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 _____ Pages

Report Nbr: 44319

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05891	X10-025	B23W84	J0E080415-1	L08EJ1AA	9L08EJ10	0140440
	X10-039	B24LV1	J0E080417-1	L08E11AA	9L08E110	0140442
		B24LV1	J0E080417-1	L08E11AC	9L08E110	0140440
		B24LV1	J0E080417-1	L08E11AD	9L08E110	0140441
		B24LY4	J0E100489-1	L1AHT1AA	9L1AHT10	0140442
		B24LY4	J0E100489-1	L1AHT1AC	9L1AHT10	0140440
		B24LY4	J0E100489-1	L1AHT1AD	9L1AHT10	0140441
	X10-053	B25931	J0E170435-1	L1LNW1AA	9L1LNW10	0140442
		B25931	J0E170435-1	L1LNW1AC	9L1LNW10	0140440
		B25931	J0E170435-1	L1LNW1AD	9L1LNW10	0140441
		B25931	J0E170435-1	L1LNW1AE	9L1LNW10	0140443
		B25925	J0E170435-2	L1LNX1AA	9L1LNX10	0140442
		B25925	J0E170435-2	L1LNX1AC	9L1LNX10	0140440
		B25925	J0E170435-2	L1LNX1AD	9L1LNX10	0140441
		B25925	J0E170435-2	L1LNX1AE	9L1LNX10	0140443

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05891	X10-053	B25997	J0E170435-3	L1LN31AA	9L1LN310	0140442
		B25997	J0E170435-3	L1LN31AC	9L1LN310	0140440
		B25997	J0E170435-3	L1LN31AD	9L1LN310	0140441
		B25997	J0E170435-3	L1LN31AE	9L1LN310	0140443
		B25949	J0E170435-4	L1LPC1AA	9L1LPC10	0140442
		B25949	J0E170435-4	L1LPC1AC	9L1LPC10	0140440
		B25949	J0E170435-4	L1LPC1AD	9L1LPC10	0140441
		B25949	J0E170435-4	L1LPC1AE	9L1LPC10	0140443
		B25937	J0E170435-5	L1LPK1AA	9L1LPK10	0140442
		B25937	J0E170435-5	L1LPK1AC	9L1LPK10	0140440
		B25937	J0E170435-5	L1LPK1AD	9L1LPK10	0140441
		B25937	J0E170435-5	L1LPK1AE	9L1LPK10	0140443
		B25991	J0E170435-6	L1LP01AA	9L1LP010	0140442
		B25991	J0E170435-6	L1LP01AC	9L1LP010	0140440
		B25991	J0E170435-6	L1LP01AD	9L1LP010	0140441
		B25991	J0E170435-6	L1LP01AE	9L1LP010	0140443
		B25985	J0E170435-7	L1LQD1AA	9L1LQD10	0140442
		B25985	J0E170435-7	L1LQD1AC	9L1LQD10	0140440
		B25985	J0E170435-7	L1LQD1AD	9L1LQD10	0140441
		B25985	J0E170435-7	L1LQD1AE	9L1LQD10	0140443
		B25955	J0E170435-8	L1LQH1AA	9L1LQH10	0140442
		B25955	J0E170435-8	L1LQH1AC	9L1LQH10	0140440
		B25955	J0E170435-8	L1LQH1AD	9L1LQH10	0140441
		B25955	J0E170435-8	L1LQH1AE	9L1LQH10	0140443
		B25943	J0E170435-9	L1LQN1AA	9L1LQN10	0140442
		B25943	J0E170435-9	L1LQN1AC	9L1LQN10	0140440

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05891	X10-053	B25943	J0E170435-9	L1LQN1AD	9L1LQN10	0140441
		B25943	J0E170435-9	L1LQN1AE	9L1LQN10	0140443
	X10-054	B257K0	J0E180408-1	L1MPK1AA	9L1MPK10	0140440

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

July 26, 2010

Attention: Mike Neely

SAF Number	:	X10-025, X10-053, X10-054
Date SDG Closed	:	May 17, 2010
Number of Samples	:	Thirteen (13)
Sample Type	:	Water
SDG Number	:	W05891
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 3, 2010 and May 12, 2010, thirteen 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
B23W84	L08EJ	5/3/10	WATER
B24LV1	L08E1	5/3/10	WATER
B24LY4	L1AHT	5/5/10	WATER
B25931	L1LNW	5/12/10	WATER
B25925	L1LNX	5/12/10	WATER
B25997	L1LN3	5/12/10	WATER
B25949	L1LPC	5/12/10	WATER
B25937	L1LPK	5/12/10	WATER
B25991	L1LP0	5/12/10	WATER
B25985	L1LQD	5/12/10	WATER
B25955	L1LQH	5/12/10	WATER
B25943	L1LQN	5/12/10	WATER
B257K0	L1MPK	5/12/10	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gamma Spectroscopy
Gamma Spec (LL) by method RL-GAM-001 (RICH-RC-5017)*
Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025)*
Liquid Scintillation Counting
Carbon-14 by method RL-LSC-008 (RICH-RC-5022)*
Nickel-63 by method RL-LCS-017 (RICH-RC-5069)*

*SOP ID's changed effective 7-01-2008. Attached is a cross reference until SOP ID's are changed in all systems.

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 (RICH-RC-5017):
There was insufficient volume for a duplicate. Sample B257K0 was recounted on a different detector for the duplicate (B257K0 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B257K0) results are within contractual requirements.

Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025):
The LCS, batch blank, samples and sample duplicate (B25931) results are within contractual requirements.

Liquid Scintillation Counting
Carbon-14 by method RL-LSC-008 (RICH-RC-5022):
The LCS, batch blank, samples and sample duplicate (B24LV1) results are within contractual requirements.

Nickel-63 by method RL-LCS-017 (RICH-RC-5069):
The tracer recoveries for some of the samples were elevated. The data calculation program assumes a maximum recovery of 100%. The results are well below the CRDL. Except as noted, the LCS, batch blank, samples and sample duplicate (B25997) results are within contractual requirements.

CH2M Hill Plateau Remediation Company
July 26, 2010

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:

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.

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Asbestos	RL-ASB-001	N/A	NIOSH 7400	Fiber Counting by Phase Contrast Microscopy based on NIOSH 7400
Asbestos	RL-ASB-002	N/A	NIOSH 9002	Sample Prep and Analysis for Asbestos (bulk) by Polarized Light Microscopy based on NIOSH 9002
Alpha - Gross	ARCHIVED	RICH-RB-5035	Liquid Scintillation Anal/ Packard	DETERMINATION OF GROSS ALPHA IN NASAL SMEARS BY LIQUID SCINTILLATION COUNTING
Alpha - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Alpha - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Alpha - Gross	RL-GPC-002	RICH-RC-5021	00-02 EPA 520	DETERMINATION OF GROSS ALPHA ACTIVITY IN WATER BY COPRECIPITATION
Alpha - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
Am	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Am	RL-ALP-010	RICH-RC-5080	Am03/Pu11HASL 300 NAS-NS-3006	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Beta - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Beta - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Beta - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
C14	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
C14	RL-LSC-008	RICH-RC-5022	EPA C-01 / EPA 520	CARBON 14 BY DIGESTION METHOD
C14	RL-LSC-009	RICH-RC-5040	Mod C14 / EPA 680	DETERMINATION OF CARBON-14 BY BENZENE SYNTHESIS
C14	RL-LSC-010	RICH-RC-5046	EPA C-01 / EPA 520	DETERMINATION OF CARBON-14 IN GRAPHITE AND SOIL
C14	RL-LSC-011	RICH-RC-5047	Mod H-02 / EPA 520	DETERMINATION OF CARBON-14 IN WATER BY DIRECT COUNTING
Cm	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Coliform	RL-WC-001	RICH-WC-5001	9222B	DETERMINATION OF TOTAL COLIFORM: MULTIPLE TUBE FERMENTATION TECHNIQUE
Coliform	RL-WC-002	RICH-WC-5002	9131	TOTAL COLIFORMS BY MEMBRANE FILTRATION
Coliform	RL-WC-005	RICH-WC-5007	9223	TOTAL COLIFORM BY THE COLILERT METHOD
Cr6+	RL-WC-003	RICH-WC-5003	7196A, SW846	DETERMINATION OF HEXAVALENT CHROMIUM (Cr(VI)) IN WATER, SOIL, AND SIMILAR MATRICES
Cr6+	RL-WC-004	RICH-WC-5005	3060 / SW846	DETERMINATION OF HEXAVALENT CHROMIUM (CrVI) IN SOLID MATRICES WITH ALKALINE DIGESTION
Fe	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Fe55	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Fe59	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Gamma	RL-GAM-001	RICH-RC-5017	901.0 / HASL 300 ASTM D3649	PREPARATION OF ALL MATRICES FOR ANALYSIS BY GAMMA SPECTROSCOPY
H3	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
H3	RL-LSC-003	RICH-RB-5034	7500-3 / SM	DETERMINATION OF TRITIUM IN URINE BY DISTILLATION
H3	RL-LSC-004	RICH-RC-5004	H3 / EPA LV539	DETERMINATION OF TRITIUM IN AIR
H3	RL-LSC-005	RICH-RC-5007	Mod 906.0 / EPA 600	SEPARATION OF TRITIUM IN WATER AND AQUEOUS COMPONENT OF WINE
H3	RL-LSC-007	RICH-RC-5024	H-3 by EE EPA LV539 / HASL 300	DETERMINATION OF LOW LEVEL TRITIUM IN WATER BY ELECTROLYTIC ENRICHMENT
H3	RL-LSC-002	RICH-RC-5037	H-3 in Water/Tissue / LV 539	DETERMINATION OF TRITIUM BY CRYOGENIC DISTILLATION
H3	RL-LSC-006	RICH-RC-5048	H-3 in Water/Tissue / LV 539	TRITIUM PREPARATION IN MILK SAMPLES
I129	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	ARCHIVED	RICH-RC-5049	HASL 300 (1983)	DETERMINATION OF IODINE-131 IN MILK BY BATCH ION-EXCHANGE
Metals	ARCHIVED	BHI-MT-0001	6010	ICP-AE SPECTROSCOPY, SPECTROMETRIC METHOD FOR TRACE ELEMENT ANALYSIS, METHOD 6010A FOR Bechtel

