0100245

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 11/16/11
INITIAL/DATE

COMMENTS:

SDG J01310 SAF RC-074

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 100-D-100 Excavation

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NOV 30 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
OCT 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 49 ***Pages***

Report No.: 49044

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.
J01310	RC-074	J1M025	J1J260502-1	MNHK31AC	9MNHK310	1299194
		J1M026	J1J260502-002	MNHK51AC	9MNHK510	1299194
		J1M027	J1J260502-003	MNHK61AC	9MNHK610	1299194
		J1M028	J1J260502-004	MNHLA1AC	9MNHLA10	1299194
		J1M029	J1J260502-005	MNHLF1AC	9MNHLF10	1299194
		J1M030	J1J260502-006	MNHLL1AC	9MNHLL10	1299194
		J1M031	J1J260502-007	MNHLN1AC	9MNHLN10	1299194
		J1M032	J1J260502-008	MNHLP1AC	9MNHLP10	1299194
		J1M033	J1J260502-009	MNHLQ1AC	9MNHLQ10	1299194
		J1M0C7	J1J260502-010	MNHLR1AC	9MNHLR10	1299194
	RC-074	J1M0V5	J1J260502-011	MNHLT1AC	9MNHLT10	1299194
		J1M0V6	J1J260502-012	MNHLV1AC	9MNHLV10	1299194
		J1M0V7	J1J260502-013	MNHLW1AC	9MNHLW10	1299194
		J1M0V8	J1J260502-014	MNHLX1AC	9MNHLX10	1299194
		J1M0V9	J1J260502-015	MNHL01AC	9MNHL010	1299194
		J1M0W0	J1J260502-016	MNHL11AC	9MNHL110	1299194
		J1M0W1	J1J260502-017	MNHL21AC	9MNHL210	1299194
		J1M0W2	J1J260502-018	MNHL31AC	9MNHL310	1299194
		J1M0W3	J1J260502-019	MNHL51AC	9MNHL510	1299194
		J1M0W4	J1J260502-020	MNHL61AC	9MNHL610	1299194

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

October 31, 2011

Attention: Joan Kessner

SAF Number	:	RC-074
Date SDG Closed	:	October 28, 2011
Number of Samples	:	Twenty (20)
Sample Type	:	Soil
SDG Number	:	J01310
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

On October 26, 2011, 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;

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1M025	MNHK3	SOIL	10/26/11
J1M026	MNHK5	SOIL	10/26/11
J1M027	MNHK6	SOIL	10/26/11
J1M028	MNHLA	SOIL	10/26/11
J1M029	MNHLF	SOIL	10/26/11
J1M030	MNHLL	SOIL	10/26/11
J1M031	MNHLN	SOIL	10/26/11
J1M032	MNHLP	SOIL	10/26/11
J1M033	MNHLQ	SOIL	10/26/11
J1M0C7	MNHLR	SOIL	10/26/11
J1M0V5	MNHLT	SOIL	10/26/11
J1M0V6	MNHLV	SOIL	10/26/11
J1M0V7	MNHLW	SOIL	10/26/11
J1M0V8	MNHLX	SOIL	10/26/11
J1M0V9	MNHL0	SOIL	10/26/11
J1M0W0	MNHL1	SOIL	10/26/11
J1M0W1	MNHL2	SOIL	10/26/11
J1M0W2	MNHL3	SOIL	10/26/11
J1M0W3	MNHL5	SOIL	10/26/11
J1M0W4	MNHL6	SOIL	10/26/11

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 J01310 includes a minimum of one Laboratory Control Samples (LCS) and one method (reagent) blank. A duplicate sample, matrix spike sample and a matrix spike duplicate sample will be analyzed per 20 samples or per month, whichever is more frequent. 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
One batch was analyzed in October for the samples with the standard metal request list.

Batch 1299202:
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
One batch was analyzed in October.

Batch 1299194:
The LCS, batch blank, samples, sample duplicate (J1M025) and sample matrix spike (J1M025) 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.

Washington Closure Hanford
October 31, 2011

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 = 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/? 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) ***u_c - Combined Uncertainty.***	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, ***u_c the combined uncertainty.*** 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%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * 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 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * 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($TPUs^2$ + $TPUd^2$)] 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 TPUd 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: 31-Oct-11

TestAmerica TARL

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

Report No. : 49044 **SDG No:** J01310

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1299194	7196_CR6								
J1M025									
	MNHK31AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MNHK31AN	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	3.50E-01	0.0
J1M026									
	MNHK51AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1M027									
	MNHK61AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1M028									
	MNHLA1AC	HEXCHROME	9.82E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M029									
	MNHLF1AC	HEXCHROME	2.01E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M030									
	MNHLL1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1M031									
	MNHLN1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1M032									
	MNHLP1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1M033									
	MNHLQ1AC	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
J1M0C7									
	MNHLR1AC	HEXCHROME	7.91E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0V5									
	MNHLT1AC	HEXCHROME	1.61E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0V6									
	MNHLV1AC	HEXCHROME	6.82E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0V7									
	MNHLW1AC	HEXCHROME	1.43E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0V8									
	MNHLX1AC	HEXCHROME	2.84E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0V9									
	MNHL01AC	HEXCHROME	2.47E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0W0									
	MNHL11AC	HEXCHROME	3.66E+01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0W1									
	MNHL21AC	HEXCHROME	3.34E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0W2									
	MNHL31AC	HEXCHROME	1.69E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1M0W3									
	MNHL51AC	HEXCHROME	2.03E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	

TestAmerica

rptSTLRchSaSummary2 V5.2.15 A2002

RPD - Relative Percent Difference.

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.

Sample Results Summary

TestAmerica TARL

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

Date: 31-Oct-11

Report No. : 49044

SDG No: J01310

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1299194	7196_CR6								
	J1M0W4								
	MNHL61AC	HEXCHROME	2.50E+02 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	

No. of Results: 21

TestAmerica **RPD** - **Relative Percent Difference.**

rptSTLRchSaSum
mary2 V5.2.15
A2002

QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 31-Oct-11

Report No. : 49044

SDG No.: J01310

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1299194 MATRIX SPIKE, J1M025								
MNHK31AL	HEXCHROME	8.93E+00 +- 0.0E+00		mg/kg	N/A	85%	-0.1	1.55E-01
1299194 LCS,								
MNHM31AC	HEXCHROME	1.90E+01 +- 0.0E+00		mg/kg	N/A	95%	0.0	1.55E-01
1299194 BLANK QC,								
MNHM31AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 3

TestAmerica

rptSTLRchQcSummary V5.2.15
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:06:00 PM
Lot-Sample No.:	J1J260502-1	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M025	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHK31AC			**Report DB ID:** 9MNHK310					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*(1.)*	10/26/11 09:15 p		2.5137	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 12:55:00 PM
Lot-Sample No.:	J1J260502-002	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M026	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHK51AC			**Report DB ID:** 9MNHK510					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*(1.)*	10/26/11 09:15 p		2.5166	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 12:50:00 PM
Lot-Sample No.:	J1J260502-003	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M027	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHK61AC			**Report DB ID:** 9MNHK610					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*(1.)*	10/26/11 09:15 p		2.515	
							1.55E-01	*N/A*			g	

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

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:08:00 PM
Lot-Sample No.:	J1J260502-004	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M028	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:**	MNHLA1AC		**Report DB ID:**	9MNHLA10				
HEXCHROME	***9.82E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(6.3)*	10/26/11 09:15 p		2.5041	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 12:39:00 PM
Lot-Sample No.:	J1J260502-005	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M029	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:**	MNHLF1AC		**Report DB ID:**	9MNHLF10				
HEXCHROME	***2.01E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(1.3)*	10/26/11 09:15 p		2.5103	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:02:00 PM
Lot-Sample No.:	J1J260502-006	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M030	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHLL1AC			**Report DB ID:** 9MNHLL10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*(1.)*	10/26/11 09:15 p		2.4976	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	SDG:	J01310	Collection Date:	10/26/2011 12:35:00 PM
Lot-Sample No.:	J1J260502-007	Report No. :	49044	Received Date:	10/26/2011 5:10:00 PM
Client Sample ID:	J1M031	COC No. :	RC-074-327	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHLN1AC		Report DB ID:	9MNHLN10				
HEXCHROME	*1.55E-01*	U		0.0E+00	1.55E-01	mg/kg	N/A	*(1.)*	10/26/11 09:15 p		2.5014	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:00:00 PM
Lot-Sample No.:	J1J260502-008	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M032	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHLP1AC			**Report DB ID:** 9MNHLP10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*(1.)*	10/26/11 09:15 p		2.5103	
							1.55E-01	*N/A*			g	

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

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 12:37:00 PM
Lot-Sample No.:	J1J260502-009	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M033	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:**	MNHLQ1AC		**Report DB ID:**	9MNHLQ10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*(1.)*	10/26/11 09:15 p		2.5057	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	SDG:	J01310	Collection Date:	10/26/2011 1:04:00 PM
Lot-Sample No.:	J1J260502-010	Report No. :	49044	Received Date:	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0C7	COC No. :	RC-074-327	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHLR1AC		Report DB ID:	9MNHLR10				
HEXCHROME	*7.91E-01*			0.0E+00	1.55E-01	mg/kg	N/A	*(5.1)*	10/26/11 09:15 p		2.502	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:58:00 PM
Lot-Sample No.:	J1J260502-011	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0V5	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:**	MNHLT1AC		**Report DB ID:**	9MNHLT10				
HEXCHROME	***1.61E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1038.8)*	10/26/11 09:15 p		2.5185	
							1.55E-01	*N/A*			g	

