVIEW**

Production Area: Classical Chemistry

Tests: 6010A

Lot #'s (Sample #'s): J3A280000 (35), J3A280416
(1,10,11,12,13,14,15,2,3,4,5,
6,7,8,9),

QC Batches: 3028035,

Nonconformance: Other (describe in detail)

Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Philip Bouslaugh	01/29/2013	Se was outside the acceptable recovery range for the matrix spike duplicate sample.

Corrective Action

Name	Date	Corrective Action
Philip Bouslaugh	01/29/2013	No action was taken. Data was submitted for client review.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
		Response		Response Note	

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position
---------------	-------------	----------

PRB

1/29/13

Lot No., Due Date: J3A280423; 01/29/2013
 Client, Site: 127642; S00X235B00 HANFORD
 QC Batch No., Method Test: 3028044; M6010_S 6010A
 SDG, Matrix: J01683; SOIL

1.0 Initial Calibration

- 1.1 Performed at required frequency with required number of levels? Yes No N/A 2nd
- 1.2 Correlation coefficient within QC limits? Yes No N/A 2nd
- 1.3 Initial calibration verification (ICV) analyzed immediately after calibr. and results within QC limits of +/- 10% at 0.75 ppm? Yes No N/A 2nd
- 1.4 ICB analyzed immediately after ICV and concentration of all parameters +/- report limit from zero? RL per RadCalc. Yes No N/A 2nd

2.0 Continuing Calibration

- 2.1 CCV analyzed at required frequency and all parameters within QC limits or +/- 10% at 0.7500 ppm? Yes No N/A 2nd
- 2.2 CCB analyzed at required frequency and all results +/- reporting limit from zero? Yes No N/A 2nd

3.0 Sample Analysis

- 3.1 Were any samples with concentration above the linear range diluted and reanalyzed? Yes No N/A 2nd
- 3.2 Were all sample holding times met? Yes No N/A 2nd

4.0 QC Samples

- 4.1 All results for the preparation blank < reporting limits? Yes No N/A 2nd
- 4.2 MS or MS/MSD recoveries within 20% at 1 ppm and within 20% RPD (for MSD)? Yes No N/A 2nd
- 4.3 LCS percent recovery within 20% at 1 ppm and 20% RPD (for LCSD)? Yes No N/A 2nd
- 4.4 Analytical spikes within QC limits where applicable? Yes No N/A 2nd
- 4.5 ICP only: One serial dilution performed and within 10% of parent per SDG? Yes No N/A 2nd
- 4.6 ICP only: RLV run per batch and within 20% of current values? Yes No N/A 2nd
- 4.7 ICP only: ICSA,ICSAB analyzed at the required frequencies and within 20% of values per dilution record? Yes No N/A 2nd

5.0 Other

- 5.1 Are all nonconformances included and noted? Yes No N/A 2nd
- 5.2 Is the correct date and time of analysis shown? Yes No N/A 2nd
- 5.3 Did the analyst sign and date the digestion log for the analytical run? Yes No N/A 2nd
- 5.4 Correct methodology used? Yes No N/A 2nd
- 5.5 Transcriptions checked? Yes No N/A 2nd
- 5.6 Calculations checked at minimum frequency? Yes No N/A 2nd
- 5.7 Units checked? Yes No N/A 2nd
- 5.8 Verified that appropriate data transferred to ReportDB? Yes No N/A 2nd

6.0 Comments on any 'No' response:

First Level *Philip Barth* Date 1/29/13 Second *PC* Date 1/29/13
 TestAmerica Richland /
 QAS_RADCALCV4.8.58

Lot No., Due Date: J3A290406; 01/30/2013
 Client, Site: 127642;
 QC Batch No., Method Test: 3029046; M6010_S 6010A
 SDG, Matrix: J016,63,,,; SOIL

1.0 Initial Calibration

- 1.1 Performed at required frequency with required number of levels? Yes No N/A 2nd
- 1.2 Correlation coefficient within QC limits? Yes No N/A 2nd
- 1.3 Initial calibration verification (ICV) analyzed immediately after calibr. and results within QC limits of +/- 10% at 0.75 ppm? Yes No N/A 2nd
- 1.4 ICB analyzed immediately after ICV and concentration of all parameters +/- report limit from zero? RL per RadCalc. Yes No N/A 2nd

2.0 Continuing Calibration

- 2.1 CCV analyzed at required frequency and all parameters within QC limits or +/- 10% at 0.7500 ppm? Yes No N/A 2nd
- 2.2 CCB analyzed at required frequency and all results +/- reporting limit from zero? Yes No N/A 2nd

3.0 Sample Analysis

- 3.1 Were any samples with concentration above the linear range diluted and reanalyzed? Yes No N/A 2nd
- 3.2 Were all sample holding times met? Yes No N/A 2nd

4.0 QC Samples

- 4.1 All results for the preparation blank < reporting limits? Yes No N/A 2nd
- 4.2 MS or MS/MSD recoveries within 20% at 1 ppm and within 20% RPD (for MSD)? Yes No N/A 2nd
- 4.3 LCS precent recovery within 20% at 1 ppm and 20% RPD (for LCSD)? Yes No N/A 2nd
- 4.4 Analytical spikes within QC limits where applicable? Yes No N/A 2nd
- 4.5 ICP only: One serial dilution performed and within 10% of parent per SDG? Yes No N/A 2nd
- 4.6 ICP only: RLV run per batch and within 20% of current values? Yes No N/A 2nd
- 4.7 ICP only: ICSA,ICSAB analyzed at the required frequencies and within 20% of values per dilution record? Yes No N/A 2nd

