

W05101_H3EE

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RECEIVED

MAR 23 2007

DL STEWART

18 pages

Analytical Data Package Prepared For
Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 34659

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05101I	S07-012	B1LBV0	J7A250138-1	JNC2T1AA	9JNC2T10	7031462
		B1LBV2	J7A250138-3	JNC3E1AA	9JNC3E10	7031462
		B1LBV4	J7A250138-4	JNC3P1AA	9JNC3P10	7031462

*Delayed
5/14/12*

Comments:



STL Richland
 2800 George Washington Way
 Richland, WA 99354

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 www.stl-inc.com

Certificate of Analysis

Pacific Northwest National Laboratories
 Sigma V Building
 Richland, WA 99352

March 22, 2007

Attention: Dot Stewart

SAF Number	:	W07-001, S07-001, S07-012, W07-012, S07-010, I07-021, I07-009
Date SDG Closed	:	January 26, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05101
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 24, 2007 and January 26, 2007, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B1LBV0	JNC2T	WATER	1/24/07
B1LBV2	JNC3E	WATER	1/24/07
B1LBV4	JNC3P	WATER	1/24/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in. Sample B1LHB1 had a coliform requested on it. It was missed in sample receiving and not given to the analyst before the holding time was up.

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
Enriched Tritium by method RICH-RC-5024

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Liquid Scintillation Counting

Enriched Tritium by method RICH-RC-5024

The LCS, batch blank, samples and sample duplicate (B1LBV0) are within contractual limits.

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:



Sherryl A. Adam
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 $(\text{Result}/\text{Expected}) - 1$ 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%. $Lc = (1.645 * \sqrt{2 * (\text{BkgndCnt}/\text{BkgndCntMin}) / \text{SCntMin}}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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%. $MDC = (4.65 * \sqrt{((\text{BkgndCnt}/\text{BkgndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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 = $(S - D) / [\sqrt{(\text{TPUs}^2 + \text{TPUd}^2)}]$ 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.

3/22/2007 2:52:58 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34659 File Name: h:\Reportdb\edd\Fead\Rad\W05101.Edd, h:\Reportdb\edd\Fead\Rad\34659.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:					
9JNC2T10	B1LBV0		MW6-SBB-A1	S07-012	W05101					01/24/2007 13:09					
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act	
7031462	H-3	10028-17-8	1.82E+02	pCi/L	1.2E+01	3.4E+01		5.20E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	03/21/2007 00:40	I	
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:					
9JNC3E10	B1LBV2		MW6-SBB-A1	S07-012	W05101					01/24/2007 12:28					
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act	
7031462	H-3	10028-17-8	2.62E+02	pCi/L	1.3E+01	4.7E+01		5.17E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	03/21/2007 03:15	I	
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:					
9JNC3P10	B1LBV4		MW6-SBB-A1	S07-012	W05101					01/24/2007 11:49					
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act	
7031462	H-3	10028-17-8	7.12E+01	pCi/L	7.8E+00	1.6E+01		5.22E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	03/21/2007 04:33	I	

STL Richland

rptFeadRadSummaryEdd v3.48

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

1

Thursday, March 22, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\Rad\W05101.Edd, h:\Reportdb\eddd\Fead\Rad\34659.Edd

Lab Sample Id: JNNQA1AB

Sdg/Rept Nbr: W05101 34659

Collection Date: 01/24/2007 13:09

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 01/24/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AE	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	REF/ UCL	LCS LCL/UCL	R Typ
7031462 BLK	H-3 10028-17-8	6.82E+00	pCi/L	7.3E+00 4.8E+00	U	5.20E+00	100.0		TRITIUM_ELE	1.50E-01	03/20/2007 22:05				D

Thursday, March 22, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\Rad\W05101.Edd, h:\Reportdb\eddd\Fead\Rad\34659.Edd

Lab Sample Id: JNNQA1CS

Sdg/Rept Nbr: W05101

34659

Collection Date: 01/24/2007 13:09

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 01/24/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AF	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031462 BS	H-3 10028-17-8	4.46E+02	pCi/L	7.9E+01 1.7E+01		5.20E+00	100.0	4.53E+02 98.5	TRITIUM_ELE	1.5006E-01 L	03/20/2007 23:22			70 130	D

Thursday, March 22, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05101.Edd, h:\Reportdb\edd\FeadIV\Rad\34659.Edd

Lab Sample Id: JNC2T1CR

Sdg/Rept Nbr: W05101

34659

Collection Date: 01/24/2007 13:09

Client Id: B1LBV0

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 01/24/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-012	MW6-SBB-A19981								AD	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ Yield	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7031462 DUP	H-3 10028-17-8	2.08E+02 1.82E+02	pCi/L	3.8E+01 1.2E+01		5.22E+00	100.0		TRITIUM_ELE	1.50E-01 L	03/21/2007 01:58	13.0 20.0	0.9 3		D