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

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	SDG:	J01310	Collection Date:	10/26/2011 1:40:00 AM
Lot-Sample No.:	J1J260502-012	Report No. :	49044	Received Date:	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0V6	COC No. :	RC-074-327	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHLV1AC		Report DB ID:	9MNHLV10				
HEXCHROME	*6.82E+01*			0.0E+00	1.55E-01	mg/kg	N/A	*(440.6)*	10/26/11 09:15 p		2.5069	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	SDG:	J01310	Collection Date:	10/26/2011 1:46:00 PM
Lot-Sample No.:	J1J260502-013	Report No. :	49044	Received Date:	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0V7	COC No. :	RC-074-327	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHLW1AC		Report DB ID:	9MNHLW10				
HEXCHROME	***1.43E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(922.5)*	10/26/11 09:15 p		2.5026	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:56:00 PM
Lot-Sample No.:	J1J260502-014	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0V8	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:**	MNHLX1AC		**Report DB ID:**	9MNHLX10				
HEXCHROME	***2.84E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1834.2)*	10/26/11 09:15 p		2.5072	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	**TestAmerica**	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:52:00 PM
Lot-Sample No.:	**J1J260502-015**	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	**J1M0V9**	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:**	MNHL01AC		**Report DB ID:**	9MNHL010				
HEXCHROME	***2.47E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1595.)*	10/26/11 09:15 p		2.5093	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:42:00 PM
Lot-Sample No.:	J1J260502-016	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0W0	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHL11AC			**Report DB ID:** 9MNHL110					
HEXCHROME	***3.66E+01***			0.0E+00	1.55E-01	mg/kg	N/A	*(236.3)*	10/26/11 09:15 p		2.4979	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	SDG:	J01310	Collection Date:	10/26/2011 1:48:00 PM
Lot-Sample No.:	J1J260502-017	Report No. :	49044	Received Date:	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0W1	COC No. :	RC-074-327	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHL21AC		Report DB ID:	9MNHL210				
HEXCHROME	***3.34E+02***			0.0E+00	1.55E-01	mg/kg	N/A 1.55E-01	*(2156.7)* *N/A*	10/26/11 09:15 p		2.5056 g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:44:00 PM
Lot-Sample No.:	J1J260502-018	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0W2	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:**	MNHL31AC		**Report DB ID:**	9MNHL310				
HEXCHROME	***1.69E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1093.9)*	10/26/11 09:15 p		2.5146	
							1.55E-01	*N/A*			g	

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

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	SDG:	J01310	Collection Date:	10/26/2011 1:50:00 PM
Lot-Sample No.:	J1J260502-019	Report No. :	49044	Received Date:	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0W3	COC No. :	RC-074-327	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHL51AC		Report DB ID:	9MNHL510				
HEXCHROME	***2.03E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1310.7)*	10/26/11 09:15 p		2.5153	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM I

SAMPLE RESULTS

Date: 31-Oct-11

Lab Name:	TestAmerica	SDG:	J01310	Collection Date:	10/26/2011 1:54:00 PM
Lot-Sample No.:	J1J260502-020	Report No. :	49044	Received Date:	10/26/2011 5:10:00 PM
Client Sample ID:	J1M0W4	COC No. :	RC-074-327	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHL61AC		Report DB ID:	9MNHL610				
HEXCHROME	***2.50E+02***			0.0E+00	1.55E-01	mg/kg	N/A	*(1617.3)*	10/26/11 09:15 p		2.5086	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM II

Date: 31-Oct-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	J01310	**Collection Date:**	10/26/2011 1:06:00 PM
Lot-Sample No.:	J1J260502-1	**Report No. :**	49044	**Received Date:**	10/26/2011 5:10:00 PM
Client Sample ID:	J1M025	**COC No. :**	RC-074-327	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHK31AN		**Report DB ID:** MNHK31ER			**Orig Sa DB ID:** 9MNHK310			
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	(1.)	10/26/11 09:15 p		2.5139	
	1.55E-01	U	**RPD** 0.0			3.50E-01		N/A			g	

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

TestAmerica
rptSTLRchDupV5.2
.15 A2002

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

FORM II

BLANK RESULTS

Date: 31-Oct-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01310

Report No. : 49044

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			Work Order:	MNHM31AA		Report DB ID:	MNHM31AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	(1.)	10/26/11 09:15 p		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchBlank
V5.2.15 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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.

FORM II

LCS RESULTS

Date: 31-Oct-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: J01310

Report No. : 49044

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1299194	7196_CR6			**Work Order:** MNHM31AC			**Report DB ID:** MNHM31AC						
HEXCHROME	1.90E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		95%	10/26/11 09:15 p	2.5	
							Rec Limits:	80	120	0.0		g	

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

TestAmerica **Bias** - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs
V5.2.15 A2002

FORM II

Date: 31-Oct-11

MATRIX SPIKE RESULTS

Lab Name: TestAmerica **SDG:** J01310

Lot-Sample No.: J1J260502-1, J1M025 **Report No. :** 49044 **Matrix:** SOIL

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 1299194	**Work Order:** MNHK31AL			**Report DB ID:** MNHK31CW			**Orig Sa DB ID:** 9MNHK310					
HEXCHROME	8.93E+00			0.0E+00	1.55E-01	mg/kg	N/A	85.25%	1.05E+01	10/26/11 09:15 p	2.4944	7196_CR6
	1.55E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.15 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

