

Analytical Data Package Prepared For

Fluor Hanford Inc.

Radiochemical Analysis By

STL Richland

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

Assigned Laboratory Code: STLRL

Data Package Contains 18 Pages

Report No.: 29257

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W04643	F04-015	B1C778	J5E110297-1	HAA3E1AA	9HAA3E10	5146245



Certificate of Analysis

Fluor Hanford
P.O. Box 1000, T6-03
Richland, WA 99352

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
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June 27, 2005

Attention: Steve Trent

SAF Number : F04-015
Date SDG Closed : May 11, 2005
Number of Samples : One (1)
Sample Type : Soil
SDG Number : W04643
Data Deliverable : 45-Day / Summary

CASE NARRATIVE

I. Introduction

On May 11, 2005, one soil sample was received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the sample was assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

<u>FH ID#</u>	<u>STLR ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B1C778	HAA3E	SOIL	5/11/05

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were: **Liquid Scintillation Counting**
Technetium-99 by method RICH-RC-5078

IV. Quality Control

The analytical results for each analysis performed under SDG W04643 includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any

exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Liquid Scintillation Counting

Technetium-99 by method RICH-RC-5078:

The batch blank, sample, sample duplicate (B1C778) and sample matrix spike (B1C778) 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:


Becky Warrington
Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

Date: 27-Jun-05

STL Richland STLRL

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

Report No. : 29257

SDG No: W04643

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RPD
5146245 TC99_ETVDSK_LSC									
B1C778									
	HAA3E1AA	TC-99	5.27E-01 +- 3.81E-01	U	pCi/g	100%	6.16E-01	1.50E+01	
B1C778 DUP									
	HAA3E1AD	TC-99	3.16E-01 +- 3.53E-01	U	pCi/g	100%	5.92E-01	1.50E+01	50.0
No. of Results: 2									

QC Results Summary

Date: 27-Jun-05

STL Richland STLRL

Ordered by Method, Batch No, QC Type,.

Report No. : 29257

SDG No.: W04643

Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Yield	Recovery	Bias	MDC MDA
TC99_ETVDSK_LSC									
5146245	MATRIX SPIKE								
	HAA3E1AC	TC-99	2.06E+02 +/- 1.22E+01		pCi/g	100%	91%	-0.1	6.20E-01
5146245	BLANK QC								
	HCC3H1AA	TC-99	5.63E-02 +/- 3.23E-01	U	pCi/g	100%			5.61E-01
5146245	LCS								
	HCC3H1AC	TC-99	2.00E+02 +/- 1.19E+01		pCi/g	100%	88%	-0.1	6.19E-01
No. of Results: 3									

FORM I

Date: 27-Jun-05

SAMPLE RESULTS

Lab Name: STL Richland

SDG: W04643

Collection Date: 4/28/2005 9:55:00 AM

Lot-Sample No.: J5E110297-1

Report No. : 29257

Received Date: 5/11/2005 11:45:00 AM

Client Sample ID: B1C778

COC No. : F04-015-149

Matrix: SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5146245	TC99_ETVDSK_LSC				Work Order: HAA3E1AA		Report DB ID: 9HAA3E10					
TC-99	5.27E-01	U	2.72E-01	3.81E-01	6.16E-01	pCi/g	100%	0.86	6/23/05 04:33 a		2.0	LSC7
						2.95E-01	1.50E+01	(2.8)			G	

No. of Results: 1 Comments:

FORM II

Date: 27-Jun-05

DUPLICATE RESULTS

Lab Name: STL Richland
 Lot-Sample No.: J5E110297-1
 Client Sample ID: B1C778 DUP

SDG: W04643
 Report No. : 29257
 COC No. : F04-015-149

Collection Date: 4/28/2005 9:55:00 AM
 Received Date: 5/11/2005 11:45:00 AM
 Matrix: SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5146245	TC99_ETVDSK_LSC				Work Order: HAA3E1AD	Report DB ID: HAA3E1DR			Orig Sa DB ID: 9HAA3E10			
TC-99	3.16E-01	U	2.54E-01	3.53E-01	5.92E-01	pCi/g	100%	0.53	6/23/05 04:33 a		2.1	LSC7
	5.27E-01	U		RPD 50.0		1.50E+01		(1.8)			G	

No. of Results: 1 Comments:

STL Richland RPD - Relative Percent Difference.
 rptSTLRchDupV4.1 MDC|MDA,Le - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 3 A97 U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM II
BLANK RESULTS