5.0 Other

- 5.1 Are all nonconformances included and noted? Yes No N/A 2nd
- 5.2 Is the correct date and time of analysis shown? Yes No N/A 2nd
- 5.3 Did the analyst sign and date the digestion log for the analytical run? Yes No N/A 2nd
- 5.4 Correct methodology used? Yes No N/A 2nd
- 5.5 Transcriptions checked? Yes No N/A 2nd
- 5.6 Calculations checked at minimum frequency? Yes No N/A 2nd
- 5.7 Units checked? Yes No N/A 2nd
- 5.8 Verified that appropriate data transferred to ReportDB? Yes No N/A 2nd

6.0 Comments on any 'No' response:

First Level

Date 01/29/13

Second

Date 1/30/13

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-454		Page 1 of 2		
Collector <i>R. Bell</i>	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator MESSNER, JH	Price Code 8L	SAF No. RC-074	Data Turnaround <i>2 days</i>				
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 In-Situ Potential ACL 18-30' bgs	Field Logbook No. EL-607-15	COA 0D10032600	Method of Shipment Hand Deliver						
Ice Chest No. N/A	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A								
Shipped To TestAmerica Incorporated, Richland										
POSSIBLE SAMPLE HAZARDS/REMARKS <i>None</i>										
Special Handling and/or Storage <i>Cool + Deg C</i>		Preservation G/P	Type of Container G/P	No. of Container(s) 1	Volume 125mL	125mL				
J3A280416 Due 1-29-13		See Item (1) in Special Instructions. Hex - 7196 - Quick Turn (Hexavalent Chromium)								
Sample No.	Matrix *	Sample Date <i>1/25/13</i>	Sample Time <i>1025</i>	✓	✓					
J1RCR8 <i>M XONN</i>	SOIL	<i>0906</i>	✓	✓						
J1RCR9 <i>M XONX</i>	SOIL	<i>1013</i>	✓	✓						
J1RCT0 <i>M XONX</i>	SOIL	<i>0911</i>	✓	✓						
J1RCT1 <i>M XONX</i>	SOIL	<i>0920</i>	✓	✓						
SPECIAL INSTRUCTIONS										
Relinquished By/Removed From <i>Mr. Russell Bell</i> Date/Time <i>1-23-13 1-25-13</i> Received By/Stored In <i>m Shankouch</i> Date/Time <i>1/25/13</i> Received By/Stored In <i>m Shankouch</i> Date/Time <i>1445</i> Received By/Stored In <i>1060 1A</i> Date/Time <i>1-28-13 0801</i> Received By/Stored In <i>A-Freier A-Freier</i> Date/Time <i>1-28-13 0845</i> Received By/Stored In Relinquished By/Removed From Relinquished By/Removed From Relinquished By/Removed From Relinquished By/Removed From										
<p><i>REVIEWED</i> <i>AM</i> <i>DATE 1-28-13</i></p> <p>Date/Time <i>1-28-13</i></p>										
LABORATORY SECTION	Received By Disposal Method	Title				Date/Time				
FINAL SAMPLE DISPOSITION		Disposed By				Date/Time				

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-454	Page 2 of 3
Collector Mike R. Stankovich	Company Contact John Kessner	Telephone No. 509-375-4688	Project Coordinator KESSENER, JH	Price Code 8L	Data Turnaround 1/2 Day
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proc	Sampling Location 100-D-100 In-Situ Potential ACL 18-30' bgs	SAF No. RC-074	Method of Shipment Hand Deliver	21 Days 84 hrs	
Ice Chest No. N/A	Field Logbook No. EL-1607-15	COA 0D10032600	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS None		Preservation G/P	Cool 4C G/P		
Special Handling and/or Storage Cool 4 Deg C		Type of Container No. of Container(s) 1			
J3A20011 501683 Due 1-30-13		Volume 125mL	125mL		
SAMPLE ANALYSIS		See Item(1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)		
Sample No.	Matrix*	Sample Date 1/25/13	Sample Time 0925		
JIRCT3 M N D	SOIL				
JIRCT4 M N D	SOIL				
JIRCT5 M N D	SOIL				
JIRCT6 M N D	SOIL				
JIRCT7 M N D	SOIL				
CHAIN OF POSSESSION		Sign/Print Names	SPECIAL INSTRUCTIONS		
Relinquished By/Removed From Mike R. Stankovich	Date/Time 1-25-13	Received By/Stored In Mike R. Stankovich	Date/Time 1-25-13	(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}	
Relinquished By/Removed From Mike R. Stankovich A. Fierer	Date/Time 1-25-13	Received By/Stored In Mike R. Stankovich A. Fierer	Date/Time 1-25-13	* Custodian unavailable to remove samples from controlled storage. Shipper removed samples, taking custody for shipment to lab.	
Relinquished By/Removed From A. Fierer	Date/Time 1-28-13	Received By/Stored In A. Fierer	Date/Time 1-28-13	** Correction made by A. Fierer via telecon	
Relinquished By/Removed From A. Fierer	Date/Time 1-28-13	Received By/Stored In A. Fierer	Date/Time 1-28-13	** Correction made by A. Fierer via telecon	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time		
LABORATORY SECTION	Received By		Title	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method			Date/Time	

