Analytical Data Package Prepared For

CH2M Hill Plateau Remediation

Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains 76 *Pages*

Report Nbr: 54558

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W06525	S13-012	B2N1K8	J3A160408-1	MXWAR1A	9MXWAR10	3021060
		B2N1L6	J3A160408-2	MXWAT1A	9MXWAT10	3021060
	W13-001	B2N4C6	J3A160410-1	MXWCG1A	9MXWCG10	3021059
		B2N4C7	J3A160410-2	MXWCT1A	9MXWCT10	3021059
	S13-001	B2N701	J3A160417-1	MXWD11AA	9MXWD110	3021058
		B2N702	J3A160417-2	MXWD21AA	9MXWD210	3021058
		B2N7B5	J3A160417-3	MXWD41AA	9MXWD410	3021058
		B2N7B9	J3A160417-4	MXWD51AA	9MXWD510	3021058
		B2N7R0	J3A160417-5	MXWD61AA	9MXWD610	3021060
		B2N7R0	J3A160417-5	MXWD61AC	9MXWD610	3021058
		B2N7R5	J3A160429-1	MXWHR1A	9MXWHR10	3021060
	S13-012	B2N1D3	J3A170426-1	MXWTJ1AA	9MXWTJ10	3021058
	I13-012	B2N618	J3A170427-1	MXWTK1A	9MXWTK10	3021058
	A13-001	B2N627	J3A180420-1	MXW1A1AA	9MXW1A10	3021058
		B2N633	J3A180420-2	MXW1D1AA	9MXW1D10	3021058

Comments:

Report Nbr: 54558

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W06525	A13-001	B2N641	J3A180420-3	MXW1E1AA	9MXW1E10	3021058
		B2N643	J3A180420-4	MXW1F1AA	9MXW1F10	3021058
		B2N645	J3A180420-5	MXW1G1AA	9MXW1G10	3021058
	W13-001	B2N3W5	J3A180421-1	MXW1H1AA	9MXW1H10	3021059
		B2N3W5	J3A180421-1	MXW1H1AC	9MXW1H10	3021058
		B2N3X3	J3A180421-2	MXW1J1AA	9MXW1J10	3021059
		B2N3X3	J3A180421-2	MXW1J1AC	9MXW1J10	3021058
		B2N3X8	J3A180421-3	MXW1K1AA	9MXW1K10	3021059
		B2N3X8	J3A180421-3	MXW1K1AC	9MXW1K10	3021058
		B2N3Y3	J3A180421-4	MXW1L1AA	9MXW1L10	3021059
		B2N3Y3	J3A180421-4	MXW1L1AC	9MXW1L10	3021058

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop – R3-60
Richland, WA 99352

February 15, 2013

Attention: Scot Fitzgerald

SAF Number	:	S13-012, W13-001, S13-001, I13-012, A13-001
Date SDG Closed	:	January 17, 2013
Number of Samples	:	Twenty-One (21)
Sample Type	:	Water
SDG Number	:	W06525
Data Deliverable	:	30-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 15, 2013 and January 17, 2013, twenty-one water samples were received at TestAmerica (TARL). Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the CH2M specific IDs:

CH2M ID#	TARL ID#	DATE OF RECEIPT	MATRIX
B2N1K8	MXWAR	1/15/13	WATER
B2N1L6	MXWAT	1/15/13	WATER
B2N4C6	MXWCG	1/15/13	WATER
B2N4C7	MXWCT	1/15/13	WATER
B2N701	MXWD1	1/15/13	WATER
B2N702	MXWD2	1/15/13	WATER
B2N7B5	MXWD4	1/15/13	WATER
B2N7B9	MXWD5	1/15/13	WATER
B2N7R0	MXWD6	1/15/13	WATER
B2N7R5	MXWHR	1/16/13	WATER
B2N1D3	MXWTJ	1/16/13	WATER
B2N618	MXWTK	1/16/13	WATER
B2N627	MXW1A	1/17/13	WATER
B2N633	MXW1D	1/17/13	WATER

B2N641	MXW1E	1/17/13	WATER
B2N643	MXW1F	1/17/13	WATER
B2N645	MXW1G	1/17/13	WATER
B2N3W5	MXW1H	1/17/13	WATER
B2N3X3	MXW1J	1/17/13	WATER
B2N3X8	MXW1K	1/17/13	WATER
B2N3Y3	MXW1L	1/17/13	WATER

II. Sample Receipt

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

During the bi-weekly phone call on January 9, 2013 TARL was notified that all groundwater samples received after January 1, 2013 will have a 30 day turnaround time regardless if the chain of custodies have a turn around time that is greater than 30 days.

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:

Gamma Spectroscopy
Gamma Spec (LL) by method RL-GAM-001
Iodine-129 (LL) by method RL-GAM-002
Liquid Scintillation Counting
Mid Level Tritium by method RL-LSC-005

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Gamma Spectroscopy
Gamma Spec (LL) by method RL-GAM-001:
The LCS, batch blank, samples and sample duplicate (B2N4C6) results are within contractual requirements.

Iodine-129 (LL) by method RL-GAM-002:

CH2M Hill Plateau Remediation Company
February 15, 2013

The LCS, batch blank, samples and sample duplicate (B2N627) results are within contractual requirements.

Liquid Scintillation Counting
Mid Level Tritium by method RL-LSC-005:
The LCS, batch blank, samples and sample duplicate (B2N7R5) results are within contractual requirements.

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

Reviewed and approved:

for Sandra Seger
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.

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 54558 File Name: h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1A10	B2N627		MW6-SBB-A1	A13-001	W06525					01/16/2013 10:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	1.11E-01	pCi/L	1.2E-01	1.2E-01	U	2.17E-01	98.6	I129LL_SEP_LEPS	3.8191E+00	L	02/08/2013 09:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1D10	B2N633		MW6-SBB-A1	A13-001	W06525					01/16/2013 13:06

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	7.55E-02	pCi/L	1.2E-01	1.2E-01	U	2.14E-01	97.0	I129LL_SEP_LEPS	3.8446E+00	L	02/08/2013 13:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1E10	B2N641		MW6-SBB-A1	A13-001	W06525					01/16/2013 10:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	2.56E-01	pCi/L	1.8E-01	1.8E-01		1.60E-01	96.5	I129LL_SEP_LEPS	3.834E+00	L	02/08/2013 13:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1F10	B2N643		MW6-SBB-A1	A13-001	W06525					01/16/2013 12:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	1.18E+00	pCi/L	3.3E-01	3.3E-01		2.10E-01	96.2	I129LL_SEP_LEPS	3.8458E+00	L	02/08/2013 16:54	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1G10	B2N645		MW6-SBB-A1	A13-001	W06525					01/16/2013 13:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	1.79E+00	pCi/L	3.4E-01	3.4E-01		1.52E-01	97.8	I129LL_SEP_LEPS	3.8146E+00	L	02/08/2013 16:55	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1H10	B2N3W5		MW6-SBB-A1	W13-001	W06525					01/16/2013 14:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021059	BE-7	13966-02-4	4.99E+00	pCi/L	1.1E+01	1.1E+01	U	1.96E+01		GAMMALL_GS	2.0027E+00	L	01/25/2013 08:43	I
3021059	CO-60	10198-40-0	6.79E-01	pCi/L	1.3E+00	1.3E+00	U	2.61E+00		GAMMALL_GS	2.0027E+00	L	01/25/2013 08:43	I
3021059	CS-134	13967-70-9	4.06E-01	pCi/L	1.3E+00	1.3E+00	U	2.48E+00		GAMMALL_GS	2.0027E+00	L	01/25/2013 08:43	I
3021059	CS-137	10045-97-3	2.57E-01	pCi/L	1.2E+00	1.2E+00	U	2.21E+00		GAMMALL_GS	2.0027E+00	L	01/25/2013 08:43	I
3021059	EU-152	14683-23-9	-1.71E-01	pCi/L	3.2E+00	3.2E+00	U	5.60E+00		GAMMALL_GS	2.0027E+00	L	01/25/2013 08:43	I
3021059	EU-154	15585-10-1	1.33E+00	pCi/L	3.5E+00	3.5E+00	U	7.01E+00		GAMMALL_GS	2.0027E+00	L	01/25/2013 08:43	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

I

3021059	EU-155	14391-16-3	-1.91E+00	pCi/L	2.2E+00	2.2E+00	U	3.55E+00		GAMMALL_GS	2.0027E+00	L	01/25/2013	08:43 I
3021059	K-40	13966-00-2	-2.12E+01	pCi/L	3.2E+01	3.2E+01	U	6.65E+01		GAMMALL_GS	2.0027E+00	L	01/25/2013	08:43 I
3021059	RU-106	13967-48-1	-1.08E+01	pCi/L	1.1E+01	1.1E+01	U	1.85E+01		GAMMALL_GS	2.0027E+00	L	01/25/2013	08:43 I
3021059	SB-125	14234-35-6	1.75E-01	pCi/L	2.7E+00	2.7E+00	U	4.85E+00		GAMMALL_GS	2.0027E+00	L	01/25/2013	08:43 I
3021058	I-129	15046-84-1	2.37E-01	pCi/L	1.7E-01	1.7E-01		1.70E-01	97.3	I129LL_SEP_LEPS	3.9015E+00	L	02/08/2013	20:22 I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1J10	B2N3X3		MW6-SBB-A1	W13-001	W06525					01/16/2013 09:37