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Metals	RL-MT-001	RICH-MT-0001	6010B	ICP-AES for TRACE ELEMENT ANALYSIS, METHOD 6010B
Metals	RL-MT-002	RICH-MT-0002	SW846 3050B	ACID DIGESTION FOR ICP ANALYSIS
Metals	RL-MT-003	RICH-MT-0003	NIOSH 7300	DIGESTION PREP based on METHOD NIOSH 7300
Ni	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Ni63	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Ni63	RL-LSC-017	RICH-RC-5069	EXT Chromatography Mod RP300 / DOE0089T	SEPARATION OF NI-63 BY EXTRACTION CHROMATOGRAPHY
Np	RL-ALP-013	RICH-RC-5009	NAS-NS-3060	DETERMINATION OF NEPTUNIUM-237 BY LIQUID-LIQUID EXTRACTION IN ALL MATRICES
Np	RL-ALP-006	RICH-RC-5064	EXT Chromatography	SEPARATION OF NEPTUNIUM BY EXTRACTION CHROMATOGRAPHY
P32	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Pb	RL-ALP-011	RICH-RC-5076	EXT Chromatography	DETERMINATION OF LEAD-210 BY EXTRACTION CHROMATOGRAPHY
Po	RL-ALP-007	RICH-RB-5001	NAS-NS-3037 HASL 300	DETERMINATION OF POLONIUM-210 IN URINE
Po	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
Prep - Bioassay	ARCHIVED	RICH-RB-0001		PREPARATION FOR RAPID BIOASSAY ANALYSES
Prep - Bioassay	RL-PRP-001	RICH-RB-5002	Mod Pu06 / HASL 300	PREPARATION OF URINE AND BLOOD SAMPLES
Prep - Bioassay	ARCHIVED	RICH-RB-5004	ASTM D1429-95	DETERMINATION OF SPECIFIC GRAVITY OF URINE
Prep - Bioassay	RL-RPL-002	RICH-RB-5036	Pub 6490,6601 / PNL	PREPARATION OF SYNTHETIC URINE AND FECES USING RECIPES FROM HPS N13.30 PREFORMANCE TESTING
Prep - Bioassay	RL-PRP-002	RICH-RB-5037	LA-10300-M R200 ASTM D3865	PREPARATION OF FECAL SAMPLES USING HYDROFLUORIC ACID DIGESTION
Prep - Bioassay	RL-RPL-003	RICH-RC-5028	ICRP Publication 23	PREPARATION OF SYNTHETIC URINE AND FECES
Prep - Count	RL-ALP-016	RICH-RC-5003	G-03 / HASL 300	COPRECIPITATION OF SOME ACTINIDES ON NEODYMIUM FLUORIDE FOR ALPHA-PARTICLE SPECTROMETRY
Prep - Count	RL-ALP-015	RICH-RC-5039	G-03 / HASL 300 Anal Chem 1972	ELECTRODEPOSITION OF ACTINIDES
Prep - Count	RL-ALP-014	RICH-RC-5085	Morrison & Freiser NAS-NS-3050	ANHYDROUS ETHER EXTRACTION OF URANIUM
Prep - Env	RL-KPA-001	RICH-RC-5018	ASTM / D5174-97	ENVIRONMENTAL SAMPLE PREPARATION FOR URANIUM BY LASER-INDUCED PHOSPHORESCENCE
Prep - Env	RL-PRP-004	RICH-RC-5016	Sr02 / HASL 300	PREPARATION OF ENVIRONMENTAL MATRICES
Prep - Env	RL-PRP-007	RICH-RC-5045	Mod Pu02 / HASL 300	PREPARATION OF MIXED BED RESINS AND PRE-FILTERS
Prep - Env	RL-PRP-008	RICH-RC-5068	Mod ER100 / LA10300	PREPARATION OF SOIL, VEGETATION AND AIR FILTERS BY MIXED STRONG ACID LEACHING
Prep - Resin	RL-ALP-017	RICH-RC-5038	Mod Pu11 / Mod 300	ION-EXCHANGE PREPARATION
Prep - Soil	RL-PRP-003	RICH-RC-5013	Pu02A / HASL 300	PREPARATION OF SOIL SAMPLES
Prep - Soil	RL-PRP-005	RICH-RC-5019	D5259 / ASTM SW 846/3015/3051/3052	PREPARATION AND DISSOLUTION OF SEDIMENTS AND SOIL BY MICROWAVE BOMB DIGESTION
Prep - Soil	RL-PRP-006	RICH-RC-5032	Pu02A / HASL 300	COMPLETE DISSOLUTION BY MIXED ACIDS IN A TEFLON BEAKER
Prep - Soil	RL-PRP-009	RICH-RC-5077	Mod ER100 / LA10300	PREPARATION OF SMALL SOIL SAMPLES FOR GAMMA SPEC AND/OR RADIOCHEM ANAL BY ACID DIGESTION
Prep - Urine	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE0089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Prep - Water	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE0089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Pu	ARCHIVED	RICH-RB-5015	Pu11 / HASL 300	RAPID DETERMINATION OF PLUTONIUM IN FECES
Pu	RL-ALP-002	RICH-RC-5010	Pu11 / HASL 300	DETERMINATION OF ISOTOPIC PLUTONIUM IN ALL MATRICES
Pu	RL-ALP-010	RICH-RC-5080	Am03 HASL 300 Pu11 / HASL 300	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Pu	RL-ALP-001	RICH-RC-5087	AnalyticaChemActa1992 RP800 / DOE0089T	DETERMINATION OF PLUTONIUM BY EXTRACTION CHROMATOGRAPHY
Ra	RL-RA-001	RICH-RC-5005	903.1 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-001	RICH-RC-5005	904.0 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Ra	RL-RA-002	RICH-RC-5027	Mod D2460/ ASTM 903.0 / EPA 600	DETERMINATION OF TOTAL RADIUM
Rn	RL-LSC-019	RICH-RC-5082	913.0 / EPA	DETERMINATION OF RADON-222 - ADAPTED FROM METHOD 913.0
S35	ARCHIVED	RICH-RB-5020	Hillebrand, Lundzell, Bright, Hoffman 1953	DETERMINATION OF SULFUR-35 IN URINE
Se79	RL-LSC-012	RICH-RC-5043	Selenium / NAS-NS-3030	RADIOCHEMICAL DETERMINATION OF SELENIUM-79
Solubility	ARCHIVED	RICH-RC-5035	Kalfward&Thomas PNL3716	DETERMINATION OF SOLUBILITY OF RADIOACTIVE PARTICLE CONSTITUENTS
Sr	RL-GPC-005	RICH-RB-5007	Mod Sr02 / HASL 300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE
Sr	RL-GPC-006	RICH-RB-5021	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF STRONTIUM IN FECES
Sr	ARCHIVED	RICH-RB-5022	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE FOR RAPID ANALYSIS
Sr	ARCHIVED	RICH-RB-5031	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	RAPID DETERMINATION OF TOTAL STRONTIUM IN FECES
Sr	RL-GPC-003	RICH-RC-5006	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	STRONTIUM SEPARATION IN ENVIRONMENTAL MATRICES
Sr - Yt	RL-GPC-004	RICH-RC-5071	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	YTTRIUM-90 SEPARATION FOR STRONTIUM-90 DETERMINATION IN ALL MATRICES
Tc	RL-LSC-014	RICH-RC-5065	EXT Chromatography Mod RF530 / DOE0089T	DETERMINATION OF TECHNETIUM-99 BY EXTRACTION CHROMATOGRAPHY
Tc	RL-LSC-013	RICH-RC-5078	Tc01 / HASL 300	SEPARATION OF TECHNETIUM-99 IN ALL MATRICES
Th	RL-ALP-008	RICH-RB-5006	Mod Th01 / HASL 300	SEPARATION OF THORIUM FROM URINE AND FECAL SAMPLES
Th	RL-ALP-005	RICH-RC-5084	Mod Th01 / HASL 300 Anal Chim Acta 1982	DETERMINATION OF THORIUM ISOTOPIC IN ENVIRONMENTAL MATRICES
U	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 / HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
U	RL-KPA-002	RICH-RC-5031	Mod U01 / HASL 300	SEPARATION OF TOTAL URANIUM IN WATER AND URINE
U	RL-KPA-003	RICH-RC-5058	D5174 / ASTM	DETERMINATION OF URANIUM BY PHOSPHORESCENCE ANALYSIS
U	RL-ALP-004	RICH-RC-5067	EXT Chromatography Mod RF725 / DOE0089T	SEPARATION OF URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-003	RICH-RC-5072	EXT Chrom Mod RF725 & 800 / DOE0089T	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-009	RICH-RC-5079	EXT Chromatography Mod RF725 / DOE0089T	DETERMINATION OF ISOTOPIC URANIUM IN ALL MATRICES

7/26/2010 11:16:05 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44319 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L08E110	B24LV1		MW6-SBB-A1	X10-039	W05891					04/29/2010 08:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	-2.35E+00	pCi/L	3.2E+00	3.6E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/13/2010 19:04	I
0140440	BE-7	13966-02-4	-4.70E+00	pCi/L	4.1E+01	4.1E+01	U	6.97E+01		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	CO-60	10198-40-0	-2.20E+00	pCi/L	2.3E+00	2.3E+00	U	3.67E+00		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	CS-134	13967-70-9	1.30E+00	pCi/L	2.4E+00	2.4E+00	U	4.39E+00		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	CS-137	10045-97-3	2.00E+00	pCi/L	2.1E+00	2.1E+00	U	3.99E+00		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	EU-152	14683-23-9	3.72E+00	pCi/L	5.5E+00	5.5E+00	U	9.89E+00		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	EU-154	15585-10-1	3.53E-01	pCi/L	6.5E+00	6.5E+00	U	1.19E+01		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	EU-155	14391-16-3	2.98E-01	pCi/L	3.8E+00	3.8E+00	U	6.54E+00		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	K-40	13966-00-2	1.36E+01	pCi/L	5.5E+01	5.5E+01	U	3.70E+01		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	RU-106	13967-48-1	9.36E+00	pCi/L	2.2E+01	2.2E+01	U	3.92E+01		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140440	SB-125	14234-35-6	-2.76E-01	pCi/L	5.3E+00	5.3E+00	U	9.11E+00		GAMMALL_GS	2.0016E+00	L	07/07/2010 10:51	I
0140441	I-129	15046-84-1	8.84E-02	pCi/L	1.4E-01	1.4E-01	U	1.77E-01	100.5	I129LL_SEP_LEPS	3.87E+00	L	06/28/2010 17:49	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:
9L08EJ10	B23W84		MW6-SBB-A1	X10-025	W05891					04/29/2010 10:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140440	BE-7	13966-02-4	4.29E+00	pCi/L	1.8E+01	1.8E+01	U	3.15E+01		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	CO-60	10198-40-0	6.85E-01	pCi/L	1.1E+00	1.1E+00	U	2.29E+00		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	CS-134	13967-70-9	8.00E-01	pCi/L	1.1E+00	1.1E+00	U	2.10E+00		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	CS-137	10045-97-3	-1.11E-01	pCi/L	1.2E+00	1.2E+00	U	2.09E+00		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	EU-152	14683-23-9	2.14E+00	pCi/L	2.5E+00	2.5E+00	U	4.68E+00		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	EU-154	15585-10-1	-1.68E+00	pCi/L	3.2E+00	3.2E+00	U	5.41E+00		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	EU-155	14391-16-3	-9.09E-01	pCi/L	2.1E+00	2.1E+00	U	3.53E+00		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	K-40	13966-00-2	2.23E+00	pCi/L	2.5E+01	2.5E+01	U	2.27E+01		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	RU-106	13967-48-1	-4.71E+00	pCi/L	9.5E+00	9.5E+00	U	1.60E+01		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	I
0140440	SB-125	14234-35-6	-2.12E-01	pCi/L	2.5E+00	2.5E+00	U	4.37E+00		GAMMALL_GS	2.0014E+00	L	07/07/2010 10:50	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:
9L1AHT10	B24LY4		MW6-SBB-A1	X10-039	W05891					05/04/2010 10:07

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.