WCH-EE-011

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-454		Page 3 of 3	
Collector <i>MR. R. A. L.</i>	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 81	Turnaround Data 1/25/13 21 Days 24 hrs				
Project Designation 100-D/DR Burial Grounds & Retaining Sites - Soil In-Proc	Sampling Location 100-D-100 In-Situ Potential ACL 18-30' bgs		SAF No. RC-074						
Ice Chest No. N/A	Field Logbook No. EL-1607-15	COA 0D1032600	Method of Shipment Hand Deliver						
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A	Preservation Cool 4C	Cool 4C						
POSSIBLE SAMPLE HAZARDS/REMARKS None		Type of Container G/P	G/P						
Special Handling and/or Storage Cool 4 Deg C		No. of Container(s) 1	1						
<i>JRCV01</i> JRCV01 SAMPLE ANALYSIS Due 1-28-13		Volume 125mL	125mL						
		See item(1) in Special Instructions: Hex - 7196 - Quick Turn (Hexavalent Chromium)							
Sample No. JIRCT8 M 40055	Matrix * SOIL	Sample Date 1/25/13	Sample Time 0926	✓	✓				
JIRCT9 M 4005K	SOIL	1/25/13	0932	✓	✓				
JIRCV0 M 4005L	SOIL	1/25/13	0915	✓	✓				
JIRCV1 M 4005M	SOIL	1/28/13	0921	✓	✓				
SPECIAL INSTRUCTIONS									
Relinquished By/Removed From <i>Mr. Brad M. Wolf</i> Date/Time 1/25/13 Received By/Stored In <i>MS Tankhouse</i> Date/Time 1/25/13									
Relinquished By/Removed From <i>Wolf</i> Date/Time 1/25/13 Received By/Stored In <i>MS Tankhouse</i> Date/Time 1/25/13									
Relinquished By/Removed From <i>1020 1A</i> Date/Time * Received By/Stored In <i>A. Fischer A. Fischer</i> Date/Time 1/25/13									
Relinquished By/Removed From <i>WICH</i> Date/Time 1-28-13 0801 Received By/Stored In <i>A. Fischer A. Fischer</i> Date/Time 1-28-13 0845									
Relinquished By/Removed From Date/Time Received By/Stored In Date/Time									
LABORATORY SECTION Disposal Method Title Date/Time Disposed By Date/Time									
FINAL SAMPLE DISPOSITION WCH-EE-011									

Project Coordinator
KESSNER, JH
SAF No.
RC-074



Turnaround Data
1/25/13
21 Days
24 hrs

Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)

* Custodian unavailable to remove samples

from controlled storage. Shipper removed samples, taking custody for shipment to lab.

1-28-13 0845
Received By/Stored In *MS Tankhouse* Date/Time 1-28-13 0845
Received By/Stored In *A. Fischer A. Fischer* Date/Time 1-28-13 0845
Received By/Stored In *A. Fischer A. Fischer* Date/Time 1-28-13 0845

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-438		Page 1 of 1	
Collector WR R. Schell	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code 8L	Days Turnaround 2 1/2 - 3 1/2 days	SAF No. RC-074	Method of Shipment Hand Deliver		
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 BCL SPA	Field Logbook No. EL-1607-15	COA 0D10032000						
Ice Chest No. N/A	Offsite Property No. N/A	Preservation Cool 4C	Cool 4C						
POSSIBLE SAMPLE HAZARDS/REMARKS None		Type of Container G/P	G/P						
Special Handling and/or Storage Cool 4 Deg C		No. of Container(s) 1	1						
JIR991 1-28-13		Volume 125mL	125mL						
JIR992 1-28-13		See Item(1) in Special Instructions Hex - 7196 - Quick Turn {Hexavalent Chromium}							
JIR993 1-29-13		SAMPLE ANALYSIS							
JIR994 1-29-13									
Sample No. JIR990	Matrix * SOIL	Sample Date 1/25/13	Sample Time 0930	Date/Time 1/25/13	Sign/Print Names M. Stankos	Date/Time 1/25/13	Date/Time 1/25/13	Date/Time 1/25/13	Date/Time 1/25/13
JIR991	SOIL								
JIR992	SOIL								
JIR993	SOIL								
JIR994	SOIL								
SPECIAL INSTRUCTIONS									
Relinquished By/Removed From WR R. Schell 1-28-13 Date/Time 1-28-13 0745 Received By/Stored In mstankos 1-28-13 Date/Time 1-28-13 0745 * Received By/Stored In A. Freier A. Greene 1-28-13 0745 Received By/Stored In A. Freier A. Greene 1-28-13 0845 Received By/Stored In 5 Bill Cook 1-28-13 0845 Received By/Stored In 5 Bill Cook 1-28-13 0845									
(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} * Custodian unavailable to remove samples from controlled storage. Shipper removed samples, taking custody for shipment to lab.									
Matrix * S=Soil SL=Sediment SO=Soil SP=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegetation X=Other									
LABORATORY SECTION	Received By	Title							
FINAL SAMPLE DISPOSITION	Disposal Method	Date/Time							
WCH-EE-011		Disposed By							

Sample Check-in List

Date/Time Received: 1-26-13 / 0845 Container GM Screen Result: (Airlock) 1 Initials B]
 Sample GM Screen Result (Sample Receiving) 1 Initials B]

Client: WCH SDG #: J01683 301683 NA [] SAF #: RC-074 NA []

Lot Number: 53A280416

Chain of Custody # RC-074-454; 438

Shipping Container ID: Hand deliv. NA B] Air Bill Number: _____ NA B

Samples received inside shipping container/cooler/box Yes B] Continue with 1 through 4. Initial appropriate response.