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021059	BE-7	13966-02-4	-6.71E+00	pCi/L	1.1E+01	1.1E+01	U	1.79E+01		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	CO-60	10198-40-0	-1.36E-01	pCi/L	1.5E+00	1.5E+00	U	2.75E+00		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	CS-134	13967-70-9	-9.90E-01	pCi/L	1.4E+00	1.4E+00	U	2.40E+00		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	CS-137	10045-97-3	8.73E-01	pCi/L	1.3E+00	1.3E+00	U	2.46E+00		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	EU-152	14683-23-9	-8.31E-02	pCi/L	3.4E+00	3.4E+00	U	5.88E+00		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	EU-154	15585-10-1	2.19E+00	pCi/L	3.8E+00	3.8E+00	U	7.36E+00		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	EU-155	14391-16-3	-2.01E+00	pCi/L	3.3E+00	3.3E+00	U	4.98E+00		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	K-40	13966-00-2	-8.01E+01	pCi/L	4.5E+01	4.5E+01	U	9.04E+01		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	RU-106	13967-48-1	-3.55E+00	pCi/L	1.1E+01	1.1E+01	U	1.95E+01		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021059	SB-125	14234-35-6	-5.60E-01	pCi/L	3.2E+00	3.2E+00	U	5.54E+00		GAMMALL_GS	2.001E+00	L	01/25/2013 08:44	I
3021058	I-129	15046-84-1	5.07E-02	pCi/L	8.9E-02	8.9E-02	U	1.70E-01	95.1	I129LL_SEP_LEPS	3.8738E+00	L	02/08/2013 20:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1K10	B2N3X8		MW6-SBB-A1	W13-001	W06525					01/16/2013 11:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021059	BE-7	13966-02-4	4.32E+00	pCi/L	7.4E+00	7.4E+00	U	1.38E+01		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	CO-60	10198-40-0	-2.95E-01	pCi/L	1.1E+00	1.1E+00	U	2.05E+00		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	CS-134	13967-70-9	8.18E-02	pCi/L	1.2E+00	1.2E+00	U	2.14E+00		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	CS-137	10045-97-3	-8.14E-02	pCi/L	1.1E+00	1.1E+00	U	1.91E+00		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	EU-152	14683-23-9	-9.41E-01	pCi/L	2.4E+00	2.4E+00	U	4.14E+00		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	EU-154	15585-10-1	1.69E+00	pCi/L	2.9E+00	2.9E+00	U	5.96E+00		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	EU-155	14391-16-3	-3.93E-02	pCi/L	1.4E+00	1.4E+00	U	2.46E+00		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	K-40	13966-00-2	-2.58E+01	pCi/L	3.1E+01	3.1E+01	U	6.24E+01		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021059	RU-106	13967-48-1	1.95E+00	pCi/L	8.7E+00	8.7E+00	U	1.59E+01		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

3021059	SB-125	14234-35-6	-1.37E-01	pCi/L	2.5E+00	2.5E+00	U	4.37E+00		GAMMALL_GS	2.0015E+00	L	01/25/2013 08:45	I
3021058	I-129	15046-84-1	1.28E-01	pCi/L	1.4E-01	1.4E-01	U	2.22E-01	95.7	I129LL_SEP_LEPS	3.8519E+00	L	02/11/2013 06:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXW1L10	B2N3Y3		MW6-SBB-A1	W13-001	W06525					01/16/2013 12:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021059	BE-7	13966-02-4	-5.66E+00	pCi/L	8.7E+00	8.7E+00	U	1.42E+01		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	CO-60	10198-40-0	-5.49E-01	pCi/L	1.2E+00	1.2E+00	U	2.05E+00		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	CS-134	13967-70-9	8.71E-01	pCi/L	1.2E+00	1.2E+00	U	2.28E+00		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	CS-137	10045-97-3	5.90E-01	pCi/L	1.1E+00	1.1E+00	U	2.06E+00		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	EU-152	14683-23-9	1.31E+00	pCi/L	2.4E+00	2.4E+00	U	4.46E+00		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	EU-154	15585-10-1	-2.42E-01	pCi/L	3.4E+00	3.4E+00	U	6.28E+00		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	EU-155	14391-16-3	-1.08E+00	pCi/L	1.6E+00	1.6E+00	U	2.72E+00		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	K-40	13966-00-2	-2.63E+01	pCi/L	3.3E+01	3.3E+01	U	6.91E+01		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	RU-106	13967-48-1	3.15E+00	pCi/L	8.6E+00	8.6E+00	U	1.60E+01		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021059	SB-125	14234-35-6	2.05E+00	pCi/L	2.5E+00	2.5E+00	U	4.64E+00		GAMMALL_GS	1.9993E+00	L	01/25/2013 08:46	I
3021058	I-129	15046-84-1	8.08E-02	pCi/L	8.5E-02	8.5E-02	U	1.69E-01	95.1	I129LL_SEP_LEPS	3.8788E+00	L	02/11/2013 06:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXWAR10	B2N1K8		MW6-SBB-A1	S13-012	W06525					01/14/2013 11:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021060	H-3	10028-17-8	7.35E+01	pCi/L	1.2E+01	2.7E+01		2.43E+01	100.0	906.0ML_H3_LSC	1.0015E-02	L	01/23/2013 07:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXWAT10	B2N1L6		MW6-SBB-A1	S13-012	W06525					01/14/2013 10:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021060	H-3	10028-17-8	1.29E+02	pCi/L	1.3E+01	3.1E+01		2.38E+01	100.0	906.0ML_H3_LSC	1.0027E-02	L	01/23/2013 07:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXWCG1	B2N4C6		MW6-SBB-A1	W13-001	W06525					01/14/2013 10:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021059	BE-7	13966-02-4	-4.99E+00	pCi/L	7.1E+00	7.1E+00	U	1.18E+01		GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	CO-60	10198-40-0	-7.22E-02	pCi/L	1.0E+00	1.0E+00	U	1.89E+00		GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	CS-134	13967-70-9	-1.53E-01	pCi/L	1.2E+00	1.2E+00	U	2.11E+00		GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

3021059	CS-137	10045-97-3	-3.87E-01	pCi/L	9.7E-01	9.7E-01	U	1.69E+00	GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	EU-152	14683-23-9	8.97E-01	pCi/L	2.4E+00	2.4E+00	U	4.33E+00	GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	EU-154	15585-10-1	-1.77E+00	pCi/L	2.7E+00	2.7E+00	U	4.58E+00	GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	EU-155	14391-16-3	5.16E-01	pCi/L	1.4E+00	1.4E+00	U	2.48E+00	GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	K-40	13966-00-2	-3.51E+01	pCi/L	3.0E+01	3.0E+01	U	6.09E+01	GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	RU-106	13967-48-1	4.82E-02	pCi/L	8.5E+00	8.5E+00	U	1.55E+01	GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I
3021059	SB-125	14234-35-6	-6.40E-01	pCi/L	2.2E+00	2.2E+00	U	3.87E+00	GAMMALL_GS	2.001E+00	L	01/24/2013 10:55	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXWCT10	B2N4C7		MW6-SBB-A1	W13-001	W06525					01/14/2013 10:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021059	BE-7	13966-02-4	1.03E+00	pCi/L	7.5E+00	7.5E+00	U	1.36E+01		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	CO-60	10198-40-0	-5.31E-01	pCi/L	9.5E-01	9.5E-01	U	1.64E+00		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	CS-134	13967-70-9	3.02E-01	pCi/L	9.9E-01	9.9E-01	U	1.88E+00		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	CS-137	10045-97-3	5.20E-01	pCi/L	9.1E-01	9.1E-01	U	1.76E+00		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	EU-152	14683-23-9	-1.35E-03	pCi/L	2.3E+00	2.3E+00	U	4.04E+00		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	EU-154	15585-10-1	1.98E-01	pCi/L	3.1E+00	3.1E+00	U	5.99E+00		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	EU-155	14391-16-3	3.05E-01	pCi/L	1.4E+00	1.4E+00	U	2.51E+00		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	K-40	13966-00-2	1.84E+01	pCi/L	3.4E+01	3.4E+01	U	2.00E+01		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	RU-106	13967-48-1	-5.82E+00	pCi/L	7.7E+00	7.7E+00	U	1.27E+01		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I
3021059	SB-125	14234-35-6	-1.76E+00	pCi/L	2.1E+00	2.1E+00	U	3.53E+00		GAMMALL_GS	2.0003E+00	L	01/24/2013 14:27	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXWD110	B2N701		MW6-SBB-A1	S13-001	W06525					01/14/2013 13:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	9.09E+00	pCi/L	1.1E+00	1.1E+00		2.66E-01	97.3	I129LL_SEP_LEPS	3.8661E+00	L	02/07/2013 17:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9MXWD210	B2N702		MW6-SBB-A1	S13-001	W06525					01/14/2013 13:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	8.72E+00	pCi/L	1.0E+00	1.0E+00		2.78E-01	98.6	I129LL_SEP_LEPS	3.8628E+00	L	02/07/2013 19:05	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

9MXWD410 B2N7B5 MW6-SBB-A1 S13-001 W06525 01/14/2013 10:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	3.29E+00	pCi/L	5.3E-01	5.3E-01		1.95E-01	98.1	I129LL_SEP_LEPS	3.8625E+00	L	02/07/2013 21:14	I

Lab Sample Id: 9MXWD510 | Client Id: B2N7B9 | Test User | Contract Nbr: MW6-SBB-A1 | SAF Nbr | Sdg Nbr: S13-001 | QC Type: W06525 | Moisture/ Solids%*: | Distilled Volume | Sample On Date: | Collection Date: 01/14/2013 12:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	2.09E+00	pCi/L	3.5E-01	3.5E-01		2.03E-01	97.8	I129LL_SEP_LEPS	3.8732E+00	L	02/08/2013 01:07	I

Lab Sample Id: 9MXWD610 | Client Id: B2N7R0 | Test User | Contract Nbr: MW6-SBB-A1 | SAF Nbr | Sdg Nbr: S13-001 | QC Type: W06525 | Moisture/ Solids%*: | Distilled Volume | Sample On Date: | Collection Date: 01/14/2013 13:37