STL

34659

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/21/2007 3:57:08 PM

Lot No., Due Date: J7A250138; 03/09/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7031462; RH3EE H3EE by LSC
SDG, Matrix: W05101; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review

Pam Anderson

Date 3-21-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

OC Batch Number: 7031462
W05101

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: Sheryl A. Adams Date: 5-22-07



Sample Check-in List

Date/Time Received: 1/24/07 1330

Client: PNL SDG #: W05107 NA () SAF #: 507-012 NA ()

Work Order Number: J7A250138 Chain of Custody #: 507-012, 594, 600, 604, 612

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: 4
- 7 Sample holding times exceeded? NA () Yes () No ()
- 8 Samples have:
 - _____ tape
 - _____ custody seals
 - _____ hazard labels
 - appropriate samples labels
- 9 Samples are:
 - in good condition
 - _____ broken
 - _____ leaking.
 - _____ have air bubbles
 - (Only for samples requiring head space)
- 10 Sample pH taken? NA () pH < 2 () pH > 2 () pH > 9 ()
- 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: Er Dwyer Date: 1/24/07 1330

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

() No action necessary: process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev 5

STL RICHLAND

01/31/2007 1:38:04 PM

Sample Preparation/Analysis

Balance Id: *12424*

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/09/2007 *W05101*

Sep1 DT/Tm Tech: *3-5-07 PM*

Batch: 7031462 WATER pCi/L

PM, Quote: SA, 57671

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



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:
1 JNC2T-1-AA J7A250138-1-SAMP 								
01/24/2007 13:09		AmtRec: 20ML,3XLP						Scr: Alpha: Beta:
2 JNC2T-1-AC-X J7A250138-1-DUP 								
01/24/2007 13:09		AmtRec: 20ML,3XLP						Scr: Alpha: Beta:
3 JNC3E-1-AA J7A250138-3-SAMP 								
01/24/2007 12:28		AmtRec: 20ML,3XLP						Scr: Alpha: Beta:
4 JNC3P-1-AA J7A250138-4-SAMP 								
01/24/2007 11:49		AmtRec: 20ML,3XLP						Scr: Alpha: Beta:
5 JNNQA-1-AA-B J7A310000-462-BLK 								
01/24/2007 13:09		AmtRec:	#Containers: 1					Scr: Alpha: Beta:
6 JNNQA-1-AC-C J7A310000-462-LCS 								
01/24/2007 13:09		AmtRec:	#Containers: 1					Scr: Alpha: Beta:
7 JNNQA-1-AD-BN J7A310000-462-IBLK 								
01/24/2007 13:09		AmtRec:	#Containers: 1					Scr: Alpha: Beta:

STL RICHLAND

11/31/2007 1:38:10 PM

Sample Preparation/Analysis

Balance Id: 12424

AS H-3 Prp/SepRC5024
 U3 Enriched Tritium by Liquid Scint
 5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/09/2007

Sep1 DT/Tm Tech: 85-07bm

Batch: 7031462

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

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:
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Comments:

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

JNC2T1AA-SAMP	Constituent List:						
H-3	RDL:1.00E+01	pCi/L	LCL:70	UCL:130	RPD:20		
JNNQA1AA-BLK:							
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:		
JNNQA1AC-LCS:							
H-3	RDL:10	pCi/L	LCL:70	UCL:130	RPD:20		
JNNQA1AD-IBLK:							
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:		
JNC2T1AA-SAMP	Calc Info:						
	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B		
JNNQA1AA-BLK:							
	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B		
JNNQA1AC-LCS:							
	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B		
JNNQA1AD-IBLK:							
	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B		

Approved By _____

Date: _____

3/21/2007 3:35:26 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/21/2006, 3/26/2007, Batch: '7031462', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7031462				
AC	CalcC	McDowellID	3/1/2007 9:59:27 AM	
SC		andersonp	IsBatched 1/31/2007 1:37:47 PM	ICOC_RADCALC v4.8.26
SC		McDowellID	InPrep 3/1/2007 9:59:27 AM	RICH-RC-5024 REVISION 2
SC		McDowellID	InSep1 3/5/2007 3:41:29 PM	RICH-RC-5024 REVISION 2
SC		ICOC	IsRpt 3/13/2007 4:30:52 AM	ICOC_RADCALC v4.8.17
SC		McDowellID	Sep1C 3/20/2007 2:09:55 PM	RICH-RC-5024 REVISION 2
SC		BlackCL	InCnt1 3/20/2007 2:24:43 PM	RICH-RD-0001 REVISION 3
SC		BlackCL	CalcC 3/21/2007 8:03:40 AM	RICH-RD-0001 REVISION 3
AC		McDowellID	3/5/2007 3:41:29 PM	
AC		McDowellID	3/20/2007 2:09:55 PM	
AC		BlackCL	3/20/2007 2:24:43 PM	
AC		BlackCL	3/21/2007 8:03:40	
AC		BlackCL	3/21/2007 8:08:23	

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.