7/26/2010 11:16:05 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44319 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	8.06E-01	pCi/L	3.3E+00	3.8E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/13/2010 20:30	I
0140440	BE-7	13966-02-4	6.48E+00	pCi/L	2.8E+01	2.8E+01	U	5.05E+01		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	CO-60	10198-40-0	-2.97E-01	pCi/L	1.7E+00	1.7E+00	U	3.02E+00		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	CS-134	13967-70-9	7.86E-01	pCi/L	2.0E+00	2.0E+00	U	3.64E+00		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	CS-137	10045-97-3	3.97E-02	pCi/L	1.5E+00	1.5E+00	U	2.68E+00		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	EU-152	14683-23-9	-4.22E-01	pCi/L	4.1E+00	4.1E+00	U	7.03E+00		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	EU-154	15585-10-1	7.18E-01	pCi/L	4.3E+00	4.3E+00	U	8.39E+00		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	EU-155	14391-16-3	6.16E-01	pCi/L	3.0E+00	3.0E+00	U	5.36E+00		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	K-40	13966-00-2	-3.22E+01	pCi/L	3.8E+01	3.8E+01	U	7.81E+01		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	RU-106	13967-48-1	1.84E+00	pCi/L	1.5E+01	1.5E+01	U	2.69E+01		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140440	SB-125	14234-35-6	1.74E+00	pCi/L	4.0E+00	4.0E+00	U	7.32E+00		GAMMALL_GS	2.003E+00	L	07/07/2010 10:51	I
0140441	I-129	15046-84-1	3.13E-01	pCi/L	1.7E-01	1.7E-01		1.73E-01	93.8	I129LL_SEP_LEPS	3.9042E+00	L	06/28/2010 21:51	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:
9L1LN310	B25997		MW6-SBB-A1	X10-053	W05891					05/11/2010 09:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	1.88E+00	pCi/L	3.4E+00	3.8E+00	U	8.01E+00	100.0	C14_LSC	2.00E-01	L	07/13/2010 22:38	I
0140440	BE-7	13966-02-4	1.18E+01	pCi/L	1.4E+01	1.4E+01	U	2.74E+01		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	CO-60	10198-40-0	-1.51E-01	pCi/L	9.8E-01	9.8E-01	U	1.81E+00		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	CS-134	13967-70-9	-1.66E-02	pCi/L	1.1E+00	1.1E+00	U	2.04E+00		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	CS-137	10045-97-3	1.24E+00	pCi/L	1.1E+00	1.1E+00	U	2.20E+00		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	EU-152	14683-23-9	-1.29E+00	pCi/L	2.6E+00	2.6E+00	U	4.48E+00		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	EU-154	15585-10-1	-1.12E+00	pCi/L	2.9E+00	2.9E+00	U	5.08E+00		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	EU-155	14391-16-3	8.43E-01	pCi/L	2.3E+00	2.3E+00	U	4.01E+00		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	K-40	13966-00-2	-7.04E+00	pCi/L	2.1E+01	2.1E+01	U	4.22E+01		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	RU-106	13967-48-1	-5.25E+00	pCi/L	9.9E+00	9.9E+00	U	1.66E+01		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140440	SB-125	14234-35-6	3.51E-01	pCi/L	2.1E+00	2.1E+00	U	3.84E+00		GAMMALL_GS	2.0088E+00	L	07/07/2010 14:17	I
0140441	I-129	15046-84-1	-1.09E-02	pCi/L	7.8E-02	7.8E-02	U	1.41E-01	91.9	I129LL_SEP_LEPS	3.8969E+00	L	06/29/2010 08:25	I
0140443	NI-63	13981-37-8	1.99E+00	pCi/L	1.4E+00	2.2E+00	U	3.36E+00	100.0	NI63_LSC	4.011E-01	L	07/14/2010 07:10	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:
9L1LNW10	B25931		MW6-SBB-A1	X10-053	W05891					05/11/2010 10:43

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.

7/26/2010 11:16:05 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44319 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	-6.29E-01	pCi/L	3.3E+00	3.7E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/13/2010 21:13	I
0140440	BE-7	13966-02-4	9.91E+00	pCi/L	2.0E+01	2.0E+01	U	3.68E+01		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	CO-60	10198-40-0	6.52E-01	pCi/L	1.4E+00	1.4E+00	U	2.65E+00		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	CS-134	13967-70-9	-9.14E-02	pCi/L	1.3E+00	1.3E+00	U	2.29E+00		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	CS-137	10045-97-3	1.15E+00	pCi/L	1.3E+00	1.3E+00	U	2.40E+00		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	EU-152	14683-23-9	-1.20E+00	pCi/L	3.3E+00	3.3E+00	U	5.65E+00		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	EU-154	15585-10-1	-1.45E+00	pCi/L	3.1E+00	3.1E+00	U	5.36E+00		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	EU-155	14391-16-3	-2.99E+00	pCi/L	3.0E+00	3.0E+00	U	4.82E+00		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	K-40	13966-00-2	4.02E+00	pCi/L	2.1E+01	2.1E+01	U	4.00E+01		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	RU-106	13967-48-1	4.03E+00	pCi/L	1.3E+01	1.3E+01	U	2.33E+01		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140440	SB-125	14234-35-6	-2.06E-01	pCi/L	3.5E+00	3.5E+00	U	6.00E+00		GAMMALL_GS	2.0135E+00	L	07/07/2010 10:51	I
0140441	I-129	15046-84-1	-5.73E-02	pCi/L	1.1E-01	1.1E-01	U	1.83E-01	93.0	I129LL_SEP_LEPS	3.8832E+00	L	06/29/2010 04:16	I
0140443	NI-63	13981-37-8	1.69E+00	pCi/L	1.4E+00	2.1E+00	U	3.29E+00	100.0	NI63_LSC	4.049E-01	L	07/14/2010 03:45	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:
9L1LNX10	B25925		MW6-SBB-A1	X10-053	W05891					05/11/2010 09:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	-1.41E-01	pCi/L	3.3E+00	3.7E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/13/2010 21:55	I
0140440	BE-7	13966-02-4	-4.27E-01	pCi/L	2.3E+01	2.3E+01	U	4.03E+01		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	CO-60	10198-40-0	-9.28E-02	pCi/L	1.5E+00	1.5E+00	U	2.85E+00		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	CS-134	13967-70-9	1.05E+00	pCi/L	1.8E+00	1.8E+00	U	3.40E+00		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	CS-137	10045-97-3	8.88E-01	pCi/L	1.6E+00	1.6E+00	U	2.94E+00		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	EU-152	14683-23-9	1.55E-01	pCi/L	3.9E+00	3.9E+00	U	7.02E+00		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	EU-154	15585-10-1	2.50E+00	pCi/L	4.6E+00	4.6E+00	U	9.20E+00		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	EU-155	14391-16-3	1.90E+00	pCi/L	2.4E+00	2.4E+00	U	4.49E+00		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	K-40	13966-00-2	1.17E+01	pCi/L	3.4E+01	3.4E+01	U	2.99E+01		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	RU-106	13967-48-1	2.66E+00	pCi/L	1.5E+01	1.5E+01	U	2.68E+01		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140440	SB-125	14234-35-6	3.19E+00	pCi/L	3.8E+00	3.8E+00	U	7.21E+00		GAMMALL_GS	2.0108E+00	L	07/07/2010 14:16	I
0140441	I-129	15046-84-1	-5.81E-02	pCi/L	1.2E-01	1.2E-01	U	2.06E-01	91.9	I129LL_SEP_LEPS	3.8792E+00	L	06/29/2010 08:25	I
0140443	NI-63	13981-37-8	1.30E+00	pCi/L	1.4E+00	2.1E+00	U	3.27E+00	100.0	NI63_LSC	4.064E-01	L	07/14/2010 05:27	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:

TestAmerica

rptFeadRadSummaryEdd v3.48

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.

7/26/2010 11:16:06 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44319 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

9L1LP010 B25991 MW6-SBB-A1 X10-053 W05891 05/11/2010 14:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	2.00E+00	pCi/L	3.4E+00	3.8E+00	U	8.01E+00	100.0	C14_LSC	2.00E-01	L	07/14/2010 00:47	I
0140440	BE-7	13966-02-4	4.42E+00	pCi/L	2.0E+01	2.0E+01	U	3.55E+01		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	CO-60	10198-40-0	-4.59E-01	pCi/L	1.4E+00	1.4E+00	U	2.46E+00		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	CS-134	13967-70-9	1.47E-01	pCi/L	1.3E+00	1.3E+00	U	2.44E+00		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	CS-137	10045-97-3	7.03E-01	pCi/L	1.3E+00	1.3E+00	U	2.48E+00		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	EU-152	14683-23-9	1.02E+00	pCi/L	3.4E+00	3.4E+00	U	6.07E+00		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	EU-154	15585-10-1	7.84E-02	pCi/L	3.8E+00	3.8E+00	U	6.95E+00		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	EU-155	14391-16-3	-2.27E+00	pCi/L	2.9E+00	2.9E+00	U	4.83E+00		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	K-40	13966-00-2	1.85E+00	pCi/L	2.4E+01	2.4E+01	U	2.22E+01		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	RU-106	13967-48-1	8.89E+00	pCi/L	1.3E+01	1.3E+01	U	2.42E+01		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140440	SB-125	14234-35-6	1.49E+00	pCi/L	3.3E+00	3.3E+00	U	5.94E+00		GAMMALL_GS	2.0068E+00	L	07/07/2010 14:18	I
0140441	I-129	15046-84-1	-6.61E-02	pCi/L	1.4E-01	1.4E-01	U	1.94E-01	94.9	I129LL_SEP_LEPS	3.8952E+00	L	06/29/2010 15:29	I
0140443	NI-63	13981-37-8	2.25E+00	pCi/L	1.4E+00	2.1E+00	U	3.46E+00	100.0	NI63_LSC	4.147E-01	L	07/14/2010 14:00	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:
9L1LPC10	B25949		MW6-SBB-A1	X10-053	W05891					05/11/2010 13:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	1.83E+00	pCi/L	3.4E+00	3.8E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/13/2010 23:21	I
0140440	BE-7	13966-02-4	6.60E+00	pCi/L	3.3E+01	3.3E+01	U	5.73E+01		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	CO-60	10198-40-0	9.85E-01	pCi/L	2.2E+00	2.2E+00	U	4.25E+00		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	CS-134	13967-70-9	1.17E+00	pCi/L	2.5E+00	2.5E+00	U	4.52E+00		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	CS-137	10045-97-3	-3.13E-01	pCi/L	2.2E+00	2.2E+00	U	3.83E+00		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	EU-152	14683-23-9	5.14E-01	pCi/L	5.6E+00	5.6E+00	U	9.70E+00		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	EU-154	15585-10-1	-2.79E+00	pCi/L	6.7E+00	6.7E+00	U	1.14E+01		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	EU-155	14391-16-3	-1.49E+00	pCi/L	3.6E+00	3.6E+00	U	6.10E+00		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	K-40	13966-00-2	-7.48E+01	pCi/L	5.0E+01	5.0E+01	U	1.01E+02		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	RU-106	13967-48-1	1.47E+01	pCi/L	2.0E+01	2.0E+01	U	3.69E+01		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140440	SB-125	14234-35-6	3.09E+00	pCi/L	5.1E+00	5.1E+00	U	9.15E+00		GAMMALL_GS	2.0027E+00	L	07/07/2010 14:17	I
0140441	I-129	15046-84-1	6.77E-02	pCi/L	1.3E-01	1.3E-01	U	2.05E-01	91.9	I129LL_SEP_LEPS	3.7894E+00	L	06/29/2010 11:50	I
0140443	NI-63	13981-37-8	3.17E+00	pCi/L	1.7E+00	2.5E+00	U	3.94E+00	89.3	NI63_LSC	4.065E-01	L	07/14/2010 10:35	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.