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021060	H-3	10028-17-8	8.94E+00	pCi/L	1.1E+01	2.4E+01	U	2.43E+01	100.0	906.0ML_H3_LSC	1.0013E-02	L	01/23/2013 07:00	I
3021058	I-129	15046-84-1	3.66E-03	pCi/L	8.8E-02	8.8E-02	U	1.61E-01	97.0	I129LL_SEP_LEPS	3.7204E+00	L	02/08/2013 01:08	I

Lab Sample Id: 9MXWHR10 | Client Id: B2N7R5 | Test User | Contract Nbr: MW6-SBB-A1 | SAF Nbr | Sdg Nbr: S13-001 | QC Type: W06525 | Moisture/ Solids%*: | Distilled Volume | Sample On Date: | Collection Date: 01/15/2013 14:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021060	H-3	10028-17-8	7.52E+01	pCi/L	1.2E+01	2.7E+01		2.48E+01	100.0	906.0ML_H3_LSC	1.001E-02	L	01/23/2013 07:00	I

Lab Sample Id: 9MXWTJ10 | Client Id: B2N1D3 | Test User | Contract Nbr: MW6-SBB-A1 | SAF Nbr | Sdg Nbr: S13-012 | QC Type: W06525 | Moisture/ Solids%*: | Distilled Volume | Sample On Date: | Collection Date: 01/15/2013 11:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	2.64E-02	pCi/L	1.3E-01	1.3E-01	U	2.31E-01	95.4	I129LL_SEP_LEPS	3.6859E+00	L	02/08/2013 05:51	I

Lab Sample Id: 9MXWTK10 | Client Id: B2N618 | Test User | Contract Nbr: MW6-SBB-A1 | SAF Nbr | Sdg Nbr: I13-012 | QC Type: W06525 | Moisture/ Solids%*: | Distilled Volume | Sample On Date: | Collection Date: 01/15/2013 14:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
3021058	I-129	15046-84-1	4.14E-01	pCi/L	2.4E-01	2.4E-01		1.79E-01	94.1	I129LL_SEP_LEPS	3.7714E+00	L	02/08/2013 05:53	I

Friday, February 15, 2013

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id:	MXXDM1AB	**Sdg/Rept Nbr:**	W06525	54558	**Collection Date:** 01/16/2013 10:39
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/17/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021058	I-129	1.70E-01	pCi/L	2.2E-01	U	2.17E-01	93.8		I129LL_SEP_L	3.8011E+00	02/11/2013				D
BLK	15046-84-1			2.2E-01						L	10:15				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, February 15, 2013

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id:	MXXDN1AB	**Sdg/Rept Nbr:**	W06525	54558	**Collection Date:** 01/14/2013 10:59
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/15/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021059	BE-7	-8.81E+00	pCi/L	9.8E+00	U	1.60E+01			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	13966-02-4			9.8E+00						L	11:58				
3021059	CO-60	4.35E-01	pCi/L	1.3E+00	U	2.44E+00			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	10198-40-0			1.3E+00						L	11:58				
3021059	CS-134	2.56E-01	pCi/L	1.3E+00	U	2.34E+00			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	13967-70-9			1.3E+00						L	11:58				
3021059	CS-137	4.92E-01	pCi/L	1.3E+00	U	2.30E+00			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	10045-97-3			1.3E+00						L	11:58				
3021059	EU-152	-1.27E+00	pCi/L	3.5E+00	U	5.95E+00			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	14683-23-9			3.5E+00						L	11:58				
3021059	EU-154	3.23E-01	pCi/L	3.4E+00	U	6.36E+00			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	15585-10-1			3.4E+00						L	11:58				
3021059	EU-155	6.58E-01	pCi/L	2.9E+00	U	5.02E+00			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	14391-16-3			2.9E+00						L	11:58				
3021059	K-40	-4.53E+00	pCi/L	1.9E+01	U	3.79E+01			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	13966-00-2			1.9E+01						L	11:58				
3021059	RU-106	-9.18E+00	pCi/L	1.2E+01	U	1.94E+01			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	13967-48-1			1.2E+01						L	11:58				
3021059	SB-125	-3.73E-01	pCi/L	3.3E+00	U	5.75E+00			GAMMALL_GS	2.001E+00	01/25/2013				D
BLK	14234-35-6			3.3E+00						L	11:58				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, February 15, 2013

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id:	MXXDP1AB	**Sdg/Rept Nbr:**	W06525	54558	**Collection Date:** 01/15/2013 14:04
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 01/16/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021060	H-3	-5.04E-02	pCi/L	2.4E+01	U	2.47E+01	100.0		906.0ML_H3_L	1.0028E-02	01/23/2013				D
BLK	10028-17-8			1.2E+01						L	07:00				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, February 15, 2013

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id: MXXDM1CS **Sdg/Rept Nbr:** W06525 54558 **Collection Date:** 01/16/2013 10:39

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/17/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021058	I-129	1.03E+01	pCi/L	1.2E+00		2.26E-01	94.7	1.01E+01	I129LL_SEP_L	3.874E+00	02/11/2013			70	D
BS	15046-84-1			1.2E+00				102.0		L	10:16			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, February 15, 2013

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id: MXXDN1CS **Sdg/Rept Nbr:** W06525 54558 **Collection Date:** 01/14/2013 10:59

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 01/15/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021059	CO-60	3.92E+01	pCi/L	6.5E+00		2.91E+00		3.81E+01	GAMMALL_GS	2.0005E+00	01/25/2013			70	D
BS	10198-40-0			6.5E+00				102.9		L	12:15			130	
3021059	CS-137	5.23E+01	pCi/L	8.7E+00		2.55E+00		5.06E+01	GAMMALL_GS	2.0005E+00	01/25/2013			70	D
BS	10045-97-3			8.7E+00				103.4		L	12:15			130	
3021059	EU-152	7.61E+01	pCi/L	1.2E+01		6.39E+00		7.69E+01	GAMMALL_GS	2.0005E+00	01/25/2013			70	D
BS	14683-23-9			1.2E+01				98.9		L	12:15			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, February 15, 2013

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id:	MXXDP1CS	**Sdg/Rept Nbr:**	W06525	54558	**Collection Date:** 01/15/2013 14:04
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 01/16/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021060	H-3	8.25E+03	pCi/L	9.5E+02		2.43E+01	100.0	9.01E+03	906.0ML_H3_L	1.0012E-02	01/23/2013			70	D
BS	10028-17-8			6.1E+01				91.6		L	07:00			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, February 15, 2013

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id:	MXW1A1CR	**Sdg/Rept Nbr:**	W06525	54558	**Collection Date:** 01/16/2013 10:39
Client Id:	B2N627	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 01/17/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A13-001	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021058	I-129	1.25E-01	pCi/L	1.1E-01	U	1.47E-01	95.4		I129LL_SEP_L	3.8531E+00	02/08/2013	11.6	0.2		D
DUP	15046-84-1	1.11E-01		1.1E-01						L	09:18	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, February 15, 2013

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W06525.Edd, h:\Reportdb\edd\FeadIV\Rad\54558.Ed

Lab Sample Id: MXWCG1CR **Sdg/Rept Nbr:** W06525 54558 **Collection Date:** 01/14/2013 10:59

Client Id: B2N4C6 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/15/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W13-001	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021059	BE-7	-7.29E+00	pCi/L	9.1E+00	U	1.50E+01			GAMMALL_GS	1.7179E+00	01/24/2013	0.0	0.4		D
DUP	13966-02-4	-4.99E+00		9.1E+00						L	18:33	20.0	3		
3021059	CO-60	-3.48E-01	pCi/L	1.3E+00	U	2.30E+00			GAMMALL_GS	1.7179E+00	01/24/2013	0.0	0.3		D
DUP	10198-40-0	-7.22E-02		1.3E+00						L	18:33	20.0	3		
3021059	CS-134	6.69E-01	pCi/L	1.4E+00	U	2.64E+00			GAMMALL_GS	1.7179E+00	01/24/2013	318.8	0.8		D
DUP	13967-70-9	-1.53E-01		1.4E+00						L	18:33	20.0	3		
3021059	CS-137	-5.26E-01	pCi/L	1.1E+00	U	1.93E+00			GAMMALL_GS	1.7179E+00	01/24/2013	0.0	0.2		D
DUP	10045-97-3	-3.87E-01		1.1E+00						L	18:33	20.0	3		
3021059	EU-152	-1.29E+00	pCi/L	3.0E+00	U	5.03E+00			GAMMALL_GS	1.7179E+00	01/24/2013	0.0	1.		D
DUP	14683-23-9	8.97E-01		3.0E+00						L	18:33	20.0	3		
3021059	EU-154	2.28E-01	pCi/L	4.0E+00	U	7.47E+00			GAMMALL_GS	1.7179E+00	01/24/2013	0.0	0.7		D
DUP	15585-10-1	-1.77E+00		4.0E+00						L	18:33	20.0	3		
3021059	EU-155	4.91E-01	pCi/L	1.9E+00	U	3.40E+00			GAMMALL_GS	1.7179E+00	01/24/2013	4.9	0.		D
DUP	14391-16-3	5.16E-01		1.9E+00						L	18:33	20.0	3		
3021059	K-40	-3.85E+01	pCi/L	3.9E+01	U	7.96E+01			GAMMALL_GS	1.7179E+00	01/24/2013	0.0	0.1		D
DUP	13966-00-2	-3.51E+01		3.9E+01						L	18:33	20.0	3		
3021059	RU-106	6.85E+00	pCi/L	1.0E+01	U	1.96E+01			GAMMALL_GS	1.7179E+00	01/24/2013	197.2	0.9		D
DUP	13967-48-1	4.82E-02		1.0E+01						L	18:33	20.0	3		
3021059	SB-125	2.19E+00	pCi/L	3.0E+00	U	5.47E+00			GAMMALL_GS	1.7179E+00	01/24/2013	365.5	1.3		D
DUP	14234-35-6	-6.40E-01		3.0E+00						L	18:33	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: MXWHR1CR **Sdg/Rept Nbr:** W06525 54558 **Collection Date:** 01/15/2013 14:04