SDG: J01310
SAF: RC-074
BATCH: 1299202
MATRIX: SOIL
ANALYSIS DATE: 10/26/11

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limit	Reporting_Limit	Uncertainty_1	Analyzed_s	Analyzed_	Decision_level_	LCSRec	AddedAm	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1M025	SOIL	BS	7440-22-4	Ag	-7.58E-03	U	UG/G	1.12E+00	1.12E+00	2.00E-02	0.2466	G	1.63E-02			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M025	SOIL	BS	7440-38-2	As	2.48E+00	U	UG/G	4.38E+00	4.38E+00	8.60E-01	0.2466	G	7.06E-01			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M025	SOIL	BS	7440-39-3	Ba	1.12E+02		UG/G	9.12E-01	9.12E-01	8.00E-01	0.2466	G	6.61E-01			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M025	SOIL	BS	7440-41-7	Beryllium	3.53E-01		UG/G	1.22E-01	1.22E-01	1.20E-02	0.2466	G	9.46E-03			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M025	SOIL	BS	7440-43-9	Cadmium	1.27E-01	U	UG/G	1.78E+00	1.78E+00	5.90E-02	0.2466	G	4.84E-02			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M025	SOIL	BS	7440-47-3	Chromium	7.22E+00		UG/G	1.01E+00	1.01E+00	7.30E-02	0.2466	G	5.99E-02			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M025	SOIL	BS	7439-92-1	Lead	4.87E+00		UG/G	3.53E+00	3.53E+00	8.50E-01	0.2466	G	6.96E-01			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M025	SOIL	BS	7782-49-2	Se	-1.55E+00	U	UG/G	8.48E+00	8.48E+00	2.70E-01	0.2466	G	2.23E-01			10/26/11 22:07	1299202	46DQ	MNHK31A0
J1M026	SOIL	BS	7440-22-4	Ag	3.10E-03	U	UG/G	1.08E+00	1.08E+00	7.10E-02	0.2538	G	5.87E-02			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M026	SOIL	BS	7440-38-2	As	2.27E+00	U	UG/G	4.26E+00	4.26E+00	3.10E-01	0.2538	G	2.54E-01			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M026	SOIL	BS	7440-39-3	Ba	1.11E+02		UG/G	8.87E-01	8.87E-01	1.70E+00	0.2538	G	1.36E+00			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M026	SOIL	BS	7440-41-7	Beryllium	3.05E-01		UG/G	1.18E-01	1.18E-01	1.00E-02	0.2538	G	8.41E-03			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M026	SOIL	BS	7440-43-9	Cadmium	1.11E-01	U	UG/G	1.73E+00	1.73E+00	1.70E-02	0.2538	G	1.43E-02			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M026	SOIL	BS	7440-47-3	Chromium	6.92E+00		UG/G	9.85E-01	9.85E-01	3.70E-01	0.2538	G	3.07E-01			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M026	SOIL	BS	7439-92-1	Lead	4.20E+00		UG/G	3.43E+00	3.43E+00	1.40E-01	0.2538	G	1.16E-01			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M026	SOIL	BS	7782-49-2	Se	-5.28E-01	U	UG/G	8.23E+00	8.23E+00	9.20E-01	0.2538	G	7.57E-01			10/26/11 22:22	1299202	46DQ	MNHK51AA
J1M027	SOIL	BS	7440-22-4	Ag	-9.16E-03	U	UG/G	1.11E+00	1.11E+00	5.90E-02	0.2488	G	4.84E-02			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M027	SOIL	BS	7440-38-2	As	1.43E+00	U	UG/G	4.34E+00	4.34E+00	3.20E-01	0.2488	G	2.61E-01			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M027	SOIL	BS	7440-39-3	Ba	5.67E+01		UG/G	9.04E-01	9.04E-01	6.60E-01	0.2488	G	5.39E-01			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M027	SOIL	BS	7440-41-7	Beryllium	2.22E-01		UG/G	1.21E-01	1.21E-01	7.50E-03	0.2488	G	6.20E-03			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M027	SOIL	BS	7440-43-9	Cadmium	1.02E-01	U	UG/G	1.77E+00	1.77E+00	4.80E-02	0.2488	G	3.98E-02			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M027	SOIL	BS	7440-47-3	Chromium	4.17E+00		UG/G	1.00E+00	1.00E+00	1.20E-01	0.2488	G	1.02E-01			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M027	SOIL	BS	7439-92-1	Lead	2.97E+00	U	UG/G	3.50E+00	3.50E+00	1.20E-01	0.2488	G	9.90E-02			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M027	SOIL	BS	7782-49-2	Se	-9.14E-01	U	UG/G	8.40E+00	8.40E+00	3.30E-01	0.2488	G	2.68E-01			10/26/11 22:25	1299202	46DQ	MNHK61AA
J1M028	SOIL	BS	7440-22-4	Ag	5.39E-02	U	UG/G	1.07E+00	1.07E+00	2.00E-01	0.2561	G	1.64E-01			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M028	SOIL	BS	7440-38-2	As	1.85E+00	U	UG/G	4.22E+00	4.22E+00	2.70E-01	0.2561	G	2.25E-01			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M028	SOIL	BS	7440-39-3	Ba	6.46E+01		UG/G	8.79E-01	8.79E-01	3.00E-01	0.2561	G	2.49E-01			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M028	SOIL	BS	7440-41-7	Beryllium	2.66E-01		UG/G	1.17E-01	1.17E-01	1.30E-02	0.2561	G	1.07E-02			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M028	SOIL	BS	7440-43-9	Cadmium	1.15E-01	U	UG/G	1.72E+00	1.72E+00	7.30E-02	0.2561	G	6.04E-02			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M028	SOIL	BS	7440-47-3	Chromium	7.75E+00		UG/G	9.76E-01	9.76E-01	6.10E-02	0.2561	G	5.03E-02			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M028	SOIL	BS	7439-92-1	Lead	3.63E+00		UG/G	3.40E+00	3.40E+00	2.10E-01	0.2561	G	1.74E-01			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M028	SOIL	BS	7782-49-2	Se	-9.65E-01	U	UG/G	8.16E+00	8.16E+00	7.70E-01	0.2561	G	6.36E-01			10/26/11 22:38	1299202	46DQ	MNHLA1AA
J1M029	SOIL	BS	7440-22-4	Ag	-6.77E-02	U	UG/G	1.12E+00	1.12E+00	6.40E-02	0.2451	G	5.27E-02			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M029	SOIL	BS	7440-38-2	As	3.65E+00	U	UG/G	4.41E+00	4.41E+00	3.00E-01	0.2451	G	2.47E-01			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M029	SOIL	BS	7440-39-3	Ba	8.27E+01		UG/G	9.18E-01	9.18E-01	7.90E-01	0.2451	G	6.51E-01			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M029	SOIL	BS	7440-41-7	Beryllium	5.20E-01		UG/G	1.22E-01	1.22E-01	1.50E-02	0.2451	G	1.25E-02			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M029	SOIL	BS	7440-43-9	Cadmium	1.83E-01	U	UG/G	1.80E+00	1.80E+00	4.50E-02	0.2451	G	3.74E-02			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M029	SOIL	BS	7440-47-3	Chromium	1.15E+01		UG/G	1.02E+00	1.02E+00	1.90E-01	0.2451	G	1.58E-01			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M029	SOIL	BS	7439-92-1	Lead	7.90E+00		UG/G	3.55E+00	3.55E+00	3.70E-01	0.2451	G	3.05E-01			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M029	SOIL	BS	7782-49-2	Se	-5.98E-01	U	UG/G	8.53E+00	8.53E+00	4.20E-01	0.2451	G	3.48E-01			10/26/11 22:41	1299202	46DQ	MNHLF1AA
J1M030	SOIL	BS	7440-22-4	Ag	7.51E-02	U	UG/G	1.11E+00	1.11E+00	1.10E-01	0.2474	G	8.93E-02			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M030	SOIL	BS	7440-38-2	As	1.13E+00	U	UG/G	4.37E+00	4.37E+00	8.40E-01	0.2474	G	6.93E-01			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M030	SOIL	BS	7440-39-3	Ba	6.29E+01		UG/G	9.09E-01	9.09E-01	1.20E-01	0.2474	G	9.95E-02			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M030	SOIL	BS	7440-41-7	Beryllium	2.02E-01		UG/G	1.21E-01	1.21E-01	3.90E-03	0.2474	G	3.23E-03			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M030	SOIL	BS	7440-43-9	Cadmium	1.20E-01	U	UG/G	1.78E+00	1.78E+00	1.20E-02	0.2474	G	9.58E-03			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M030	SOIL	BS	7440-47-3	Chromium	3.92E+00		UG/G	1.01E+00	1.01E+00	3.00E-01	0.2474	G	2.50E-01			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M030	SOIL	BS	7439-92-1	Lead	2.30E+00	U	UG/G	3.52E+00	3.52E+00	4.10E-01	0.2474	G	3.34E-01			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M030	SOIL	BS	7782-49-2	Se	-5.30E-01	U	UG/G	8.45E+00	8.45E+00	7.80E-01	0.2474	G	6.38E-01			10/26/11 22:44	1299202	46DQ	MNHLL1AA
J1M031	SOIL	BS	7440-22-4	Ag	3.39E-02	U	UG/G	1.10E+00	1.10E+00	1.60E-01	0.2498	G	1.35E-01			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M031	SOIL	BS	7440-38-2	As	1.66E+00	U	UG/G	4.32E+00	4.32E+00	5.60E-01	0.2498	G	4.64E-01			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M031	SOIL	BS	7440-39-3	Ba	5.56E+01		UG/G	9.01E-01	9.01E-01	1.30E-01	0.2498	G	1.09E-01			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M031	SOIL	BS	7440-41-7	Beryllium	2.37E-01		UG/G	1.20E-01	1.20E-01	2.60E-03	0.2498	G	2.17E-03			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M031	SOIL	BS	7440-43-9	Cadmium	1.01E-01	U	UG/G	1.76E+00	1.76E+00	2.10E-02	0.2498	G	1.76E-02			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M031	SOIL	BS	7440-47-3	Chromium	4.97E+00		UG/G	1.00E+00	1.00E+00	2.10E-01	0.2498	G	1.72E-01			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M031	SOIL	BS	7439-92-1	Lead	3.22E+00	U	UG/G	3.48E+00	3.48E+00	3.00E-01	0.2498	G	2.49E-01			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M031	SOIL	BS	7782-49-2	Se	-7.34E-01	U	UG/G	8.37E+00	8.37E+00	9.60E-01	0.2498	G	7.88E-01			10/26/11 22:47	1299202	46DQ	MNHLN1AA
J1M032	SOIL	BS	7440-22-4	Ag	-1.43E-02	U	UG/G	1.11E+00	1.11E+00	1.70E-01	0.2484	G	1.43E-01			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M032	SOIL	BS	7440-38-2	As	1.81E+00	U	UG/G	4.35E+00	4.35E+00	1.00E+00	0.2484	G	8.24E-01			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M032	SOIL	BS	7440-39-3	Ba	7.80E+01		UG/G	9.06E-01	9.06E-01	5.70E-01	0.2484	G	4.72E-01			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M032	SOIL	BS	7440-41-7	Beryllium	2.76E-01		UG/G	1.21E-01	1.21E-01	1.20E-02	0.2484	G	9.97E-03			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M032	SOIL	BS	7440-43-9	Cadmium	9.71E-02	U	UG/G	1.77E+00	1.77E+00	2.90E-02	0.2484	G	2.38E-02			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M032	SOIL	BS	7440-47-3	Chromium	4.93E+00		UG/G	1.01E+00	1.01E+00	8.90E-02	0.2484	G	7.33E-02			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M032	SOIL	BS	7439-92-1	Lead	3.60E+00		UG/G	3.50E+00	3.50E+00	4.60E-01	0.2484	G	3.76E-01			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M032	SOIL	BS	7782-49-2	Se	-9.01E-01	U	UG/G	8.41E+00	8.41E+00	3.10E-01	0.2484	G	2.57E-01			10/26/11 22:50	1299202	46DQ	MNHLP1AA
J1M033	SOIL	BS	7440-22-4	Ag	1.16E-01	U	UG/G	1.09E+00	1.09E+00	5.60E-02	0.2514	G	4.61E-02			10/26/11 22:53	1299202	46DQ	MNHLQ1AA
J1M033	SOIL	BS	7440-38-2	As	3.01E+00	U	UG/G	4.30E+00	4.30E+00	1.40E-01	0.2514	G	1.16E-01			10/26/11 22:53	1299202	46DQ	MNHLQ1AA
J1M033	SOIL	BS	7440-39-3	Ba	1.39E+02		UG/G	8.95E-01	8.95E-01	1.80E+00	0.2514	G	1.50E+00			10/26/11 22:53	1299202	46DQ	MNHLQ1AA
J1M033	SOIL	BS	7440-41-7	Beryllium	4.78E-01		UG/G	1.19E-01	1.19E-01	1.10E-02	0.2514	G	9.00E-03			10/26/11 22:53	1299202	46DQ	MNHLQ1AA
J1M033	SOIL	BS	7440-43-9	Cadmium	1.64E-01	U	UG/G	1.75E+00	1.75E+00	2.10E-02	0.2514	G	1.70E-02			10/26/11 22:53	1299202	46DQ	MNHLQ1AA
J1M033	SOIL	BS	7440-47-3	Chromium	1.46E+01		UG/G	9.94E-01	9.94E-01	1.20E-01	0.2514	G	1.01E-01			10/26/11 22:53	1299202	46DQ	MNHLQ1AA

