Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains _____ Pages

Report No.: 43238

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

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W05809	D10-008	BLOWER ROOM	J0B090542-2	LVGJ11AC	9LVGJ110	0041185
		BLOWER ROOM	J0B090542-2	LVGJ11AA	9LVGJ110	0041187
		DRYER ROOM #1	J0B090542-4	LVGKG1AC	9LVGKG10	0041185
		DRYER ROOM #1	J0B090542-4	LVGKG1AA	9LVGKG10	0041187
		DRYER ROOM #2	J0B090542-3	LVGKD1AC	9LVGKD10	0041185
		DRYER ROOM #2	J0B090542-3	LVGKD1AA	9LVGKD10	0041187
		FILTER ROOM	J0B090542-1	LVGJP1AC	9LVGJP10	0041185
		FILTER ROOM	J0B090542-1	LVGJP1AA	9LVGJP10	0041187
		LEVEL #1	J0B090542-11	LVGLQ1AC	9LVGLQ10	0041185
		LEVEL #1	J0B090542-11	LVGLQ1AA	9LVGLQ10	0041187
		LEVEL #1-1	J0B090542-14	LVGLX1AC	9LVGLX10	0041185
		LEVEL #1-1	J0B090542-14	LVGLX1AA	9LVGLX10	0041187
		LEVEL #2	J0B090542-12	LVGLV1AC	9LVGLV10	0041185
		LEVEL #2	J0B090542-12	LVGLV1AA	9LVGLV10	0041187
		LEVEL #2-1	J0B090542-15	LVGL01AC	9LVGL010	0041185
		LEVEL #2-1	J0B090542-15	LVGL01AA	9LVGL010	0041187
		LEVEL #3	J0B090542-13	LVGLW1AC	9LVGLW10	0041185
		LEVEL #3	J0B090542-13	LVGLW1AA	9LVGLW10	0041187
		LEVEL #3-1	J0B090542-16	LVGL11AC	9LVGL110	0041185
		LEVEL #3-1	J0B090542-16	LVGL11AA	9LVGL110	0041187
		OPERATIONS GALLERY	J0B090542-5	LVGKK1AC	9LVGKK10	0041185
		OPERATIONS GALLERY	J0B090542-5	LVGKK1AA	9LVGKK10	0041187
		OPERATIONS GALLERY-1	J0B090542-8	LVGLA1AC	9LVGLA10	0041185
		OPERATIONS GALLERY-1	J0B090542-8	LVGLA1AA	9LVGLA10	0041187
		PIPE TUNNEL-1	J0B090542-6	LVGKQ1AC	9LVGKQ10	0041185
		PIPE TUNNEL-1	J0B090542-6	LVGKQ1AA	9LVGKQ10	0041187

Report No.: 43238

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

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W05809	D10-008	PIPE TUNNEL-1A	J0B090542-9	LVGLJ1AC	9LVGLJ10	0041185
		PIPE TUNNEL-1A	J0B090542-9	LVGLJ1AA	9LVGLJ10	0041187
		PIPE TUNNEL-2	J0B090542-7	LVGK11AC	9LVGK110	0041185
		PIPE TUNNEL-2	J0B090542-7	LVGK11AA	9LVGK110	0041187
		PIPE TUNNEL-2A	J0B090542-10	LVGLP1AC	9LVGLP10	0041185
		PIPE TUNNEL-2A	J0B090542-10	LVGLP1AA	9LVGLP10	0041187

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

WSCF Client Services
P.O. Box 1000, T6-03
Richland, WA 99352

February 24, 2010

Attention: John Trechter

SAF Number	:	D10-008
Date SDG Closed	:	February 9, 2010
Number of Samples	:	Sixteen (16)
Sample Type	:	Smears
SDG Number	:	W05809
Data Deliverable	:	3/15 Day Summary

CASE NARRATIVE

I. Introduction

On February 9, 2010 sixteen composite samples were received at TestAmerica for radiochemical analysis. Upon receipt, the samples were assigned to lot J0B090542 and assigned the following laboratory ID numbers:

FH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
FILTER ROOM	LVGJP	SMEARS	2/09/10
BLOWER ROOM	LVGJ1	SMEARS	2/09/10
DRYER ROOM #2	LVGKD	SMEARS	2/09/10
DRYER ROOM #1	LVGKG	SMEARS	2/09/10
OPERATIONS GALLERY	LVGKK	SMEARS	2/09/10
PIPE TUNNEL -1	LVGKQ	SMEARS	2/09/10
PIPE TUNNEL -2	LVGK1	SMEARS	2/09/10
OPERATIONS GALLERY-1	LVG1A	SMEARS	2/09/10
PIPE TUNNEL -1A	LVGLJ	SMEARS	2/09/10
PIPE TUNNEL -2A	LVGLP	SMEARS	2/09/10
LEVEL #1	LVGLQ	SMEARS	2/09/10
LEVEL #2	LVGLV	SMEARS	2/09/10

LEVEL #3	LVG1W	SMEARS	2/09/10
LEVEL #1-1	LVGLX	SMEARS	2/09/10
LEVEL #2-1	LVGL0	SMEARS	2/09/10
LEVEL #3-1	LVGL1	SMEARS	2/09/10

II. Sample Receipt

Ninety three smears were received and were composited following client instructions. The following anomalies were noted during check-in and the client was notified by email on February 9, 2010:

Composite LEVEL #1-1, Sample K-10-022 WET
The container that held smear K-10-022 WET was broken. The client instructions were to include the smear in composite LEVEL #1-1 even though the holding container was broken.

DRYER ROOM #1, Sample K-09-011 WET
Sample K-09-011 WET was not included in the client composite plan. The client instructions were to include smear K-09-011 WET in the DRYER ROOM #1 composite.

DRYER ROOM #1, Sample K-09-008 WET
Sample K-09-008 WET was listed twice on the composite plan. The client instructions were to change one of the K-09-008 WET IDs to K-09-011 WET.

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:

Liquid Scintillation Counting
Tritium by method RL-LSC-005 (RICH-RC-5007)*
Carbon-14 by method RL-LSC-008 (RICH-RC-5022)*

*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.

WSCF Client Services
February 24, 2010

V. Comments

Liquid Scintillation Counting

Tritium by method RL-LSC-005 (RICH-RC-5007):
The LCS, batch blank, samples and sample duplicate (BLOWER ROOM) results are within contractual requirements.

Carbon-14 by method RL-LSC-008 (RICH-RC-5022):
There was insufficient sample volume to analyze a sample duplicate. Except as noted, the LCS, batch blank and samples results are within contractual requirements.

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

Reviewed and approved:

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 Microsopy 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	SW486 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-5015	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-5018	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 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Prep - Water	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	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 / DOE00089T	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, Lundeell, 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 ENVIROMENTAL 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 RP550 / 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 RP725 / DOE0089T	SEPARATION OF URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-003	RICH-RC-5072	EXT Chrom Mod RP725 & 800 / DOE0089T	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-009	RICH-RC-5079	EXT Chromatography Mod RP725 / DOE0089T	DETERMINATION OF ISOTOPIC URANIUM IN ALL MATRICES

Sample Results Summary

Date: 24-Feb-10

TestAmerica TARL

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

Report No. : 43238

SDG No: W05809

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
0041185 C14CHEMLSC									
BLOWER ROOM									
	LVGJ11AC	C-14	5.73E+02 +- 2.2E+01		pCi/sample	100%	1.65E+00	5.00E+01	
DRYER ROOM #1									
	LVGKG1AC	C-14	6.69E+03 +- 2.5E+02		pCi/sample	100%	1.65E+00	5.00E+01	
DRYER ROOM #2									
	LVGKD1AC	C-14	2.51E+04 +- 9.5E+02		pCi/sample	100%	3.04E+00	5.00E+01	
FILTER ROOM									
	LVGJP1AC	C-14	1.64E+04 +- 6.2E+02		pCi/sample	100%	2.42E+00	5.00E+01	
LEVEL #1									
	LVGLQ1AC	C-14	5.68E+02 +- 2.2E+01		pCi/sample	100%	1.65E+00	5.00E+01	
LEVEL #1-1									
	LVGLX1AC	C-14	2.85E+01 +- 1.9E+00		pCi/sample	100%	1.65E+00	5.00E+01	
LEVEL #2									
	LVGLV1AC	C-14	2.77E+01 +- 1.9E+00		pCi/sample	100%	1.65E+00	5.00E+01	
LEVEL #2-1									
	LVGL01AC	C-14	2.87E+02 +- 1.2E+01		pCi/sample	100%	1.65E+00	5.00E+01	
LEVEL #3									
	LVGLW1AC	C-14	5.65E+02 +- 2.2E+01		pCi/sample	100%	1.65E+00	5.00E+01	
LEVEL #3-1									
	LVGL11AC	C-14	1.90E+01 +- 1.5E+00		pCi/sample	100%	1.66E+00	5.00E+01	
OPERATIONS GALLERY									
	LVGKK1AC	C-14	1.10E+02 +- 5.0E+00		pCi/sample	100%	1.65E+00	5.00E+01	
OPERATIONS GALLERY-1									
	LVGLA1AC	C-14	3.19E+02 +- 1.3E+01		pCi/sample	100%	1.66E+00	5.00E+01	
PIPE TUNNEL-1									
	LVGKQ1AC	C-14	2.65E+03 +- 1.0E+02		pCi/sample	100%	1.65E+00	5.00E+01	
PIPE TUNNEL-1A									
	LVGLJ1AC	C-14	3.45E+04 +- 1.3E+03		pCi/sample	100%	3.60E+00	5.00E+01	
PIPE TUNNEL-2									
	LVGK11AC	C-14	1.72E+04 +- 6.5E+02		pCi/sample	100%	2.48E+00	5.00E+01	
PIPE TUNNEL-2A									
	LVGLP1AC	C-14	8.45E+02 +- 3.3E+01		pCi/sample	100%	1.65E+00	5.00E+01	
0041187 H3HIGH									
BLOWER ROOM									
	LVGJ11AA	H-3	1.28E+01 +- 2.0E+00		pCi/sample	100%	3.08E+00	4.00E+02	
BLOWER ROOM DUP									
	LVGJ11AD	H-3	1.31E+01 +- 2.0E+00		pCi/sample	100%	3.08E+00	4.00E+02	2.0
DRYER ROOM #1									
	LVGKG1AA	H-3	6.07E+01 +- 3.8E+00		pCi/sample	100%	3.10E+00	4.00E+02	

