0068910

SAF-RC-046
RCF Tritium Smears
FINAL DATA PACKAGE

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG (PNL180) SAF-RC-046

X Rad only Chem only Rad & Chem

X Complete Partial

Waste Site: RCF – Weekly Smears

RECEIVED
MAR 0 9 2006
EDMC

Battelle

. . . Putting Technology To Work

Pacific Northwest National Laboratory
902 Battelle Boulevard
P.O. Box 999
Richland, Washington 99352

FACSIMILE TRANSMITTAL

DATE: February 28, 2006

To: Joan Kessner

Company: WCH

City/State: Richland, WA

Facsimile #: 1-425-969-4823

Telephone #:

E-Mail Address:

From: 326 Radiological Controls Counting Laboratory

Title:

Facsimile #:

Telephone #: (509) 376-3198

E-Mail Address: Stephan.Marozik@PNL.GOV

Transmittal Consists of (4) Page(s) including cover page.

COMMENTS: Tritium smear results

EA-1950-231 (8/98)

PNL 180

RC-046

ID:H3-C14 LS6500-2 28 FEB 2006 11:02

USER: 3 COMMENT:SN7069514

PRESET TIME : 2.00

DATA CALC :	DL DPM	H# :YES	SAMPLE REPEATS:	1	PRINTER	: STD
COUNT BLANK :	NO	IC# : NO	REPLICATES :	1	RS232	:EDIT
TWO PHASE :	NO	AQC :YES	CYCLE REPEATS :	1	DISK	: OFF
SCINTILLATOR:	LIQUID	LUMEX: NO	LOW SAMPLE REJ:	0	RWM LIST	: OFF
LOW LEVEL :	NO	HALF LIFE CORRECTION DATE:			none	

WCH

RCF

ISOTOPE 1: 3H %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 23

ISOTOPE 2: 14C %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 15

WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 77

G 2/28/06

RUN 2514

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low:25.679 High:373.87

SAM NO	POS	TIME MIN	H#	ISO	CORRECTED CPM	%ERROR	DPM	EFF-1	EFF-2	RATIO	LUMEX %	ELAPSED TIME
1	5-1	2.00	49.8	3H	2.24	315.67	3.49	47.70	0.49	1.135	3.04	2.50
	BLANK			14C	2.35	251.75	3.07	18.72	75.87			
				WIDE	0.00	1.E+06						
2	5-2	2.00	68.0	3H	0.00	1.E+06	-1.07	43.16	0.49	-0.431	3.55	5.11
	J10 LP7			14C	1.85	315.19	2.48	18.58	74.91			
				WIDE	0.00	1.E+06						
3	5-3	2.00	62.0	3H	0.00	1.E+06	-1.03	44.60	0.49	-0.417	2.47	7.69
	J10 LP8			14C	1.85	315.19	2.47	18.62	75.21			
				WIDE	0.00	1.E+06						
4	5-4	2.00	65.3	3H	0.00	1.E+06	-0.20	43.81	0.49	-0.424	1.89	10.27
	J10 LP9			14C	0.35	1590.8	0.47	18.60	75.04			
				WIDE	0.00	1.E+06						
5	5-5	2.00	66.6	3H	0.00	1.E+06	-2.49	43.48	0.49	-0.428	1.23	12.87
	J10 LR0			14C	4.35	143.56	5.82	18.59	74.98			
				WIDE	0.00	1.E+06						
6	5-6	2.00	71.4	3H	0.00	1.E+06	0.00	42.33	0.49	0.000	2.86	15.46
	J10 LR1			14C	0.00	1.E+06	0.00	18.56	74.74			
				WIDE	0.00	1.E+06						

ID: DAILY SOURCE 28 FEB 2006 11:01

USER: 8 COMMENT:LSC#2 USE UNQ C14 DIVIDE BY2

PRESET TIME :	0.50						
DATA CALC :	CPM	H# :YES	SAMPLE REPEATS:	1	PRINTER	:EDIT
COUNT BLANK :	NO	IC# : NO	REPLICATES :	1	RS232	: OFF
TWO PHASE :	NO	AQC :YES	CYCLE REPEATS :	1	DISK	: OFF
SCINTILLATOR:	LIQUID	LUMEX: NO	LOW SAMPLE REJ:	0	RWM LIST	: OFF
LOW LEVEL :	NO	HALF LIFE CORRECTION DATE:			none	

ISOTOPE 1: 14C %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0
WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

ALPHA-BETA DISCRIMINATION: NO

SAM NO	POS	TIME MIN	H#	14C CPM	14C %ERROR	WIDE CPM	WIDE %ERROR	LUMEX %	ELAPSED TIME
1	43-1	0.50	0.4	97672.00	0.91	98252.00	0.90	0.00	0.96

2

48836

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-046-026	Page 1 of 1
Collector RCF Rad Con	Company Contact Mack Kornish	Telephone No. 373-9731	Project Coordinator KESSNER, JH	Price Code Air Quality ☐	Data Turnaround 24 Hours
Project Designation RCF Tritium Smears	Sampling Location RCF - Weekly Smears		SAF No. RC-046		
Ice Chest No. N/A	Field Logbook No. N/A	COA MEA4242ITF	Method of Shipment Hand Delivery - Government Vehicle		
Shipped To PNNL Building 326	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A		

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Radioactivity

Special Handling and/or Storage

None

Preservation	None									
Type of Container	G									
No. of Container(s)	1									
Volume	30g									
SAMPLE ANALYSIS	Tritium - Screen									
Sample No. / Matrix * / Sample Date / Sample Time										
J10LP7 / OTHER SOLID / 2-27-06 / 1008	✓									
J10LP8 / OTHER SOLID / 2-27-06 / 1013	✓									
J10LP9 / OTHER SOLID / 2-27-06 / 1015	✓									
J10LR0 / OTHER SOLID / 2-27-06 / 1020	✓									
J10LR1 / OTHER SOLID / 2-28-06 / 0925	✓									

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From [illegible] Date/Time 0930 2-28-06	Received By/Stored In RZ Stoller R.Z. Stoller Date/Time 0930 2-28-06	
Relinquished By/Removed From RZ Stoller R.Z. Stoller Date/Time 1015 2-28-06	Received By/Stored In S.L. McARTOR Date/Time 2-28-06 1015	
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time	
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time	
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time	
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time	

SPECIAL INSTRUCTIONS

Please fax results to J. Stephens/WCH/RCF @ 373-1224.

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

RUN 7.5K

02/28/2006 12:51 3721484 PNNLCOUNT PAGE 04/04