No [] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [] No [] No Custody Seal B]
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal B]
3. Cooler temperature: 9 °C ON TCC NA []
4. Vermiculite/packing materials is NA B] Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes B] No []
6. Number of samples received (Each sample may contain multiple bottles): 15
7. Containers received: 30 x 125mlp

8. Sample holding times exceeded? NA [] Yes [] No B]
9. Samples have:
 tape hazard labels
 custody seals appropriate sample labels
10. Matrix:
 A (FLT, Wipe, Solid, Soil) I (Water)
 S (Air, Niosh 7400) T (Biological, Ni-63)
11. Samples:
 are in good condition are leaking
 are broken have air bubbles (Only for samples requiring no head space)
 Other _____

12. Sample pH appropriate for analysis requested Yes [] No [] NA B]
 (If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)

- RPL ID # of preservative used : N/A

13. Were any anomalies identified in sample receipt? Yes [] No B]

14. Description of anomalies (include sample numbers): NA B

15. Sample Location, Sample Collector Listed on COC? * Yes [] No []
*For documentation only. No corrective action needed.

16. Additional Information: N/A

Client/Courier denied temperature check.

[3] Client/Courier unpack cooler.

Sample Custodian: Jane Doe Date: 1-25-13

Date: 1-28-13

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is

Date 1/27/13

JZA 280416

Saw 108113

LS-023, Rev. 15, 07/11

See over for additional information.

1-28-13
1-28-13
1-28-13

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-455	Page 2 of 2
Collector M R Ruffell	Company Contact Joan Kessner	Telephone No. 509-375-4988	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days 28/13 24 hrs
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 In-Situ Potential ACL 18-30' bgs	SAF No. RC-074			
Ice Chest No.	Field Logbook No. EL-1607-15	COA 0D10032600	Method of Shipment Hand Deliver		
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A			
POSSIBLE SAMPLE HAZARDS/REMARKS None					
Special Handling and/or Storage Cool 4 Deg C	Preservation G/P	Cool 4C G/P			
J3A280423 Date 1-29-13	Type of Container No. of Container(s) Volume	G/P 1 125mL			
	See item (1) in Special Instructions	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)			
Sample No.	Matrix *	Sample Date	Sample Time		
J1RCV7	SOIL 28 cm				
J1RCV8	SOIL				
J1RCV9	SOIL				
J1RCW0 M X02X	SOIL 1-28-13 cm ³	0727	✓		
J1RCW4	SOIL 1-28-13 cm ³				
SPECIAL INSTRUCTIONS					
Matrix * S-soil SP=Slurry SO=Soil SI=Sediment W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue W=Wipe L=Liquid V=Vegitation X=Other					
CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Date/Time	Date/Time	Date/Time
Relinquished By/Removed From State Of Washington	Received By/Stored In M R Ruffell	1/28/13 07:50	Received By/Stored In M R Ruffell	1/28/13 10:00	Received By/Stored In M R Ruffell
Relinquished By/Removed From M R Ruffell	Received By/Stored In M R Ruffell	1/28/13 10:00	Received By/Stored In M R Ruffell	1/28/13 10:00	Received By/Stored In M R Ruffell
Relinquished By/Removed From State Of Washington	Received By/Stored In M R Ruffell	1/28/13 12:50	Received By/Stored In M R Ruffell	1/28/13 12:50	Received By/Stored In M R Ruffell
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Received By/Stored In	Date/Time
LABORATORY SECTION	Received By			Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method			Disposed By	Date/Time

WCH-EE-011

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*100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce
Ice Chest No.
N/A*

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					
Collector	Mark Riddle	Company Contact	Joan Kessner	Telephone No.	509-375-4088
Project Designation	100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location	100-D-100 In-Situ Potential ACL 18-30' bgs	SAF No.	RC-074
Ice Chest No.	N/A	Field Logbook No.	EL-1607-15	COA	0D10032600
Shipped To	TestAmerica Incorporated, Richland	Offsite Property No.	N/A	Method of Shipment	Hand Deliver
POSSIBLE SAMPLE HAZARDS/REMARKS					
None					
Special Handling and/or Storage					
Cool 4 Deg C					
<i>5201-280433</i>					
SAMPLE ANALYSIS					
<i>Due 1-29-13</i>					

Sample No.	Matrix *	Sample Date	Sample Time	Received By/Stored In	Date/Time
J1RCW2 <i>1-28-13</i>	SOIL	<i>1/28/13</i>	<i>0732</i>	<i>✓</i>	
J4RCW43 <i>1-28-13</i>	SOIL				
J1RCW4 <i>1-28-13</i>	SOIL	<i>1/28/13</i>	<i>0735</i>	<i>✓</i>	
J4RCW45 <i>1-28-13</i>	SOIL				