TestAmerica RPD - Relative Percent Difference.

rptSTLRchSaSum
mary2 V5.2.5
A2002

Sample Results Summary

Date: 24-Feb-10

TestAmerica TARL

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

Report No. : 43238

SDG No: W05809

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
0041187 H3HIGH									
DRYER ROOM #2									
	LVGKD1AA	H-3	1.06E+03 +- 3.1E+01		pCi/sample	100%	3.13E+00	4.00E+02	
FILTER ROOM									
	LVGJP1AA	H-3	5.68E+02 +- 1.8E+01		pCi/sample	100%	3.13E+00	4.00E+02	
LEVEL #1									
	LVGLQ1AA	H-3	3.49E+01 +- 2.9E+00		pCi/sample	100%	3.09E+00	4.00E+02	
LEVEL #1-1									
	LVGLX1AA	H-3	1.03E+01 +- 1.9E+00		pCi/sample	100%	3.12E+00	4.00E+02	
LEVEL #2									
	LVGLV1AA	H-3	1.02E+01 +- 1.9E+00		pCi/sample	100%	3.10E+00	4.00E+02	
LEVEL #2-1									
	LVGL01AA	H-3	1.43E+01 +- 2.0E+00		pCi/sample	100%	3.10E+00	4.00E+02	
LEVEL #3									
	LVGLW1AA	H-3	1.30E+01 +- 2.0E+00		pCi/sample	100%	3.12E+00	4.00E+02	
LEVEL #3-1									
	LVGL11AA	H-3	1.25E+01 +- 2.0E+00		pCi/sample	100%	3.09E+00	4.00E+02	
OPERATIONS GALLERY									
	LVGKK1AA	H-3	1.42E+00 +- 1.4E+00	U	pCi/sample	100%	2.99E+00	4.00E+02	
OPERATIONS GALLERY-1									
	LVGLA1AA	H-3	1.95E+01 +- 2.3E+00		pCi/sample	100%	3.08E+00	4.00E+02	
PIPE TUNNEL-1									
	LVGKQ1AA	H-3	7.95E+01 +- 4.4E+00		pCi/sample	100%	3.10E+00	4.00E+02	
PIPE TUNNEL-1A									
	LVGLJ1AA	H-3	8.78E+02 +- 2.6E+01		pCi/sample	100%	3.14E+00	4.00E+02	
PIPE TUNNEL-2									
	LVGK11AA	H-3	3.05E+02 +- 1.1E+01		pCi/sample	100%	3.09E+00	4.00E+02	
PIPE TUNNEL-2A									
	LVGLP1AA	H-3	6.37E+01 +- 3.9E+00		pCi/sample	100%	3.11E+00	4.00E+02	

No. of Results: 33

TestAmerica

rptSTLRchSaSummary2 V5.2.5
A2002

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

QC Results Summary

Date: 24-Feb-10

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 43238

SDG No.: W05809

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
C14CHEMLSC								
0041185 BLANK QC,								
LVG9W1AA	C-14	4.13E-01 +- 8.0E-01	U	pCi/sample	100%			1.65E+00
0041185 LCS,								
LVG9W1AC	C-14	3.47E+01 +- 2.1E+00		pCi/sample	100%	95%	-0.1	1.66E+00
H3HIGH								
0041187 BLANK QC,								
LVG921AA	H-3	-2.88E-01 +- 1.3E+00	U	pCi/sample	100%			3.07E+00
0041187 LCS,								
LVG921AC	H-3	2.40E+01 +- 2.4E+00		pCi/sample	100%	88%	-0.1	3.06E+00

No. of Results: 4

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

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/6/2010 10:31:00 AM
Lot-Sample No.:	J0B090542-2	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	BLOWER ROOM	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGJ11AC		**Report DB ID:**	9LVGJ110				
C-14	***5.73E+02***		5.4E+00	2.2E+01	1.65E+00	pCi/sample	100%	*(346.6)*	2/11/10 10:02 p	1.0	1.0	LSC3
						7.93E-01	5.00E+01	*(51.2)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGJ11AA		**Report DB ID:**	9LVGJ110				
H-3	***1.28E+01***		1.9E+00	2.0E+00	3.08E+00	pCi/sample	100%	*(4.2)*	2/11/10 11:50 a	1.0	1.0	LSC3
						1.43E+00	4.00E+02	*(13.)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	12/17/2009 1:12:00 PM
Lot-Sample No.:	J0B090542-4	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	DRYER ROOM #1	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGKG1AC		**Report DB ID:**	9LVGKG10				
C-14	***6.69E+03***		1.8E+01	2.5E+02	1.65E+00	pCi/sample	100%	*(4043.2)*	2/11/10 11:00 p	1.0	1.0	LSC3
						7.94E-01	5.00E+01	*(53.1)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGKG1AA		**Report DB ID:**	9LVGKG10				
H-3	***6.07E+01***		3.4E+00	3.8E+00	3.10E+00	pCi/sample	100%	*(19.6)*	2/11/10 01:58 p	1.0	1.0	LSC5
						1.44E+00	4.00E+02	*(32.2)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	**TestAmerica**	**SDG:**	W05809	**Collection Date:**	12/29/2009 9:11:00 AM
Lot-Sample No.:	**J0B090542-3**	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	**DRYER ROOM #2**	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGKD1AC		**Report DB ID:**	9LVGKD10				
C-14	***2.51E+04***		6.3E+01	9.5E+02	3.04E+00	pCi/sample	100%	*(8264.8)*	2/11/10 10:24 p	1.0	1.0	LSC3
						1.41E+00	5.00E+01	*(53.1)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGKD1AA		**Report DB ID:**	9LVGKD10				
H-3	***1.06E+03***		1.3E+01	3.1E+01	3.13E+00	pCi/sample	100%	*(340.1)*	2/11/10 01:15 p	1.0	1.0	LSC3
						1.45E+00	4.00E+02	*(68.4)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/6/2010 10:11:00 AM
Lot-Sample No.:	J0B090542-1	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	FILTER ROOM	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGJP1AC		**Report DB ID:**	9LVGJP10				
C-14	***1.64E+04***		4.1E+01	6.2E+02	2.42E+00	pCi/sample	100%	*(6775.7)*	2/11/10 09:25 p	1.0	1.0	LSC3
						1.14E+00	5.00E+01	*(53.1)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGJP1AA		**Report DB ID:**	9LVGJP10				
H-3	***5.68E+02***		9.7E+00	1.8E+01	3.13E+00	pCi/sample	100%	*(181.6)*	2/11/10 11:08 a	1.0	1.0	LSC3
						1.46E+00	4.00E+02	*(63.4)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	**TestAmerica**	**SDG:**	W05809	**Collection Date:**	1/7/2010 11:04:00 AM
Lot-Sample No.:	**J0B090542-11**	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	**LEVEL #1**	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGLQ1AC		**Report DB ID:**	9LVGLQ10				
C-14	***5.68E+02***		5.3E+00	2.2E+01	1.65E+00	pCi/sample	100%	*(343.2)*	2/12/10 03:49 a	1.0	1.0	LSC3
						7.93E-01	5.00E+01	*(51.2)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGLQ1AA		**Report DB ID:**	9LVGLQ10				
H-3	***3.49E+01***		2.7E+00	2.9E+00	3.09E+00	pCi/sample	100%	*(11.3)*	2/11/10 07:42 p	1.0	1.0	LSC3
						1.44E+00	4.00E+02	*(24.3)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	**TestAmerica**	**SDG:**	W05809	**Collection Date:**	1/7/2010 11:01:00 AM
Lot-Sample No.:	**J0B090542-14**	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	**LEVEL #1-1**	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGLX1AC		**Report DB ID:**	9LVGLX10				
C-14	***2.85E+01***		1.4E+00	1.9E+00	1.65E+00	pCi/sample	100%	*(17.3)*	2/12/10 05:58 a	1.0	1.0	LSC3
						7.93E-01	5.00E+01	*(30.1)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGLX1AA		**Report DB ID:**	9LVGLX10				
H-3	***1.03E+01***		1.8E+00	1.9E+00	3.12E+00	pCi/sample	100%	*(3.3)*	2/11/10 09:49 p	1.0	1.0	LSC3
						1.45E+00	4.00E+02	*(11.)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/7/2010 11:48:00 AM
Lot-Sample No.:	J0B090542-12	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	LEVEL #2	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGLV1AC		**Report DB ID:**	9LVGLV10				
C-14	***2.77E+01***		1.4E+00	1.9E+00	1.65E+00	pCi/sample	100%	*(16.7)*	2/12/10 04:33 a	1.0	1.0	LSC3
						7.94E-01	5.00E+01	*(29.7)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGLV1AA		**Report DB ID:**	9LVGLV10				
H-3	***1.02E+01***		1.8E+00	1.9E+00	3.10E+00	pCi/sample	100%	*(3.3)*	2/11/10 08:24 p	1.0	1.0	LSC3
						1.44E+00	4.00E+02	*(10.9)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/7/2010 11:51:00 AM
Lot-Sample No.:	J0B090542-15	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	LEVEL #2-1	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGL01AC		**Report DB ID:**	9LVGL010				
C-14	***2.87E+02***		3.8E+00	1.2E+01	1.65E+00	pCi/sample	100%	*(173.6)*	2/12/10 06:41 a	1.0	1.0	LSC3
						7.94E-01	5.00E+01	*(49.3)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGL01AA		**Report DB ID:**	9LVGL010				
H-3	***1.43E+01***		2.0E+00	2.0E+00	3.10E+00	pCi/sample	100%	*(4.6)*	2/11/10 10:32 p	1.0	1.0	LSC3
						1.44E+00	4.00E+02	*(14.)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/7/2010 12:31:00 PM
Lot-Sample No.:	J0B090542-13	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	LEVEL #3	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGLW1AC		**Report DB ID:**	9LVGLW10				
C-14	***5.65E+02***		5.3E+00	2.2E+01	1.65E+00	pCi/sample	100%	*(341.7)*	2/12/10 05:15 a	1.0	1.0	LSC3
						7.93E-01	5.00E+01	*(51.2)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGLW1AA		**Report DB ID:**	9LVGLW10				
H-3	***1.30E+01***		1.9E+00	2.0E+00	3.12E+00	pCi/sample	100%	*(4.2)*	2/11/10 09:07 p	1.0	1.0	LSC3
						1.45E+00	4.00E+02	*(13.)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/7/2010 12:34:00 PM
Lot-Sample No.:	J0B090542-16	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	LEVEL #3-1	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGL11AC		**Report DB ID:**	9LVGL110				
C-14	***1.90E+01***		1.2E+00	1.5E+00	1.66E+00	pCi/sample	100%	*(11.5)*	2/12/10 07:23 a	1.0	1.0	LSC3
						7.94E-01	5.00E+01	*(24.8)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGL11AA		**Report DB ID:**	9LVGL110				
H-3	***1.25E+01***		1.9E+00	2.0E+00	3.09E+00	pCi/sample	100%	*(4.1)*	2/11/10 11:15 p	1.0	1.0	LSC3
						1.44E+00	4.00E+02	*(12.8)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/12/2010 10:00:00 AM
Lot-Sample No.:	J0B090542-5	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	OPERATIONS GALLERY	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGKK1AC		**Report DB ID:**	9LVGKK10				
C-14	***1.10E+02***		2.4E+00	5.0E+00	1.65E+00	pCi/sample	100%	*(66.6)*	2/11/10 11:43 p	1.0	1.0	LSC3
						7.94E-01	5.00E+01	*(44.2)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGKK1AA		**Report DB ID:**	9LVGKK10				
H-3	***1.42E+00***	U	1.3E+00	1.4E+00	2.99E+00	pCi/sample	100%	*0.47*	2/11/10 02:41 p	1.0	1.0	LSC3
						1.39E+00	4.00E+02	*(2.1)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/12/2010 10:12:00 AM
Lot-Sample No.:	J0B090542-8	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	OPERATIONS GALLERY-1	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGLA1AC		**Report DB ID:**	9LVGLA10				
C-14	***3.19E+02***		4.0E+00	1.3E+01	1.66E+00	pCi/sample	100%	*(193.)*	2/12/10 01:29 a	1.0	1.0	LSC3
						7.94E-01	5.00E+01	*(49.7)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGLA1AA		**Report DB ID:**	9LVGLA10				
H-3	***1.95E+01***		2.2E+00	2.3E+00	3.08E+00	pCi/sample	100%	*(6.3)*	2/11/10 04:52 p	1.0	1.0	LSC3
						1.43E+00	4.00E+02	*(17.2)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/12/2010 10:26:00 AM
Lot-Sample No.:	J0B090542-6	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	PIPE TUNNEL-1	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGKQ1AC		**Report DB ID:**	9LVGKQ10				
C-14	***2.65E+03***		1.1E+01	1.0E+02	1.65E+00	pCi/sample	100%	*(1601.6)*	2/12/10 12:26 a	1.0	1.0	LSC3
						7.94E-01	5.00E+01	*(52.8)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGKQ1AA		**Report DB ID:**	9LVGKQ10				
H-3	***7.95E+01***		3.8E+00	4.4E+00	3.10E+00	pCi/sample	100%	*(25.7)*	2/11/10 03:26 p	1.0	1.0	LSC3
						1.44E+00	4.00E+02	*(36.4)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/12/2010 10:30:00 AM
Lot-Sample No.:	J0B090542-9	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	PIPE TUNNEL-1A	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGLJ1AC		**Report DB ID:**	9LVGLJ10				
C-14	***3.45E+04***		8.6E+01	1.3E+03	3.60E+00	pCi/sample	100%	*(9574.7)*	2/12/10 01:49 a	1.0	1.0	LSC3
						1.65E+00	5.00E+01	*(53.1)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGLJ1AA		**Report DB ID:**	9LVGLJ10				
H-3	***8.78E+02***		1.2E+01	2.6E+01	3.14E+00	pCi/sample	100%	*(279.6)*	2/11/10 06:17 p	1.0	1.0	LSC3
						1.46E+00	4.00E+02	*(67.1)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/13/2010 10:16:00 AM
Lot-Sample No.:	J0B090542-7	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	PIPE TUNNEL-2	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGK11AC		**Report DB ID:**	9LVGK110				
C-14	***1.72E+04***		4.3E+01	6.5E+02	2.48E+00	pCi/sample	100%	*(6925.7)*	2/12/10 12:53 a	1.0	1.0	LSC3
						1.17E+00	5.00E+01	*(53.1)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGK11AA		**Report DB ID:**	9LVGK110				
H-3	***3.05E+02***		7.1E+00	1.1E+01	3.09E+00	pCi/sample	100%	*(98.5)*	2/11/10 04:09 p	1.0	1.0	LSC3
						1.44E+00	4.00E+02	*(56.6)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM I