Date: 27-Jun-05

Lab Name: STL Richland

SDG: W04643

Matrix: SOIL

Report No. : 29257

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: 5146245	TC99_ETVDSK_LSC				Work Order: HCC3H1AA			Report DB ID: HCC3H1AB				
TC-99	5.63E-02	U	2.33E-01	3.23E-01	5.61E-01	pCi/g	100%	0.1	6/23/05 04:33 a		2.2	LSC7
					2.69E-01	2.00E+01		0.35			G	

No. of Results: 1 Comments:

FORM II
LCS RESULTS

Date: 27-Jun-05

Lab Name: STL Richland

SDG: W04643

Matrix: SOIL

Report No. : 29257

Parameter	Result	Count 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: 5146245	TC99_ETVDSK_LSC					Work Order: HCC3H1AC		Report DB ID: HCC3H1CS					
TC-99	2.00E+02		1.94E+00	1.19E+01	6.19E-01	pCi/g	100%	2.27E+02	2.88E+00	88%	6/23/05 04:33 a	2.0	LSC7
							Rec Limits:	70	130	-0.1		G	

No. of Results: 1 Comments:

FORM II

Date: 27-Jun-05

MATRIX SPIKE RESULTS

Lab Name: STL Richland

SDG: W04643

Lot-Sample No.: J5E110297-1

Report No. : 29257

Matrix: SOIL

Parameter	SpikeResult, Orig Rst	Qual	Comit Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Rec- overy	Exp- ected	Exp Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 5146245	TC99_ETVDSK_LSC			Work Order: HAA3E1AC		Report DB ID: HAA3E1CW			Orig Sa DB ID: 9HAA3E10				
TC-99	2.06E+02		1.97E+00	1.22E+01	6.20E-01	pCi/g	100%	90.69%	2.27E+02	1.88E+01	6/23/05 04:33 a	2.0	LSC7
	5.27E-01	RPD	33.6									G	

No. of Results: 1 Comments:

STL Richland RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
 rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 V4.13 A97



STL

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

6/26/2005 6:46:44 PM

Lot No., Due Date: J5E110297; 06/25/2005
Client, Site: 108302; FLUOR- SOILS Hanford Site
QC Batch No., Method Test: 5146245; RTC99 Tc-99 by LSC
SDG, Matrix: W04635; SOIL

1.0 COC

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

Yes No N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

Yes No N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

Yes No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

Yes No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

Yes No N/A

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

Yes No N/A

4.2 Were analysis volumes entered correctly? Yes No N/A

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

Yes No N/A

4.5 Were raw counts reviewed for anomalies? Yes No N/A

Yes No N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

Yes No N/A

5.2 Are all required forms filled out? Yes No N/A

Yes No N/A

5.3 Was the correct methodology used? Yes No N/A

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

Yes No N/A

5.6 Are worksheet entries complete and correct? Yes No N/A

Yes No N/A

6.0 Comments on any No response:

First Level Review

Pam Anderson

Date

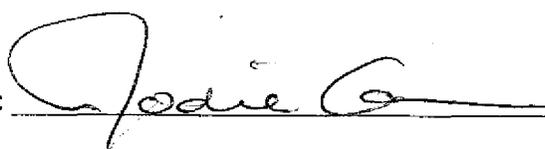
6-27-05

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5146245

Review Item	Yes (✓)	No (✓)	N/A (✓)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?	✓		
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances 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:  Date: 6/27/05

COLLECTOR Pope/Pfister/Wilberg/Tyra	COMPANY CONTACT CS Cearlock	TELEPHONE NO. 372-9638	PROJECT COORDINATOR TRENT, SJ	PRICE CODE SN	DATA TURNAROUND
SAMPLING LOCATION 216-T-33; 12-13 ft	PROJECT DESIGNATION 200-MW-1 Characterization Sampling and Analysis - Soil		SAF NO. F04-015	AIR QUALITY <input type="checkbox"/>	45 Days / 45 Days 24 hrs 45 days
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 119144ES10	METHOD OF SHIPMENT		
SHIPPED TO Severn Trent Incorporated, Richland	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS FLH-50639 JSE110297 SP07 W04635 Due 06 25 05	PRESERVATION	None	None											
		TYPE OF CONTAINER		AS P AS 4-28-05	P										
		NO. OF CONTAINER(S)	1		1										
		VOLUME	500mL		20mL										
		SPECIAL HANDLING AND/OR STORAGE Radioactive Tie To: B1C780	SAMPLE ANALYSIS	Technetium-99; Protium-113; Radium-226; Technetium-99	Activity Scan;										