CHAIN OF POSSESSION					
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Received By/Stored In	Date/Time
<i>Mark Riddle</i>	<i>1/28/13</i>	<i>✓</i>	<i>0750</i>	<i>✓</i>	<i>1/28/13</i>
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Received By/Stored In	Date/Time
<i>Mark Riddle</i>	<i>1/28/13</i>	<i>✓</i>	<i>0750</i>	<i>✓</i>	<i>1/28/13</i>
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Received By/Stored In	Date/Time
<i>Mark Riddle</i>	<i>1/28/13</i>	<i>✓</i>	<i>0750</i>	<i>✓</i>	<i>1/28/13</i>
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	Received By/Stored In	Date/Time
<i>Mark Riddle</i>	<i>1/28/13</i>	<i>✓</i>	<i>0750</i>	<i>✓</i>	<i>1/28/13</i>
LABORATORY SECTION	Received By	Disposal Method		Disposed By	Date/Time
FINAL SAMPLE DISPOSITION					

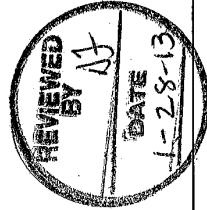
WCH-EE-011

Project Coordinator
KESSNER, JH
Price Code
81
Date Turnaround
1/28/13
21 Days
24 hrs

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

S=Soil
SP=Scrubbing
SD=Soil
SH=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
W=Wipe
L=Liquid
V=Vegetation
X=Other



Date/Time	Date/Time

Sample Check-in List

Date/Time Received: 1-28-13 / 1250 Container GM Screen Result: (Airlock) 16 Initials B
 Sample GM Screen Result (Sample Receiving) 46 Initials B

Client: WCAT SDG #: 301483 NA [] SAF #: RC-074 NA []

Lot Number: J3A280423

Chain of Custody # RC-074-455

Shipping Container ID: hand dr. div. NA NPW Air Bill Number: NA

Samples received inside shipping container/cooler/box Yes B Continue with 1 through 4. Initial appropriate response.

No [] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes B No [] No Custody Seal B
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal B
3. Cooler temperature: 9.5 °C ice packs NA []
4. Vermiculite/packing materials is NA B Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes B No []
6. Number of samples received (Each sample may contain multiple bottles): 3
7. Containers received: 10 x 125 ml p

8. Sample holding times exceeded? NA [] Yes [] No B
9. Samples have:
 tape
 custody seals hazard labels
 appropriate sample labels
10. Matrix:
 A (FLT, Wipe, Solid, Soil)
 S (Air, Niosh 7400) I (Water)
 T (Biological, Ni-63)
11. Samples:
 are in good condition
 are broken
 Other are leaking
 have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [] No [] NA B
 (If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)

RPL ID # of preservative used : 101A

13. Were any anomalies identified in sample receipt? Yes [] No B
14. Description of anomalies (include sample numbers): NA B

15. Sample Location, Sample Collector Listed on COC? * Yes [] No []
*For documentation only. No corrective action needed.

16. Additional Information: N/A

Client/Courier denied temperature check. Client/Courier unpack cooler.

 Client/Courier unpack cooler.

Sample Custodian: John Beach Date: 1-28-13

Date: 1-28-13

Client Informed on _____ by _____ Person contacted _____

No action necessary, process as is

Project Manager Date 12/28/13

J3A280423

QW 1/28/13

LS-023, Rev. 15, 07/11

See over for additional information

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-074-443	Page 1 of 1
Collector M R R. Bell	Company Contact Joan Kessner	Telephone No. 509-375-4988	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 24 HRS
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location 100-D-100 BCL SPA		SAF No. RC-074		
Ice Chest No. N/A	Field Logbook No. EL-1607-15	COA 0D10032000	Method of Shipment Hand Deliver		
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A		
POSSIBLE SAMPLE HAZARDS/REMARKS None					
Special Handling and/or Storage Cool + Deg C					
J3A290406 J3A290406 Date 1-30-13					
Sample No.	Matrix *	Sample Date	Sample Time	SPECIAL INSTRUCTIONS	
J1R9D5M 11AT	SOIL	1/28/13	1441	(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}	
J1R9D6M 11AN	SOIL	1/28/13	1445		
J1R9D7F 11DF	SOIL				
J1R9D8	SOIL	1 - 28-13	com/b		
J1R9D9	SOIL				
CHAIN OF POSSESSION					
Relinquished By/Removed From WME Roads	Date/Time 1/28/13	Received By/Stored In mt stanback	Date/Time 1/28/13	Matrix *	
Relinquished By/Removed From WEC	Date/Time 1/28/13	Received By/Stored In Brofman	Date/Time 1/28/13	Se=Soil SE=Stemint SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Dam Solids DL=Dam Liquids T=Issue W=Wipe L=Liquid V=Vesselion X=Other	
Relinquished By/Removed From mt stanback	Date/Time 1/28/13	Received By/Stored In mt stanback	Date/Time 1/28/13		
Relinquished By/Removed From mt stanback	Date/Time 1/29-13	Received By/Stored In mt stanback	Date/Time 1/29-13		
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	



Sample Check-in List

Date/Time Received: 1-29-13 | 0835 Container GM Screen Result: (Airlock) 169 Initials B
Sample GM Screen Result (Sample Receiving) 29 Initials V

Client: WCH SDG #: 3011683 NA [] SAF #: RC-074 NA []

Lot Number: JSA290404

Chain of Custody # RC-074-443

Shipping Container ID: NA Air Bill Number: NA

Samples received inside shipping container/cooler/box Yes B Continue with 1 through 4. Initial appropriate response.