SAMPLE RESULTS

Date: 24-Feb-10

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/13/2010 10:38:00 AM
Lot-Sample No.:	J0B090542-10	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	PIPE TUNNEL-2A	**COC No. :**		**Matrix:**	WIPE

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVGLP1AC		**Report DB ID:**	9LVGLP10				
C-14	***8.45E+02***		6.5E+00	3.3E+01	1.65E+00	pCi/sample	100%	*(511.2)*	2/12/10 03:07 a	1.0	1.0	LSC3
						7.93E-01	5.00E+01	*(51.8)*		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVGLP1AA		**Report DB ID:**	9LVGLP10				
H-3	***6.37E+01***		3.4E+00	3.9E+00	3.11E+00	pCi/sample	100%	*(20.5)*	2/11/10 06:59 p	1.0	1.0	LSC3
						1.45E+00	4.00E+02	*(32.9)*		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM II

Date: 24-Feb-10

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	W05809	**Collection Date:**	1/6/2010 10:31:00 AM
Lot-Sample No.:	J0B090542-2	**Report No. :**	43238	**Received Date:**	2/9/2010 11:50:00 AM
Client Sample ID:	BLOWER ROOM DUP	**COC No. :**		**Matrix:**	WIPE

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041187	H3HIGH			**Work Order:** LVGJ11AD		**Report DB ID:** LVGJ11DR			**Orig Sa DB ID:** 9LVGJ110			
H-3	1.31E+01		1.9E+00	2.0E+00	3.08E+00	pCi/sample	100%	(4.3)	2/11/10 12:33 p	1.0	1.0	LSC6
	1.28E+01		**RPD**	**2.0**		4.00E+02		(13.2)		Sample	Sample	

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

FEBRUARY 24, 2010

TestAmerica
rptSTLRchDupV5.2
.5 A2002

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

FORM II

BLANK RESULTS

Date: 24-Feb-10

Lab Name: TestAmerica

Matrix: WIPE

SDG: W05809

Report No. : 43238

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVG9W1AA	**Report DB ID:**	LVG9W1AB					
C-14	4.13E-01	U	7.0E-01	8.0E-01	1.65E+00	pCi/sample	100%	0.25	2/11/10 08:15 p	1.0	1.0	LSC3
					7.94E-01	5.00E+01		(1.)		Sample	Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVG921AA	**Report DB ID:**	LVG921AB					
H-3	-2.88E-01	U	1.2E+00	1.3E+00	3.07E+00	pCi/sample	100%	-0.09	2/11/10 09:43 a	1.0	1.0	LSC6
					1.43E+00	4.00E+02		-0.45		Sample	Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

FORM II

LCS RESULTS

Date: 24-Feb-10

Lab Name: TestAmerica

Matrix: WIPE

SDG: W05809

Report No. : 43238

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 0041185	C14CHEMLSC			**Work Order:**	LVG9W1AC		**Report DB ID:**	LVG9W1CS					
C-14	3.47E+01		1.5E+00	2.1E+00	1.66E+00	pCi/sample	100%	3.66E+01	6.0E-01	95%	2/11/10 08:57 p	1.0	LSC3
							Rec Limits:	70	130	-0.1		Sample	
Batch: 0041187	H3HIGH			**Work Order:**	LVG921AC		**Report DB ID:**	LVG921CS					
H-3	2.40E+01		2.3E+00	2.4E+00	3.06E+00	pCi/sample	100%	2.72E+01	8.2E-01	88%	2/11/10 10:25 a	1.0	LSC6
							Rec Limits:	70	130	-0.1		Sample	

No. of Results: 2 **Comments:**

FEBRUARY 24, 2010

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

rptSTLRchLcs
V5.2.5 A2002

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

FEBRUARY 24, 2010

RADIOCHEMISTRY, First Level Review

2/12/2010 2:02:05 PM

Lot No., Due Date: J0B090542; 02/12/2010

Client, Site: 108302; FLUOR- SOILS Hanford Site

QC Batch No., Method Test: 0041187; RTRITIUM H-3 by LSC

SDG, Matrix: W05809; SMEARS

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 Review John Norton **Date** 2-12-10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

FEBRUARY 24, 2010

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0041187

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: Erika Ford Date: 2/24/10

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

FEBRUARY 24, 2010

RADIOCHEMISTRY, First Level Review

2/12/2010 1:59:06 PM

Lot No., Due Date: J0B090542; 02/12/2010

Client, Site: 108302; FLUOR- SOILS Hanford Site

QC Batch No., Method Test: 0041185; RC14 C-14 by LSC

SDG, Matrix: W05809; SMEARS

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:

No sample for duplication.