Client Id: B2N7R5 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 01/16/2013

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S13-001	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
3021060	H-3	5.36E+01	pCi/L	2.6E+01		2.36E+01	100.0		906.0ML_H3_L	1.001E-02	01/23/2013	33.7	1.2		D
DUP	10028-17-8	7.52E+01		1.2E+01						L	07:00	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

1/30/2013 11:56:33 AM

Lot No., Due Date: J3A180421,J3A160410; 02/18/2013
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 3021059; RGAMMA Gamma by GER
SDG, Matrix: W06525; WATER

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A ✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes	No	N/A ✓
4.4 Were spectra reviewed/meet contractual requirements?	Yes ✓	No	N/A
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes	No	N/A ✓
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level Lee Anderson **Date** 1/30/13

TestAmerica Richland
QAS_RADCALCv4.8.44

Page 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 3021059

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: CRDL=60 pCi/L

Second Level Review: [signature] Date: 1/31/13

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

2/14/2013 9:57:35 AM

Lot No., Due Date: J3A180420,J3A180421,J3A160417,J3A170426,J3A170427; 02/18/2013
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 3021058; RGAMLEPS Gamma by LEPS
SDG, Matrix: W06525; WATER

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes ✓	No	N/A
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes ✓	No	N/A
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level Lisa Gustavson **Date** 2/14/13

TestAmerica Richland
QAS RADCALCv4.8.44

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 302/1058

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: RDL = 0.5 pCi/L

Second Level Review: [signature] Date: 2/14/13

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/4/2013 11:21:21 AM

Lot No., Due Date: J3A160408,J3A160417,J3A160429; 02/18/2013
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 3021060; RTRITIUM Midlevel Tritium
SDG, Matrix: W06525; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?			✓
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?			✓
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level John Mosto **Date** 2-4-13

TestAmerica Richland
QAS_RADCALCv4.8.44

Page 1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 3021060

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: RDL = 30.0 pCi/L

Second Level Review: [signature] Date: 2/12/13

LS-038B, Rev. 10, 9/07

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-012-199 Page 1 of 1

Collector	~~Roy Shepard~~	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-012	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, DECEMBER 2012	**Logbook No.**	HNF-N-506 53/16	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N1K8	N	W	1/14/13	1147	1x1-L P	906.0ML_H3_LSC: Mid-level Tritium (1)	6 Months	None
B2N1K8	N	W	↓	↓	1x20-mL P	Activity Scan MXWAR	6 Months	None

J3A160408
W06525

J3A160408

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Roy Shepard~~			JAN 14 2013 1500	SSH #1			JAN 14 2013 1500
SSH #1			JAN 15 2013 0800	D.J. Woehle CHPRC			JAN 15 2013 0800
D.J. Woehle CHPRC			JAN 15 2013 0915	Barbara Richardson TAIR			JAN 15 2013 0915
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-012-201
		Page 1 of 1

Collector	Roy Shepard	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-012	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, DECEMBER 2012	**Logbook No.**	HNF-N-506 53/16	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N1L6	N	W	1/14/13	1058	1x1-L P	906.0ML_H3_LSC: Mid-level Tritium (1)	6 Months	None
B2N1L6	N	W	↓	↓	1x20-mL P	Activity Scan MXWAT	6 Months	None

J3A160408
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard			JAN 14 2013 1500				JAN 14 2013 1500
Relinquished By			Date/Time	Received By	D.J. Woehle CHPRC		Date/Time
SSW #1			JAN 15 2013 0800				JAN 15 2013 0800
Relinquished By	D.J. Woehle CHPRC		Date/Time	Received By			Date/Time
			JAN 15 2013 0915				JAN 15 2013 0915
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

TestAmerica
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Sample Check-in List

Date/Time Received: 1-15-13 | 0915 GM Screen Result: (Airlock) .4 Initials[BD]
(Sample Receiving) .4 Initials[BD]

Client: PBW SDG #: WO65525 NA [ ] SAF #: 513-012 NA [ ]

Lot Number: 333A160404

Chain of Custody # 513-012-199; 201

Shipping Container ID: Hand deliv. NA [BW]

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [BD] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 2 x vial 20; 2 x 4p
8. Sample holding times exceeded? NA [ ] Yes [ ] No [BD]
9. Samples have:
   - [BD] tape
   - [BD] custody seals
   - _____ hazard labels
   - [BD] appropriate sample labels
10. Matrix:
    - _____ A (FLT, Wipe, Solid, Soil)
    - _____ S (Air, Niosh 7400)
    - [BD] I (Water)
    - _____ T (Biological, Ni-63)
11. Samples:
    - [BD] are in good condition
    - _____ are broken
    - _____ Other N/A
    - _____ are leaking
    - _____ have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [BD] No [ ] NA [ ]
    (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 : W/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [BD]
14. Description of anomalies (include sample numbers): NA [BD]

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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: N/A

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

Sample Custodian: Date: 1-15-13

Client Informed on N/A by N/A Person contacted N/A

[ ] No action necessary; process as is

Project Manager Date 1/16/13 RW 1/16/13

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

1-15-13 1-15-13

J3A1604/08 RW 1/16/13

See over for additional information.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-001-081
		Page 1 of 1

Collector	DAVE FLOYD	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, JANUARY 2013	**Logbook No.**	HNF-N-506 51 / 66	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N4C6	N	W	JAN 14 2013	1059	1x20-mL P	Activity Scan	6 Months	None
B2N4C6	N	W	↓	↓	1x4-L G/P	GAMMALL_GS: List-1 (9) mxwc6	6 Months	HNO3 to pH <2

J3A160410
W06525

J3A160410

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	DAVE FLOYD		JAN 14 2013 1522		SSU-1		JAN 14 2013 1522
Relinquished By	SSU-1		Date/Time JAN 15 2013 0800	Received By	D.J. Woehle CHPRC		Date/Time JAN 15 2013 0800
Relinquished By	D.J. Woehle CHPRC		Date/Time JAN 15 2013 0915	Received By			Date/Time JAN 15 2013 0915
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-001-082
		Page 1 of 1

Collector	DAVE FLOYD	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, JANUARY 2013	**Logbook No.**	HNF-N-506 51 / 66	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N4C7	N	W	JAN 14 2013	059	1x20-mL P	Activity Scan	6 Months	None
B2N4C7	N	W	↓	↓	1x4-L G/P	GAMMALL_GS: List-1 (9) MXWCT	6 Months	HNO3 to pH <2

J3A160410
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DAVE FLOYD			JAN 14 2013 1522	SSU-1			JAN 14 2013 1522
SSU-1			JAN 15 2013 0800	D.J. Woehle	CHPRC		JAN 15 2013 0800
D.J. Woehle	CHPRC		JAN 15 2013 0915	Barbara Richardson			JAN 15 2013 0915

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-15-13 0915 GM Screen Result: (Airlock) .4 Initials [ ]
(Sample Receiving) .4 Initials [ ]

Client: PBW SDG #: 400525 NA [ ] SAF #: W13-001 NA [ ]

Lot Number: J3A160410

Chain of Custody # W13-001-061; 062

Shipping Container ID: hand del. NA [ ]

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 2 x vial 20; 2 x 4 L
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   - ____ tape
   - ____ custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
10. Matrix:
    - ____ A (FLT, Wipe, Solid, Soil)
    - ____ S (Air, Niosh 7400)
    - ____ I (Water)
    - ____ T (Biological, Ni-63)
11. Samples:
    - ____ are in good condition
    - ____ are broken
    - ____ Other N/A
    - ____ are leaking
    - ____ have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (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 : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ]

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See over for additional information.

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THE LEADER IN ENVIRONMENTAL TESTING

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

16. Additional Information: N/A

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

Sample Custodian: _____ Date: 1-15-13

Client Informed on N/A by N/A Person contacted N/A

[ ] No action necessary; process as is

Project Manager _____ Date 1/16/13

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

1-15-13 1-15-13

JJA 160410 1/16/13

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See over for additional information.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-001-110
		Page 1 of 1

Collector	SCOTT KING	**Contact/Reqnester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, JANUARY 2013	**Logbook No.**	HNF-N-506 30 / 50	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N701	N	W	01-14-13	1350	1x20-mL P	Activity Scan	6 Months	None
B2N701	N	W	↓	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) MXWD1	6 Months	None

J3A160417
WO6525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	SCOTT KING		JAN 14 2013 1513	SSU #1			JAN 14 2013 1513
Relinquished By			Date/Time	Received By	D.J. Woehle CHPRC		Date/Time
SSU #1			JAN 15 2013 0800				JAN 15 2013 0800
Relinquished By	D.J. Woehle CHPRC		Date/Time	Received By			Date/Time
			JAN 15 2013 0915	Barbara Richardson TA IK			JAN 15 2013 0915
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-001-111
		Page 1 of 1

Collector	SCOTT KING	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, JANUARY 2013	**Logbook No.**	HNF-N-506 36 / 50	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N702	N	W	01413	1350	1x20-mL P	Activity Scan	6 Months	None
B2N702	N	W	"	"	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) MXWD2	6 Months	None

J3A160417
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	SCOTT KING		JAN 14 2013 1513	SSU #1			JAN 14 2013 1513
SSU #1			JAN 15 2013 0800		D.J. Woehle CHPRC		JAN 15 2013 0800
	D.J. Woehle CHPRC		JAN 15 2013 0915			TAK	JAN 15 2013 0915