7/26/2010 11:16:06 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44319 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L1LPK10	B25937		MW6-SBB-A1	X10-053	W05891					05/11/2010 12:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	-1.43E+00	pCi/L	3.3E+00	3.7E+00	U	8.03E+00	100.0	C14_LSC	2.00E-01	L	07/14/2010 00:04	I
0140440	BE-7	13966-02-4	-2.18E+01	pCi/L	2.5E+01	2.5E+01	U	4.00E+01		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	CO-60	10198-40-0	-2.30E-01	pCi/L	1.5E+00	1.5E+00	U	2.84E+00		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	CS-134	13967-70-9	-6.20E-02	pCi/L	1.9E+00	1.9E+00	U	3.35E+00		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	CS-137	10045-97-3	-9.75E-01	pCi/L	1.6E+00	1.6E+00	U	2.70E+00		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	EU-152	14683-23-9	-9.47E-01	pCi/L	4.1E+00	4.1E+00	U	6.93E+00		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	EU-154	15585-10-1	4.41E+00	pCi/L	4.9E+00	4.9E+00	U	1.01E+01		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	EU-155	14391-16-3	2.91E-01	pCi/L	2.8E+00	2.8E+00	U	5.01E+00		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	K-40	13966-00-2	-2.59E+01	pCi/L	3.9E+01	3.9E+01	U	8.01E+01		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	RU-106	13967-48-1	-2.51E+00	pCi/L	1.5E+01	1.5E+01	U	2.70E+01		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140440	SB-125	14234-35-6	3.79E+00	pCi/L	4.1E+00	4.1E+00	U	7.75E+00		GAMMALL_GS	2.0275E+00	L	07/07/2010 14:18	I
0140441	I-129	15046-84-1	3.52E-02	pCi/L	9.8E-02	9.8E-02	U	1.82E-01	95.1	I129LL_SEP_LEPS	3.8749E+00	L	06/29/2010 11:51	I
0140443	NI-63	13981-37-8	1.28E+00	pCi/L	1.4E+00	2.1E+00	U	3.48E+00	100.0	NI63_LSC	4.019E-01	L	07/14/2010 12:18	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:
9L1LQD10	B25985		MW6-SBB-A1	X10-053	W05891					05/11/2010 12:29

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	-1.86E-01	pCi/L	3.3E+00	3.7E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/14/2010 01:30	I
0140440	BE-7	13966-02-4	1.26E+00	pCi/L	2.4E+01	2.4E+01	U	4.24E+01		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	CO-60	10198-40-0	-5.08E-01	pCi/L	1.5E+00	1.5E+00	U	2.69E+00		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	CS-134	13967-70-9	-7.51E-01	pCi/L	1.8E+00	1.8E+00	U	3.10E+00		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	CS-137	10045-97-3	-1.19E+00	pCi/L	1.7E+00	1.7E+00	U	2.73E+00		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	EU-152	14683-23-9	-1.83E-01	pCi/L	3.8E+00	3.8E+00	U	6.76E+00		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	EU-154	15585-10-1	-3.86E-01	pCi/L	4.1E+00	4.1E+00	U	7.66E+00		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	EU-155	14391-16-3	-2.67E+00	pCi/L	2.6E+00	2.6E+00	U	4.08E+00		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	K-40	13966-00-2	-3.03E+01	pCi/L	3.5E+01	3.5E+01	U	6.97E+01		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	RU-106	13967-48-1	-9.17E+00	pCi/L	1.5E+01	1.5E+01	U	2.54E+01		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140440	SB-125	14234-35-6	-2.12E+00	pCi/L	3.8E+00	3.8E+00	U	6.37E+00		GAMMALL_GS	2.0094E+00	L	07/07/2010 17:43	I
0140441	I-129	15046-84-1	7.92E-02	pCi/L	1.1E-01	1.1E-01	U	1.58E-01	93.2	I129LL_SEP_LEPS	3.8987E+00	L	06/29/2010 15:29	I
0140443	NI-63	13981-37-8	1.25E+00	pCi/L	1.4E+00	2.1E+00	U	3.39E+00	100.0	NI63_LSC	4.033E-01	L	07/14/2010 15:43	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.

7/26/2010 11:16:06 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44319 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9L1LQH10	B25955		MW6-SBB-A1	X10-053	W05891					05/11/2010 08:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	-4.70E-02	pCi/L	3.3E+00	3.7E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/14/2010 02:12	I
0140440	BE-7	13966-02-4	3.51E+00	pCi/L	2.0E+01	2.0E+01	U	3.57E+01		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	CO-60	10198-40-0	6.33E-01	pCi/L	1.4E+00	1.4E+00	U	2.65E+00		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	CS-134	13967-70-9	-7.80E-01	pCi/L	1.4E+00	1.4E+00	U	2.35E+00		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	CS-137	10045-97-3	8.05E-01	pCi/L	1.3E+00	1.3E+00	U	2.36E+00		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	EU-152	14683-23-9	-3.20E+00	pCi/L	3.4E+00	3.4E+00	U	5.50E+00		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	EU-154	15585-10-1	-8.73E-03	pCi/L	3.6E+00	3.6E+00	U	6.68E+00		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	EU-155	14391-16-3	-2.97E+00	pCi/L	3.2E+00	3.2E+00	U	5.11E+00		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	K-40	13966-00-2	6.72E+00	pCi/L	2.1E+01	2.1E+01	U	4.16E+01		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	RU-106	13967-48-1	3.93E+00	pCi/L	1.3E+01	1.3E+01	U	2.36E+01		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140440	SB-125	14234-35-6	1.02E+00	pCi/L	3.5E+00	3.5E+00	U	6.17E+00		GAMMALL_GS	2.0047E+00	L	07/07/2010 17:44	I
0140441	I-129	15046-84-1	2.38E-01	pCi/L	3.5E-01	3.5E-01	U	1.83E-01	95.9	I129LL_SEP_LEPS	3.8319E+00	L	06/29/2010 18:57	I
0140443	NI-63	13981-37-8	1.80E+00	pCi/L	1.5E+00	2.2E+00	U	3.58E+00	100.0	NI63_LSC	4.069E-01	L	07/14/2010 17:26	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:
9L1LQN10	B25943		MW6-SBB-A1	X10-053	W05891					05/11/2010 10:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140442	C-14	14762-75-5	3.19E+00	pCi/L	3.4E+00	3.9E+00	U	8.02E+00	100.0	C14_LSC	2.00E-01	L	07/14/2010 03:38	I
0140440	BE-7	13966-02-4	2.13E+01	pCi/L	3.3E+01	3.3E+01	U	5.98E+01		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	CO-60	10198-40-0	2.37E+00	pCi/L	2.4E+00	2.4E+00	U	4.84E+00		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	CS-134	13967-70-9	8.54E-01	pCi/L	2.5E+00	2.5E+00	U	4.58E+00		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	CS-137	10045-97-3	-6.20E-02	pCi/L	2.2E+00	2.2E+00	U	3.88E+00		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	EU-152	14683-23-9	4.09E+00	pCi/L	5.3E+00	5.3E+00	U	9.57E+00		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	EU-154	15585-10-1	-1.51E+00	pCi/L	5.9E+00	5.9E+00	U	1.04E+01		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	EU-155	14391-16-3	1.79E+00	pCi/L	3.7E+00	3.7E+00	U	6.55E+00		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	K-40	13966-00-2	-5.53E+01	pCi/L	5.2E+01	5.2E+01	U	1.05E+02		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	RU-106	13967-48-1	3.03E+00	pCi/L	2.0E+01	2.0E+01	U	3.54E+01		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140440	SB-125	14234-35-6	9.01E-01	pCi/L	5.0E+00	5.0E+00	U	8.85E+00		GAMMALL_GS	2.0143E+00	L	07/07/2010 17:45	I
0140441	I-129	15046-84-1	6.80E-02	pCi/L	9.5E-02	9.5E-02	U	1.83E-01	94.6	I129LL_SEP_LEPS	3.86E+00	L	06/29/2010 18:58	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.

7/26/2010 11:16:06 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 44319 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

0140443	NI-63	13981-37-8	1.97E+00	pCi/L	1.4E+00	2.2E+00	U	3.34E+00	97.3	NI63_LSC	4.099E-01	L	07/14/2010	19:08	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:
9L1MPK10	B257K0		MW6-SBB-A1	X10-054	W05891					05/11/2010 12:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
0140440	BE-7	13966-02-4	-1.17E+00	pCi/L	1.6E+01	1.6E+01	U	2.75E+01		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	CO-60	10198-40-0	3.08E-01	pCi/L	1.1E+00	1.1E+00	U	2.19E+00		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	CS-134	13967-70-9	1.38E+00	pCi/L	1.1E+00	1.1E+00	U	2.25E+00		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	CS-137	10045-97-3	1.07E+00	pCi/L	1.0E+00	1.0E+00	U	2.03E+00		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	EU-152	14683-23-9	-6.23E-01	pCi/L	2.5E+00	2.5E+00	U	4.39E+00		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	EU-154	15585-10-1	-1.42E+00	pCi/L	3.3E+00	3.3E+00	U	5.68E+00		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	EU-155	14391-16-3	-3.59E-01	pCi/L	2.1E+00	2.1E+00	U	3.59E+00		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	K-40	13966-00-2	-5.39E+00	pCi/L	2.2E+01	2.2E+01	U	4.34E+01		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	RU-106	13967-48-1	7.63E-01	pCi/L	9.2E+00	9.2E+00	U	1.65E+01		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	I
0140440	SB-125	14234-35-6	8.73E-01	pCi/L	2.2E+00	2.2E+00	U	4.03E+00		GAMMALL_GS	2.0034E+00	L	07/07/2010 17:45	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.

Monday, July 26, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id: L1VMP1AB **Sdg/Rept Nbr:** W05891 44319 **Collection Date:** 05/11/2010 12:31

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AR	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
0140440	BE-7	8.41E+00	pCi/L	2.1E+01	U	3.89E+01			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	13966-02-4			2.1E+01						L	17:45				
0140440	CO-60	-6.95E-02	pCi/L	1.6E+00	U	3.04E+00			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	10198-40-0			1.6E+00						L	17:45				
0140440	CS-134	8.29E-01	pCi/L	1.9E+00	U	3.51E+00			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	13967-70-9			1.9E+00						L	17:45				
0140440	CS-137	-2.12E-02	pCi/L	1.7E+00	U	3.07E+00			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	10045-97-3			1.7E+00						L	17:45				
0140440	EU-152	1.62E+00	pCi/L	3.8E+00	U	6.82E+00			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	14683-23-9			3.8E+00						L	17:45				
0140440	EU-154	-1.54E+00	pCi/L	4.0E+00	U	7.16E+00			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	15585-10-1			4.0E+00						L	17:45				
0140440	EU-155	-3.76E-01	pCi/L	2.9E+00	U	5.15E+00			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	14391-16-3			2.9E+00						L	17:45				
0140440	K-40	-2.48E+01	pCi/L	3.8E+01	U	7.93E+01			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	13966-00-2			3.8E+01						L	17:45				
0140440	RU-106	1.05E+00	pCi/L	1.4E+01	U	2.63E+01			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	13967-48-1			1.4E+01						L	17:45				
0140440	SB-125	-2.11E-01	pCi/L	3.7E+00	U	6.66E+00			GAMMALL_GS	2.0109E+00	07/07/2010				D
BLK	14234-35-6			3.7E+00						L	17:45				

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.

Monday, July 26, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1VMQ1AB	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:** 05/11/2010 10:43
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AT	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
0140441	I-129	-3.63E-03	pCi/L	1.1E-01	U	1.88E-01	94.6		I129LL_SEP_L	3.8754E+00	06/29/2010				D
BLK	15046-84-1			1.1E-01						L	22:24				

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.

Monday, July 26, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1VMR1AB	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:** 04/29/2010 08:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/03/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
0140442	C-14	-9.34E-01	pCi/L	3.7E+00	U	8.01E+00	100.0		C14_LSC	2.00E-01	07/14/2010				D
BLK	14762-75-5			3.3E+00						L	04:21				

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.

Monday, July 26, 2010

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1VMT1AB	**Sdg/Rept Nbr:**	W05891 44319	**Collection Date:**	05/11/2010 09:35
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
0140443	NI-63	-3.22E-01	pCi/L	2.0E+00	U	3.36E+00	100.0		NI63_LSC	4.121E-01	07/14/2010				D
BLK	13981-37-8			1.4E+00						L	20:51				

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.