First Level Review John Horton **Date** 2-12-10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

FEBRUARY 24, 2010

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 0041185

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?		√	√ ej 2/24/10
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: Insufficient volume for sample duplicate

Second Level Review: Erika Jordan Date: 2/24/10

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

JOB090542 WQ5809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Steve Richardson	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-09-007(DRY~~		WI	12/17/09	1310	1 / Plan chat	GEA and C14	N/A
K-09-007(WET	✓	WI	12/17/09	1312	1 / Glass Vial	H3	N/A
~~K-09-008(DRY~~		WI	12/17/09	1314	1 / Plan chat	GEA and C14	N/A
K-09-008(WET	✓	WI	12/17/09	1315	1 / Glass Vial	H3	N/A
~~K-09-009(DRY~~		WI	12/17/09	1317	1 / Plan chat	GEA and C14	N/A
K-09-009(WET	✓	WI	12/17/09	1319	1 / Glass Vial	H3	N/A
~~K-09-010(DRY~~		WI	12/17/09	1325	1 / Plan chat	GEA and C14	N/A
K-09-010(WET	✓	WI	12/17/09	1327	1 / Glass Vial	H3	N/A
~~K-09-011(DRY~~		WI	12/17/09	1330	1 / Plan chat	GEA and C14	N/A
K-09-011(WET	✓	WI	12/17/09	1332	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Soldelhslt	KARL D	[signature]	12-28-09 1440	Victor Bi		[signature]	12/28/09 1440
[signature]			2/9/10 1100	Gerald Hughes		[signature]	2/9/10 1100
Gerald Hughes		[signature]	2-9-10 1150	[signature]		[signature]	2-9-10 1150
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

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

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

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB090542 W05809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Page 1 of 2

Collector: Steve Richardson	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-09-012(DRY~~		~~WI~~	~~12/29/09~~	~~0910~~	~~1 / Plan chat~~	GEA and C14	N/A
K-09-012(WET	✓	WI	12/29/09	0911	1 / Glass Vial	H3	N/A
~~K-09-013(DRY~~		~~WI~~	~~12/29/09~~	~~0914~~	~~1 / Plan chat~~	GEA and C14	N/A
K-09-013(WET	✓	WI	12/29/09	0915	1 / Glass Vial	H3	N/A
~~K-09-014(DRY~~		WI	12/29/09	0916	1 / Plan chat	GEA and C14	N/A
K-09-014(WET	✓	WI	12/29/09	0918	1 / Glass Vial	H3	N/A
~~K-09-015(DRY~~		WI	12/29/09	0922	1 / Plan chat	GEA and C14	N/A
K-09-015(WET	✓	WI	12/29/09	0924	1 / Glass Vial	H3	N/A
~~K-09-016(DRY~~		WI	12/29/09	0926	1 / Plan chat	GEA and C14	N/A
K-09-016(WET	✓	WI	12/29/09	0928	1 / Glass Vial	H3	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Sod [illegible]	[illegible]	[illegible]	12/29/09 1430	[illegible]	[illegible]	12/29/09	1430
[illegible]	[illegible]	2/9/10	~~1300~~ 2/9/10 1100	Gerald Hughes	[illegible]	2/9/10	1100
Gerald Hughes	[illegible]	2-9-10	1150	[illegible]	[illegible]	2.9.10	1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

FEBRUARY 24, 2010

JOB090542 SDG W05809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Page 1 of 3

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-001(DRY~~	✓	WI	01/06/10	1010	1 / Plan chat	GEA and C14	N/A
K-10-001(WET	✓	WI	01/06/10	1011	1 / Glass Vial	H3	N/A
~~K-10-002(DRY~~		WI	01/06/10	1014	1 / Plan chat	GEA and C14	N/A
K-10-002(WET	✓	WI	01/06/10	1015	1 / Glass Vial	H3	N/A
~~K-10-003(DRY~~		WI	01/06/10	1016	1 / Plan chat	GEA and C14	N/A
K-10-003(WET	✓	WI	01/06/10	1018	1 / Glass Vial	H3	N/A
~~K-10-004(DRY~~		WI	01/06/10	1022	1 / Plan chat	GEA and C14	N/A
K-10-004(WET	✓	WI	01/06/10	1024	1 / Glass Vial	H3	N/A
~~K-10-005(DRY~~		WI	01/06/10	1026	1 / Plan chat	GEA and C14	N/A
K-10-005(WET	✓	WI	01/06/10	1028	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

Leland Brown / Leland Brown 01-11-10 0835 KBS 1-11-10

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Karl B Soleiholtz		KB	01/11/10 0915	Victor			1/11/10 0915
KB			2/9/10 1300 KBS 1160	Gerald Hughes			2/9/10 1100
Gerald Hughes			2-9-10 1150	Angel			2-9-10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB090542 W65809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-006(DRY~~		WI	01/06/10	1030	1 / Plan chat	GEA and C14	N/A
K-10-006(WET	✓	WI	01/06/10	1031	1 / Glass Vial	H3	N/A
~~K-10-007(DRY~~		WI	01/06/10	1034	1 / Plan chat	GEA and C14	N/A
K-10-007(WET	✓	WI	01/06/10	1035	1 / Glass Vial	H3	N/A
~~K-10-008(DRY~~		WI	01/06/10	1036	1 / Plan chat	GEA and C14	N/A
K-10-008(WET	✓	WI	01/06/10	1038	1 / Glass Vial	H3	N/A
~~K-10-009(DRY~~		WI	01/06/10	1042	1 / Plan chat	GEA and C14	N/A
K-10-009(WET	✓	WI	01/06/10	1044	1 / Glass Vial	H3	N/A
~~K-10-010(DRY~~		WI	01/06/10	1046	1 / Plan chat	GEA and C14	N/A
K-10-010(WET	✓	WI	01/06/10	1048	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leland Brown / Leland Brown	01-11-10 0935	RB 1-11-10	
K.C. Sabatch Jr	01/11/10 0915	Victor Bimbo	1/11/10 0915
Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
[illegible]	2/9/10 1100	Gerald Hughes	2/9/10 1100
Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Gerald Hughes	2-9-10 1100	[illegible]	2-9-10 1158
Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB090542 W05809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Page 3 of 3

Collector Leland Brown	Contact/Requestor Mary Ann Green	Telephone No. 373-1463 MSIN T1-41 FAX N/A
SAF No.	Sample Origin 100K Area D&D / 115KE	Purchase Order/Charge Code 400858
Project Title 100-K Charicterization	Logbook No. N/A	Ice Chest No. N/A Temp. N/A
Shipped To (Lab) WSCF	Method of Shipment Hand carry via RCT	Bill of Lading/Air Bill No. N/A
Protocol Per labratory procedures	Data Turnaround 14 days	Offsite Property No. N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-011 (DRY~~		WI	01/06/10	1050	1 / Glass Vial	GEA and C14	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

Leland Brown / Leland Brown 01-11-10 0835 KBS 1-11-10

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
R.N. Soderlund / KB [signature]	01/11/10 0915	Victor Bim [signature]	1/11/10 0915
[signature]	2/9/10 ~~1300~~ 1100	Gerald Hughes [signature]	2/9/10 1100
Gerald Hughes [signature]	2-9-10 1150	[signature] TALK ANGED	2-9-10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB 090542 W05809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Page 1 of 6

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-012(DRY~~		WI	01/07/10	1100	1 / Plan Chat	GEA and C14	N/A
K-10-012(WET	✓	WI	01/07/10	1101	1 / Glass Vial	H3	N/A
~~K-10-013(DRY~~		WI	01/07/10	1103	1 / Plan Chat	GEA and C14	N/A
K-10-013(WET	✓	WI	01/07/10	1104	1 / Glass Vial	H3	N/A
~~K-10-014(DRY~~		WI	01/07/10	1108	1 / Plan Chat	GEA and C14	N/A
K-10-014(WET	✓	WI	01/07/10	1109	1 / Glass Vial	H3	N/A
~~K-10-015(DRY~~		WI	01/07/10	1115	1 / Plan Chat	GEA and C14	N/A
K-10-015(WET	✓	WI	01/07/10	1116	1 / Glass Vial	H3	N/A
~~K-10-016(DRY~~		WI	01/07/10	1118	1 / Plan Chat	GEA and C14	N/A
K-10-016(WET	✓	WI	01/07/10	1119	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

~~Leland Brown / Leland Brown 01-11-10 0835~~ KBS 1-11-10

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
K B Sodorlik / [signature]	01/11/10 0915	Victor [signature]	1/11/10 0915
[signature]	2/9/10 1700	Gerald Hughes [signature]	2/9/10 1100
Gerald Hughes [signature]	2-9-10 1150	[signature] TALR	2-9-10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB 090542 WQS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-017(DRY~~		WI	01/07/10	1122	1 / Plan Chat	GEA and C14	N/A
K-10-017(WET	√	WI	01/07/10	1123	1 / Glass Vial	H3	N/A
~~K-10-018(DRY~~		WI	01/07/10	1125	1 / Plan Chat	GEA and C14	N/A
K-10-018(WET	√	WI	01/07/10	1126	1 / Glass Vial	H3	N/A
~~K-10-019(DRY~~		WI	01/07/10	1128	1 / Plan Chat	GEA and C14	N/A
K-10-019(WET	√	WI	01/07/10	1129	1 / Glass Vial	H3	N/A
~~K-10-020(DRY~~		WI	01/07/10	1130	1 / Plan Chat	GEA and C14	N/A
K-10-020(WET	√	WI	01/07/10	1131	1 / Glass Vial	H3	N/A
~~K-10-021(DRY~~		WI	01/07/10	1132	1 / Plan Chat	GEA and C14	N/A
K-10-021(WET	√	WI	01/07/10	1133	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

~~Leland Brown / Leland Brown 9-11-10 0835~~ KB 1-11-10

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
[signature]	KB	[signature]	2/11/10 0915	Victor	[signature]	[signature]	1/11/10 0915
[signature]			2/9/10 1100	Gerald Hughes	[signature]		2/9/10 1100
Gerald Hughes	[signature]		2-9-10 1150	[signature]	TAK	Ancel	2-9-10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB090542 W45809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-022(DRY~~		WI	01/07/10	1135	1 / Plan Chat	GEA and C14	N/A
K-10-022(WET	✓	WI	01/07/10	1136	1 / Glass Vial	H3	N/A
~~K-10-023(DRY~~		WI	01/07/10	1138	1 / Plan Chat	GEA and C14	N/A
K-10-023(WET	✓	WI	01/07/10	1139	1 / Glass Vial	H3	N/A
~~K-10-024(DRY~~		WI	01/07/10	1141	1 / Plan Chat	GEA and C14	N/A
K-10-024(WET	✓	WI	01/07/10	1142	1 / Glass Vial	H3	N/A
~~K-10-025(DRY~~		WI	01/07/10	1144	1 / Plan Chat	GEA and C14	N/A
K-10-025(WET	✓	WI	01/07/10	1145	1 / Glass Vial	H3	N/A
~~K-10-026(DRY~~		WI	01/07/10	1147	1 / Plan Chat	GEA and C14	N/A
K-10-026(WET	✓	WI	01/07/10	1148	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