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-001-128 Page 1 of 1

Collector	SCOTT KING	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, JANUARY 2013	**Logbook No.**	HNF-N-506 36/50	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N7B5	N	W	~~01-13-13~~ 01-14-13	1043	1x20-mL P	Activity Scan	6 Months	None
B2N7B5	N	W	01-14-13	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mXWD4	6 Months	None

J3A1604IN
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SCOTT KING	Scott King		JAN 14 2013 1513	SSU #1			JAN 14 2013 1513
SSU #1			JAN 15 2013 0800	D.J. Woehle CHPRC	D.J. Woehle		JAN 15 2013 0800
D.J. Woehle CHPRC	D.J. Woehle		JAN 15 2013 0915	Barbara Richardson TAIR	Barbara Richardson		JAN 15 2013 0915

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-001-129
		Page 1 of 1

Collector	SCOTT KING	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, JANUARY 2013	**Logbook No.**	HNF-N-506 36 / 50	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N7B9	N	W	1-14-13	1219	1x20-mL P	Activity Scan	6 Months	None
B2N7B9	N	W	↓	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mxw05	6 Months	None

J3A160417
W06525

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
SCOTT KING	Scott King	JAN 14 2013 1513	SSC #1		JAN 14 2013 1513
SSC #1		JAN 15 2013 0800	D.J. Woehle CHPRC	DJ Woehle	JAN 15 2013 0800
D.J. Woehle CHPRC	DJ Woehle	JAN 15 2013 0915	Barbara R Madsen TAIR	Barbara R Madsen	JAN 15 2013 0915
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-001-147
		Page 1 of 1

Collector	Roy Shepard	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, JANUARY 2013	**Logbook No.**	HNF-N-506 53/16	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	45 Days	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N7R0	N	W	1/14/13	1337	1x1-L P	906.0ML_H3_LSC: Mid-level Tritium (1)	6 Months	None
B2N7R0	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None
B2N7R0	N	W	↓	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mXWD16	6 Months	None

J3A160417
WO6525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard			JAN 14 2013 1500	SSU #1			JAN 14 2013 1500
SSU #1			JAN 15 2013 0800	D.J. Woehle CHPRC			JAN 15 2013 0800
D.J. Woehle CHPRC			JAN 15 2013 0915	Barbara Richardson			JAN 15 2013 0915

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-15-13 | 0915 GM Screen Result: (Airlock) .4 Initials[BS]
(Sample Receiving) .4 Initials[BS]

Client: PGW SDG #: W0L525 NA [ ] SAF #: 513-001 NA [ ]

Lot Number: JBA160417

Chain of Custody # 513-001-110; 111; 128; 129; 147

Shipping Container ID: Hand deliv. NA [AW]

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [BS] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 5
7. Containers received: 5 x Vial 20; 10 x 4 Lp; 1 x Lp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [BS]
9. Samples have:
   ____ tape
   BS custody seals
   ____ hazard labels
   BS appropriate sample labels
10. Matrix:
    ____ A (FLT, Wipe, Solid, Soil)
    ____ S (Air, Niosh 7400)
    BS I (Water)
    ____ T (Biological, Ni-63)
11. Samples:
    BS are in good condition
    ____ are broken
    ____ Other N/A
    ____ are leaking
    ____ have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [BS] No [ ] NA [ ]
    (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 : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [BS]
14. Description of anomalies (include sample numbers): NA BS

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See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

16. Additional Information: N/A

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

Sample Custodian: _____ Date: 1-15-13

Client Informed on N/A by N/A Person contacted N/A

[X] No action necessary; process as is

Project Manager _____ Date 1/16/13

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

1-15-13

1-15-13

J3A1604117 4/16/13

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See over for additional information.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-001-148
		Page 1 of 1

Collector	R. Shepard	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, JANUARY 2013	**Logbook No.**	HNF-N-506 54 / 16	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N7R5	N	W	1/15/13	1404	1x1-L P	906.0ML_H3_LSC: Mid-level Tritium (1)	6 Months	None
B2N7R5	N	W	↓	↓	1x20-mL P	Activity Scan MXWHR	6 Months	None

J3A160429
Jo W06525
B 1-16-13

J3A160429

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Shepard			JAN 15 2013 1530	SSL #4			JAN 15 2013 1530
SSL #1			JAN 16 2013 0900	L.D. Wall CHPRC		L.D. Wall	JAN 16 2013 0900
L.D. Wall CHPRC		L.D. Wall	JAN 16 2013 1110	J. Bock J. Bock TALE			JAN 16 2013 1110
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-16-13 / 1110 GM Screen Result: (Airlock) 0.4 Initials[ ]
(Sample Receiving) 0.4 Initials[ ]

Client: PBW SDG #: WO6525 NA [ ] SAF #: 513-001 NA [ ]

Lot Number: J3A1604291

Chain of Custody # 513-001-148

Shipping Container ID: hand deliv. NA

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1 x Vial 20; 1 x LP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   _____tape
   _____custody seals
   _____hazard labels
   _____appropriate sample labels
10. Matrix:
    _____A (FLT, Wipe, Solid, Soil)
    _____S (Air, Niosh 7400)
    _____I (Water)
    _____T (Biological, Ni-63)
11. Samples:
    _____are in good condition
    _____are broken
    _____Other N/A
    _____are leaking
    _____have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (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 : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA

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See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

16. Additional Information: N/A

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

Sample Custodian: Jwaisbeck Date: 1-16-13

Client Informed on N/A by N/A Person contacted N/A

[X] No action necessary; process as is

Project Manager Amanda Upe Date 1/17/13

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

JBA160429 Qw 1/17/13

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See over for additional information.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-012-190
		Page 1 of 1

Collector	R. Shepard	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	S13-012	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	SURV, DECEMBER 2012	**Logbook No.**	HNF-N-506 54 / 16	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N1D3	N	W	1/15/13 ↓	1108 ↓	1x20-mL P	Activity Scan	6 Months	None
B2N1D3	N	W			2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) MXWTJ	6 Months	None

J3A170426
WO6525

J3A170426

Relinquished By	Print	Sign	Date/Time
R. Shepard			JAN 15 2013 1530
SSU #1			JAN 16 2013 0900
L.D. Wall CHPRC		L.D. Wall	JAN 16 2013 1110

Received By	Print	Sign	Date/Time
SSU #1			JAN 15 2013 1530
L.D. Wall CHPRC		L.D. Wall	JAN 16 2013 0900
J. Beck		J Beck TAL	JAN 16 2013 1110

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED O 1/7/2013

A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-16-13 | 1110 Container GM Screen Result: (Airlock) 1-16-13 0.4 Initials [ ]
Sample GM Screen Result (Sample Receiving) 0.4 Initials [ ]

Client: PGW SDG #: W06525 NA [ ] SAF #: 513-012 NA [ ]

Lot Number: J3A170426

Chain of Custody # 513-012-190

Shipping Container ID: hand deliv NA Air Bill Number: NA

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1x vial 20, 2x 40

8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   ____tape
   ____custody seals
   ____hazard labels
   ____appropriate sample labels
10. Matrix:
    ____A (FLT, Wipe, Solid, Soil)
    ____S (Air, Niosh 7400)
    ____I (Water)
    ____T (Biological, Ni-63)
11. Samples:
    ____are in good condition
    ____are broken
    ____Other N/A
    ____are leaking
    ____have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ] 1-16-13
    (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 : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA

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See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

16. Additional Information: W/A

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

Sample Custodian: Judi Beck Date: 1-16-13

Client Informed on N/A by N/A Person contacted N/A

[X] No action necessary; process as is

Project Manager Amanda Date 1/18/13

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

1-16-13

1-16-13

JBA 170426 RW 1/18/13 RW

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See over for additional information.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I13-012-015
		Page 1 of 1

Collector	DAVE FLOYD	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I13-012	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	2ZP1, JANUARY 2013	**Logbook No.**	HNF-N-506 51167	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	CERCLA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

200 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N618	N	W	JAN 15 2013	1401	1x20-mL P	Activity Scan	6 Months	None
B2N618	N	W	↓	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) MXWTK	6 Months	None

J3A170427
W06525

J3A170427

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
DAVE FLOYD		JAN 15 2013 1526	SSU-1		JAN 15 2013 1526
SSU-1		JAN 16 2013 0900	L.D. Wall CHPRC	L.D. Wall	JAN 16 2013 0900
L.D. Wall CHPRC	L.D. Wall	JAN 16 2013 1110	J. Bock TAHR	J. Bock	JAN 16 2013 1110

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED ON 1/2/2013

A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-16-13 / 1110 Container GM Screen Result: (Airlock) 0.4 Initials [ ]
Sample GM Screen Result (Sample Receiving) 0.4 Initials [ ]

Client: RGW SDG #: W06525 NA [ ] SAF #: 113-012 NA [ ]

Lot Number: J3A1104271

Chain of Custody # 113-012-015

Shipping Container ID: hand deliv NA [ ] Air Bill Number: _____ NA [ ]

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1 x Vial 20; 2 x 4Lp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   - ____ tape
   - ____ custody seals
   - ____ hazard labels
   - ____ appropriate sample labels
10. Matrix:
    - ____ A (FLT, Wipe, Solid, Soil)
    - ____ S (Air, Niosh 7400)
    - ____ I (Water)
    - ____ T (Biological, Ni-63)
11. Samples:
    - ____ are in good condition
    - ____ are broken
    - ____ Other N/A
    - ____ are leaking
    - ____ have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (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 : W/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ]

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See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

16. Additional Information: N/A

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

Sample Custodian: Jessica Beach Date: 1-16-13

Client Informed on N/A by N/A Person contacted N/A

[X] No action necessary; process as is

Project Manager Andrew Jan Date 1/18/13

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

JBA 170427 1/18/13

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See over for additional information.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A13-001-003
		Page 1 of 1