Monday, July 26, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id: L1VMP1CS **Sdg/Rept Nbr:** W05891 44319 **Collection Date:** 05/11/2010 12:31

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AS	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
0140440	CO-60	3.27E+01	pCi/L	6.4E+00		3.53E+00		3.68E+01	GAMMALL_GS	2.0121E+00	07/08/2010			70	D
BS	10198-40-0			6.4E+00				88.9		L	03:55			130	
0140440	CS-137	5.36E+01	pCi/L	9.0E+00		3.35E+00		4.94E+01	GAMMALL_GS	2.0121E+00	07/08/2010			70	D
BS	10045-97-3			9.0E+00				108.3		L	03:55			130	
0140440	EU-152	7.90E+01	pCi/L	1.5E+01		9.01E+00		7.73E+01	GAMMALL_GS	2.0121E+00	07/08/2010			70	D
BS	14683-23-9			1.5E+01				102.2		L	03:55			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.

Monday, July 26, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1VMQ1CS	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:** 05/11/2010 10:43
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AU	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
0140441	I-129	1.00E+01	pCi/L	1.1E+00		2.06E-01	93.2	1.01E+01	I129LL_SEP_L	3.8506E+00	06/29/2010			70	D
BS	15046-84-1			1.1E+00				98.8		L	22:25			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.

Monday, July 26, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1VMR1CS	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:** 04/29/2010 08:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/03/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
0140442	C-14	1.84E+02	pCi/L	1.1E+01		8.02E+00	100.0	1.82E+02	C14_LSC	2.00E-01	07/14/2010			70	D
BS	14762-75-5			7.5E+00				101.4		L	05:04			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.

Monday, July 26, 2010

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1VMT1CS	**Sdg/Rept Nbr:**	W05891 44319	**Collection Date:**	05/11/2010 09:35
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	05/12/2010

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
0140443	NI-63	3.19E+02	pCi/L	2.0E+01		3.27E+00	100.0	3.62E+02	NI63_LSC	4.109E-01	07/15/2010			70	D
BS	13981-37-8			5.0E+00				87.9		L	00:16			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.

Monday, July 26, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L08E11ER	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:** 04/29/2010 08:18
Client Id:	B24LV1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/03/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-039	MW6-SBB-A19981								AN	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
0140442	C-14	2.81E+00	pCi/L	3.9E+00	U	8.02E+00	100.0		C14_LSC	2.00E-01	07/13/2010	2241.9	1.9		D
DUP	14762-75-5	-2.35E+00		3.4E+00						L	19:47	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.

Monday, July 26, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1LN31FR	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:**	05/11/2010 09:35
Client Id:	B25997	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-053	MW6-SBB-A19981								AO	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
0140443	NI-63	3.10E+00	pCi/L	2.2E+00	U	3.37E+00	100.0		NI63_LSC	4.049E-01	07/14/2010	43.5	0.7		D
DUP	13981-37-8	1.99E+00		1.5E+00						L	08:52	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.

Monday, July 26, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1LNW1FR	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:** 05/11/2010 10:43
Client Id:	B25931	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-053	MW6-SBB-A19981								AP	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
0140441	I-129	3.73E-02	pCi/L	9.8E-02	U	1.82E-01	91.6		I129LL_SEP_L	3.8822E+00	06/29/2010	0.0	1.4		D
DUP	15046-84-1	-5.73E-02		9.8E-02						L	04:17	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.

Monday, July 26, 2010

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05891.Edd, h:\Reportdb\edd\FeadIV\Rad\44319.Edd

Lab Sample Id:	L1MPK1CR	**Sdg/Rept Nbr:**	W05891	44319	**Collection Date:** 05/11/2010 12:31
Client Id:	B257K0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/12/2010

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
X10-054	MW6-SBB-A19981								AQ	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
0140440	BE-7	-1.18E+01	pCi/L	2.1E+01	U	3.44E+01			GAMMALL_GS	2.0034E+00	07/08/2010	0.0	0.7		D
DUP	13966-02-4	-1.17E+00		2.1E+01						L	03:55	20.0	3		
0140440	CO-60	-3.71E-01	pCi/L	1.2E+00	U	2.18E+00			GAMMALL_GS	2.0034E+00	07/08/2010	0.0	0.8		D
DUP	10198-40-0	3.08E-01		1.2E+00						L	03:55	20.0	3		
0140440	CS-134	-3.69E-01	pCi/L	1.4E+00	U	2.50E+00			GAMMALL_GS	2.0034E+00	07/08/2010	346.5	1.7		D
DUP	13967-70-9	1.38E+00		1.4E+00						L	03:55	20.0	3		
0140440	CS-137	-7.33E-02	pCi/L	1.4E+00	U	2.40E+00			GAMMALL_GS	2.0034E+00	07/08/2010	229.4	1.2		D
DUP	10045-97-3	1.07E+00		1.4E+00						L	03:55	20.0	3		
0140440	EU-152	-1.69E+00	pCi/L	3.5E+00	U	5.86E+00			GAMMALL_GS	2.0034E+00	07/08/2010	0.0	0.4		D
DUP	14683-23-9	-6.23E-01		3.5E+00						L	03:55	20.0	3		
0140440	EU-154	5.43E-01	pCi/L	3.1E+00	U	5.94E+00			GAMMALL_GS	2.0034E+00	07/08/2010	0.0	0.9		D
DUP	15585-10-1	-1.42E+00		3.1E+00						L	03:55	20.0	3		
0140440	EU-155	-1.32E+00	pCi/L	3.2E+00	U	5.35E+00			GAMMALL_GS	2.0034E+00	07/08/2010	0.0	0.4		D
DUP	14391-16-3	-3.59E-01		3.2E+00						L	03:55	20.0	3		
0140440	K-40	5.95E-01	pCi/L	2.0E+01	U	3.84E+01			GAMMALL_GS	2.0034E+00	07/08/2010	0.0	0.4		D
DUP	13966-00-2	-5.39E+00		2.0E+01						L	03:55	20.0	3		
0140440	RU-106	-7.18E+00	pCi/L	1.3E+01	U	2.27E+01			GAMMALL_GS	2.0034E+00	07/08/2010	0.0	0.8		D
DUP	13967-48-1	7.63E-01		1.3E+01						L	03:55	20.0	3		
0140440	SB-125	1.55E+00	pCi/L	3.5E+00	U	6.21E+00			GAMMALL_GS	2.0034E+00	07/08/2010	55.9	0.3		D
DUP	14234-35-6	8.73E-01		3.5E+00						L	03:55	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

7/8/2010 1:50:00 PM

Lot No., Due Date: J0E080417,J0E080415,J0E100489,J0E170435,J0E180408; 07/02/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0140440; RGAMMA Gamma by GER
SDG, Matrix: W05891; WATER

1.0 COC

	Yes	No	N/A
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		

2.0 QC Batch

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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: Lisa Anderson Date 7/8/10

TestAmerica Richland
GAS_RADCALCv4.8.44

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0140440

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: _____

Second Level Review: Jodie C Date: 7/19/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/8/2010 4:20:03 PM

Lot No., Due Date: J0E080417,J0E100489,J0E170435; 07/02/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0140441; RGAMLEPS Gamma by LEPS
SDG, Matrix: W05891; 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 Lisa Antonson Date 7/8/10

TestAmerica Richland
GAS_RADCALCv4.8.44

Page 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0140441

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: _____

Second Level Review: Jodie G Date: 7/19/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

7/14/2010 1:03:53 PM

Lot No., Due Date: J0E080417,J0E100489,J0E170435; 07/02/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0140442; RC14 C-14 by LSC
SDG, Matrix: W05891; WATER

1.0 COC

	Yes	No	N/A
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		

2.0 QC Batch

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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:

LMA 7/14/10

First Level [signature] Date TO 7/14/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 0140442

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: _____

Second Level Review: Jodie Date: 7/19/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

7/22/2010 10:12:12 AM

Lot No., Due Date: J0E170435; 07/02/2010
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 0140443; RNI63 NI-63 by LSC
SDG, Matrix: W05891; WATER

1.0 COC	
1.1 Is the COC 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:
NCM 10-16335

First Level: Lisa Anderson Date 7/28/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 0140443

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: _____

Second Level Review: Jodie C. Date: 7/22/10

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-16335**
NCM Initiated By: Lisa Antonson
Date Opened: 07/22/2010
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: Ni-63 by LSC
Lot #'s (Sample #'s): J0E170435 (1,2,3,4,5,6,7,8,9), J0E200000 (443),
QC Batches: 0140443,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	07/22/2010	The tracer recovery for the following samples exceeds 115%. The data calculation program assumes a maximum recovery of 100%. L1LNX, L1LN3 and it's dup, L1LPK, L1LQD, and L1LQH.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	07/22/2010	None

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 7/22/2010

CHPRC PGW

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X10-025-310

Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300110ES20
Project Title: D HDURA FEBRUARY 2010	Logbook No: HNF-N-506 28/192	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.The CACN for all analytical work at WSCF is 401647.
JOE080415 / SPG W05871

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B23W84	N	W	4/29/10	1034	1x4000-mL G/P	GAMMALL_GS: List-1 (9) LOBET	6 Months	HNO3 to pH <2
B23W84	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

JOE080415

RBG 4/29/10

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			1150 APR 29 2010	SSU-1			1150 APR 29 2010
SSU-1			MAY 03 2010 0800	L.D. Wall CHPRC	L.D. Wall		MAY 03 2010 0800
L.D. Wall CHPRC	L.D. Wall		MAY 03 2010	Don Petty	Don Petty	TALR	MAY 03 2010 1045
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 1045am May 3 10 @ GM Screen Results (out) .3 (in) .4 Initials [ ]

Client: PGW SDG #: W05891 NA [ ] SAF #: X10025 NA [ ]

Work Order Number: JDE080415 Chain of Custody # X10-025-310

Shipping Container ID: handdelivered NA [ ] Air Bill # _____ ~~NA [ ]~~

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [✓] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 1 @ 2 containers
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓] 1 @ 4L P 1 @ vials
8. Samples have:
   - [✓] custody seals
   - [✓] appropriate sample labels
   - [ ] tape
   - [ ] hazard labels
9. Samples are:
   - [✓] in good condition
   - [ ] broken
   - [ ] leaking
   - [ ] have air bubbles (Only for samples requiring head space)

   (Gammad)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓] _____

see other side for additional comments

Sample Custodian: [signature] Date: May 3 10 @ 1045AM

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

[✓] No action necessary; process as is.

Project Manager [signature] Date 5/11/10

LS-023, Rev. 10, 10/09

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-039-87
		Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-039	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: IU2 IU6DURA APRIL 2010	Logbook No: HNF-N-506 28 / 91	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

LDW 4/29/10
4/29/10 SDG-W058921

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 300118.
TICs are required 8260_VOA method.
Do not combine samples

JOE080417

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B24LV1	N	W	4/29/10	0818	1x20-mL P	Activity Scan	6 Months	None
B24LV1	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B24LV1	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B24LV1	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

LDW

JOE080417

4/29/10 LDW 4/29/10

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			APR 28 2010 1150	SSU- 1			APR 28 2010 1150
SSU- 1			MAY 03 2010 0800	L.D. Wall CHPRC		L.D. Wall	MAY 03 2010 0800
L.D. Wall CHPRC		L.D. Wall	MAY 03 2010 1045	Don Petty		Don Petty	TALR MAY 03 2010 1045
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: May 3 10 @ 1045AM GM Screen Results (out) 3 (in) 3 Initials [✓]

Client: PSW SDG #: W05871 NA [ ] SAF #: X10039 NA [ ]

Work Order Number: JOE080417 Chain of Custody # X10-039-87

Shipping Container ID: hand delivery NA [ ] Air Bill # _____ NA [✓]

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [✓] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 1 @ 60 Hamby
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ____ tape
   - 16 custody seals
   - 16 hazard labels
   - 16 appropriate sample labels
9. Samples are:
   - 16 in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓] _____

see other side for additional comments

Sample Custodian: [signature] Date: May 3 10 @ 1045AM

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

[✓] No action necessary; process as is.