No [] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [] No [] No Custody Seal B []
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal B []
3. Cooler temperature: 1.2 °C ON SITE NA []
4. Vermiculite/packing materials is NA B [] Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes B [] No []
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 4 x 125 ml

8. Sample holding times exceeded? NA [] Yes [] No B []
9. Samples have:
B tape hazard labels
B custody seals appropriate sample labels
10. Matrix:
B A (FLT, Wipe, Solid, Soil) I (Water)
B S (Air, Niosh 7400) T (Biological, Ni-63)
11. Samples:
B are in good condition _____ are leaking
B are broken _____ have air bubbles (Only for samples requiring no head space)
Other _____
12. Sample pH appropriate for analysis requested Yes [] No [] NA B []
(If acidification is necessary, then document sample ID, initial pH, amount of HNO₃ added and pH after addition on table overleaf)
13. RPL ID # of preservative used: DIA
14. Were any anomalies identified in sample receipt? Yes [] No B []
15. Description of anomalies (include sample numbers): NA B _____

15. Sample Location, Sample Collector Listed on COC? * Yes [] No []
*For documentation only. No corrective action needed.

16. Additional Information: P/A

Client/Courier denied temperature check.

 Client/Courier unpack cooler.

Sample Custodian: John Doe Date: 1-29-13

Date: 1-29-13

Client Informed on _____ by _____ Person contacted _____

No action necessary, process as is

Project Manager Hendy Wulan Date 1/29/13

J3A 290406

Dw 1/2a(13)

LS-023, Rev. 15, 07/11

See over for additional information.

Sample Preparation/Analysis								Balance Id:			
SEQ Batch, Test: None				All Tests: 3028032 DWEA, 3028035 , 3028035 46DQ,				DW Alkaline Digestion by method 3060A EA Chromium, Hexavalent (7196A)	Pipet #:		
Batch: 3028032 SOIL								PM, Quote: RW2, 88144	Sep1 DT/Tm Tech:		
Work Ord, Lot, Sample Date	Total Amt/Unit	Initial Amt/Unit	Adj Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	CR Analyst, InitDate	Comments:
Sample Date	Amt/Unit	Acidified/Unit	Amt/Unit	(Un-Acidified)	Prep Date			(24hr) Circle			Prep Tech:
1 MX0V7-1-AC											
J3A280416-1-SAMP											
01/25/2013 10:25											
AmRec: 2X125MLP											
#Containers: 2											
2 MX0V7-1-AL-S											
J3A280416-1-MS											
01/25/2013 10:25											
AmRec: 2X125MLP											
#Containers: 2											
3 MX0V7-1-AN-X											
J3A280416-1-DUP											
01/25/2013 10:25											
AmRec: 2X125MLP											
#Containers: 2											
4 MX0V7-1-AN-S											
J3A280416-1-MS											
01/25/2013 10:25											
AmRec: 2X125MLP											
#Containers: 2											
5 MX0V8-1-AC											
J3A280416-2-SAMP											
01/25/2013 09:06											
AmRec: 2X125MLP											
#Containers: 2											
6 MX0V8-1-AC											
J3A280416-3-SAMP											
01/25/2013 10:13											
AmRec: 2X125MLP											
#Containers: 2											
7 MX0WA-1-AC											
J3A280416-4-SAMP											
01/25/2013 09:11											
AmRec: 2X125MLP											
#Containers: 2											

WO Cnt: 7
ICOC v4.8.49

ISV - Insufficient Volume for Analysis

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

TestAmerica
Richland Wa.

Sample Preparation/Analysis											
Work Order Details			Sample Preparation			Instrumental Analysis			Report Generation		
Date	Batch	Sample ID	Initial Amt	Tracer Amt	Ppt or Geometry	Count	Detector	On Off	CR Analyst,	Comments:	
1/28/2013 11:09:33 AM	127642, Washington Closure Hanford LLC Washington Closure Hanford LLC	DW Alkaline Digestion by method 3060A EA Chromium, Hexavalent (7196A)									
		51 CLIENT: HANFORD									
AnalyDueDate: 01/29/2013	Batch: 3028032	SOIL	mg/kg	PM, Quote: RW2, 88144							
SEQ Batch, Test: None											
8 MX0WC-1-AC	J3A280416-5-SAMP										
01/25/2013 09:20	AmTfec: 2X125MLP	#Containers: 2									
9 MX0WD-1-AC	J3A280416-6-SAMP										
01/25/2013 09:25	AmTfec: 2X125MLP	#Containers: 2									
10 MX0WE-1-AC	J3A280416-7-SAMP										
01/25/2013 09:37	AmTfec: 2X125MLP	#Containers: 2									
11 MX0WF-1-AC	J3A280416-8-SAMP										
01/25/2013 09:40	AmTfec: 2X125MLP	#Containers: 2									
12 MX0WG-1-AC	J3A280416-9-SAMP										
01/25/2013 09:44	AmTfec: 2X125MLP	#Containers: 2									
13 MX0WH-1-AC	J3A280416-10-SAMP										
01/25/2013 09:51	AmTfec: 2X125MLP	#Containers: 2									
14 MX0WJ-1-AC	J3A280416-11-SAMP										
01/25/2013 09:56	AmTfec: 2X125MLP	#Containers: 2									
TestAmerica Richland Wa.	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	ISV - Insufficient Volume for Analysis			Page 2			WO Cnt: 14 ICOC v4.8.49			