~~Leland Brown / Leland Brown 01-11-10 0835~~ KBS 1-11-10

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
KB Safesh KB [signature]	01/11/10 0915	Victor [signature]	1/11/10 0915
[signature]	2/9/10 1100	Gerald Hughes [signature]	2/9/10 1100
Gerald Hughes [signature]	2-9-10 1150	[signature]	2-9-10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB 090542 WO5809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-027(DRY~~		WI	01/07/10	1150	1 / Plan Chat	GEA and C14	N/A
K-10-027(WET	✓	WI	01/07/10	1151	1 / Glass Vial	H3	N/A
~~K-10-028(DRY~~		WI	01/07/10	1153	1 / Plan Chat	GEA and C14	N/A
K-10-028(WET	✓	WI	01/07/10	1154	1 / Glass Vial	H3	N/A
~~K-10-029(DRY~~		WI	01/07/10	1156	1 / Plan Chat	GEA and C14	N/A
K-10-029(WET	✓	WI	01/07/10	1157	1 / Glass Vial	H3	N/A
~~K-10-030(DRY~~		WI	01/07/10	1159	1 / Plan Chat	GEA and C14	N/A
K-10-030(WET	✓	WI	01/07/10	1200	1 / Glass Vial	H3	N/A
~~K-10-031(DRY~~		WI	01/07/10	1202	1 / Plan Chat	GEA and C14	N/A
K-10-031(WET	✓	WI	01/07/10	1203	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

~~Leland Brown / Leland Brown 01-11-10 / 0835~~ KBS 1-11-10

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
KB Sudeth / [signature]	01/11/10 0915	Victor [signature]	1/11/10 0915
[signature]	2/9/10 ~~1100~~ 1100	Gerald Hughes [signature]	2/9/10 1100
Gerald Hughes [signature]	2-9-10 1150	[signature]	2-9-10 1150

Matrix*

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

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

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB U90542 W45809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-032(DRY~~		WI	01/07/10	1205	1 / Plan Chat	GEA and C14	N/A
K-10-032(WET	✓	WI	01/07/10	1206	1 / Glass Vial	H3	N/A
~~K-10-033(DRY~~		WI	01/07/10	1208	1 / Plan Chat	GEA and C14	N/A
K-10-033(WET	✓	WI	01/07/10	1209	1 / Glass Vial	H3	N/A
~~K-10-034(DRY~~		WI	01/07/10	1211	1 / Plan Chat	GEA and C14	N/A
K-10-034(WET	✓	WI	01/07/10	1212	1 / Glass Vial	H3	N/A
~~K-10-035(DRY~~		WI	01/07/10	1214	1 / Plan Chat	GEA and C14	N/A
K-10-035(WET	✓	WI	01/07/10	1215	1 / Glass Vial	H3	N/A
~~K-10-036(DRY~~		WI	01/07/10	1217	1 / Plan Chat	GEA and C14	N/A
K-10-036(WET	✓	WI	01/07/10	1218	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

~~Leland Brown / Leland Brown 01-11-10/0835~~ KBS 1-11-10

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KB Sorlett	[signature]	[signature]	01/11/10 0915	Victor	[signature]	[signature]	1/11/10 0915
[signature]	[signature]	[signature]	2/9/10 1100	Gerald Hughes	[signature]	[signature]	2/9/10 1100
Gerald Hughes	[signature]	[signature]	2/9/10 1150	[signature]	[signature]	TALK [signature]	2.9.10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB 090542 WPS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-037(DRY~~		WI	01/07/10	1220	1 / Plan Chat	GEA and C14	N/A
K-10-037(WET	✓	WI	01/07/10	1221	1 / Glass Vial	H3	N/A
~~K-10-038(DRY~~		WI	01/07/10	1224	1 / Plan Chat	GEA and C14	N/A
K-10-038(WET	✓	WI	01/07/10	1225	1 / Glass Vial	H3	N/A
~~K-10-039(DRY~~		WI	01/07/10	1227	1 / Plan Chat	GEA and C14	N/A
K-10-039(WET	✓	WI	01/07/10	1228	1 / Glass Vial	H3	N/A
~~K-10-040(DRY~~		WI	01/07/10	1230	1 / Plan Chat	GEA and C14	N/A
K-10-040(WET	✓	WI	01/07/10	1231	1 / Glass Vial	H3	N/A
~~K-10-041(DRY~~		WI	01/07/10	1233	1 / Plan Chat	GEA and C14	N/A
K-10-041(WET	✓	WI	01/07/10	1234	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

~~Leland Brown / Leland Brown 01-11-10/0835~~ RKB 1-11-10

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
KD Sodelk / KD	01/11/10 0915	Victor Bim /	1/11/10 0915
[illegible]	2/9/10 ~~1300~~ 1100	Gerald Hughes /	2/9/10 1100
Gerald Hughes /	2-9-10 1150	Anne DeLaui TRR / ANDR	2-9-10 1150
Relinquished By	Date/Time	Received By	Date/Time

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB090542 W05809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Page 1 of 5

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-043(DRY~~		WI	01/12/10	1000	1 / Plan Chat	GEA and C14	N/A
K-10-043(WET	✓	WI	01/12/10	1000	1 / Glass Vial	H3	N/A
~~K-10-044(DRY~~		WI	01/12/10	1002	1 / Plan Chat	GEA and C14	N/A
K-10-044(WET	✓	WI	01/12/10	1002	1 / Glass Vial	H3	N/A
~~K-10-045(DRY~~		WI	01/12/10	1004	1 / Plan Chat	GEA and C14	N/A
K-10-045(WET	✓	WI	01/12/10	1004	1 / Glass Vial	H3	N/A
~~K-10-046(DRY~~		WI	01/12/10	1006	1 / Plan Chat	GEA and C14	N/A
K-10-046(WET	✓	WI	01/12/10	1006	1 / Glass Vial	H3	N/A
~~K-10-047(DRY~~		WI	01/12/10	1008	1 / Plan Chat	GEA and C14	N/A
K-10-047(WET	✓	WI	01/12/10	1008	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Karl B Sodenholtz		[signature]	1-13-10 1000	[signature]		[signature]	1/13/10 1000
MD Kessler	MD Kessler	2-9-10	1100	[signature]	Gerald Hughes	2/9/10	11:00A
Gerald Hughes	[signature]	5-9-10	1150	[signature]	TAR	2.9.10	1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

48 of 72

JOB090542 WQS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-048 (DRY~~		WI	01/12/10	1010	1 / Plan Chat	GEA and C14	N/A
K-10-048 (WET	✓	WI	01/12/10	1010	1 / Glass Vial	H3	N/A
~~K-10-049 (DRY~~		WI	01/12/10	1012	1 / Plan Chat	GEA and C14	N/A
K-10-049 (WET	✓-2	WI	01/12/10	1012	1 / Glass Vial	H3	N/A
~~K-10-050 (DRY~~		WI	01/12/10	1014	1 / Plan Chat	GEA and C14	N/A
K-10-050 (WET	✓	WI	01/12/10	1014	1 / Glass Vial	H3	N/A
~~K-10-051 (DRY~~		WI	01/12/10	1016	1 / Plan Chat	GEA and C14	N/A
K-10-051 (WET	✓	WI	01/12/10	1016	1 / Glass Vial	H3	N/A
~~K-10-052 (DRY~~		WI	01/12/10	1018	1 / Plan Chat	GEA and C14	N/A
K-10-052 (WET	✓	WI	01/12/10	1018	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
KB Sadler / KB Sadler	1-13-10 1000	[illegible] / [illegible]	1/13/10 1000
MD Kessler / MD Kessler	2-9-10 1100	Gerald Hughes / [illegible]	2/9/10 1100
Gerald Hughes / [illegible]	2-9-10 1150	TMR / [illegible]	2-9-10 1150
Relinquished By	Date/Time	Received By	Date/Time

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB 090542 WDS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-053(DRY~~		WI	01/12/10	1020	1 / Plan Chat	GEA and C14	N/A
K-10-053(WET	✓	WI	01/12/10	1020	1 / Glass Vial	H3	N/A
~~K-10-054(DRY~~		WI	01/12/10	1022	1 / Plan Chat	GEA and C14	N/A
K-10-054(WET	✓	WI	01/12/10	1022	1 / Glass Vial	H3	N/A
~~K-10-055(DRY~~		WI	01/12/10	1024	1 / Plan Chat	GEA and C14	N/A
K-10-055(WET	✓	WI	01/12/10	1024	1 / Glass Vial	H3	N/A
~~K-10-056(DRY~~		WI	01/12/10	1026	1 / Plan Chat	GEA and C14	N/A
K-10-056(WET	✓	WI	01/12/10	1026	1 / Glass Vial	H3	N/A
~~K-10-057(DRY~~		WI	01/12/10	1028	1 / Plan Chat	GEA and C14	N/A
K-10-057(WET	✓	WI	01/12/10	1028	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
K.B. Soderholm	1-13-10 1000		1/13/10 1000
M.D. Kessler	2-9-10 1100	Gerald Hughes	2/9/10 1100
Gerald Hughes	2-9-10 1150	MAR ANGEL GARCIA	2.9.10 1150

Matrix*

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

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

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

50 of 72

JOB 090542 WQS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-058(DRY~~		WI	01/12/10	1030	1 / Plan Chat	GEA and C14	N/A
K-10-058(WET	✓	WI	01/12/10	1030	1 / Glass Vial	H3	N/A
~~K-10-059(DRY~~		WI	01/12/10	1032	1 / Plan Chat	GEA and C14	N/A
K-10-059(WET	✓	WI	01/12/10	1032	1 / Glass Vial	H3	N/A
~~K-10-060(DRY~~		WI	01/12/10	1034	1 / Plan Chat	GEA and C14	N/A
K-10-060(WET	✓	WI	01/12/10	1034	1 / Glass Vial	H3	N/A
~~K-10-061(DRY~~		WI	01/12/10	1036	1 / Plan Chat	GEA and C14	N/A
K-10-061(WET	✓	WI	01/12/10	1036	1 / Glass Vial	H3	N/A
~~K-10-062(DRY~~		WI	01/12/10	1038	1 / Plan Chat	GEA and C14	N/A
K-10-062(WET	✓	WI	01/12/10	1038	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.B. Soderholm	K.B. Soderholm	[signature]	1-13-10 1000	[signature]	K.B. Soderholm	[signature]	1/13/10 1000
MD Kessler	MD Kessler	[signature]	2-9-10 1100	[signature]	Gerald Hughes	[signature]	2/9/10 1100
Gerald Hughes	Gerald Hughes	[signature]	29-10 1150	[signature]	Thomas Anderson	[signature]	2.9.10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