Project Manager [signature] Date 5/11/10

LS-023, Rev. 10, 10/09

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-039-133 Page 1 of 1

Collector: D. R. Williamson CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-039	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300118ES20
Project Title: IU2 IU6DURA, APRIL 2010	Logbook No: HNF-N-506 281 93	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Do not combine samples from this SAF with other data sets. Need SDG to be stand alone.
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 300118.
TICs are required 8260_VOA method.
Do not combine samples

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B24LY4	N	W	5/4/10	1007	1x20-mL P	Activity Scan	6 Months	None
B24LY4	N	W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B24LY4	N	W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B24LY4	N	W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

JAH

JOE100489

JOE100489
GDEW05891
Dee

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. R. Williamson CHPRC			MAY 04 2010 1500	SSU- 1			MAY 04 2010 1500
SSU- 1			MAY 05 2010 0700	RD Julian CHPRC			MAY 05 2010 0700
RD Julian CHPRC			MAY 05 2010 0900	ANGEL Garcia			MAY 05 2010 0900

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 0900AM 5/05/10 GM Screen Results (out) .3 (in) .3 Initials [✓]

Client: PGal SDG #: W05891 NA [ ] SAF #: X10-037 NA [ ]

Work Order Number: JOE100489 Chain of Custody # X10-037-733

Shipping Container ID hand delivery NA [ ] Air Bill # _____ [✓]

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [✓] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓].

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 1 @ 6 Containers
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ___ tape
   - [✓] custody seals
   - [✓] hazard labels
   - [✓] appropriate sample labels
9. Samples are:
   - [✓] in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)

   (BOTH)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓] _____

see other side for additional comments

Sample Custodian: [signature] Date: 05/05/10 @ 0900AM

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

[✓] No action necessary; process as is.

Project Manager [signature] Date 5/11/10

LS-023, Rev. 10, 10/09

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-8 Page 1 of 1

Collector: KE Hamilton CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-053	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300078ES20
Project Title: BDURA MAY 2010	Logbook No: HNF-N-506 31 / 51	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25931	N	W	5-11-10	1043	1x20-mL P	Activity Scan	6 Months	None
B25931	N	W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25931	N	W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25931	N	W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25931	N	W	↓	↓	1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LNW JOE170435
JDGW05891

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC		Karen E Hamilton	MAY 11 2010 1455	SSU-1			MAY 11 2010 1455
SSU-1			MAY 12 2010 0800	L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 0800
L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 1225	Angel Garcia TAIR		Angel Garcia	MAY 12 2010 1225
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-3 Page 1 of 1

Collector: KE Hamilton CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-053	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300078ES20
Project Title: BDURA MAY 2010	Logbook No: HNF-N-506 31 / 51	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25925	N	W	5-11-10	0903	1x20-mL P	Activity Scan	6 Months	None
B25925	N	W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25925	N	W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25925	N	W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25925	N	W	↓	↓	1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LNX. JOE170435
SDGW05891

JOE170435

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
KE Hamilton CHPRC	Karen E Hamilton	MAY 11 2010 1455	SSU #1		MAY 11 2010 1455
SSU-1		MAY 12 2010 0800	L.D. Wall CHPRC	L.D. Wall	MAY 12 2010 0800
L.D. Wall CHPRC	L.D. Wall	MAY 12 2010 1225	TALR ANGEL Garcia		MAY 12 2010 1225
Relinquished By		Date/Time	Received By		Date/Time

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

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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-63 Page 1 of 1

Collector B.E. Briggs CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-053	Sampling Origin Hanford Site	Purchase Order/Charge Code 300078ES20
Project Title BDURA MAY 2010	Logbook No: HNF-N-506 25 / 27	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25997	N	W	05/11/10	0935	1x20-mL P	Activity Scan	6 Months	None
B25997	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25997	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25997	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25997	N	W	05/11/10	0935	1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LN3 JOE170435 JDGW05891

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
B.E. Briggs CHPRC — B.E. Briggs	MAY 11 2010 1415	SSU-1	MAY 11 2010 1415
SSU-1	MAY 12 2010 0800	L.D. Wall CHPRC — L.D. Wall	MAY 12 2010 0800
L.D. Wall CHPRC — L.D. Wall	MAY 12 2010 1225	ANGEL Garcia TAW	MAY 12 2010 1225
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil	DS = Drum Solid		
SE = Sediment	DL = Drum Liqui		
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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-23
		Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-053	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300078ES20
Project Title: BDURA MAY 2010	Logbook No: HNF-N-506 27/96	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25949	N	W	5-11-10	1352	1x20-mL P	Activity Scan	6 Months	None
B25949	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25949	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25949	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25949	N	W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LPC JOE170435 SDS4058911

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			MAY 1 1 2010 1515	SSU- 1			MAY 1 1 2010 1515
SSU- 1			MAY 1 2 2010 0800	L.D. Wall CHPRC		L.D. Wall	MAY 1 2 2010 0800
L.D. Wall CHPRC		L.D. Wall	MAY 1 2 2010 1225			Angel Ramos TAUR	MAY 1 2 2010 1225
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-13 Page 1 of 1

Collector AR McIntyre	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-053	Sampling Origin Hanford Site	Purchase Order/Charge Code 300078ES20
Project Title BDURA MAY 2010	Logbook No: HNF-N-506 27#96	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25937	N	W	5-11-10	1240	1x20-mL P	Activity Scan	6 Months	None
B25937	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25937	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25937	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25937	N	W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LPK JOE170435
JDEW058921

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			MAY 1 1 2010 1515	SSU- 1			MAY 1 1 2010 1515
SSU- 1			MAY 1 2 2010 0800	L.D. Wall CHPRC		L.D. Wall	MAY 1 2 2010 0800
L.D. Wall CHPRC		L.D. Wall	MAY 1 2 2010 1125	TALR		Angel Garcia	MAY 1 2 2010 1125
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-58 Page 1 of 1

Collector: KE Hamilton CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-053	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300078ES20
Project Title: BDURA MAY 2010	Logbook No: HNF-N-506 31 / 51	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time**
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25991	N	W	5-11-10	1415	1x20-mL P	Activity Scan	6 Months	None
B25991	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25991	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25991	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25991	N	W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LP0

JOE170435
JDGW058911

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC		Karen E Hamilton	MAY 11 2010 1455	SSU #1			MAY 11 2010 1455
SSU-1			MAY 12 2010 0800	L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 0800
L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 1225	ANGEL Courier Co			MAY 12 2010 1225

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-53
		Page 1 of 1

Collector: KE Hamilton	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-053 CHPRC	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300078ES20
Project Title: BDURA MAY 2010	Logbook No: HNF-N-506 31 / 151	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25985	N	W	5-11-10	1229	1x20-mL P	Activity Scan	6 Months	None
B25985	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25985	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25985	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25985	N	W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LQD JOE170435
SDG W05891

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC			MAY 11 2010 1455	SSU #1			MAY 11 2010 1455
SSU-1		5/12/10	MAY 12 2010 0800	L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 0800
L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 1205				MAY 12 2010 1205
Relinquished By			Date/Time	Received By			Date/Time

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

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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-28
		Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-053	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300078ES20
Project Title: BDURA MAY 2010	Logbook No: HNF-N-506 27196	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25955	N	W	5-11-10	0856	1x20-mL P	Activity Scan	6 Months	None
B25955	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25955	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25955	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25955	N	W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

LILQH JOE170435
SDGW05891

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			MAY 11 2010 1515	SSU-1			MAY 11 2010 1515
SSU-1			MAY 12 2010 0800	L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 0800
L.D. Wall CHPRC		L.D. Wall	MAY 12 2010 1205			Angel Garcia Lopez	MAY 12 2010 1205
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
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

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-053-18
		Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-053	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300078ES20
Project Title: BDURA MAY 2010	Logbook No: HNF-N-506 27196	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401736.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25943	N	W	5-11-10	1046	1x20-mL P	Activity Scan	6 Months	None
B25943	N	W			2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None
B25943	N	W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B25943	N	W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B25943	N	W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

L1LQN JCE170485 SDGW05891

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			MAY 11 2010 1515	SSU-1			MAY 11 2010 1515
SSU-1			MAY 12 2010 0800	L.D. Wall CHPRC	L.D. Wall		MAY 12 2010 0800
L.D. Wall CHPRC	L.D. Wall		MAY 12 2010 1225	Angel Garcia			MAY 12 2010 1225
Relinquished By			Date/Time	Received By			Date/Time

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5/12/10 1225 GM Screen Results (out) .3 (in) .8 Initials [✓]

Client: PEN SDG #: W05891 NA [ ] SAF #: X10-053 NA [ ]

Work Order Number: 10E170435 Chain of Custody # X10-053-8; 3;

Shipping Container ID: hand delivered NA [ ] Air Bill # 63; 23; 13; 58; 53; 28; 18. NA [✓]

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [✓] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 9 @ 7 containers per sample.
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - [✓] tape
   - [✓] custody seals
   - [✓] hazard labels
   - [✓] appropriate sample labels
9. Samples are:
   - [✓] in good condition
   - ___ broken
   - (BOTH)
   - ___ leaking
   - ___ have air bubbles
   - (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓]

see other side for additional comments

Sample Custodian: [signature] Date: 5/12/10 @ 1225

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

[✓] No action necessary; process as is.

Project Manager [signature] Date 5/17/10

LS-023, Rev. 10, 10/09

CHPRC PGW	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-054-2
		Page 1 of 1

Collector B.E. Briggs CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 376-4650
SAF No. X10-054	Sampling Origin Hanford Site	Purchase Order/Charge Code 300110ES20
Project Title D HDURA MAY 2010	Logbook No: HNF-N-506 25 / 27	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 concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time
100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401642.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B257K0	N	W	05/11/10	1231	1x20-mL P	Activity Scan	6 Months	None
B257K0	N	W	05/11/10	1231	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

L1MPK J0E180408
SDG 405891
DWL

J0E180408

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
B.E. Briggs CHPRC	B.E. Briggs	MAY 11 2010 1415	SSU- 1		MAY 11 2010 1415
SSU- 1		MAY 12 2010 0800	L.D. Wall CHPRC	L.D. Wall	MAY 12 2010 0800
L.D. Wall CHPRC	L.D. Wall	MAY 12 2010 1225	TALR		MAY 12 2010 1225
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5/12/10@12 25pm GM Screen Results (out) .2 (in) .3 Initials

Client: PGW SDG #: WO5891 NA [ ] SAF #: X10-054 NA [ ]

Work Order Number: JCE180408 Chain of Custody # X10-054-2

Shipping Container ID: hand delivery NA [ ] Air Bill # _____

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [✓] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 1
7. Sample holding times exceeded? 651810 NA [✓] Yes [ ] No [✓]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ✓ hazard labels
   - ✓ appropriate sample labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)

   (Gammal)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓]

see other side for additional comments

Sample Custodian: [signature] Date: 5/12/10@12 25pm

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

[✓] No action necessary; process as is.