Sample Preparation/Analysis											
DW Alkaline Digestion by method 3060A EA Chromium, Hexavalent (7196A)				Balance Id: Pipet #:							
51 CLIENT: HANFORD				Sep1 DT/Tm Tech:							
PM, Quote: RW2, 88144				Sep2 DT/Tm Tech:							
SEQ Batch, Test: None				Prep Tech:							
1/28/2013 11:09:34 AM	127642, Washington Closure Hanford LLC	Work Ord. Lot, Sample Date	Total Amt/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Yield	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle
Washington Closure Hanford LLC	51 CLIENT: HANFORD	Sample Date	Amt/Unit	Amt/Unit	(Un-Acidified)	Prep Date	Yield	Geometry	Min	Id	On Off (24hr) Circle
AnalyDueDate: 01/29/2013	Batch: 3028032	Soil	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SEQ Batch, Test: None	15 MX0WK-1-AC	16 MX0WL-1-AC	17 MX0WM-1-AC	18 MX0WN-1-AC	19 MX0WR-1-AA-B	20 MX0WR-1-AC-C	21 MX0WR-1-AC-D	22 MX0WR-1-AC-E	23 MX0WR-1-AC-F	24 MX0WR-1-AC-G	25 MX0WR-1-AC-H
J3A280416-12-SAMP	J3A280416-13-SAMP	J3A280416-14-SAMP	J3A280416-15-SAMP	J3A280416-16-SAMP	J3A280416-17-SAMP	J3A280416-18-SAMP	J3A280416-19-SAMP	J3A280416-20-SAMP	J3A280416-21-SAMP	J3A280416-22-SAMP	J3A280416-23-SAMP
01/25/2013 09:32	01/25/2013 09:15	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30	01/25/2013 09:30
AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P	AmnRec: 2X125mL P
#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2	#Containers: 2
Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:	Scr: Alpha:
Beta:	Beta:	Beta:	Beta:	Beta:	Beta:	Beta:	Beta:	Beta:	Beta:	Beta:	Beta:

1/28/2013 11:09:34 AM

Sample Preparation/Analysis

Balance Id:

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
51 CLIENT: HANFORD

AnalyDueDate: 01/29/2013
Batch: 3028032
SEQ Batch, Test: None

mg/kg

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Work Ord. Lot Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj. Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Int/Date	Comments:
												Prep Tech:

Comments:

All Clients for Batch: 127642, Washington Closure Hanford LLC

Washington Closure Hanford LLC, RW2, 88144

xx0V71AC-SAMP Constituent List:

xx0V71AN-MS Constituent List:

xx0V71AN-MS:

xx0WR1AA-BLK:

xx0WR1AC-LCS:

xx0V71AC-SAMP Calc Info:
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
xx0V71AN-MS Calc Info:
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
xx0V71AN-MS:
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
xx0WR1AA-BLK:
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
xx0WR1AC-LCS:
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
Richland Wa. pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 20
ICOC v4.8.49

Sample Preparation/Analysis										Balance Id:	
										Pipet #:	
										Sep1 DT/Tm Tech:	
										Sep2 DT/Tm Tech:	
										Prep Tech:	
AnalyDueDate: 01/29/2013										PM, Quote: RW2, 88144	
Batch: 3028045										Sep2 DT/Tm Tech:	
SEQ Batch, Test: None										Prep Tech:	
SOIL										Beta:	
mg/kg										Beta:	
127642, Washington Closure Hanford LLC										Beta:	
Washington Closure Hanford LLC										Beta:	
DW Alkaline Digestion by method 3060A										Beta:	
EA Chromium, Hexavalent (7196A)										Beta:	
51 CLIENT: HANFORD										Beta:	
Work Ord, Lot, Sample Date										Comments:	
Total Amt/Unit										Comments:	
Initial Aliquot Amt/Unit										Comments:	
Adj Aliq Amt (Un-Acidified)										Comments:	
QC Tracer Prep Date										Comments:	
Tracer Yield										Comments:	
Dish Size										Comments:	
Ppt or Geometry										Comments:	
Count Time Min										Comments:	
Detector Id										Comments:	
Count On Off (24hr) Circle										Comments:	
CR Analyst, Init/Date										Comments:	
Scr: Alpha:										Comments:	
68										Comments:	
J3A280423-1-SAMP										Comments:	
01/28/2013 07:27										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-1-MS										Comments:	
01/28/2013 07:27										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-1-CF-X										Comments:	
01/28/2013 07:27										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-1-DUP										Comments:	
01/28/2013 07:27										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-1-CG-S										Comments:	
01/28/2013 07:27										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-2-SAMP										Comments:	
01/28/2013 07:32										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-2-SAMP										Comments:	
01/28/2013 07:35										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-3-SAMP										Comments:	
01/28/2013 07:35										Comments:	
Amt/Rec: 2X125MLP										Comments:	
#Containers: 2										Comments:	
J3A280423-45-BLK										Comments:	
01/29/2013 08:19 pd										Comments:	
Amt/Rec:										Comments:	
TestAmerica										Comments:	
Richard Wa.										Comments:	
Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2										Comments:	
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added										Comments:	
W/O Cnt: 7										Comments:	
ICOC v4.8.49										Comments:	