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Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limit	Reporting_Limi	Uncertainty_1	Analyzed_s	Analyzed_	Decision_level_	LCSRec	AddedAm	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1M033	SOIL	BS	7439-92-1	Lead	6.39E+00		UG/G	3.46E+00	3.46E+00	5.30E-01	0.2514	G	4.35E-01			10/26/11 22:53	1299202	46DQ	MNHLQ1AA
J1M033	SOIL	BS	7782-49-2	Se	-1.48E+00	U	UG/G	8.31E+00	8.31E+00	2.70E-01	0.2514	G	2.23E-01			10/26/11 22:53	1299202	46DQ	MNHLQ1AA
J1M0C7	SOIL	BS	7440-22-4	Ag	-2.13E-02	U	UG/G	1.10E+00	1.10E+00	1.40E-01	0.2505	G	1.14E-01			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0C7	SOIL	BS	7440-38-2	As	2.61E+00	U	UG/G	4.31E+00	4.31E+00	4.40E-01	0.2505	G	3.58E-01			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0C7	SOIL	BS	7440-39-3	Ba	8.41E+01		UG/G	8.98E-01	8.98E-01	4.10E-01	0.2505	G	3.41E-01			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0C7	SOIL	BS	7440-41-7	Beryllium	3.20E-01		UG/G	1.20E-01	1.20E-01	2.50E-03	0.2505	G	2.07E-03			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0C7	SOIL	BS	7440-43-9	Cadmium	1.33E-01	U	UG/G	1.76E+00	1.76E+00	5.10E-02	0.2505	G	4.16E-02			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0C7	SOIL	BS	7440-47-3	Chromium	8.32E+00		UG/G	9.98E-01	9.98E-01	7.00E-02	0.2505	G	5.76E-02			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0C7	SOIL	BS	7439-92-1	Lead	4.93E+00		UG/G	3.47E+00	3.47E+00	2.40E-01	0.2505	G	1.96E-01			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0C7	SOIL	BS	7782-49-2	Se	-5.66E-01	U	UG/G	8.34E+00	8.34E+00	1.00E+00	0.2505	G	8.58E-01			10/26/11 22:56	1299202	46DQ	MNHLR1AA
J1M0V5	SOIL	BS	7440-22-4	Ag	-3.98E-04	U	UG/G	1.11E+00	1.11E+00	8.60E-02	0.2472	G	7.04E-02			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V5	SOIL	BS	7440-38-2	As	1.97E-01	U	UG/G	4.37E+00	4.37E+00	8.10E-01	0.2472	G	6.68E-01			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V5	SOIL	BS	7440-39-3	Ba	6.73E+01		UG/G	9.10E-01	9.10E-01	7.20E-01	0.2472	G	5.96E-01			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V5	SOIL	BS	7440-41-7	Beryllium	2.26E-01		UG/G	1.21E-01	1.21E-01	1.20E-02	0.2472	G	9.84E-03			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V5	SOIL	BS	7440-43-9	Cadmium	1.27E-01	U	UG/G	1.78E+00	1.78E+00	5.40E-02	0.2472	G	4.47E-02			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V5	SOIL	BS	7440-47-3	Chromium	2.66E+02		UG/G	1.01E+00	1.01E+00	1.20E+00	0.2472	G	1.01E+00			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V5	SOIL	BS	7439-92-1	Lead	3.47E+00	U	UG/G	3.52E+00	3.52E+00	8.40E-02	0.2472	G	6.89E-02			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V5	SOIL	BS	7782-49-2	Se	-7.39E-01	U	UG/G	8.45E+00	8.45E+00	3.80E-01	0.2472	G	3.13E-01			10/26/11 22:59	1299202	46DQ	MNHLT1AA
J1M0V6	SOIL	BS	7440-22-4	Ag	4.37E-02	U	UG/G	1.10E+00	1.10E+00	1.00E-01	0.25	G	8.58E-02			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V6	SOIL	BS	7440-38-2	As	1.28E+00	U	UG/G	4.32E+00	4.32E+00	8.80E-01	0.25	G	7.20E-01			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V6	SOIL	BS	7440-39-3	Ba	5.30E+01		UG/G	9.00E-01	9.00E-01	5.40E-01	0.25	G	4.43E-01			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V6	SOIL	BS	7440-41-7	Beryllium	2.13E-01		UG/G	1.20E-01	1.20E-01	1.50E-02	0.25	G	1.26E-02			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V6	SOIL	BS	7440-43-9	Cadmium	9.97E-02	U	UG/G	1.76E+00	1.76E+00	2.80E-02	0.25	G	2.27E-02			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V6	SOIL	BS	7440-47-3	Chromium	9.43E+01		UG/G	1.00E+00	1.00E+00	2.00E-01	0.25	G	1.64E-01			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V6	SOIL	BS	7439-92-1	Lead	3.83E+00		UG/G	3.48E+00	3.48E+00	2.90E-01	0.25	G	2.38E-01			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V6	SOIL	BS	7782-49-2	Se	-7.83E-01	U	UG/G	8.36E+00	8.36E+00	2.80E-01	0.25	G	2.29E-01			10/26/11 23:02	1299202	46DQ	MNHLV1AA
J1M0V7	SOIL	BS	7440-22-4	Ag	-1.32E-02	U	UG/G	1.09E+00	1.09E+00	1.30E-02	0.2514	G	1.04E-02			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V7	SOIL	BS	7440-38-2	As	7.94E-01	U	UG/G	4.30E+00	4.30E+00	7.00E-01	0.2514	G	5.74E-01			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V7	SOIL	BS	7440-39-3	Ba	5.75E+01		UG/G	8.95E-01	8.95E-01	6.50E-01	0.2514	G	5.34E-01			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V7	SOIL	BS	7440-41-7	Beryllium	2.28E-01		UG/G	1.19E-01	1.19E-01	1.50E-02	0.2514	G	1.25E-02			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V7	SOIL	BS	7440-43-9	Cadmium	1.17E-01	U	UG/G	1.75E+00	1.75E+00	2.00E-02	0.2514	G	1.67E-02			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V7	SOIL	BS	7440-47-3	Chromium	1.89E+02		UG/G	9.94E-01	9.94E-01	1.90E+00	0.2514	G	1.60E+00			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V7	SOIL	BS	7439-92-1	Lead	3.79E+00		UG/G	3.46E+00	3.46E+00	3.40E-01	0.2514	G	2.76E-01			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V7	SOIL	BS	7782-49-2	Se	-9.41E-01	U	UG/G	8.31E+00	8.31E+00	6.20E-01	0.2514	G	5.14E-01			10/26/11 23:05	1299202	46DQ	MNHLW1AA
J1M0V8	SOIL	BS	7440-22-4	Ag	5.17E-03	U	UG/G	1.11E+00	1.11E+00	7.00E-02	0.2481	G	5.78E-02			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V8	SOIL	BS	7440-38-2	As	-2.32E+00	U	UG/G	4.35E+00	4.35E+00	1.10E+00	0.2481	G	8.77E-01			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V8	SOIL	BS	7440-39-3	Ba	7.54E+01		UG/G	9.07E-01	9.07E-01	6.70E-01	0.2481	G	5.52E-01			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V8	SOIL	BS	7440-41-7	Beryllium	2.03E-01		UG/G	1.21E-01	1.21E-01	9.00E-03	0.2481	G	7.43E-03			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V8	SOIL	BS	7440-43-9	Cadmium	1.42E-01	U	UG/G	1.77E+00	1.77E+00	5.00E-02	0.2481	G	4.09E-02			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V8	SOIL	BS	7440-47-3	Chromium	7.12E+02		UG/G	1.01E+00	1.01E+00	6.30E+00	0.2481	G	5.18E+00			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V8	SOIL	BS	7439-92-1	Lead	2.39E+00	U	UG/G	3.51E+00	3.51E+00	7.30E-01	0.2481	G	5.98E-01			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V8	SOIL	BS	7782-49-2	Se	-5.23E-01	U	UG/G	8.42E+00	8.42E+00	9.70E-01	0.2481	G	7.98E-01			10/26/11 23:18	1299202	46DQ	MNHLX1AA
J1M0V9	SOIL	BS	7440-22-4	Ag	7.88E-02	U	UG/G	1.10E+00	1.10E+00	8.70E-02	0.2508	G	7.16E-02			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0V9	SOIL	BS	7440-38-2	As	1.96E-02	U	UG/G	4.31E+00	4.31E+00	7.70E-01	0.2508	G	6.34E-01			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0V9	SOIL	BS	7440-39-3	Ba	7.24E+01		UG/G	8.97E-01	8.97E-01	5.60E-02	0.2508	G	4.58E-02			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0V9	SOIL	BS	7440-41-7	Beryllium	2.25E-01		UG/G	1.20E-01	1.20E-01	7.60E-03	0.2508	G	6.27E-03			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0V9	SOIL	BS	7440-43-9	Cadmium	1.32E-01	U	UG/G	1.75E+00	1.75E+00	1.40E-02	0.2508	G	1.18E-02			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0V9	SOIL	BS	7440-47-3	Chromium	3.64E+02		UG/G	9.97E-01	9.97E-01	1.30E+00	0.2508	G	1.05E+00			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0V9	SOIL	BS	7439-92-1	Lead	3.44E+00	U	UG/G	3.47E+00	3.47E+00	6.70E-01	0.2508	G	5.53E-01			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0V9	SOIL	BS	7782-49-2	Se	-3.51E-01	U	UG/G	8.33E+00	8.33E+00	1.40E-01	0.2508	G	1.17E-01			10/26/11 23:21	1299202	46DQ	MNHL01AA
J1M0W0	SOIL	BS	7440-22-4	Ag	4.59E-02	U	UG/G	1.10E+00	1.10E+00	9.80E-02	0.2501	G	8.06E-02			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W0	SOIL	BS	7440-38-2	As	1.37E+00	U	UG/G	4.32E+00	4.32E+00	8.80E-01	0.2501	G	7.25E-01			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W0	SOIL	BS	7440-39-3	Ba	6.73E+01		UG/G	9.00E-01	9.00E-01	1.40E-01	0.2501	G	1.14E-01			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W0	SOIL	BS	7440-41-7	Beryllium	2.86E-01		UG/G	1.20E-01	1.20E-01	2.40E-03	0.2501	G	1.99E-03			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W0	SOIL	BS	7440-43-9	Cadmium	1.65E-01	U	UG/G	1.76E+00	1.76E+00	2.30E-02	0.2501	G	1.93E-02			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W0	SOIL	BS	7440-47-3	Chromium	6.79E+01		UG/G	1.00E+00	1.00E+00	9.00E-02	0.2501	G	7.43E-02			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W0	SOIL	BS	7439-92-1	Lead	5.51E+00		UG/G	3.48E+00	3.48E+00	6.10E-01	0.2501	G	5.05E-01			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W0	SOIL	BS	7782-49-2	Se	-5.09E-01	U	UG/G	8.36E+00	8.36E+00	8.20E-01	0.2501	G	6.75E-01			10/26/11 23:24	1299202	46DQ	MNHL11AA
J1M0W1	SOIL	BS	7440-22-4	Ag	7.75E-02	U	UG/G	1.11E+00	1.11E+00	1.90E-01	0.2468	G	1.54E-01			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W1	SOIL	BS	7440-38-2	As	-1.63E+00	U	UG/G	4.38E+00	4.38E+00	5.40E-01	0.2468	G	4.43E-01			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W1	SOIL	BS	7440-39-3	Ba	7.05E+01		UG/G	9.12E-01	9.12E-01	5.40E-01	0.2468	G	4.45E-01			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W1	SOIL	BS	7440-41-7	Beryllium	2.41E-01		UG/G	1.22E-01	1.22E-01	1.20E-02	0.2468	G	9.92E-03			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W1	SOIL	BS	7440-43-9	Cadmium	1.55E-01	U	UG/G	1.78E+00	1.78E+00	5.60E-03	0.2468	G	4.60E-03			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W1	SOIL	BS	7440-47-3	Chromium	6.13E+02		UG/G	1.01E+00	1.01E+00	4.90E+00	0.2468	G	4.01E+00			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W1	SOIL	BS	7439-92-1	Lead	2.19E+00	U	UG/G	3.53E+00	3.53E+00	3.70E-01	0.2468	G	3.02E-01			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W1	SOIL	BS	7782-49-2	Se	-9.56E-01	U	UG/G	8.47E+00	8.47E+00	6.60E-01	0.2468	G	5.44E-01			10/26/11 23:27	1299202	46DQ	MNHL21AA
J1M0W2	SOIL	BS	7440-22-4	Ag	7.74E-02	U	UG/G	1.11E+00	1.11E+00	8.00E-02	0.2470	G	6.55E-02			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W2	SOIL	BS	7440-38-2	As	-1.43E-01	U	UG/G	4.37E+00	4.37E+00	7.30E-01	0.2470	G	5.97E-01			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W2	SOIL	BS	7440-39-3	Ba	5.71E+01		UG/G	9.11E-01	9.11E-01	8.50E-01	0.2470	G	7.03E-01			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W2	SOIL	BS	7440-41-7	Beryllium	2.49E-01		UG/G	1.21E-01	1.21E-01	1.90E-02	0.2470	G	1.52E-02			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W2	SOIL	BS	7440-43-9	Cadmium	1.41E-01	U	UG/G	1.78E+00	1.78E+00	5.50E-02	0.2470	G	4.56E-02			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W2	SOIL	BS	7440-47-3	Chromium	2.91E+02		UG/G	1.01E+00	1.01E+00	4.90E+00	0.2470	G	4.06E+00			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W2	SOIL	BS	7439-92-1	Lead	3.35E+00	U	UG/G	3.52E+00	3.52E+00	7.20E-01	0.2470	G	5.93E-01			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W2	SOIL	BS	7782-49-2	Se	-4.51E-01	U	UG/G	8.46E+00	8.46E+00	1.00E+00	0.2470	G	8.62E-01			10/26/11 23:30	1299202	46DQ	MNHL31AA
J1M0W3	SOIL	BS	7440-22-4	Ag	8.59E-02	U	UG/G	1.08E+00	1.08E+00	1.20E-01	0.2542	G	9.77E-02			10/26/11 23:33	1299202	46DQ	MNHL51AA
J1M0W3	SOIL	BS	7440-38-2	As	-5.71E-01	U	UG/G	4.25E+00	4.25E+00	5.40E-01	0.2542	G	4.43E-01			10/26/11 23:33	1299202	46DQ	MNHL51AA