Project Manager [signature] Date 5/18/10

LS-023, Rev. 10, 10/09

6/30/2010 11:22:18 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140440 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LoeberL | Bxx

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On [Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 L08EJ-1-AA J0E080415-1-SAMP 04/29/2010 10:34		2001.40g,in AmtRec: 1X4LP,1XVIAL20 #Containers: 2			100mL	200	611	1410	7/7/10	Scr: Alpha: -5.38E-04 uCi/Sa Beta: 5.06E-04 uCi/Sa
2 L08E1-1-AC J0E080417-1-SAMP 04/29/2010 08:18		2001.60g,in AmtRec: VIAL20,3X4LP,2XLP #Containers: 6					614	1411		Scr: Alpha: -1.19E-03 uCi/Sa Beta: -1.86E-04 uCi/Sa
3 L1AHT-1-AC J0E100489-1-SAMP 05/04/2010 10:07		2003.00g,in AmtRec: VIAL20,3X4LP,2XLP #Containers: 6					67	1411		Scr: Alpha: -1.09E-03 uCi/Sa Beta: 1.12E-04 uCi/Sa
4 L1LNW-1-AC J0E170435-1-SAMP 05/11/2010 10:43		2013.50g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					610	1411		Scr: Alpha: 2.94E-03 uCi/Sa Beta: -3.22E-04 uCi/Sa
5 L1LNX-1-AC J0E170435-2-SAMP 05/11/2010 09:03		2010.80g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					615	1716	7/7/10 m	Scr: Alpha: -1.54E-03 uCi/Sa Beta: 1.13E-03 uCi/Sa
6 L1LN3-1-AC J0E170435-3-SAMP 05/11/2010 09:35		2008.80g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					618	1717		Scr: Alpha: -1.17E-03 uCi/Sa Beta: 6.42E-04 uCi/Sa
7 L1LPC-1-AC J0E170435-4-SAMP 05/11/2010 13:52		2002.70g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					617	1717		Scr: Alpha: 2.05E-03 uCi/Sa Beta: -6.43E-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 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7 Prep_SamplePrep v4.8.41

6/30/2010 11:22:20 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
51 CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140440 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LoeberL

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 L1LPK-1-AC J0E170435-5-SAMP 05/11/2010 12:40		2027.50g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7			100mL	200	G7 Scr:	1738 Alpha: 1.68E-03 uCi/Sa	7/7/10 KL Beta: 4.81E-04 uCi/Sa	
9 L1LP0-1-AC J0E170435-6-SAMP 05/11/2010 14:15		2006.80g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					G16 Scr:	1738 Alpha: 2.06E-03 uCi/Sa	Beta: -1.29E-03 uCi/Sa	
10 L1LQD-1-AC J0E170435-7-SAMP 05/11/2010 12:29		2009.40g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					G15 Scr:	2103 Alpha: -8.56E-04 uCi/Sa	7/7/10 KL Beta: 1.29E-03 uCi/Sa	
11 L1LQH-1-AC J0E170435-8-SAMP 05/11/2010 08:56		2004.70g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					G10 Scr:	2104 Alpha: 1.33E-03 uCi/Sa	Beta: -9.65E-04 uCi/Sa	
12 L1LQN-1-AC J0E170435-9-SAMP 05/11/2010 10:46		2014.30g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					G14 Scr:	2105 Alpha: -1.38E-03 uCi/Sa	Beta: 1.13E-03 uCi/Sa	
13 L1MPK-1-AA J0E180408-1-SAMP 05/11/2010 12:31		2003.40g,in AmtRec: VIAL20,1X4LP #Containers: 2					G11 Scr:	2105 Alpha: -3.41E-05 uCi/Sa	Beta: 2.58E-04 uCi/Sa	
14 L1MPK-1-AC-X J0E180408-1-DUP 05/11/2010 12:31		AmtRec: VIAL20,1X4LP #Containers: 2					G10 Scr:	0115 Alpha: -3.41E-05 uCi/Sa	7/8/10 S Beta: 2.58E-04 uCi/Sa	

6/30/2010 11:22:21 AM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,LoeberL

AnalyDueDate: 07/02/2010

Batch: 0140440 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
18 L1VMP-1-AA-B J0E200000-440-BLK 05/21/2010 07:58 pd		2010.90g,in AmtRec:	#Containers: 1		100ml	200	~~4~~ 10 7/2/10 47	2105	7/2/10	
							Scr:	Alpha:		Beta:
15 L1VMP-1-AC-C J0E200000-440-LCS 05/21/2010 07:58 pd		2012.10g,in AmtRec:	QCAG1632 04/12/10,pd #Containers: 1				015	0715	7/8/10	
							Scr:	Alpha:		Beta:

Comments: No dup. due to ISV. Please recount on diff. detector. JB 6-30-10

PH < 2.0 LL 6-30-10

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L08EJ1AA-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:

L1VMP1AA-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:

L1VMP1AC-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						

L08EJ1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L1VMP1AA-BLK:

6/30/2010 11:22:21 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140440 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LoeberL

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

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

L1VMP1AC-LCS:

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

7/8/2010 1:47:31 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/8/2009, 7/13/2010, Batch: '0140440', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
0140440							
AC			Rev1C	LoeberL	6/30/2010 10:48:58		
SC				WagarR	IsBatched	5/21/2010 8:01:55 AM	ICOC_RADCALC v4.8.40
SC				LoeberL	InPrep	6/30/2010 10:48:58 AM	RL-PRP-004 Revision 1
SC				LoeberL	Prep1C	6/30/2010 11:24:31 AM	RL-PRP-004 REVISION 1
SC				BockJ	InPrep2	7/1/2010 11:24:11 AM	RL-GAM-001 REVISION 1
SC				BockJ	Prep2C	7/6/2010 10:38:07 AM	RL-GAM-001 REVISION 1
SC				BlackCL	InCnt1	7/6/2010 10:43:14 AM	RL-CI-007 REVISION 1
SC				BlackCL	CalcC	7/8/2010 8:07:14 AM	RL-CI-007 REVISION 1
SC				antonsonl	Rev1C	7/8/2010 1:47:09 PM	RL-DR-001 Rev 0
AC				LoeberL	6/30/2010 11:24:31		
AC				BockJ	7/1/2010 11:24:11		
AC				BockJ	7/6/2010 10:38:07		
AC				BlackCL	7/6/2010 10:43:14		
AC				BlackCL	7/8/2010 8:07:14 AM		
AC				antonsonl	7/8/2010 1:47:09 PM		

AC: Accepting Entry, SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

6/19/2010 11:11:30 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1117411003
Pipet #: _____

AnalyDueDate: 07/02/2010 WO5891

Sep1 DT/Tm Tech:

Batch: 0140441 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 0140440 AWTA, 0140441 BNTB, 0140442 5SS3,

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 L08E1-1-AD J0E080417-1-SAMP 04/29/2010 08:18	AmtRec: VIAL20,3X4LP,2XLP #Containers: 6	3870.00g,in	ITA9521 06/09/10		37.2	200	L5	2109	6/28/10	Scr: Alpha: -1.19E-03 uCi/Sa Beta: -1.86E-04 uCi/Sa
2 L1AHT-1-AD J0E100489-1-SAMP 05/04/2010 10:07	AmtRec: VIAL20,3X4LP,2XLP #Containers: 6	3904.20g,in	ITA9522 06/09/10		34.7		L5	0111		Scr: Alpha: -1.09E-03 uCi/Sa Beta: 1.12E-04 uCi/Sa
3 L1LNW-1-AD J0E170435-1-SAMP 05/11/2010 10:43	AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	3883.20g,in	ITA9523 06/09/10		34.4		L4	0736	6/29/10	Scr: Alpha: 2.94E-03 uCi/Sa Beta: -3.22E-04 uCi/Sa
4 L1LNW-1-AF-X J0E170435-1-DUP 05/11/2010 10:43	AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	3882.20g,in	ITA9524 06/09/10		33.9		L5	0737		Scr: Alpha: 2.94E-03 uCi/Sa Beta: -3.22E-04 uCi/Sa
5 L1LNX-1-AD J0E170435-2-SAMP 05/11/2010 09:03	AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	3879.20g,in	ITA9525 06/09/10		34.0		L4	1145	6/29/10	Scr: Alpha: -1.54E-03 uCi/Sa Beta: 1.13E-03 uCi/Sa
6 L1LN3-1-AD J0E170435-3-SAMP 05/11/2010 09:35	AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	3896.90g,in	ITA9526 06/09/10		34.0		L5	1145		Scr: Alpha: -1.17E-03 uCi/Sa Beta: 6.42E-04 uCi/Sa
7 L1LPC-1-AD J0E170435-4-SAMP 05/11/2010 13:52	AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	3789.40g,in	ITA9527 06/09/10		34.0		L4	1510	6/29/10	Scr: Alpha: 2.05E-03 uCi/Sa Beta: -6.43E-04 uCi/Sa

6/19/2010 11:11:33 AM

Sample Preparation/Analysis

Balance Id:1117411003

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140441 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 L1LPK-1-AD J0E170435-5-SAMP 05/11/2010 12:40		3874.90g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	ITA9528 06/09/10		35.2	200	L5	1511	6/29/10 ne	
								Scr: Alpha: 1.68E-03 uCi/Sa		Beta: 4.81E-04 uCi/Sa
8 L1LP0-1-AD J0E170435-6-SAMP 05/11/2010 14:15		3895.20g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	ITA9529 06/09/10		35.1		L4	1849	6/29/10	
								Scr: Alpha: 2.06E-03 uCi/Sa		Beta: -1.29E-03 uCi/Sa
10 L1LQD-1-AD J0E170435-7-SAMP 05/11/2010 12:29		3898.70g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	ITA9530 06/09/10		34.5		L5	1849		
								Scr: Alpha: -8.56E-04 uCi/Sa		Beta: 1.29E-03 uCi/Sa
11 L1LQH-1-AD J0E170435-8-SAMP 05/11/2010 08:56		3831.90g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	ITA9531 06/09/10		35.5		L4	2217	6/29/10 OD	
								Scr: Alpha: 1.33E-03 uCi/Sa		Beta: -9.65E-04 uCi/Sa
12 L1LQN-1-AD J0E170435-9-SAMP 05/11/2010 10:46		3860.00g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	ITA9532 06/09/10		35.0		L5	2218		
								Scr: Alpha: -1.38E-03 uCi/Sa		Beta: 1.13E-03 uCi/Sa
13 L1VMQ-1-AA-B J0E200000-441-BLK 05/21/2010 07:58 pd		3875.40g,in AmtRec: #Containers: 1	ITA9533 06/09/10		35.0		L4	0144		
								Scr: Alpha:		Beta:
14 L1VMQ-1-AC-C J0E200000-441-LCS 05/21/2010 07:58 pd		3850.60g,in AmtRec: #Containers: 1	ISD1047 06/10/10		35.3		L5	0145		
								Scr: Alpha:		Beta:

TestAmerica Richland Wa.