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B1C778	SOIL HAA3E	4-28-05	0955	X	X									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
J Spore / ASH	4-28-05 1530	MW-026 / REG #1	4-28-05 1530		
MW-026 / ASH	5-11-05 0535	J Spore / ASH	5-11-05 0535		
J Spore / ASH	5-11-05 1145	J Spore / ASH	5-11-05 1145		

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME



STL

Sample Check-in List

Date/Time Received: 05 11 05 1145
 Client: Flour Hanford SDG #: W04635 NA SAF #: F04-015 NA
 Work Order Number: JSE110297 Chain of Custody # F04-015-199
 Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? Yes No
4. Cooler temperature: _____ NA 5. Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA Yes No
8. Samples have:
 _____ tape _____ hazard labels
 _____ custody seals _____ appropriate samples labels
9. Samples are:
 _____ in good condition _____ leaking
 _____ broken _____ have air bubbles
 (Only for samples requiring head space)
10. Sample pH taken? NA pH<2 pH>2 pH>9
11. Sample Location, Sample Collector Listed? * Yes No
 *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes No
13. Description of anomalies (include sample numbers): _____

Sample Custodian:  Date: 05 11 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

6/21/2005 7:44:18 PM

Sample Preparation/Analysis

Balance Id:n/a

108302, FLUOR HANFORD IC
Hanford Inc

, Flour

AN Tc-99 Prp/SepRC5013/5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 06/25/2005

W04635

Sep1 DT/Tm Tech: _____

Batch: 5146245 SOIL pCi/g
SEQ Batch, Test: None All Tests: 5146245 ANS5,

PM, Quote: SS , 50639

Sep2 DT/Tm Tech: _____

Prep Tech: ,FinchA



Work Order, Lot, Sample Date/Time	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:
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1 HAA3E-1-AA J5E110297-1-SAMP 04/28/2005 09:55	2.00g,in							
AmtRec: VIAL20,500P			#Containers: 2		Scr Rst: Alpha: 7.25E-02 pCi/g		Beta: 2.18E-02 pCi/g	

2 HAA3E-1-AC-S J5E110297-1-MS 04/28/2005 09:55	2.00g,in		TCSG1153 06/01/05,pd 02/15/05,r					
AmtRec: VIAL20,500P			#Containers: 2		Scr Rst: Alpha: 7.25E-02 pCi/g		Beta: 2.18E-02 pCi/g	

3 HAA3E-1-AD-X J5E110297-1-DUP 04/28/2005 09:55	2.10g,in							
AmtRec: VIAL20,500P			#Containers: 2		Scr Rst: Alpha: 7.25E-02 pCi/g		Beta: 2.18E-02 pCi/g	

4 HCC3H-1-AA-B J5E260000-245-BLK 04/28/2005 09:55	2.20g,in							
AmtRec:			#Containers: 1		Scr Rst: Alpha:		Beta:	

5 HCC3H-1-AC-C J5E260000-245-LCS 04/28/2005 09:55	2.00g,in		TCSG1152 06/01/05,pd 02/15/05,r					
AmtRec:			#Containers: 1		Scr Rst: Alpha:		Beta:	

6 HCC3H-1-AD-BN J5E260000-245-IBLK 04/28/2005 09:55								
AmtRec:			#Containers: 1		Scr Rst: Alpha:		Beta:	

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ICOC Fraction Transfer/Status Report

ByDate: 6/26/2004, 7/1/2005, Batch: '5146245', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
5146245				
AC	CalcC	McPHERONC	5/26/2005 2:26:28 PM	
SC		heidelbergt	IsBatched	5/26/2005 9:33:47 AM
SC		McPHERONC	InPrep	5/26/2005 2:26:28 PM
SC		McPHERONC	Prep1C	5/27/2005 12:20:00 PM
SC		FinchA	InPrep	6/21/2005 7:42:13 PM
SC		FinchA	Sep1C	6/22/2005 4:15:47 PM
SC		DAWKINSO	InCnt1	6/22/2005 4:26:07 PM
SC		StringerR	CalcC	6/24/2005 10:04:07 AM
AC		McPHERONC	5/27/2005 12:20:00	jw
AC		FinchA	6/21/2005 7:42:13 PM	
AC		FinchA	6/22/2005 4:15:47 PM	
AC		DAWKINSO	6/22/2005 4:26:07 PM	
AC		StringerR	6/24/2005 10:04:07	

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.