Sample Preparation/Analysis		Balance Id:	Pipet #:		
DW Alkaline Digestion by method 3060A EA Chromium, Hexavalent (7196A) 51 CLIENT: HANFORD		Sep1 DT/Tm Tech:			
Batch: 3028045 mg/kg		Sep2 DT/Tm Tech:			
SEQ Batch: Test: None		Prep Tech:			
Work Ord. Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit		
Adj. Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Yield	Ppt or Geometry		
(Un-Acidified)					
8 MX04L-1-AC-C	J3A280000-45-LCS	01/29/2013 08:19 pd	AntiRec: #Containers: 1		
Comments:		Scr: Alpha: Beta:			
All Clients For Batch: 127642, Washington Closure Hanford LLC Washington Closure Hanford LLC, RW2, 88144					
MX02KLAC-SAMP Constituent List: HEXCHROME RDL: 0.1548 mg/kg ICL: 80 UCL: 120 RPD: 20					
MX02KLCE-MS Constituent List: HEXCHROME RDL: 0.35 mg/kg ICL: 75 UCL: 125 RPD: 20					
MX02KLCG-MS: HEXCHROME RDL: 0.35 mg/kg ICL: 75 UCL: 125 RPD: 20					
MX04L1AA-BLK: HEXCHROME RDL: 0.1548 mg/kg ICL: UCL: RPD:					
MX04L1AC-LCS: HEXCHROME RDL: 0.35 mg/kg ICL: 80 UCL: 120 RPD: 20					
MX02KLAC-SAMP Calc Info: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B					
MX02KLCE-MS Calc Info: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B					
MX02KLCG-MS: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B					
MX04L1AA-BLK: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B					
MX04L1AC-LCS: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B					

Sample Preparation/Analysis										Balance Id:	
										Pipet #:	
										Sep1 DT/Tm Tech:	
										Sep2 DT/Tm Tech:	
Work Ord. Lot, Sample Date	Total Amt/Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Yield	Ppt or Geometry	Count Time Min	Detector Id	Count (24hr) Circle	CR Analyst, Init/Date
1 MX1AT-1-AC	J3A290406-1-SAMP	01/28/2013 14:41	AmtRec: 2X125MLP	#Containers: 2	Scr:	Alpha:	Beta:				
2 MX1AT-1-AL-S	J3A290406-1-MS	01/28/2013 14:41	AmtRec: 2X125MLP	#Containers: 2	Scr:	Alpha:	Beta:				
3 MX1AT-1-AM-X	J3A290406-1-DUP	01/28/2013 14:41	AmtRec: 2X125MLP	#Containers: 2	Scr:	Alpha:	Beta:				
4 MX1AT-1-AN-S	J3A290406-1-MS	01/28/2013 14:41	AmtRec: 2X125MLP	#Containers: 2	Scr:	Alpha:	Beta:				
5 MX1AV-1-AC	J3A290406-2-SAMP	01/28/2013 14:45	AmtRec: 2X125MLP	#Containers: 2	Scr:	Alpha:	Beta:				
6 MX1DE-1-AA-B	J3A290000-45-BLK	01/29/2013 11:04 pd	AmtRec:	#Containers: 1	Scr:	Alpha:	Beta:				
7 MX1DE-1-AC-C	J3A290000-45-LCS	01/29/2013 11:04 pd	AmtRec:	#Containers: 1	Scr:	Alpha:	Beta:				
TestAmerica Richland Wa.	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added				ISV - Insufficient Volume for Analysis					WO Cnt: 7	ICOC v4.8.49

Sample Preparation/Analysis		Balance Id:	Pipet #:
DW Alkaline Digestion by method 3060A EA Chromium, Hexavalent (7196A) 51 CLIENT: HANFORD		Sep1 DT/Tm Tech:	Sep2 DT/Tm Tech:
Batch: 3029045 mg/kg		Prep Tech:	Prep Tech:
Comments:		Comments:	Comments:
		All Clients for Batch: 127642 , Washington Closure Hanford LLC	Washington Closure Hanford LLC , RW2 , 88144
		MX1AT1AC-SAMP Constituent List:	
		MX1AT1AL-MS Constituent List:	
		MX1AT1AN-MS :	
		MX1DE1AA-BLK:	
		MX1DE1AC-LCS:	
		MX1AT1AC-SAMP Calc Info: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	
		MX1AT1AL-MS Calc Info: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	
		MX1AT1AN-MS :	
		Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	
		MX1DE1AA-BLK:	
		Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	
		MX1DE1AC-LCS: Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	
TestAmerica Richland Wa.	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added	!SV - Insufficient Volume for Analysis	W/O Cnt: 7 ICOC v4.8.49