Collector	Mitzi White	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	A13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	LLWMA(1)-PA	**Logbook No.**	HNF-N-506 54/17	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	Other	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N627	N	W	1-16-13	1039	1x20-mL P	Activity Scan	6 Months	None
B2N627	N	W	↓	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) MXW1A	6 Months	None

J3A180420
W0L525

J3A180420

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Mitzi White	MA White	JAN 16 2013 1400		SSU#1		JAN 16 2013 1400
Relinquished By			Date/Time	Received By	L.D. Wall CHPRC	L.D. Wall	Date/Time
	SSU#1		JAN 17 2013 0800				JAN 17 2013 0800
Relinquished By	L.D. Wall CHPRC	L.D. Wall	Date/Time	Received By		J. Beck for TAL	Date/Time
			JAN 17 2013 1050				JAN 17 2013 1050
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A13-001-006
		Page 1 of 1

Collector	Mitzi White	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	A13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	LLWMA(1)-PA	**Logbook No.**	HNF-N-506 54/17	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	Other	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N633	N	W	1-16-13	1306	1x20-mL P	Activity Scan	6 Months	None
B2N633	N	W	↓	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mXW1D	6 Months	None

J3A180420
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Mitzi White	Mitzi White	Mitzi White	JAN 16 2013 1400	SSL #1			JAN 16 2013 1400
SSL #1			JAN 17 2013 0800	L.D. Wall CHPRC		L.D. Wall	JAN 17 2013 0800
L.D. Wall CHPRC		L.D. Wall	JAN 17 2013 1050	J. Lock		J Lock TALN	JAN 17 2013 1050
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED O 11/21/2012

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A13-001-010
		Page 1 of 1

Collector	Roy Shepard	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	A13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	LLWMA(1)-PA	**Logbook No.**	HNF-N-506 51 / 68	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	Other	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N641	N	W	1-16-13	1016	1x20-mL P	Activity Scan	6 Months	None
B2N641	N	W	1-16-13	1016	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mXW1E	6 Months	None

J3A180420
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard			JAN 16 2013 1515	SSU #4			JAN 16 2013 1515
SSU #4			JAN 17 2013 0800	L.D. Wall CHPRC			JAN 17 2013 0800
L.D. Wall CHPRC			JAN 17 2013 0850	J. Beck TAIC			JAN 17 2013 1050

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED O 11/21/2012

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A13-001-011
		Page 1 of 1

Collector	Roy Shepard	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	A13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	LLWMA(1)-PA	**Logbook No.**	HNF-N-506 51 / 68	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	Other	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N643	N	W	1-16-13	1220	1x20-mL P	Activity Scan	6 Months	None
B2N643	N	W	1-16-13	1220	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mXW1F	6 Months	None

J3A180420
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Roy Shepard		JAN 16 2013 1515	SSH#4			JAN 16 2013 1515
SSH#4			JAN 17 2013 0800		L.D. Wall CHPRC	L.D. Wall	JAN 17 2013 0800
	L.D. Wall CHPRC	L.D. Wall	JAN 17 2013 1050	J. Fox		J. Fox THLA	JAN 17 2013 1050

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A13-001-012
		Page 1 of 1

Collector	Roy Shepard	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	A13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	LLWMA(1)-PA	**Logbook No.**	HNF-N-506 51 / 68	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	Other	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N645	N	W	1-16-13	1354	1x20-mL P	Activity Scan	6 Months	None
B2N645	N	W	1-16-13	1354	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mxw16	6 Months	None

J3A180420
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard			JAN 16 2013 1515	SSU #1			JAN 16 2013 1515
SSU #1			JAN 17 2013 0800	L.D. Wall CHPRC		L.D. Wall	JAN 17 2013 0800
L.D. Wall CHPRC		L.D. Wall	JAN 17 2013 1050	J. Bock Bock TAL			JAN 17 2013 1050
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED O 11/21/2012

A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-17-13 | 1050 Container GM Screen Result: (Airlock) .06 Initials [ ]
Sample GM Screen Result (Sample Receiving) .04 Initials [ ]

Client: PGW SDG #: W06525 NA [ ] SAF #: A13-001 NA [ ]

Lot Number: J3A180420

Chain of Custody # A13-001-0006; 010; 011; 012; 003

Shipping Container ID: hand deliv. NA [PW] Air Bill Number: _____ NA [ ]

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 5
7. Containers received: 5x vial 20; 10 x 4 LP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   - ____tape
   - ____custody seals
   - ____hazard labels
   - ____appropriate sample labels
10. Matrix:
    - ____A (FLT, Wipe, Solid, Soil)
    - ____S (Air, Niosh 7400)
    - ____I (Water)
    - ____T (Biological, Ni-63)
11. Samples:
    - ____are in good condition
    - ____are broken
    - ____Other N/A
    - ____are leaking
    - ____have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (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 : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ]

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See over for additional information.

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15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [X] 1/17/13
*For documentation only. No corrective action needed.

16. Additional Information: N/A

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

Sample Custodian: Rhonda Lee for Julie Bock. Date: 1/12/13

Client Informed on N/A by N/A Person contacted N/A

[X] No action necessary; process as is

Project Manager Rhonda Lee Date 1/17/13

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

JBA 180420 1/17/13

See over for additional information.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-001-075 Page 1 of 1

Collector	SCOTT KING	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, JANUARY 2013	**Logbook No.**	HNF-N-506 36 / 53	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N3W5	N	W	01-16-13	1408	1x20-mL P	Activity Scan	6 Months	None
B2N3W5	N	W	↓	↓	1x4-L G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B2N3W5	N	W	01-16-13	1408	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) MXW1H	6 Months	None

J3A180421

WD6525

J3A180421

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SCOTT KING	Scott King		JAN 16 2013 1520	SSU#1			JAN 16 2013 1520
SSU#1			JAN 17 2013 0800	L.D. Wall CHPRC	L.D. Wall		JAN 17 2013 0800
L.D. Wall CHPRC	L.D. Wall		JAN 17 2013 1050	J. Bock TALR	J. Bock		JAN 17 2013 1050
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-001-077
		Page 1 of 1

Collector	SCOTT KING	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, JANUARY 2013	**Logbook No.**	HNF-N-506 36/53	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N3X3	N	W	01-16-13	0937	1x20-mL P	Activity Scan	6 Months	None
B2N3X3	N	W	↓	↓	1x4-L G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B2N3X3	N	W	01-16-13	0937	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mXW13	6 Months	None

J3A180421
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SCOTT KING			JAN 1 6 2013 1520	SSU #1			JAN 1 6 2013 1520
SSU #1			JAN 1 7 2013 0800	L.D. Wall CHPRC			JAN 1 7 2013 0800
L.D. Wall CHPRC			JAN 1 7 2013 1050				JAN 1 7 2013 1050
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED ON 12/6/2012

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-001-078
		Page 1 of 1

Collector	SCOTT KING	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, JANUARY 2013	**Logbook No.**	HNF-N-506 360/53	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N3X8	N	W	01-16-13	1143	1x20-mL P	Activity Scan	6 Months	None
B2N3X8	N	W	↓	↓	1x4-L G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B2N3X8	N	W	01-16-13	1143	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) mXW1K	6 Months	None

J3A180421
WO0525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SCOTT KING		Scott King	JAN 1 6 2013 1520	SSLT#			JAN 1 6 2013 1520
SSLT #1			JAN 1 7 2013 0800	L.D. Wall CHPRC		L.D. Wall	JAN 1 7 2013 0800
L.D. Wall CHPRC		L.D. Wall	JAN 1 7 2013 1050	J. Bock		J Bock THLK	JAN 1 7 2013 1050
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-001-079
		Page 1 of 1

Collector	SCOTT KING	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, JANUARY 2013	**Logbook No.**	HNF-N-506 36/53	**Ice Chest No.**	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.**	N/A
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N3Y3	N	W	01-16-13	1256	1x20-mL P	Activity Scan	6 Months	None
B2N3Y3	N	W	↓	↓	1x4-L G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B2N3Y3	N	W	01-16-13	1256	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) MXW7LL	6 Months	None

J3A180421
W06525

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SCOTT KING	Scott King		JAN 16 2013 1520	SSU #1			JAN 16 2013 1520
SSU #1			JAN 17 2013 0800	L.D. Wall CHPRC	L.D. Wall		JAN 17 2013 0800
L.D. Wall CHPRC	L.D. Wall		JAN 17 2013 1050	J. Bach	J. Bach		JAN 17 2013 1050
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED ON 12/6/2012

A-6004-842 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1-17-13 / 1050 Container GM Screen Result: (Airlock) .6 Initials [ ]
Sample GM Screen Result (Sample Receiving) .4 Initials [ ]

Client: PGW SDG #: 480525 NA [ ] SAF #: W13-001 NA [ ]

Lot Number: 53A180421

Chain of Custody # W13-001-015; 017; 018; 019

Shipping Container ID: hand deliv. NA [ ] Air Bill Number: _____ NA [ ]

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

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 4
7. Containers received: 4 x Vial 20; 12 x 4Lp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   - [ ] tape
   - [ ] custody seals
   - [ ] hazard labels
   - [ ] appropriate sample labels
10. Matrix:
    - [ ] A (FLT, Wipe, Solid, Soil)
    - [ ] S (Air, Niosh 7400)
    - [ ] I (Water)
    - [ ] T (Biological, Ni-63)
11. Samples:
    - [ ] are in good condition
    - [ ] are broken
    - [ ] Other N/A
    - [ ] are leaking
    - [ ] have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (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 : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ]

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See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

16. Additional Information: N/A

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

Sample Custodian: _____ Date: 1-17-13

Client Informed on N/A by N/A Person contacted N/A

[ ] No action necessary; process as is

Project Manager _____ Date 1/18/13

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

JBA 180421

1/18/13

LS-023, Rev. 15, 07/11

See over for additional information.