Client_id	Matrix	Result_type	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limit	Reporting_Limit	Uncertainty_1	Analyzed_s	Analyzed_Decision_level_L	CSRec	AddedAm	Analysis_date_time	Batch_nbr	Test_Method	Lab_sample_id
J1M0W3	SOIL	BS	7440-39-3	Ba	6.50E+01		UG/G	8.85E-01	8.85E-01	2.30E-01	0.2542	G	1.93E-01			10/26/11 23:33	1299202	46DQ	MNHL51AA
J1M0W3	SOIL	BS	7440-41-7	Beryllium	2.70E-01		UG/G	1.18E-01	1.18E-01	1.40E-02	0.2542	G	1.16E-02			10/26/11 23:33	1299202	46DQ	MNHL51AA
J1M0W3	SOIL	BS	7440-43-9	Cadmium	1.45E-01	U	UG/G	1.73E+00	1.73E+00	8.10E-02	0.2542	G	6.69E-02			10/26/11 23:33	1299202	46DQ	MNHL51AA
J1M0W3	SOIL	BS	7440-47-3	Chromium	4.34E+02		UG/G	9.83E-01	9.83E-01	1.90E+00	0.2542	G	1.56E+00			10/26/11 23:33	1299202	46DQ	MNHL51AA
J1M0W3	SOIL	BS	7439-92-1	Lead	2.78E+00	U	UG/G	3.42E+00	3.42E+00	4.30E-01	0.2542	G	3.50E-01			10/26/11 23:33	1299202	46DQ	MNHL51AA
J1M0W3	SOIL	BS	7782-49-2	Se	-9.52E-01	U	UG/G	8.22E+00	8.22E+00	6.20E-01	0.2542	G	5.09E-01			10/26/11 23:33	1299202	46DQ	MNHL51AA
J1M0W4	SOIL	BS	7440-22-4	Ag	3.42E-03	U	UG/G	1.11E+00	1.11E+00	2.50E-01	0.2484	G	2.02E-01			10/26/11 23:36	1299202	46DQ	MNHL61AA
J1M0W4	SOIL	BS	7440-38-2	As	-5.84E-01	U	UG/G	4.35E+00	4.35E+00	1.30E+00	0.2484	G	1.05E+00			10/26/11 23:36	1299202	46DQ	MNHL61AA
J1M0W4	SOIL	BS	7440-39-3	Ba	6.79E+01		UG/G	9.06E-01	9.06E-01	9.60E-01	0.2484	G	7.89E-01			10/26/11 23:36	1299202	46DQ	MNHL61AA
J1M0W4	SOIL	BS	7440-41-7	Beryllium	2.42E-01		UG/G	1.21E-01	1.21E-01	1.40E-02	0.2484	G	1.15E-02			10/26/11 23:36	1299202	46DQ	MNHL61AA
J1M0W4	SOIL	BS	7440-43-9	Cadmium	1.52E-01	U	UG/G	1.77E+00	1.77E+00	3.20E-02	0.2484	G	2.66E-02			10/26/11 23:36	1299202	46DQ	MNHL61AA
J1M0W4	SOIL	BS	7440-47-3	Chromium	4.38E+02		UG/G	1.01E+00	1.01E+00	3.50E+00	0.2484	G	2.92E+00			10/26/11 23:36	1299202	46DQ	MNHL61AA
J1M0W4	SOIL	BS	7439-92-1	Lead	2.52E+00	U	UG/G	3.50E+00	3.50E+00	3.40E-01	0.2484	G	2.83E-01			10/26/11 23:36	1299202	46DQ	MNHL61AA
J1M0W4	SOIL	BS	7782-49-2	Se	-8.22E-01	U	UG/G	8.41E+00	8.41E+00	4.00E-01	0.2484	G	3.30E-01			10/26/11 23:36	1299202	46DQ	MNHL61AA
INTRA-LAB BLANK	SOIL	BLK	7440-22-4	Ag	4.55E-04	U	MG/L	5.50E-03	5.50E-03	6.80E-04	0.2579	L	5.62E-04			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB BLANK	SOIL	BLK	7440-38-2	As	2.16E-03	U	MG/L	2.16E-02	2.16E-02	1.20E-03	0.2579	L	9.78E-04			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB BLANK	SOIL	BLK	7440-39-3	Ba	2.02E-05	U	MG/L	4.50E-03	4.50E-03	4.50E-05	0.2579	L	3.68E-05			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB BLANK	SOIL	BLK	7440-41-7	Beryllium	5.67E-05	U	MG/L	6.00E-04	6.00E-04	4.90E-05	0.2579	L	4.00E-05			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB BLANK	SOIL	BLK	7440-43-9	Cadmium	7.19E-05	U	MG/L	8.80E-03	8.80E-03	1.60E-04	0.2579	L	1.35E-04			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB BLANK	SOIL	BLK	7440-47-3	Chromium	3.48E-04	U	MG/L	5.00E-03	5.00E-03	5.00E-04	0.2579	L	4.14E-04			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB BLANK	SOIL	BLK	7439-92-1	Lead	1.00E-03	U	MG/L	1.74E-02	1.74E-02	9.60E-04	0.2579	L	7.92E-04			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB BLANK	SOIL	BLK	7782-49-2	Se	-8.46E-04	U	MG/L	4.18E-02	4.18E-02	3.50E-03	0.2579	L	2.91E-03			10/26/11 21:57	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7440-22-4	Ag	8.72E-01		MG/L	5.50E-03	5.50E-03	6.10E-03	0.2468	L	5.04E-03	0.87	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7440-38-2	As	9.10E-01		MG/L	2.16E-02	2.16E-02	3.50E-03	0.2468	L	2.88E-03	0.91	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7440-39-3	Ba	9.46E-01		MG/L	4.50E-03	4.50E-03	9.30E-03	0.2468	L	7.62E-03	0.95	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7440-41-7	Beryllium	9.27E-01		MG/L	6.00E-04	6.00E-04	3.50E-03	0.2468	L	2.84E-03	0.93	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7440-43-9	Cadmium	9.02E-01		MG/L	8.80E-03	8.80E-03	2.30E-03	0.2468	L	1.89E-03	0.9	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7440-47-3	Chromium	9.16E-01		MG/L	5.00E-03	5.00E-03	2.90E-03	0.2468	L	2.37E-03	0.92	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7439-92-1	Lead	8.89E-01		MG/L	1.74E-02	1.74E-02	2.20E-03	0.2468	L	1.77E-03	0.89	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
INTRA-LAB CHECK	SOIL	LCS	7782-49-2	Se	8.74E-01		MG/L	4.18E-02	4.18E-02	3.90E-03	0.2468	L	3.24E-03	0.87	1	10/26/11 22:00	1299202	46DQ	MNHNN1AA
J1M025 DUP	SOIL	DUP	7440-22-4	Ag	-8.03E-02	U	UG/G	1.11E+00	1.11E+00	1.80E-01	0.2481	G	1.50E-01			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025 DUP	SOIL	DUP	7440-38-2	As	2.19E+00	U	UG/G	4.35E+00	4.35E+00	5.00E-01	0.2481	G	4.13E-01			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025 DUP	SOIL	DUP	7440-39-3	Ba	1.18E+02		UG/G	9.07E-01	9.07E-01	2.00E+00	0.2481	G	1.66E+00			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025 DUP	SOIL	DUP	7440-41-7	Beryllium	3.50E-01		UG/G	1.21E-01	1.21E-01	6.80E-03	0.2481	G	7.21E-03			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025 DUP	SOIL	DUP	7440-43-9	Cadmium	1.07E-01	U	UG/G	1.77E+00	1.77E+00	7.10E-02	0.2481	G	5.88E-02			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025 DUP	SOIL	DUP	7440-47-3	Chromium	6.84E+00		UG/G	1.01E+00	1.01E+00	6.90E-02	0.2481	G	5.67E-02			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025 DUP	SOIL	DUP	7439-92-1	Lead	4.94E+00		UG/G	3.51E+00	3.51E+00	3.90E-01	0.2481	G	3.22E-01			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025 DUP	SOIL	DUP	7782-49-2	Se	-1.14E+00	U	UG/G	8.42E+00	8.42E+00	5.20E-01	0.2481	G	4.27E-01			10/26/11 22:19	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7440-22-4	Ag	1.76E+02		% recovery	1.12E+00	1.12E+00	1.70E+00	0.2458	L	1.40E+00	0.86	203.4	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7440-38-2	As	1.85E+02		% recovery	4.39E+00	4.39E+00	5.50E-01	0.2458	L	4.56E-01	0.92	200.7	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7440-39-3	Ba	1.67E+02		% recovery	9.15E-01	9.15E-01	1.20E+00	0.2458	L	9.46E-01	1.37	121.7	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7440-41-7	Beryllium	1.88E+02		% recovery	1.22E-01	1.22E-01	1.90E+00	0.2458	L	1.58E+00	0.92	203	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7440-43-9	Cadmium	1.82E+02		% recovery	1.79E+00	1.79E+00	6.20E-01	0.2458	L	4.29E-01	0.89	203.3	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7440-47-3	Chromium	1.82E+02		% recovery	1.02E+00	1.02E+00	9.90E-01	0.2458	L	8.17E-01	0.93	195.6	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7439-92-1	Lead	1.75E+02		% recovery	3.54E+00	3.54E+00	4.70E-01	0.2458	L	3.84E-01	0.88	197.9	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MS	7782-49-2	Se	1.79E+02		% recovery	8.50E+00	8.50E+00	8.50E-01	0.2458	L	6.97E-01	0.88	203.4	10/26/11 22:10	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7440-22-4	Ag	1.64E+02		% recovery	1.11E+00	1.11E+00	1.90E+00	0.2482	L	1.60E+00	0.82	201.4	10/26/11 22:14	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7440-38-2	As	1.73E+02		% recovery	4.35E+00	4.35E+00	1.30E+00	0.2482	L	1.06E+00	0.87	198.6	10/26/11 22:14	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7440-39-3	Ba	1.75E+02		% recovery	9.07E-01	9.07E-01	4.60E+00	0.2482	L	3.78E+00	1.42	123.2	10/26/11 22:14	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7440-41-7	Beryllium	1.75E+02		% recovery	1.21E-01	1.21E-01	1.50E+00	0.2482	L	1.27E+00	0.87	201	10/26/11 22:14	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7440-43-9	Cadmium	1.71E+02		% recovery	1.77E+00	1.77E+00	1.30E-01	0.2482	L	1.11E-01	0.85	201.3	10/26/11 22:14	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7440-47-3	Chromium	1.69E+02		% recovery	1.01E+00	1.01E+00	2.00E+00	0.2482	L	1.63E+00	0.87	193.3	10/26/11 22:14	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7439-92-1	Lead	1.64E+02		% recovery	3.51E+00	3.51E+00	1.30E+00	0.2482	L	1.10E+00	0.84	195.7	10/26/11 22:14	1299202	46DQ	MNHK31A0
J1M025	SOIL	MSD	7782-49-2	Se	1.67E+02		% recovery	8.42E+00	8.42E+00	2.60E+00	0.2482	L	2.17E+00	0.83	201.5	10/26/11 22:14	1299202	46DQ	MNHK31A0