51 of 72

J09090542 W45809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Page 5 of 5

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-063(DRY~~	.	WI	01/12/10	1040	1 / Plan Chat	GEA and C14	N/A
K-10-063(WET	✓	WI	01/12/10	1040	1 / Glass Vial	H3	N/A
~~K-10-064(DRY~~	.	WI	01/12/10	1042	1 / Plan Chat	GEA and C14	N/A
K-10-064(WET	✓	WI	01/12/10	1042	1 / Glass Vial	H3	N/A
~~K-10-065(DRY~~	.	WI	01/12/10	1044	1 / Plan Chat	GEA and C14	N/A
K-10-065(WET	✓	WI	01/12/10	1044	1 / Glass Vial	H3	N/A
~~K-10-066(DRY~~	.	WI	01/12/10	1046	1 / Plan Chat	GEA and C14	N/A
K-10-066(WET	✓	WI	01/12/10	1046	1 / Glass Vial	H3	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A
N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KD Sorlen	KD Sorlen	[signature]	1-13-10 1000	[signature]	[signature]	[signature]	1/13/10 1000
MD Kessler	MD Kessler	[signature]	2-9-10 1100	[signature]	Gerald Hughes	[signature]	2/9/10 1100
Gerald Hughes	Gerald Hughes	[signature]	2-9-10 1150	[signature]	Angel TAUR	[signature]	2-9-10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JOB 090542 WQS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Page 1 of 4

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-067(DRY~~	(	WI	01/13/10	1006	1 / Plan Chat	GEA and C14	N/A
K-10-067(WET	✓	WI	01/13/10	1006	1 / Glass Vial	H3	N/A
~~K-10-068(DRY~~	(	WI	01/13/10	1008	1 / Plan Chat	GEA and C14	N/A
K-10-068(WET	✓	WI	01/13/10	1008	1 / Glass Vial	H3	N/A
~~K-10-069(DRY~~	(	WI	01/13/10	1010	1 / Plan Chat	GEA and C14	N/A
K-10-069(WET	✓	WI	01/13/10	1010	1 / Glass Vial	H3	N/A
~~K-10-070(DRY~~	(	WI	01/13/10	1012	1 / Plan Chat	GEA and C14	N/A
K-10-070(WET	✓	WI	01/13/10	1012	1 / Glass Vial	H3	N/A
~~K-10-071(DRY~~	(	WI	01/13/10	1014	1 / Plan Chat	GEA and C14	N/A
K-10-071(WET	✓	WI	01/13/10	1014	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leland Brown / [signature]	1-18-10 0915	Victor [signature]	1/18/10 0915
MD Kessler [signature]	2-9-10 1100	[signature] Gerald Hughes	2/9/10 1100
Gerald Hughes [signature]	2-9-10 1150	[signature] TALK ANGEL	2.9.10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

JDB090542 WG5809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-072 (DRY~~	✓	WI	01/13/10	1016	1 / Plan Chat	GEA and C14	N/A
K-10-072 (WET	✓	WI	01/13/10	1016	1 / Glass Vial	H3	N/A
~~K-10-073 (DRY~~	✓	WI	01/13/10	1018	1 / Plan Chat	GEA and C14	N/A
K-10-073 (WET	✓	WI	01/13/10	1018	1 / Glass Vial	H3	N/A
~~K-10-074 (DRY~~	✓	WI	01/13/10	1020	1 / Plan Chat	GEA and C14	N/A
K-10-074 (WET	✓	WI	01/13/10	1020	1 / Glass Vial	H3	N/A
~~K-10-075 (DRY~~	✓	WI	01/13/10	1022	1 / Plan Chat	GEA and C14	N/A
K-10-075 (WET	✓	WI	01/13/10	1022	1 / Glass Vial	H3	N/A
~~K-10-076 (DRY~~	✓	WI	01/13/10	1024	1 / Plan Chat	GEA and C14	N/A
K-10-076 (WET	✓	WI	01/13/10	1024	1 / Glass Vial	H3	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leland Brown / Leland Brown	1-18-10 0915	Victor Bins	1/18/10 0915
MD Kessler / MD Kessler	2-9-10 1100	Gerald Hughes / Gerald Hughes	2/9/10 1100
Gerald Hughes / Gerald Hughes	2-9-10 1150	[illegible]	2-9-10 1150

Matrix*

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

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

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

FEBRUARY 24, 2010

JOB090542 WOS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-077(DRY~~		WI	01/13/10	1026	1 / Plan Chat	GEA and C14	N/A
K-10-077(WET	✓	WI	01/13/10	1026	1 / Glass Vial	H3	N/A
~~K-10-078(DRY~~		WI	01/13/10	1028	1 / Plan Chat	GEA and C14	N/A
K-10-078(WET	✓	WI	01/13/10	1028	1 / Glass Vial	H3	N/A
~~K-10-079(DRY~~		WI	01/13/10	1030	1 / Plan Chat	GEA and C14	N/A
K-10-079(WET	✓	WI	01/13/10	1030	1 / Glass Vial	H3	N/A
~~K-10-080(DRY~~		WI	01/13/10	1032	1 / Plan Chat	GEA and C14	N/A
K-10-080(WET	✓	WI	01/13/10	1032	1 / Glass Vial	H3	N/A
~~K-10-081(DRY~~		WI	01/13/10	1034	1 / Plan Chat	GEA and C14	N/A
K-10-081(WET	✓	WI	01/13/10	1034	1 / Glass Vial	H3	N/A

FEBRUARY 24, 2010

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leland Brown / Leland Brown	1-18-10 0915	V. Ltr [signature]	1/18/10 0915
MD Kessler MD Kessler	2-9-10 1100	[signature] Gerald Hughes	2/9/10 1100
Gerald Hughes [signature]	2/9/10 1150	[signature] TPLR Angel Garcia	2.9.10 1150

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

55 of 72

JDB090542 WCS809

CHPRC CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 121609-115KE

Collector: Leland Brown	Contact/Requestor: Mary Ann Green	Telephone No.: 373-1463 MSIN: T1-41 FAX: N/A
SAF No.	Sample Origin: 100K Area D&D / 115KE	Purchase Order/Charge Code: 400858
Project Title: 100-K Charicterization	Logbook No.: N/A	Ice Chest No.: N/A Temp.: N/A
Shipped To (Lab): WSCF	Method of Shipment: Hand carry via RCT	Bill of Lading/Air Bill No.: N/A
Protocol: Per labratory procedures	Data Turnaround: 14 days	Offsite Property No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
~~K-10-082 (DRY~~	✓	WI	01/13/10	1038	1 / Plan Chat	GEA and C14	N/A
K-10-082 (WET	✓	WI	01/13/10	1038	1 / Glass Vial	H3	N/A
~~K-10-083 (DRY~~	✓	WI	01/13/10	1042	1 / Plan Chat	GEA and C14	N/A
K-10-083 (WET	✓	WI	01/13/10	1042	1 / Glass Vial	H3	N/A
~~K-10-084 (DRY~~	✓	WI	01/13/10	1050	1 / Plan Chat	GEA and C14	N/A
K-10-084 (WET	✓	WI	01/13/10	1050	1 / Glass Vial	H3	N/A
~~K-10-085 (DRY~~	✓	WI	01/13/10	1056	1 / Plan Chat	GEA and C14	N/A
K-10-085 (WET	✓	WI	01/13/10	1056	1 / Glass Vial	H3	N/A
N/A		NA	N/A	N/A	N/A	N/A	N/A
N/A		NA	N/A	N/A	N/A	N/A	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

Low Low level radiological contamination (MFP, MAP, C14, H3); may not be detectable with standard hand-held radiological survey meters.

SPECIAL INSTRUCTIONS

Contact John Trechter or Andy Rice with questions.

Hold Time: None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Leland Brown / Leland Brown	1-8-10 0915	Victor Bingham	1/18/10 0915
MD Kessler MD Kessler	2-9-10 1100	Gerald Hughes	2/9/10 1100
Gerald Hughes	2-9-10 1150	TMR	2-9-10 1150AM
Relinquished By	Date/Time	Received By	Date/Time

Matrix*

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

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): Per lab procedure.