PLW

1/22/2013 10:47:12 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, CH2M Hill Plateau Remediation Company
, Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021059 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: NyeP

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 MXWCG-1-AA			2001.00g,in	2001.00g				100	200 min	G18	1415	1/24/13 CSH	
J3A160410-1-SAMP													
01/14/2013 10:59			AmtRec: 1XVIAL20;1X4LP	#Containers: 2									
Scr:	Alpha: 7.16E-04 uCi/Sa			Beta: 3.64E-04 uCi/Sa									
2 MXWCG-1-AC-X			1717.90g,in	1717.90g						G19	2153	1/24/13 CSH	
J3A160410-1-DUP													
01/14/2013 10:59			AmtRec: 1XVIAL20;1X4LP	#Containers: 2									
Scr:	Alpha: 7.16E-04 uCi/Sa			Beta: 3.64E-04 uCi/Sa									
3 MXWCT-1-AA			2000.30g,in	2000.30g						G18	1747	1/24/13 CSH	
J3A160410-2-SAMP													
01/14/2013 10:59			AmtRec: 1XVIAL20;1X4LP	#Containers: 2									
Scr:	Alpha: 5.28E-04 uCi/Sa			Beta: 6.44E-05 uCi/Sa									
4 MXW1H-1-AA			2002.70g,in	2002.70g						G15	1203	1/25/13 CSH	
J3A180421-1-SAMP													
01/16/2013 14:08			AmtRec: 1XVIAL20;3X4LP	#Containers: 4									
Scr:	Alpha: -2.83E-04 uCi/Sa			Beta: 2.36E-03 uCi/Sa									
5 MXW1J-1-AA			2001.00g,in	2001.00g						G11	1204		
J3A180421-2-SAMP													
01/16/2013 09:37			AmtRec: 1XVIAL20;3X4LP	#Containers: 4									
Scr:	Alpha: -1.72E-03 uCi/Sa			Beta: 1.99E-03 uCi/Sa									
6 MXW1K-1-AA			2001.50g,in	2001.50g						G18	1205		
J3A180421-3-SAMP													
01/16/2013 11:43			AmtRec: 1XVIAL20;3X4LP	#Containers: 4									
Scr:	Alpha: 2.28E-04 uCi/Sa			Beta: 5.78E-04 uCi/Sa									
7 MXW1L-1-AA			1999.30g,in	1999.30g						G19	1204		
J3A180421-4-SAMP													
01/16/2013 12:56			AmtRec: 1XVIAL20;3X4LP	#Containers: 4									
Scr:	Alpha: -2.78E-03 uCi/Sa			Beta: 3.27E-03 uCi/Sa									

1/22/2013 10:47:14 AM

Sample Preparation/Analysis

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021059 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: NyeP

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 MXXDN-1-AA-B J3A210000-59-BLK 01/21/2013 15:59 pd			2001.00g,in AmtRec:	2001.00g #Containers: 1				100 Scr:	200mins Alpha:	G10	1518	1/25/13 CH Beta:	
9 MXXDN-1-AC-C J3A210000-59-LCS 01/21/2013 15:59 pd			2000.50g,in AmtRec:	2000.50g #Containers: 1	QCAG1927 12/06/12,pd 07/15/00,r				G15 Scr:		1535 Alpha:		Beta:

1/22/2013 10:47:14 AM

Sample Preparation/Analysis

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021059 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: NyeP

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:

Comments: MXWCG-SAMP "Comments Remainder of sample used for dup. Batch 3021059. PJN 1-22-2013"
MXXDN-BLK CommentsS-12-00228,P-12-00603

All Clients for Batch:
384868, CH2M Hill Plateau Remediation Company Pacific Northwest National Lab, SS , 57671

MXWCG1AA-SAMP Constituent List:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

MXXDN1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

MXXDN1AC-LCS:

Cs-137	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
K-40	RDL:6	pCi/L	LCL:70	UCL:130	RPD:20	Ra-226	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
RA-228	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20	RA-228DA	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
U-238	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20						

MXWCG1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXDN1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXDN1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

1/30/2013 11:55:47 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/31/2012, 2/4/2013, Batch: '3021059', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
3021059							
AC			Rev1C	NyeP	1/22/2013 10:29:12		
SC				davilan	IsBatched	1/21/2013 4:03:00 PM	ICOC_RADCALC v4.8.49
SC				NyeP	InPrep	1/22/2013 10:29:12 AM	RL-GAM-001 REVISION 3
SC				SannohS	Prep1C	1/24/2013 10:41:28 AM	RL-GAM-001 REVISION 3
SC				HiattC	InCnt1	1/24/2013 10:50:40 AM	RL-CI-007 REV. 2
SC				ClarkR	CalcC	1/25/2013 5:38:59 PM	RL-CI-007 REVISION 3
SC				antonsonl	Rev1C	1/30/2013 11:55:36 AM	RL-DR-001 Rev 2
AC				SannohS	1/24/2013 10:41:28		
AC				HiattC	1/24/2013 10:50:40		
AC				ClarkR	1/25/2013 5:38:59 PM		
AC				antonsonl	1/30/2013 11:55:36		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.44

PGW

1/29/2013 11:51:37 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, CH2M Hill Plateau Remediation Company
, Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021058 **WATER** **pCi/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,NyeP

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 MXWD1-1-AA J3A160417-1-SAMP 01/14/2013 13:50			3866.10g,in AmtRec: 1XVIAL20;2X4LP	3866.10g #Containers: 3	ITA12586 12/27/12			0.1162 .0803 36.0	200	L4	2110	2/7/13 DD	
										Scr:	Alpha: 4.37E-04 uCi/Sa		Beta: 4.27E-05 uCi/Sa
2 MXWD2-1-AA J3A160417-2-SAMP 01/14/2013 13:50			3862.80g,in AmtRec: 1XVIAL20;2X4LP	3862.80g #Containers: 3	ITA12587 12/27/12			0.1164 0.0799 36.5		L5	2225		
										Scr:	Alpha: -2.83E-04 uCi/Sa		Beta: 1.69E-03 uCi/Sa
3 MXWD4-1-AA J3A160417-3-SAMP 01/14/2013 10:43			3862.50g,in AmtRec: 1XVIAL20;2X4LP	3862.50g #Containers: 3	ITA12588 12/27/12			0.1168 0.0805 36.3		L4	0034	D	
										Scr:	Alpha: 1.81E-04 uCi/Sa		Beta: 4.73E-04 uCi/Sa
4 MXWD5-1-AA J3A160417-4-SAMP 01/14/2013 12:19			3873.20g,in AmtRec: 1XVIAL20;2X4LP	3873.20g #Containers: 3	ITA12589 12/27/12			0.1164 0.0802 36.2		L4	0427	2/8/13 DD	
										Scr:	Alpha: 6.09E-04 uCi/Sa		Beta: -3.86E-04 uCi/Sa
5 MXWD6-1-AC J3A160417-5-SAMP 01/14/2013 13:37			3720.40g,in AmtRec: 1XVIAL20;2X4LP;1XLP	3720.40g #Containers: 4	ITA12590 12/27/12			0.1162 0.0803 35.9		L5	0428		
										Scr:	Alpha: -2.89E-05 uCi/Sa		Beta: 3.40E-04 uCi/Sa
6 MXWTJ-1-AA J3A170426-1-SAMP 01/15/2013 11:08			3685.90g,in AmtRec: 1XVIAL20;2X4LP	3685.90g #Containers: 3	ITA12591 12/27/12			0.1153 0.0800 35.3		L4	0911	2/8/13 DD	
										Scr:	Alpha: 3.11E-04 uCi/Sa		Beta: 8.14E-04 uCi/Sa
7 MXWTK-1-AA J3A170427-1-SAMP 01/15/2013 14:01			3771.40g,in AmtRec: 1XVIAL20;2X4LP	3771.40g #Containers: 3	ITA12592 12/27/12			0.1147 0.0799 34.8		L5	0913		
										Scr:	Alpha: 4.92E-05 uCi/Sa		Beta: -2.15E-04 uCi/Sa

TestAmerica Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.61

PGW

1/29/2013 11:51:39 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, CH2M Hill Plateau Remediation Company
, Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021058 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,NyeP