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Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1299194

Lab Sample Numbers or SDG: **J01310**

Method/Test/Parameter: **Cr+6 in SOLID / RL-WC-004**

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
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 QC limits?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis	✓			
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?				✓
2. Were all sample holding times met?	✓			✓
D. QC Samples	✓			
1. All results for the preparation blank below limits?				✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?	✓			✓
5. ICP only: One serial dilution performed per SDG?			✓	✓
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	✓
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	✓

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
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:

Analyst: H. Rafari Date: 10-27-11

Second-Level Review: [signature] Date: 10/27/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-327	Page 1 of 2
Collector: Q Stowe	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 2A; Data Turnaround: ~~21 Days~~ 24 Hr
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Slope 25' - 35' bgs	SAF No.: RC-074	
Ice Chest No.: N/A	Field Logbook No.: EL-1607-12; COA: 00D1002600	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

SDG # JO1310

LOT # J1J260502

Report: 10/27/11

J1J260502

Preservation	Cool 4C	Cool 4C										
Type of Container	G/P	G/P										
No. of Container(s)	1	1										
Volume	125mL	125mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)										
Sample No.	Matrix *	Sample Date	Sample Time									
J1M025 MNHK3	SOIL	10-26-11	1306	X	X							
J1M026 MNHK5	SOIL	10-26-11	1255	X	X							
J1M027 MNHK6	SOIL	10-26-11	1250	X	X		LV 10/26/11					
J1M028 ~~MNHK~~	SOIL	10-26-11	1308	X	X	MNHLA						
J1M029 MNHLF	SOIL	10-26-11	1239	X	X							

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/26/11 1450	D. Newman	10/26/11 1450
D. Newman	10/26/11 1635	A. Freier	10-26-11 1635
A. Freier (WCH)	10-26-11 1710	J. Stockstock TALL	10-26-11 1710

SPECIAL INSTRUCTIONS

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

RECEIVED COR DATE 10-26-11

Matrix *: S=Soil; SE=Sediment; SO=Solid; Sl=Sludge; W = Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-327	Page 2 of 2
Collector: Q Stowe	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code ~~81~~ 2A DR 10/26/11 Data Turnaround ~~21 Days~~ 24 Hr DR 10/26/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Slope 25' - 35' bgs	SAF No.: RC-074	
Ice Chest No.: N/A	Field Logbook No.: EL-1607-12; COA: 00D1002600	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

SDG# J01310
LOT# J1J240502

Preservation	Cool 4C	Cool 4C										
Type of Container	G/P	G/P										
No. of Container(s)	1	1										
Volume	125mL	125mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn {Hexavalent Chromium}										

Sample No.	Matrix *	Sample Date	Sample Time											
J1M030 MNHLL	SOIL	10-26-11	1302	X	X									
J1M031 MNHLN	SOIL	10-26-11	1235	X	X									
J1M032 MNHLP	SOIL	10-26-11	1300	X	X									
J1M033 MNHLQ	SOIL	10-26-11	1237	X	X									
J1M0C7 MNHLR	SOIL	10-26-11	1304	X	X									

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/26/11 1450	D. Newman	10/26/11 1450
D Newman	10/26/11 1635	A. Freier	1635 10-26-11
A Freier	WCH 1710 10-26-11	J. Beck TALK	10-26-11 1710

SPECIAL INSTRUCTIONS

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

CQ 10-26-11

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-329	Page 1 of 2

Collector: Q. Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 2A DN 10/26/11	Data Turnaround: ~~21 Days~~ 24 Hr DN 10/26/11		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Area 50' bgs		SAF No.: RC-074
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: 00D1002600	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

SDG# J01310

LOT # JIJ260502

Preservation	Cool 4C	Cool 4C	None	Cool 4C							
Type of Container	G/P	G/P	G	G/P							
No. of Container(s)	1	1	1	Ø	DN 10/26/11						
Volume	125mL	125mL	60mL	125ml							
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	See item (2) in Special Instructions.	pH *							

Sample No.	Matrix *	Sample Date	Sample Time										
J1M0V5 MNHLT	SOIL	10-26-11	1358	X	X		X						
J1M0V6 MNHLV	SOIL	10-26-11	1340	X	X		X						
J1M0V7 MNHLW	SOIL	10-26-11	1346	X	X		X						
J1M0V8 MNHLX	SOIL	10-26-11	1356	X	X		X						
J1M0V9 MNHLO	SOIL	10-26-11	1352	X	X		X						

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/26/11 1450	D. Newman	10/26/11 1450
D. Newman	10/26/11 1635	A. Freier	10-26-11 1635
A. Freier (WCH)	10-26-11 1710	J. Beck (THL)	10-26-11 1710

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}
(2) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}

* Run pH analysis from available media DN 10/26/11
* Please contact Joan Kessner for pH analysis AF 10-26-11

COK 10-26-11

Matrix *: S=Soil, SE=Sediment, SO=Solid, SI=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

TestAmerica Laboratories, Inc.

