0061035

SAF-B02-064
100 K Area - Other Solid (quick turn)
FINAL DATA PACKAGE

E:MAIL RESULTS TO:

Mark Buckmaster ___sent by JHK 11/21/03__
INITIAL/DATE

Mike Stankovich ___sent by JHK 11/21/03_____
INITIAL/DATE

COMPLETE COPY OF DATA PACKAGE TO:

Mark Buckmaster X3-16 ____N/A_____
INITIAL/DATE

Mike Stankovich H9-09 ____N/A_____
INITIAL/DATE

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE COVER SHEET)

SDG ____PNL0068____ SAF-B02-064

X Rad only Chem only Rad & Chem

X Complete Partial

RECEIVED
JAN 2 1 2004
EDMC

Waste Site: 100-K Equipment

Battelle
Putting Technology To Work

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

FACSIMILE TRANSMITTAL

DATE: November 21, 2003

To: Joan Kessner

Company: BHI

City/State: Richland, WA

Facsimile #: 1-425-969-4823

Telephone #:

E-Mail Address:

From: PNNL 326 Counting Laboratory

Title: Radiological Controls

Facsimile #:

Telephone #: (509) 376-3198

E-Mail Address:

Transmittal Consists of [7] Page(s) including cover page.

COMMENTS: Ni 63 smear results

RECEIVED
NOV 2003

bo2. oct
emailed to mark/mike

ID=NI-63 LS6500-2 19 NOV 2003 16:03
USER: 4 COMMENT:SN7069514
PRESET TIME : 2.00
DATA CALC : CL DPM HH :YES SAMPLE REPEATS: 1 PRINTER : STD
COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF
TWO PHASE : NO AQC : NO CYCLE REPEATS : 1 DISK : OFF
SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0 RWM LIST : OFF
LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

BECHTEL/100K

ISOTOPE 1: NI-63 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 32
WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 65

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

11/19/03

Quench Limits Low:88.703 High:332.10

RUN 6238

SAM NO	POS	TIME MIN	HH	NI-63 CPM	NI-63 %ERROR	WIDE CPM	WIDE %ERROR	NI-63 DPM	NI-63 EFF-1	LUMEX %	ELAPSED TIME	
1	24-1	2.00	39.1	9.49	117.91	7.04	171.05	9.47	79.10	5.24	2.48	BLANK
	WARNING: QUENCH VALUE IS OUTSIDE QUENCH LIMIT											
2	24-2	2.00	206.6	0.00	1.E+06	0.00	1.E+06	0.00	51.99	1.41	5.02	F9
3	24-3	2.00	154.7	1.49	545.24	0.04	28613	2.37	62.85	1.36	7.59	H0
4	24-4	2.00	129.0	0.00	1.E+06	0.00	1.E+06	0.00	67.64	4.60	10.15	H1
5	24-5	2.00	201.2	1.49	545.24	0.04	28613	2.80	53.19	4.13	12.71	H2
6	24-6	2.00	179.2	0.00	1.E+06	0.00	1.E+06	0.00	57.92	1.91	15.27	H3
7	24-7	2.00	92.9	0.99	814.37	5.04	235.60	1.34	73.74	2.07	17.83	H4
8	24-8	2.00	113.0	1.99	411.32	0.00	1.E+06	2.83	70.40	8.29	20.39	H5
9	24-9	2.00	145.9	3.49	239.73	0.00	1.E+06	5.41	64.54	4.79	22.94	H6
10	24-10	2.00	170.0	18.99	52.92	13.54	92.83	31.74	59.82	0.40	25.52	H7
11	24-11	2.00	167.1	80.99	18.52	87.04	20.06	134.05	60.42	0.12	28.09	H8
12	24-12	2.00	105.8	0.00	1.E+06	0.00	1.E+06	0.00	71.62	2.08	30.65	H9
13	42-1	2.00	73.7	0.00	1.E+06	5.04	235.60	0.00	76.79	1.65	33.22	J0
	WARNING: QUENCH VALUE IS OUTSIDE QUENCH LIMIT											
14	42-2	2.00	100.8	19.99	50.77	23.54	56.68	27.59	72.45	5.16	35.93	J1
15	42-3	2.00	99.5	0.00	1.E+06	0.00	1.E+06	0.00	72.66	1.94	38.50	J2
16	42-4	2.00	136.4	0.00	1.E+06	0.00	1.E+06	0.00	66.30	0.59	41.08	J3
17	42-5	2.00	116.3	0.00	1.E+06	0.00	1.E+06	0.00	69.84	3.87	43.66	J4
18	42-6	2.00	120.7	0.00	1.E+06	0.00	1.E+06	0.00	69.09	1.09	46.23	J5
19	42-7	2.00	130.0	0.99	814.37	4.54	260.62	1.47	67.45	0.60	48.79	J6
20	42-8	2.00	180.1	16.99	57.97	21.54	61.24	29.42	57.75	0.94	51.36	J7
21	42-9	2.00	123.3	0.00	1.E+06	0.00	1.E+06	0.00	68.63	1.24	53.94	J8