Disposed By

Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6004-842 (REV 0)

FEBRUARY 24, 2010

RADIOACTIVE SHIPMENT RECORD

FEBRUARY 24, 2010

3. Page 1 of 1 | 4. Ship Prepaid | 5. Via Motor

1. SHIP FROM U.S. DEPT. OF ENERGY C/O
Company CHPRC
Address K Basin
City, State, Zip Hanford
Contact Mary Ann Green
Phone (509) 480-1567

2. SHIP TO ☐ U.S. DEPT. OF ENERGY C/O
Company TestAmerica
Address 2800 G.Way
City, State, Zip Richland Wash 99352
Attention Sample receiving
Phone 509 375-3131

6. SHIPMENT AUTHORIZATION NUMBER N/A

7. EMERGENCY RESPONSE
Telephone 373-3800
Emergency Response Guide(s) N/A

HM 8. Proper Shipping Name: Material Not Regulated By DOT- Not Releasable By DOE
PRI HAZ N/A | SUB HAZ | UN ID N/A

9. No. Pkg.	Model Package	COC/Spec	Serial No.	Seal No.	Isotopes	C.S.I.	T.I.	Bq/Package	Gr. Wt. Kg.
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5

10. Identify for Normal Form Only
Physical Form Solid
Chemical Form Elemental

11. ☐ Highway Route Controlled Quantity
☐ Exclusive Use Shipment with instructions
☐ Placards Applied N/A
☐ Fissile Excepted, Grams N/A
☐ UN ID Marking N/A

12. **LABELS APPLIED** N/A
13. **ADDITIONAL LABELS / MARKINGS** N/A

~~HM 8. Proper Shipping Name:~~ PRI HAZ | SUB HAZ | UN ID

9. No. Pkg.	Model Package	COC/Spec	Serial No.	Seal No.	Isotopes	C.S.I.	T.I.	Bq/Package	Gr. Wt. Kg.

~~10. Identify for Normal Form Only~~
Physical Form
Chemical Form

~~11.~~ ☐ Highway Route Controlled Quantity
☐ Exclusive Use Shipment with instructions
☐ Placards Applied
☐ Fissile Excepted, Grams
☐ UN ID Marking

~~12. LABELS APPLIED~~
~~13. ADDITIONAL LABELS / MARKINGS~~

~~HM 8. Proper Shipping Name:~~ PRI HAZ | SUB HAZ | UN ID

9. No. Pkg.	Model Package	COC/Spec	Serial No.	Seal No.	Isotopes	C.S.I.	T.I.	Bq/Package	Gr. Wt. Kg.

~~10. Identify for Normal Form Only~~
Physical Form
Chemical Form

~~11.~~ ☐ Highway Route Controlled Quantity
☐ Exclusive Use Shipment with instructions
☐ Placards Applied
☐ Fissile Excepted, Grams
☐ UN ID Marking

~~12. LABELS APPLIED~~
~~13. ADDITIONAL LABELS / MARKINGS~~

14. Shipment DE-Ci: N/A

Shipment Totals	C.S.I.	T.I.	Bq/Package	Gr. Wt. Kg.

15. Surface Dose Rate of Package
* ☒ <0.005 or _____ mSv/hr
<0.5 or _____ mrem/hr (N+ß γ)

Dose Rate @ 1 Meter from Surface of Package
☒ <0.005 or _____ mSv/hr
<0.5 or _____ mrem/hr (N+ß γ)

Smears of Outer Container
☒ <4.0 Bq (220 dpm) ß γ /cm²
☒ <0.4 Bq (22 dpm) α /cm²
☒ <Tbl. 2-2 HNF-5173 Limits

TRUCK LOAD OR EXCLUSIVE USE
Surface ☒ <2 mSv/hr (200 mrem/hr)
@ 2 meters ☒ <0.1 mSv/hr (10 mrem/hr)
@ Cab or sleeper ☒ <0.02 mSv/hr (2 mrem/hr) (Using N+ß γ)

Additional Data and Instructions (inc. Readings on Internal Packaging)

Bldg. 6266 | Survey No. WS-10-0167 | Date 2/9/2010

16. TRANSPORTER
Vehicle Number G43-3580F
DRIVER SIGNATURE [signature] PRINT NAME Gerald Hughes

17. RECEIVER
RECEIVER SIGNATURE [signature] PRINT NAME [signature] Date 2-9-10 1150 AM

18. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Certifier's Signature [signature] Print Name John Hasser On behalf of DOE-RL Date 1-9-10 Organization CS6

19. AUTHORIZATION FOR SHIPMENT
AIR TRANSPORT CERTIFICATION ☐ N/A
CARGO AIRCRAFT ☐ Cargo Aircraft Only Labels Applied
PASSENGER AIRCRAFT ☐ Ltd Qty ☐ Research/Medical Diagnosis ☐ <3 T.I. ☐ Human Medical Research
Pkg. Dimensions (cm)

20. OFFSITE AUTHORIZATION
Survey No. | Date Shipped | Routing | ETA
Approved for Shipment Offsite | Date

J0B090542

A-6003-214.1 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 2-9-10 @ 1150Am GM Screen Results (out) 1 (in) 2 Initials [✓]

Client: RUS-1 SDG #: W05809 NA [ ] SAF #: D10-008 NA [✓]

Work Order Number: JOB090542 Chain of Custody # 121609-115KE (2 pages)

Shipping Container ID: Hand delivered 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: _____ 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): 93 smears / 16 composites
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)

   H3 C14 (Smears)
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 [✓] 2/9/10
13. Description of anomalies (include sample numbers): NA [ ] ✓

please see attachment. Container Broken.

see other side for additional comments

Sample Custodian: [signature] Date: 2-9-10 @ 1150Am

Client Informed on 2/9/10 by Email Person contacted John Trechter

[ ] No action necessary; process as is.

Project Manager [signature] Date 2/10/10

LS-023, Rev. 10, 10/09

J0B090542
SDG W05809

1. Sample K-10-022 WET The container that holds the smear is broken however the bag is not punctured or torn. There is only one sample per bag.

2. K-09-011 WET Sample is not included on the composite plan.

3. K-09-008 WET DRYER ROOM #1 on the composite list has sample ID K-09-008 WET listed twice.

SKS 2/9/10

^{3}H and ^{14}C Samples for offsite analysis.

All of the samples in each box may be composited and analyzed as one sample.

JOB090542 WO5809

115KE Gas Drier Building

GROUND LEVEL

FILTER ROOM	BLOWER ROOM	DRYER ROOM #2	DRYER ROOM #1
K-10-001 WET K-10-002 WET K-10-003 WET K-10-004 WET K-10-005 WET LVGJP	K-10-006 WET K-10-007 WET K-10-008 WET K-10-009 WET K-10-010 WET LVGJI	K-09-012 WET K-09-013 WET K-09-014 WET K-09-015 WET K-09-016 WET LVGKD	K-09-007 WET K-09-008 WET ~~K-09-008 WET~~* K-09-011 WET K-09-009 WET K-09-010 WET LVGKG

BASEMENT LEVEL

OPERATIONS GALLERY	PIPE TUNNEL-1	PIPE TUNNEL-2
K-10-043 WET K-10-044 WET K-10-045 WET K-10-046 WET K-10-047 WET K-10-048 WET K-10-050 WET K-10-051 WET K-10-052 WET K-10-053 WET K-10-054 WET K-10-055 WET LVGKK	K-10-056 WET K-10-057 WET K-10-059 WET K-10-060 WET K-10-061 WET K-10-062 WET K-10-063 WET K-10-064 WET K-10-065 WET K-10-066 WET K-10-069 WET K-10-070 WET LVGKQ	K-10-072 WET K-10-073 WET K-10-074 WET K-10-075 WET K-10-079 WET K-10-080 WET K-10-081 WET LVGKL
OPERATIONS GALLERY-1 K-10-0049 WET LVGIA	**PIPE TUNNEL-1A** K-10-058 WET K-10-067 WET K-10-068 WET LVGLJ	**PIPE TUNNEL-2A** K-10-082 WET K-10-083 WET K-10-084 WET K-10-085 WET K-10-071 WET K-10-076 WET K-10-077 WET K-10-078 WET LVGLP

117KE Filter Building

LEVEL #1	LEVEL #2	LEVEL #3
K-10-013 WET K-10-015 WET K-10-017 WET K-10-019 WET K-10-021 WET K-10-024 WET LVGLQ	K-10-026 WET K-10-028 WET K-10-030 WET K-10-032 WET K-10-034 WET K-10-036 WET K-10-038 WET LVGLV	K-10-040 WET LVGIW
LEVEL #1-1 K-10-012 WET K-10-014 WET K-10-016 WET K-10-018 WET K-10-020 WET K-10-022 WET K-10-023 WET K-10-025 WET LVGLX	**LEVEL #2-1** K-10-027 WET K-10-029 WET K-10-031 WET K-10-033 WET K-10-035 WET K-10-037 WET K-10-039 WET LVGLO	**LEVEL #3-1** K-10-041 WET LVGLL

*Changed K-09-008 to K-09-011 per Clients email Received on 2/10/10.
SKS 2/10/10

FEBRUARY 24, 2010

Seger, Sandra

From: Trechter, John E Jr [John_E_Jr_Trechter@RL.gov]
Sent: Wednesday, February 10, 2010 7:10 AM
To: Seger, Sandra
Cc: Green, Mary A (Mary Ann); Thomas, Robert J; Trechter, John E Jr
Subject: FW: Reply to Sample Questions
Importance: High

Sandra,

Please see the answers to your questions below, and let me know if you have any more.

Thanks

John Trechter
WSCF Client Services
373-7046

From: Thomas, Robert J
Sent: Tuesday, February 09, 2010 5:30 PM
To: Green, Mary A (Mary Ann); Trechter, John E Jr
Subject: Reply to Sample Questions

John & Mary Ann: See answers below.

-----Original Message-----
From: Green, Mary A (Mary Ann)
Sent: Tuesday, February 09, 2010 4:35 PM
To: Thomas, Robert J
Subject: FW: SAF and attachment for C-14 and H-3 smear samples

Can you provide some directions to John. Please copy me also.

Thanks,
Mary Ann

-----Original Message-----
From: Trechter, John E Jr
Sent: Tuesday, February 09, 2010 3:48 PM
To: Green, Mary A (Mary Ann)
Subject: FW: SAF and attachment for C-14 and H-3 smear samples

Mary Ann,

FEBRUARY 24, 2010

Please let us know how you wish to proceed with the problems listed below.

Thanks

John Trechter
WSCF Client Services
373-7046

-----Original Message-----
From: Seger, Sandra [mailto:Sandra.Seger@testamericainc.com]
Sent: Tuesday, February 09, 2010 3:45 PM
To: Trechter, John E Jr
Cc: Green, Mary A (Mary Ann)
Subject: RE: SAF and attachment for C-14 and H-3 smear samples

John,

We will use - instead of _ .