Key: in - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 14
Prep_SamplePrep v4.8.41

6/19/2010 11:11:34 AM

Sample Preparation/Analysis

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

Balance Id:1117411003

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140441 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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

Comments: pH-neutral, JB 6-21-10

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L08E11AD-SAMP Constituent List:

I-129	RDL:0.50E+00	pCi/L	LCL:	UCL:	RPD:

L1VMQ1AA-BLK:

I-129	RDL:0.50E+00	pCi/L	LCL:	UCL:	RPD:

L1VMQ1AC-LCS:

I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

L08E11AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

L1VMQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

L1VMQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

7/8/2010 4:18:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/8/2009, 7/13/2010, Batch: '0140441', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
0140441							
AC			Rev1C	BockJ	6/19/2010 9:25:52		
SC				WagarR	IsBatched	5/21/2010 8:01:55 AM	ICOC_RADCALC v4.8.40
SC				BockJ	InPrep	6/19/2010 9:25:52 AM	RL-GAM-002 REVISION 0
SC				BockJ	Prep1C	6/19/2010 11:11:43 AM	RL-PRP-004 REV 0
SC				BockJ	InPrep2	6/19/2010 11:12:12 AM	RL-GAM-002 REVISION 0
SC				BockJ	Prep2C	6/28/2010 4:19:25 PM	RL-GAM-002 REVISION 1
SC				DAWKINSO	InCnt1	6/28/2010 5:49:57 PM	RL-CI-008 REVISION 1
SC				BlackCL	CalcC	6/30/2010 7:11:07 AM	RL-CI-007 REVISION 1
SC				antonsonl	Rev1C	7/8/2010 4:18:34 PM	RL-DR-001 Rev 0
AC				BockJ	6/19/2010 11:11:43		
AC				BockJ	6/19/2010 11:12:12		
AC				BockJ	6/28/2010 4:19:25 PM		
AC				DAWKINSO	6/28/2010 5:49:57 PM		
AC				BlackCL	6/30/2010 7:11:07		
AC				antonsonl	7/8/2010 4:18:34 PM		

AC: Accepting Entry, SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

5/21/2010 7:59:03 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 07/02/2010 W05891

Batch: 0140442 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 L08E1-1-AA J0E080417-1-SAMP 04/29/2010 08:18	AmtRec: VIAL20,3X4LP,2XLP	#Containers: 6				Scr:	Alpha: -1.19E-03 uCi/Sa	Beta: -1.86E-04 uCi/Sa
2 L08E1-1-AE-X J0E080417-1-DUP 04/29/2010 08:18	AmtRec: VIAL20,3X4LP,2XLP	#Containers: 6				Scr:	Alpha: -1.19E-03 uCi/Sa	Beta: -1.86E-04 uCi/Sa
3 L1AHT-1-AA J0E100489-1-SAMP 05/04/2010 10:07	AmtRec: VIAL20,3X4LP,2XLP	#Containers: 6				Scr:	Alpha: -1.09E-03 uCi/Sa	Beta: 1.12E-04 uCi/Sa
4 L1LNW-1-AA J0E170435-1-SAMP 05/11/2010 10:43	AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7				Scr:	Alpha:	Beta:
5 L1LNX-1-AA J0E170435-2-SAMP 05/11/2010 09:03	AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7				Scr:	Alpha:	Beta:
6 L1LN3-1-AA J0E170435-3-SAMP 05/11/2010 09:35	AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7				Scr:	Alpha:	Beta:
7 L1LPC-1-AA J0E170435-4-SAMP 05/11/2010 13:52	AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7				Scr:	Alpha:	Beta:

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7 ICOC v4.8.40

5/21/2010 7:59:04 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 07/02/2010

Batch: 0140442 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 L1LPK-1-AA J0E170435-5-SAMP 05/11/2010 12:40		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7			Scr:	Alpha:	Beta:
9 L1LP0-1-AA J0E170435-6-SAMP 05/11/2010 14:15		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7			Scr:	Alpha:	Beta:
10 L1LQD-1-AA J0E170435-7-SAMP 05/11/2010 12:29		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7			Scr:	Alpha:	Beta:
11 L1LQH-1-AA J0E170435-8-SAMP 05/11/2010 08:56		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7			Scr:	Alpha:	Beta:
12 L1LQN-1-AA J0E170435-9-SAMP 05/11/2010 10:46		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7			Scr:	Alpha:	Beta:
13 L1VMR-1-AA-B J0E200000-442-BLK 05/21/2010 07:58 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
14 L1VMR-1-AC-C J0E200000-442-LCS 05/21/2010 07:58 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 2
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added
ISV - Insufficient Volume for Analysis
WO Cnt: 14
ICOC v4.8.40

5/21/2010 7:59:04 AM

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 07/02/2010

Batch: 0140442 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 L1VMR-1-AD-BN								
J0E200000-442-IBLK								
05/21/2010 07:58 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 L1VMR-1-AE-BN								
J0E200000-442-IBLK								
05/21/2010 07:58 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

```
All Clients for Batch:
   384868, Pacific Northwest National Laboratory      Pacific Northwest National Lab,  SS , 57671

L08E11AA-SAMP Constituent List:
  C-14        RDL:2.00E+02    pCi/L    LCL:70      UCL:130     RPD:20
L1VMR1AA-BLK:
  C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
L1VMR1AC-LCS:
  C-14        RDL:200         pCi/L    LCL:70      UCL:130     RPD:20
L1VMR1AD-IBLK:
  C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
L1VMR1AE-IBLK:
  C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
L08E11AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L1VMR1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L1VMR1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L1VMR1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
L1VMR1AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

5/21/2010 7:59:04 AM

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140442 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

7/14/2010 1:03:04 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/14/2009, 7/19/2010, Batch: '0140442', User: *ALL Order By DateTimeAccepting

Q Batch Work Ord	CurStatus	Accepting			Comments
0140442					
AC	Rev1C	NelsonT	7/12/2010 1:18:24 PM		
SC		WagarR	IsBatched	5/21/2010 8:01:55 AM	ICOC_RADCALC v4.8.40
SC		NelsonT	Sep1C	7/12/2010 1:18:24 PM	RL-LSC-008 REVISION 1
SC		ClarkR	InCnt1	7/13/2010 12:42:42 PM	RL-CI-005 REVISION 1
SC		BlackCL	CalcC	7/14/2010 8:30:38 AM	RL-CI-005 REVISION 1
SC		antonsonl	Rev1C	7/14/2010 1:02:52 PM	RL-DR-001 Rev 0
AC		NelsonT	7/13/2010 12:38:38		
AC		ClarkR	7/13/2010 12:42:42		
AC		BlackCL	7/14/2010 8:30:38		
AC		antonsonl	7/14/2010 1:02:52 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt:5

ICOCFractions v4.8.44

6/25/2010 10:44:07 AM

Sample Preparation/Analysis

Balance Id:11

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AA Ni-63 Prp PRP004, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140443 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 0140440 AWTA, 0140441 BNTB, 0140442 5SS3, 0140443 AAS4,

Prep Tech: ,LoeberL

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 L1LNW-1-AE J0E170435-1-SAMP 05/11/2010 10:43		AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	404.90g,in	404.90g	NITA3241 06/23/10	100	Scr:	Alpha: 2.94E-03 uCi/Sa		Beta: -3.22E-04 uCi/Sa
2 L1LNX-1-AE J0E170435-2-SAMP 05/11/2010 09:03		AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	406.40g,in	406.40g	NITA3240 06/23/10		Scr:	Alpha: -1.54E-03 uCi/Sa		Beta: 1.13E-03 uCi/Sa
3 L1LN3-1-AE J0E170435-3-SAMP 05/11/2010 09:35		AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	401.10g,in	401.10g	NITA3239 06/23/10		Scr:	Alpha: -1.17E-03 uCi/Sa		Beta: 6.42E-04 uCi/Sa
4 L1LN3-1-AF-X J0E170435-3-DUP 05/11/2010 09:35		AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	404.90g,in	404.90g	NITA3238 06/23/10		Scr:	Alpha: -1.17E-03 uCi/Sa		Beta: 6.42E-04 uCi/Sa
5 L1LPC-1-AE J0E170435-4-SAMP 05/11/2010 13:52		AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	406.50g,in	406.50g	NITA3237 06/23/10		Scr:	Alpha: 2.05E-03 uCi/Sa		Beta: -6.43E-04 uCi/Sa
6 L1LPK-1-AE J0E170435-5-SAMP 05/11/2010 12:40		AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	401.90g,in	401.90g	NITA3247 06/23/10		Scr:	Alpha: 1.68E-03 uCi/Sa		Beta: 4.81E-04 uCi/Sa
7 L1LP0-1-AE J0E170435-6-SAMP 05/11/2010 14:15		AmtRec: VIAL20,3XLP,3X4LP #Containers: 7	414.70g,in	414.70g	NITA3246 06/23/10		Scr:	Alpha: 2.06E-03 uCi/Sa		Beta: -1.29E-03 uCi/Sa

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
Prep_SamplePrep v4.8.41

6/25/2010 10:44:08 AM

Sample Preparation/Analysis

Balance Id:11

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AA Ni-63 Prp PRP004, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 07/02/2010

Sep1 DT/Tm Tech:

Batch: 0140443 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LoeberL

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 L1LQD-1-AE J0E170435-7-SAMP 05/11/2010 12:29		AmtRec: VIAL20,3XLP,3X4LP	403.30g,in #Containers: 7	403.30g	NITA3244 06/23/10	100	Scr:	Alpha: -8.56E-04 uCi/Sa		Beta: 1.29E-03 uCi/Sa
9 L1LQH-1-AE J0E170435-8-SAMP 05/11/2010 08:56		AmtRec: VIAL20,3XLP,3X4LP	406.90g,in #Containers: 7	406.90g	NITA3243 06/23/10		Scr:	Alpha: 1.33E-03 uCi/Sa		Beta: -9.65E-04 uCi/Sa
10 L1LQN-1-AE J0E170435-9-SAMP 05/11/2010 10:46		AmtRec: VIAL20,3XLP,3X4LP	409.90g,in #Containers: 7	409.90g	NITA3242 06/23/10		Scr:	Alpha: -1.38E-03 uCi/Sa		Beta: 1.13E-03 uCi/Sa
11 L1VMT-1-AA-B J0E200000-443-BLK 05/21/2010 07:58 pd		AmtRec:	412.10g,in #Containers: 1	412.10g	NITA3248 06/23/10		Scr:	Alpha:		Beta:
12 L1VMT-1-AC-C J0E200000-443-LCS 05/21/2010 07:58 pd		AmtRec:	410.90g,in #Containers: 1	410.90g	NISA1193 05/24/10		Scr:	Alpha:		Beta:
13 L1VMT-1-AD-BN J0E200000-443-IBLK 05/21/2010 07:58 pd		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
14 L1VMT-1-AE-BN J0E200000-443-IBLK 05/21/2010 07:58 pd		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

6/25/2010 10:44:09 AM

Sample Preparation/Analysis

AA Ni-63 Prp PRP004, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 07/02/2010

Batch: 0140443 pCi/L
SEQ Batch, Test: None

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

Comments:

PH<2.0 LL 6-25-10

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

L1LNW1AE-SAMP Constituent List:
Ni-63 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
L1VMT1AA-BLK:
Ni-63 RDL:15 pCi/L LCL: UCL: RPD:
L1VMT1AC-LCS:
Ni-63 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
L1VMT1AD-IBLK:
Ni-63 RDL:15 pCi/L LCL: UCL: RPD:
L1VMT1AE-IBLK:
Ni-63 RDL:15 pCi/L LCL: UCL: RPD:

L1LNW1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L1VMT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L1VMT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L1VMT1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
L1VMT1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

7/22/2010 10:06:13 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/22/2009, 7/27/2010, Batch: '0140443', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
	0140443						
AC			Rev1C	LoeberL	6/25/2010 10:12:33		
SC				WagarR	IsBatched	5/21/2010 8:01:55 AM	ICOC_RADCALC v4.8.40
SC				LoeberL	InPrep	6/25/2010 10:12:33 AM	RL-PRP-004 Revision 1
SC				LoeberL	InPrep	6/25/2010 10:26:06 AM	RL-PRP-004 REVISION 1
SC				LoeberL	Prep1C	6/25/2010 10:47:38 AM	RL-PRP-004 REVISION 1
SC				JorgensonD	Sep1C	7/13/2010 5:46:28 PM	RL-LSC-017 REVISION 1
SC				DAWKINSO	InCnt1	7/13/2010 7:16:47 PM	RL-CI-005 REVISION 1
SC				ClarkR	CalcC	7/22/2010 9:00:42 AM	RL-CI-005 REVISION 1
SC				antonsonl	Rev1C	7/22/2010 10:05:58 AM	RL-DR-001 Rev 0
AC				LoeberL	6/25/2010 10:26:06		
AC				LoeberL	6/25/2010 10:47:38		
AC				JorgensonD	7/13/2010 5:46:28 PM		
AC				DAWKINSO	7/13/2010 7:16:47 PM		
AC				ClarkR	7/22/2010 9:00:42		
AC				antonsonl	7/22/2010 10:05:58		

AC: Accepting Entry; SC: Status Change