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-329	Page 2 of 2

Collector: Q. Stowe	Company Contact: Joan Kessner Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 2A DT 10/26/11 Data Turnaround: ~~21 Days~~ 24 Hr DT 10/26/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Area 50' bgs	SAF No.: RC-074	
Ice Chest No.: NA	Field Logbook No.: EL-1607-12 COA: 00D1002600	Method of Shipment: Hand Deliver	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

SDG # JJ01316

LOT # JIJ260502

Preservation	Cool 4C	Cool 4C	None	Cool 4C								
Type of Container	G/P	G/P	G	G/P								
No. of Container(s)	1	1	1	Ø								
Volume	125mL	125mL	60mL	125ml								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	See item (2) in Special Instructions.	pH*								

Sample No.	Matrix *	Sample Date	Sample Time											
J1M0W0 MNHL1	SOIL	10-26-11	1342	X	X		X							
J1M0W1 MNHL2	SOIL	10-26-11	1348	X	X		X							
J1M0W2 MNHL3	SOIL	10-26-11	1344	X	X		X							
J1M0W3 MNHL5	SOIL	10-26-11	1350	X	X		X							
J1M0W4 MNHL4	SOIL	10-26-11	1354	X	X		X							

DT 10/26/11

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	QS 10/26/11 1450 10/26/11	D. Newman	10/26/11 1450
D. Newman	10/26/11 1635	A. Freier	10-26-11 1635
A. Freier (WCH)	1710 10-26-11	J. Bock TALL	1710 10-26-11

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}
(2) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}

* Run pH analysis from available media. DT 10/26/11
* Please contact Joan Kessner for pH analysis AJ 10-26-11

QS 10-26-11

Matrix *: S=Soil, SE=Sediment, SO=Solid, SL=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

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Sample Check-in List

Date/Time Received: 10/26/11 Container GM Screen Result: (Airlock) .04 Initials[LW]
Sample GM Screen Result (Sample Receiving) .06 Initials[LW]

Client: WCH SDG #: JD1310 NA [ ] SAF #: RL-074 NA [ ]

Lot Number: JIJ260502

Chain of Custody # RL-074-327; 329

Shipping Container ID: Hand Delivery NA [ ] Air Bill Number: NA [ ]

Samples received inside shipping container/cooler/box Yes [LW] 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 [LW]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [LW]
3. Cooler temperature: 6 °C NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [LW]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [LW] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 20
7. Containers received: 40x 125mlp

8. Sample holding times exceeded? NA [ ] Yes [ ] No [LW]
9. Samples have:
   ____ tape
   LW custody seals
   ____ hazard labels
   LW appropriate sample labels
10. Matrix:
    LW A (FLT, Wipe, Solid, Soil)
    ____ S (Air, Niosh 7400)
    ____ I (Water)
    ____ T (Biological, Ni-63)
11. Samples:
    LW are in good condition
    ____ are broken
    ____ are leaking
    ____ have air bubbles (Only for samples requiring no head space)
    ____ Other
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [LW]
    (If acidification is necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition on table overleaf)

    RPL ID # of preservative used :
13. Were any anomalies identified in sample receipt? Yes [ ] No [LW]
14. Description of anomalies (include sample numbers): NA LW

LS-023, Rev. 15, 07/11 See over for additional information.

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

16. Additional Information: _____

[ ] Client/Courier denied temperature check. [✓] Client/Courier unpack cooler.

Sample Custodian: [signature] Date: 10/26/11

Client Informed on _____ by _____ Person contacted _____

[signature] No action necessary; process as is

Project Manager [signature] Date 10-27-11

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH

TAP

LOT 2800

TAP

LOT 2800

LS-023, Rev. 15, 07/11

See over for additional information.

10/26/2011 9:01:33 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

AnalyDueDate: 10/27/2011

Batch: 1299194 SOIL mg/kg PM, Quote: RW2, 88144

SEQ Batch, Test: None

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MNHK3-1-AC J1J260502-1-SAMP 10/26/2011 13:06			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
2 MNHK3-1-AL-S J1J260502-1-MS 10/26/2011 13:06			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
3 MNHK3-1-AM-D J1J260502-1-MSD 10/26/2011 13:06			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
4 MNHK3-1-AN-X J1J260502-1-DUP 10/26/2011 13:06			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
5 MNHK5-1-AC J1J260502-2-SAMP 10/26/2011 12:55			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
6 MNHK6-1-AC J1J260502-3-SAMP 10/26/2011 12:50			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
7 MNHLA-1-AC J1J260502-4-SAMP 10/26/2011 13:08			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:

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10/26/2011 9:01:33 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

AnalyDueDate: 10/27/2011

Batch: 1299194 SOIL mg/kg PM, Quote: RW2, 88144
SEQ Batch, Test: None

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MNHLF-1-AC J1J260502-5-SAMP 10/26/2011 12:39			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
9 MNHLL-1-AC J1J260502-6-SAMP 10/26/2011 13:02			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
10 MNHLN-1-AC J1J260502-7-SAMP 10/26/2011 12:35			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
11 MNHLP-1-AC J1J260502-8-SAMP 10/26/2011 13:00			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
12 MNHLQ-1-AC J1J260502-9-SAMP 10/26/2011 12:37			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
13 MNHLR-1-AC J1J260502-10-SAMP 10/26/2011 13:04			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
14 MNHLT-1-AC J1J260502-11-SAMP 10/26/2011 13:58			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:

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10/26/2011 9:01:34 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)

Pipet #:

AnalyDueDate: 10/27/2011

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 1299194 SOIL mg/kg PM, Quote: RW2, 88144

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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MNHLV-1-AC													
J1J260502-12-SAMP													
10/26/2011 01:40			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
16 MNHLW-1-AC													
J1J260502-13-SAMP													
10/26/2011 13:46			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
17 MNHLX-1-AC													
J1J260502-14-SAMP													
10/26/2011 13:56			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
18 MNHL0-1-AC													
J1J260502-15-SAMP													
10/26/2011 13:52			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
19 MNHL1-1-AC													
J1J260502-16-SAMP													
10/26/2011 13:42			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
20 MNHL2-1-AC													
J1J260502-17-SAMP													
10/26/2011 13:48			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
21 MNHL3-1-AC													
J1J260502-18-SAMP													
10/26/2011 13:44			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:

10/26/2011 9:01:34 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Washington Closure Hanford LLC

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

AnalyDueDate: 10/27/2011

Batch: 1299194 SOIL mg/kg PM, Quote: RW2, 88144
SEQ Batch, Test: None

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
22 MNHL5-1-AC													
J1J260502-19-SAMP													
10/26/2011 13:50			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
23 MNHL6-1-AC													
J1J260502-20-SAMP													
10/26/2011 13:54			AmtRec: 2X125P		#Containers: 2				Scr:		Alpha:		Beta:
24 MNHM3-1-AA-B													
J1J260000-194-BLK													
10/26/2011 21:00 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:
25 MNHM3-1-AC-C													
J1J260000-194-LCS													
10/26/2011 21:00 pd			AmtRec:		#Containers: 1				Scr:		Alpha:		Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Washington Closure Hanford LLC, RW2, 88144

MNHK31AC-SAMP Constituent List:

MNHK31AL-MS Constituent List:

MNHK31AM-MSD:

MNHM31AA-BLK:

Sample Preparation/Analysis

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 10/27/2011

Batch: 1299194 mg/kg
SEQ Batch, Test: None

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

MNHM31AC-LCS:

MNHK31AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNHK31AL-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNHK31AM-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNHM31AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MNHM31AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

RECEIVED NOV 2011

Job Number: 280-22154-1

SDG Number: J01310

Job Description: SAF# RC-074

For:
Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
11/1/2011 12:01 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
11/01/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-22154-1

SDG #: J01310
SAF#: RC-074

Date SDG Closed: October 28, 2011
Data Deliverable: 3 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1M0V5	280-22154-1	9045C	9045C
J1M0V6	280-22154-2	9045C	9045C
J1M0V7	280-22154-3	9045C	9045C
J1M0V8	280-22154-4	9045C	9045C
J1M0V9	280-22154-5	9045C	9045C
J1M0W0	280-22154-6	9045C	9045C
J1M0W1	280-22154-7	9045C	9045C
J1M0W2	280-22154-8	9045C	9045C
J1M0W3	280-22154-9	9045C	9045C
J1M0W4	280-22154-10	9045C	9045C

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this Case Narrative. 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 signature on the Report Cover.

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 10/28/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.1 C.

Samples listed on the chains-of-custody were logged for pH 9045C analysis with a 3 day turnaround time, as instructed by the client.

GENERAL CHEMISTRY - SW846 9045C - PH
No anomalies were encountered.