There are a few problems with the smear samples:

1. Sample K-10-222 WET (We do not have a record of a K-10-222 sample. Is this K-10-022?) The container that holds the smear is broken however the bag is not punctured or torn. There is only one sample per bag.
   Should we include this sample in LEVEL #1-1 composite?
   ANSWER: **YES** (if it is K-10-022)

2. K-09-011 WET Sample is not included on the composite plan.
   Include in DRYER ROOM #1 composite (see below-issue #3)?
   ANSWER: **YES**

3. K-09-008 WET DRYER ROOM #1 on the composite list has sample ID K-09-008 WET listed twice.
   Should one be K-09-011 WET?
   ANSWER: **YES**

Thank you,

Sandra

2/10/2010 8:36:48 AM

Sample Preparation/Analysis

108302, CH2M Hill Plateau Remediation DOE RL
, Flour Hanford Inc

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 02/12/2010 W05809

PRIORITY

Batch: 0041187 **SMEARS** **pCi/g** **PM, Quote: SS , 50639**
SEQ Batch, Test: None

Balance Id: 12430
Pipet #:
Sep1 DT/Tm Tech: 2-10-10 sm
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 LVGJP-1-AA J0B090542-1-SAMP 01/06/2010 10:11	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
2 LVGJ1-1-AA J0B090542-2-SAMP 01/06/2010 10:31	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
3 LVGJ1-1-AD-X J0B090542-2-DUP 01/06/2010 10:31	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
4 LVGKD-1-AA J0B090542-3-SAMP 12/29/2009 09:11	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
5 LVGKG-1-AA J0B090542-4-SAMP 12/17/2009 13:12	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
6 LVGKK-1-AA J0B090542-5-SAMP 01/12/2010 10:00	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
7 LVGKQ-1-AA J0B090542-6-SAMP 01/12/2010 10:26	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:

FEBRUARY 24, 2010

63 of 72

2/10/2010 8:36:48 AM

Sample Preparation/Analysis

108302, CH2M Hill Plateau Remediation DOE RL
, Flour Hanford Inc

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

AnalyDueDate: 02/12/2010

Sep1 DT/Tm Tech:

Batch: 0041187 SMEARS pCi/g
SEQ Batch, Test: None

PM, Quote: SS , 50639

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 LVGK1-1-AA J0B090542-7-SAMP 01/13/2010 10:16	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
9 LVGLA-1-AA J0B090542-8-SAMP 01/12/2010 10:12	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
10 LVGLJ-1-AA J0B090542-9-SAMP 01/12/2010 10:30	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
11 LVGLP-1-AA J0B090542-10-SAMP 01/13/2010 10:38	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
12 LVGLQ-1-AA J0B090542-11-SAMP 01/07/2010 11:04	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
13 LVGLV-1-AA J0B090542-12-SAMP 01/07/2010 11:47	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
14 LVGLW-1-AA J0B090542-13-SAMP 01/07/2010 12:31	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:

FEBRUARY 24, 2010

64 of 72

2/10/10 8:36:48 AM

Sample Preparation/Analysis

108302, CH2M Hill Plateau Remediation DOE RL
, Flour Hanford Inc

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:
Pipet #:

AnalyDueDate: 02/12/2010

Sep1 DT/Tm Tech:

Batch: 0041187 SMEARS pCi/g **PM, Quote: SS , 50639**
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:
15 LVGLX-1-AA J0B090542-14-SAMP 01/07/2010 11:01	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
16 LVGL0-1-AA J0B090542-15-SAMP 01/07/2010 11:51	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
17 LVGL1-1-AA J0B090542-16-SAMP 01/07/2010 12:34	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
18 LVG92-1-AA-B J0B100000-187-BLK 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
19 LVG92-1-AC-C J0B100000-187-LCS 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
20 LVG92-1-AD-BN J0B100000-187-IBLK 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
21 LVG92-1-AE-BN J0B100000-187-IBLK 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

FEBRUARY 24, 2010

65 of 72

Sample Preparation/Analysis

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 02/12/2010

Batch: 0041187 pCi/g
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:

Comments:

All Clients for Batch:
108302, CH2M Hill Plateau Remediation DOE RL Flour Hanford Inc , SS , 50639

LVGJP1AA-SAMP Constituent List:
H-3 RDL:400 pCi/g LCL:70 UCL:130 RPD:35
LVG921AA-BLK:

LVG921AC-LCS:

LVG921AD-IBLK:

LVG921AE-IBLK:

LVGJP1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG921AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG921AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG921AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG921AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

FEBRUARY 24, 2010

ICOC Fraction Transfer/Status Report

FEBRUARY 24, 2010

ByDate: 2/12/2009, 2/17/2010, Batch: '0041187', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
0041187						
AC		**Rev1C**	**McDowellD**	2/10/2010 9:51:40		
SC			WagarR	IsBatched	2/10/2010 8:36:10 AM	ICOC_RADCALC v4.8.37
SC			McDowellD	InSep1	2/10/2010 9:51:40 AM	RL-LSC-005 REVISION 0
SC			McDowellD	Sep1C	2/10/2010 4:20:59 PM	RL-LSC-005 REVISION 0
SC			DAWKINSO	InCnt1	2/10/2010 4:36:30 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	2/12/2010 6:20:04 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	2/12/2010 1:59:32 PM	RL-DR-001 REV 0
AC			**McDowellD**	2/10/2010 4:20:59 PM		
AC			**DAWKINSO**	2/10/2010 4:36:30 PM		
AC			**BlackCL**	2/12/2010 6:20:04		
AC			**nortonj**	2/12/2010 1:59:32 PM		

AC: Accepting Entry; SC: Status Change

2/10/2010 8:36:47 AM

Sample Preparation/Analysis

108302, CH2M Hill Plateau Remediation DOE RL
, Flour Hanford Inc

AnalyDueDate: 02/12/2010 W05809

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

PRIORITY

Balance Id: 12430
Pipet #:
Sep1 DT/Tm Tech: 2-10-10 sm
Sep2 DT/Tm Tech:
Prep Tech:

Batch: 0041185 **SMEARS** **pCi/g**
SEQ Batch, Test: None All Tests: 0041185 5SS3, 0041187 ATS6,

PM, Quote: SS , 50639

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 LVGJP-1-AC J0B090542-1-SAMP 01/06/2010 10:11	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
2 LVGJP-1-AD-X J0B090542-1-DUP 01/06/2010 10:11	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
3 LVGJ1-1-AC J0B090542-2-SAMP 01/06/2010 10:31	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
4 LVGKD-1-AC J0B090542-3-SAMP 12/29/2009 09:11	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
5 LVGKG-1-AC J0B090542-4-SAMP 12/17/2009 13:12	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
6 LVGKK-1-AC J0B090542-5-SAMP 01/12/2010 10:00	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
7 LVGKQ-1-AC J0B090542-6-SAMP 01/12/2010 10:26	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:

FEBRUARY 24, 2010

98 of 72

2/10/2010 8:36:47 AM

Sample Preparation/Analysis

108302, CH2M Hill Plateau Remediation DOE RL
, Flour Hanford Inc

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

Balance Id:

Pipet #: _____

AnalyDueDate: 02/12/2010

Sep1 DT/Tm Tech:

Batch: 0041185 **SMEARS** **pCi/g** **PM, Quote: SS , 50639**
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:
8 LVGK1-1-AC J0B090542-7-SAMP 01/13/2010 10:16	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
9 LVGLA-1-AC J0B090542-8-SAMP 01/12/2010 10:12	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
10 LVGLJ-1-AC J0B090542-9-SAMP 01/12/2010 10:30	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
11 LVGLP-1-AC J0B090542-10-SAMP 01/13/2010 10:38	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
12 LVGLQ-1-AC J0B090542-11-SAMP 01/07/2010 11:04	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
13 LVGLV-1-AC J0B090542-12-SAMP 01/07/2010 11:47	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
14 LVGLW-1-AC J0B090542-13-SAMP 01/07/2010 12:31	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:

FEBRUARY 24, 2010

69 of 72

2/10/2010 8:36:48 AM

Sample Preparation/Analysis

108302, CH2M Hill Plateau Remediation DOE RL
, Flour Hanford Inc

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

Balance Id:

Pipet #: _____

AnalyDueDate: 02/12/2010

Sep1 DT/Tm Tech:

Batch: 0041185 SMEARS pCi/g **PM, Quote: SS , 50639**
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:
15 **LVGLX-1-AC** J0B090542-14-SAMP 01/07/2010 11:01	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
16 **LVGL0-1-AC** J0B090542-15-SAMP 01/07/2010 11:51	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
17 **LVGL1-1-AC** J0B090542-16-SAMP 01/07/2010 12:34	AmtRec: 1BAG	#Containers: 1				Scr:	Alpha:	Beta:
18 **LVG9W-1-AA-B** J0B100000-185-BLK 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
19 **LVG9W-1-AC-C** J0B100000-185-LCS 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
20 **LVG9W-1-AD-BN** J0B100000-185-IBLK 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
21 **LVG9W-1-AE-BN** J0B100000-185-IBLK 02/10/2010 08:36 pd	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

FEBRUARY 24, 2010

30 of 72

2/10/2010 8:36:48 AM

Sample Preparation/Analysis

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

AnalyDueDate: 02/12/2010

Batch: 0041185 pCi/g
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:

Comments:

All Clients for Batch:
108302, CH2M Hill Plateau Remediation DOE RL Flour Hanford Inc , SS , 50639

LVGJP1AC-SAMP Constituent List:
C-14 RDL:50 pCi/g LCL:70 UCL:130 RPD:35
LVG9W1AA-BLK:

LVG9W1AC-LCS:

LVG9W1AD-IBLK:

LVG9W1AE-IBLK:

LVGJP1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG9W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG9W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG9W1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LVG9W1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

FEBRUARY 24, 2010

ICOC Fraction Transfer/Status Report

FEBRUARY 24, 2010

ByDate: 2/12/2009, 2/17/2010, Batch: '0041185', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
0041185						
AC		**Rev1C**	**McDowellD**	2/10/2010 11:54:37		
SC			WagarR	IsBatched	2/10/2010 8:36:10 AM	ICOC_RADCALC v4.8.37
SC			McDowellD	InSep1	2/10/2010 11:54:37 AM	RL-LSC-008 REVISION 0
SC			McDowellD	Sep1C	2/11/2010 1:16:39 PM	RL-LSC-008 REVISION 0
SC			BlackCL	InCnt1	2/11/2010 2:01:48 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	2/12/2010 11:43:44 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	2/12/2010 1:56:47 PM	RL-DR-001 REV 0
AC			**McDowellD**	2/11/2010 1:16:39 PM		
AC			**BlackCL**	2/11/2010 2:01:48 PM		
AC			**BlackCL**	2/12/2010 11:43:44		
AC			**nortonj**	2/12/2010 1:56:47 PM		

AC: Accepting Entry; SC: Status Change