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 MXW1A-1-AA J3A180420-1-SAMP			3819.10g,in	3819.10g	ITA12593 12/27/12			0.1168 0.0803	200	L4	1236	2/8/13 CW	
01/16/2013 10:39			AmtRec: 1XVIAL20;2X4LP		#Containers: 3			36.5	Scr:	Alpha: -3.44E-04 uCi/Sa		Beta: 1.50E-03 uCi/Sa	
9 MXW1A-1-AC-X J3A180420-1-DUP			3853.10g,in	3853.10g	ITA12594 12/27/12			0.1159 0.0806		L5	1238		
01/16/2013 10:39			AmtRec: 1XVIAL20;2X4LP		#Containers: 3			35.3	Scr:	Alpha: -3.44E-04 uCi/Sa		Beta: 1.50E-03 uCi/Sa	
10 MXW1D-1-AA J3A180420-2-SAMP			3844.60g,in	3844.60g	ITA12595 12/27/12			0.1162 0.0803		L4	1645	2/8/13 CW	
01/16/2013 13:06			AmtRec: 1XVIAL20;2X4LP		#Containers: 3			35.9	Scr:	Alpha: -4.59E-05 uCi/Sa		Beta: 1.27E-03 uCi/Sa	
11 MXW1E-1-AA J3A180420-3-SAMP			3834.00g,in	3834.00g	ITA12596 12/27/12			0.1159 0.0802		L5	1645		
01/16/2013 10:16			AmtRec: 1XVIAL20;2X4LP		#Containers: 3			35.7	Scr:	Alpha: -1.05E-04 uCi/Sa		Beta: 3.85E-04 uCi/Sa	
12 MXW1F-1-AA J3A180420-4-SAMP			3845.80g,in	3845.80g	ITA12597 12/27/12			0.1158 0.0802		~~LEP~~ L4 LEP 2/8/13 CW	2014	2/8/13 CW	
01/16/2013 12:20			AmtRec: 1XVIAL20;2X4LP		#Containers: 3			35.6	Scr:	Alpha: 4.55E-04 uCi/Sa		Beta: 1.16E-03 uCi/Sa	
13 MXW1G-1-AA J3A180420-5-SAMP			3814.60g,in	3814.60g	ITA12598 12/27/12			0.1170 0.0808		LEP5	2015		
01/16/2013 13:54			AmtRec: 1XVIAL20;2X4LP		#Containers: 3			36.2	Scr:	Alpha: 7.79E-04 uCi/Sa		Beta: 4.28E-05 uCi/Sa	
14 MXW1H-1-AC J3A180421-1-SAMP			3901.50g,in	3901.50g	ITA12599 12/27/12			0.1165 0.0805		L4	2342		
01/16/2013 14:08			AmtRec: 1XVIAL20;3X4LP		#Containers: 4			36.0	Scr:	Alpha: -2.83E-04 uCi/Sa		Beta: 2.36E-03 uCi/Sa	

1/29/2013 11:51:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, CH2M Hill Plateau Remediation Company
, Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021058 **WATER** **pCi/L** **PM, Quote: SS , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,NyeP

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 MXW1J-1-AC J3A180421-2-SAMP			3873.80g,in	3873.80g	ITA12600 12/27/12			0.1159 0.0807	200	L5	2343	2/8/13 DR	
01/16/2013 09:37			AmtRec: 1XVIAL20;3X4LP		#Containers: 4			35.2	Scr:	Alpha: -1.72E-03 uCi/Sa		Beta: 1.99E-03 uCi/Sa	
16 MXW1K-1-AC J3A180421-3-SAMP			3851.90g,in	3851.90g	ITA12601 01/29/13			~~0.1156~~ 0.1156 0.0802		L4	1009	2/11/13 CJH	
01/16/2013 11:43			AmtRec: 1XVIAL20;3X4LP		#Containers: 4			35.4	Scr:	Alpha: 2.28E-04 uCi/Sa		Beta: 5.78E-04 uCi/Sa	
17 MXW1L-1-AC J3A180421-4-SAMP			3878.80g,in	3878.80g	ITA12602 01/29/13			0.1154 0.0802		L5	1010		
01/16/2013 12:56			AmtRec: 1XVIAL20;3X4LP		#Containers: 4			35.2	Scr:	Alpha: -2.78E-03 uCi/Sa		Beta: 3.27E-03 uCi/Sa	
18 MXXDM-1-AA-B J3A210000-58-BLK			3801.10g,in	3801.10g	ITA12603 01/29/13			~~0.01~~ 0.1150 0.0803		L4	1335		
01/21/2013 15:59 pd			AmtRec:		#Containers: 1			34.7	Scr:	Alpha:		Beta:	
19 MXXDM-1-AC-C J3A210000-58-LCS			3874.00g,in	3874.00g	ISD1512 01/17/13			0.1160 0.0804		L5	1336		
01/21/2013 15:59 pd			AmtRec:		#Containers: 1			35.6	Scr:	Alpha:		Beta:	

Sample Preparation/Analysis

Balance Id:1120482733

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021058 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: NyeP

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:

Comments: MXXDM-BLK "CommentsS-12-00228,S-12-00193",P-12-00571S-12-00193,P-12-00571,P-12-00672,,P-12-00672,

All Clients for Batch:
384868, CH2M Hill Plateau Remediation Company Pacific Northwest National Lab, SS , 57671

MXWD11AA-SAMP Constituent List:

I-129	RDL:0.50E+00	pCi/L	LCL:	UCL:	RPD:
MXXDM1AA-BLK:					
I-129	RDL:0.50E+00	pCi/L	LCL:	UCL:	RPD:
MXXDM1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

MXWD11AA-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
MXXDM1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
MXXDM1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

2/14/2013 9:53:39 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/15/2012, 2/19/2013, Batch: '3021058', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
3021058						
AC		Rev1C	NyeP	1/29/2013 7:56:54		
SC			davilan	IsBatched	1/21/2013 4:02:57 PM	ICOC_RADCALC v4.8.49
SC			NyeP	InPrep	1/29/2013 7:56:54 AM	RL-GAM-002 REVISION 3
SC			SannohS	InPrep	1/29/2013 11:23:02 AM	RL-GAM-002 REVISION 3
SC			NortonJ	InSep1	2/7/2013 11:45:51 AM	RL-GAM-002 REVISION 3
SC			HiattC	InCnt1	2/7/2013 1:59:22 PM	RL-CI-007 REV. 2
SC			DawkinsO	CalcC	2/13/2013 12:10:20 AM	RL-CI-007 REV. 2
SC			antonsonl	Rev1C	2/14/2013 9:53:28 AM	RL-DR-001 Rev 2
AC			SannohS	1/29/2013 11:23:02		
AC			NortonJ	2/7/2013 11:45:51		
AC			HiattC	2/7/2013 1:59:22 PM		
AC			DawkinsO	2/13/2013 12:10:20		
AC			antonsonl	2/14/2013 9:53:28		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.44

1/21/2013 3:59:58 PM

Sample Preparation/Analysis

Balance Id:

384868, CH2M Hill Plateau Remediation Company
, Pacific Northwest National Lab

AR H-3 Prp/Sep LSC005
T0 Tritium - Midlevel, by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021060 WATER pCi/L

PM, Quote: SS , 57671

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:

1 MXWAR-1-AA

J3A160408-1-SAMP

01/14/2013 11:47 AmtRec: 1XVIAL20;1XLP #Containers: 2 Scr: Alpha: 2.03E-04 uCi/Sa Beta: -5.43E-06 uCi/Sa

2 MXWAT-1-AA

J3A160408-2-SAMP

01/14/2013 10:58 AmtRec: 1XVIAL20;1XLP #Containers: 2 Scr: Alpha: -1.90E-04 uCi/Sa Beta: 2.84E-04 uCi/Sa

3 MXWD6-1-AA

J3A160417-5-SAMP

01/14/2013 13:37 AmtRec: 1XVIAL20;2X4LP;1XLP #Containers: 4 Scr: Alpha: -2.89E-05 uCi/Sa Beta: 3.40E-04 uCi/Sa

4 MXWHR-1-AA

J3A160429-1-SAMP

01/15/2013 14:04 AmtRec: 1XVIAL20;1XLP #Containers: 2 Scr: Alpha: 5.05E-05 uCi/Sa Beta: 3.76E-05 uCi/Sa

5 MXWHR-1-AC-X

J3A160429-1-DUP

01/15/2013 14:04 AmtRec: 1XVIAL20;1XLP #Containers: 2 Scr: Alpha: 5.05E-05 uCi/Sa Beta: 3.76E-05 uCi/Sa

6 MXXDP-1-AA-B

J3A210000-60-BLK

01/21/2013 15:59 pd AmtRec: #Containers: 1 Scr: Alpha: Beta:

7 MXXDP-1-AC-C

J3A210000-60-LCS

01/21/2013 15:59 pd AmtRec: #Containers: 1 Scr: Alpha: Beta:

TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

ICOC v4.8.49

1/21/2013 3:59:59 PM

Sample Preparation/Analysis

AR H-3 Prp/Sep LSC005
T0 Tritium - Midlevel, by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

AnalyDueDate: 02/18/2013

Sep1 DT/Tm Tech:

Batch: 3021060 **pCi/L**

SEQ Batch, Test: None

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 MXXDP-1-AD-B													
J3A210000-60-BLK													
01/21/2013 15:59 pd			AmtRec:	#Containers: 1									

Scr: Alpha: Beta:

Comments:

All Clients for Batch:
384868, CH2M Hill Plateau Remediation Company Pacific Northwest National Lab, SS , 57671

MXWAR1AA-SAMP Constituent List:

H-3	RDL:3.00E+01	pCi/L	LCL:	UCL:	RPD:

MXXDP1AA-BLK:

MXXDP1AC-LCS:

MXXDP1AD-BLK:

MXWAR1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXDP1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXDP1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MXXDP1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

2/4/2013 11:20:08 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/5/2012, 2/9/2013, Batch: '3021060', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
3021060							
AC			**Rev1C**	**NyeM**	1/23/2013 8:57:05		
SC				davilan	IsBatched	1/21/2013 4:03:04 PM	ICOC_RADCALC v4.8.49
SC				NyeM	InPrep	1/23/2013 8:57:05 AM	RL-LSC-005 REVISION 2
SC				NyeM	Sep1C	1/23/2013 12:35:16 PM	RL-LSC-005 REVISION 2
SC				ClarkR	InCnt1	1/23/2013 12:56:17 PM	RL-CI-005 REVISION 3
SC				ClarkR	CalcC	2/2/2013 7:08:33 AM	RL-CI-005 REVISION 3
SC				NortonJ	Rev1C	2/4/2013 11:19:56 AM	RL-DR-001 Rev 2
AC				**NyeM**	1/23/2013 12:35:16		
AC				**ClarkR**	1/23/2013 12:56:17		
AC				**ClarkR**	2/2/2013 7:08:33 AM		
AC				**NortonJ**	2/4/2013 11:19:56		

AC: Accepting Entry; SC: Status Change

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