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
pH	TAL DEN	SW846 9045C	
Deionized Water Leaching Procedure			ASTM DI Leach

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

Method	Analyst	Analyst ID
SW846 9045C	Woolley, Mark	MW

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-22154-1	J1M0V5	Solid	10/26/2011 1358	10/28/2011 1000
280-22154-2	J1M0V6	Solid	10/26/2011 1340	10/28/2011 1000
280-22154-3	J1M0V7	Solid	10/26/2011 1346	10/28/2011 1000
280-22154-4	J1M0V8	Solid	10/26/2011 1356	10/28/2011 1000
280-22154-5	J1M0V9	Solid	10/26/2011 1352	10/28/2011 1000
280-22154-6	J1M0W0	Solid	10/26/2011 1342	10/28/2011 1000
280-22154-7	J1M0W1	Solid	10/26/2011 1348	10/28/2011 1000
280-22154-8	J1M0W2	Solid	10/26/2011 1344	10/28/2011 1000
280-22154-9	J1M0W3	Solid	10/26/2011 1350	10/28/2011 1000
280-22154-10	J1M0W4	Solid	10/26/2011 1354	10/28/2011 1000

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0V5**

Lab Sample ID: 280-22154-1
Client Matrix: Solid

Date Sampled: 10/26/2011 1358
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.27		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 1939 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0V6**

Lab Sample ID: 280-22154-2
Client Matrix: Solid

Date Sampled: 10/26/2011 1340
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.62		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 1944 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0V7**

Lab Sample ID: 280-22154-3
Client Matrix: Solid

Date Sampled: 10/26/2011 1346
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.57		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 1949 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0V8**

Lab Sample ID: 280-22154-4
Client Matrix: Solid

Date Sampled: 10/26/2011 1356
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	7.86		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 1951 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0V9**

Lab Sample ID: 280-22154-5
Client Matrix: Solid

Date Sampled: 10/26/2011 1352
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.22		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 1952 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0W0**

Lab Sample ID: 280-22154-6
Client Matrix: Solid

Date Sampled: 10/26/2011 1342
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.79		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 1957 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0W1**

Lab Sample ID: 280-22154-7
Client Matrix: Solid

Date Sampled: 10/26/2011 1348
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	7.58		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 1958 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0W2**

Lab Sample ID: 280-22154-8
Client Matrix: Solid

Date Sampled: 10/26/2011 1344
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.29		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 2000 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0W3**

Lab Sample ID: 280-22154-9
Client Matrix: Solid

Date Sampled: 10/26/2011 1350
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.07		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 2002 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

General Chemistry

Client Sample ID: **J1M0W4**

Lab Sample ID: 280-22154-10
Client Matrix: Solid

Date Sampled: 10/26/2011 1354
Date Received: 10/28/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	7.97		SU	0.0100	0.0100	1.0	9045C

Analysis Batch: 280-93899 Analysis Date: 10/28/2011 2003 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-93772					
280-22154-1	J1M0V5	S	Solid	DI Leach	
280-22154-1DU	Duplicate	S	Solid	DI Leach	
280-22154-2	J1M0V6	S	Solid	DI Leach	
280-22154-3	J1M0V7	S	Solid	DI Leach	
280-22154-4	J1M0V8	S	Solid	DI Leach	
280-22154-5	J1M0V9	S	Solid	DI Leach	
280-22154-6	J1M0W0	S	Solid	DI Leach	
280-22154-7	J1M0W1	S	Solid	DI Leach	
280-22154-8	J1M0W2	S	Solid	DI Leach	
280-22154-9	J1M0W3	S	Solid	DI Leach	
280-22154-10	J1M0W4	S	Solid	DI Leach	
Analysis Batch:280-93899					
LCS 280-93899/4	Lab Control Sample	T	Water	9045C	
LCSD 280-93899/5	Lab Control Sample Duplicate	T	Water	9045C	
280-22154-1	J1M0V5	S	Solid	9045C	
280-22154-1DU	Duplicate	S	Solid	9045C	
280-22154-2	J1M0V6	S	Solid	9045C	
280-22154-3	J1M0V7	S	Solid	9045C	
280-22154-4	J1M0V8	S	Solid	9045C	
280-22154-5	J1M0V9	S	Solid	9045C	
280-22154-6	J1M0W0	S	Solid	9045C	
280-22154-7	J1M0W1	S	Solid	9045C	
280-22154-8	J1M0W2	S	Solid	9045C	
280-22154-9	J1M0W3	S	Solid	9045C	
280-22154-10	J1M0W4	S	Solid	9045C	

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-22154-1
Sdg Number: J01310

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-93899

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-93899/4	Analysis Batch:	280-93899	Instrument ID:	WC_Orion 3 Star
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	10/28/2011 1936	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-93899/5	Analysis Batch:	280-93899	Instrument ID:	WC_Orion 3 Star
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	10/28/2011 1937	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
pH adj. to 25 deg C-Soluble	100	100	97 - 103	0	5		

Duplicate - Batch: 280-93899

Method: 9045C
Preparation: N/A

Lab Sample ID:	280-22154-1	Analysis Batch:	280-93899	Instrument ID:	WC_Orion 3 Star
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	280-93772	Initial Weight/Volume:	1.0 mL
Analysis Date:	10/28/2011 1941	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	10/28/2011 1725				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	8.27	8.290	0.2	5	

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-329	Page 2 of 2

Collector: Q. Stowe	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 2A DT 10/26/11	Data Turnaround: ~~21 Days~~ 24 Hr DT 10/26/11		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Area 50' bgs		SAF No.: RC-074
Ice Chest No.: NA	Field Logbook No.: EL-1607-12	COA: 00D1002600	Method of Shipment: Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

SDG # J01316

LOT# JIJ260502

Preservation	Cool 4C	Cool 4C	None	Cool 4C
Type of Container	G/P	G/P	G	G/P
No. of Container(s)	1	1	1	Ø
Volume	125mL	125mL	60mL	125ml
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	See item (2) in Special Instructions.	pH*

Sample No.	Matrix *	Sample Date	Sample Time				
J1M0W0 MNHL1	SOIL	10-26-11	1342	X	X		X
J1M0W1 MNHL2	SOIL	10-26-11	1348	X	X		X
J1M0W2 MNHL3	SOIL	10-26-11	1344	X	X		X
J1M0W3 MNHL5	SOIL	10-26-11	1350	X	X		X
J1M0W4 MNHL4	SOIL	10-26-11	1354	X	X		X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	QS 10/26/11 1450 10/26/11	D. Newman	10/26/11 1450
D. Newman	10/26/11 1635	A. Freier	10-26-11 1635
A. Freier (WCH)	1710 10-26-11	D. Bock / Bock TALX	1710 10-26-11
TALX	10-27-11 1330		

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver)
(2) Metals by ICP (TCLP) - 1311/6010 (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver); Mercury (TCLP) - 1311/7470 (Mercury)

* Run pH analysis from available media. DT 10/26/11

* Please contact Joan Kessner for pH analysis AJ 10-26-11

10-26-11

Matrix *: S=Soil, SE=Sediment, SO=Solid, SL=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

2-1

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-329	Page 1 of 2

Collector: Q. Stowe	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 2A DN 10/26/11; Data Turnaround: ~~21 Days~~ 24 Hr DN 10/26/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 100-D-100 Excavation Area 50' bgs	SAF No.: RC-074	
Ice Chest No.: NA	Field Logbook No.: EL-1607-12; COA: 00D1002600	Method of Shipment: Hand Deliver	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

SDG# J01310

LOT # J1J260502

Preservation	Cool 4C	Cool 4C	None	Cool 4C							
Type of Container	G/P	G/P	G	G/P	DN 10/26/11						
No. of Container(s)	1	1	1	Ø							
Volume	125mL	125mL	60mL	125ml							
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - Quick Turn (Hexavalent Chromium)	See item (2) in Special Instructions.	pH *							

Sample No.	Matrix *	Sample Date	Sample Time										
J1M0V5 MNHLT	SOIL	10-26-11	1358	X	X		X						
J1M0V6 MNHLV	SOIL	10-26-11	1340	X	X		X						
J1M0V7 MNHLW	SOIL	10-26-11	1346	X	X		X						
J1M0V8 MNHLX	SOIL	10-26-11	1356	X	X		X						
J1M0V9 MNHLO	SOIL	10-26-11	1352	X	X		X						

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	10/26/11 1450	D. Newman	10/26/11 1450
D. Newman	10/26/11 1635	A. Freier	10-26-11 1635
A. Freier (WCH)	10-26-11 1710	J. Bock (TALL)	10-26-11 1710
Carl Kya Cameron Kraft (TALL)	10-27-11 1320	[illegible]	10/28/11 1100

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}
(2) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}

* Run pH analysis from available media DN 10/26/11

* Please contact Joan Kessner for pH analysis

AF 10-26-11

COK Date 10-26-11

Matrix *: S=Soil, SE=Sediment, SO=Solid, SL=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

VCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - Solid

Analytical Due:

Report Due: 11/4/11 (Rush 5 day TAT)

Sample Check-in List

Date/Time Received: 10/28/11 1000 **GM Screen Result** 12 **microR/hr**

Client: Washington Closure Hanford **SDG #:** J01310 NA[ ] **SAF #:** RC-074 NA [ ]

Job Number: 22154 **Chain of Custody #** RC-074-329

Shipping Container ID: ~~WCH-11-0510~~ NA **Air Bill #** 7976752126 57

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 2-1 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 10
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] **Amount HNO_3 Added** ___
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] **Date:** 10/28/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 10/31/11

From: (509) 375-3131 Origin ID: PSCA
Shipping Dept.
TESTAMERICA LABORATORIES
2800 GEORGE WASHINGTON WAY

RICHLAND, WA 99354

J11201108050225

Ship Date: 27OCT11
ActWgt: 38.0 LB
CAD: 1033413/INET3210

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

SAMPLE RECEIVING DENVER_WCH
TESTAMERICA DENVER (WCH)
4955 YARROW ST

ARVADA, CO 80002

FRI - 28 OCT A1
PRIORITY OVERNIGHT

TRK# 7976 7521 2657
0201

XH WHHA

80002
CO-US
DEN

50FG1/A013/F5F4

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