TD:DAILY SOURCE 19 NOV 2003 16:02

USER: 8 COMMENT:LSU#2 USE UNG C14 DIVIDE BY2

PRESET TIME :	0.50						
DATA CALC :	CPM	H#	:YES	SAMPLE REPEATS:	1	PRINTER	:EDIT
COUNT BLANK :	NO	TC#	: NO	REPLICATES :	1	RS232	: OFF
TWO PHASE :	NO	AMC	:YES	CYCLE REPEATS :	1	DISK	: OFF
SCINTILLATOR:	LIQUID	LUMEX	: NO	LOW SAMPLE REJ:	0	RAW 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	98554.00	0.90	99040.00	0.90	0.00	0.95

2

49,277

Run 6238

Sm

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B02-064-16	Page 1 of 2

Collector RCTIAIL.BHRC	Company Contact Mike Starkovich	Telephone No. 531-7620	Project Coordinator KESSNER, JH
Project Designation 100 K Area - Other Sels (quick turn)	Sampling Location 100K equipment		SAF No. B02-064
Ice Chest No. ERC 97-079	Field Logbook No. EL 1572	COA RLKX2000	Method of Shipment Gov vehicle
Shipped To PNNL Building 326	Offsite Property No. NA		Bill of Lading/Air Bill No. NA

Price Code: Air Quality

Data Turnaround: 7 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

Radioactive

Historical Information < 2K pCi/g

Special Handling and/or Storage

None

Preservation	None										
Type of Container	G										
No. of Container(s)	1										
Volume	30g										
SAMPLE ANALYSIS	Sieve - Screen										
Sample No	Matrix *	Service Date	Sample Time								
J015F9	OTHER SOLID	10-28-03	0800	X				K 1409-1			
J015H0	OTHER SOLID	10-28-03	0800	X				K 1409-2			
J015H1	OTHER SOLID	10-28-03	0800	X				K 1409-3			
J015H2	OTHER SOLID	10-28-03	0800	X				K 1409-4			
J015H3	OTHER SOLID	10-28-03	0800	X				K 1409-5			

CHAIN OF POSSESSION	Sign/Print Name	Date/Time
Relinquished By/Removed From: ERC	R. Koos / R. Miller	1050 11-18-03
Received By/Stored In: PNNL	[illegible]	1050 11-19-03
Relinquished By/Removed From		
Received By/Stored In		
Relinquished By/Removed From		
Received By/Stored In		
Relinquished By/Removed From		
Received By/Stored In		
Relinquished By/Removed From		
Received By/Stored In		

SPECIAL INSTRUCTIONS

Matrix *: S-Soil; SE-Sediment; SC-Solid; SL-Sludge; W-Water; O-Oil; A-Air; DS-Dust Solids; DL-Dust Liquids; T-Tissue; VEG-Veg; L-Liquid; VEGetation; Other

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

B-1-EE-01 (03/01/2002)

Nov 21 03 02:37p

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B02-064-16	Page 2 of 2
Collector: BCTA/ALLEGO	Company Contact: Mike Simonovich	Telephone No.: 531-7023	Project Coordinator: KESSLER, JH	Price Code: Air Quality	Data Turnaround: 7 Days
Project Description: 100 K Area - Other Solid (pick turn)	Sampling Location: COK equipment		SAF No.: B02-064	
Ice Chest No.: ERC 97-079	Field Logbook No.: BL 1572	COA: RLTRX12000	Method of Shipment: Gov vehicle	
Shipped To: PNNL, Building 326	Offsite Property No.: NA		BOL of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

Radionuclides

Historical Information < 2 K pci/g

Special Handling and/or Storage

None

Preservation	None										
Type of Container	G										
No. of Container(s)	1										
Volume	30g										
SAMPLE ANALYSIS	HNO3 Rinse										
Sample No. / Matrix* / Sample Date / Sample Time											
JC15H4 / OTHER SOLID / 10-28-03 / 0800	X						K	1409-6			
JC15H5 / OTHER SOLID / 10-28-03 / 0800	X						K	1409-7			
JC15H6 / OTHER SOLID / 10-28-03 / 0800	X						K	1409-8			
JC15H7 / OTHER SOLID / 10-28-03 / 0800	X						K	1409-9			
JC15H8 / OTHER SOLID / 10-28-03 / 0800	X						K	1409-10			

CHAIN OF POSSESSION

Relinquished By/Removed From (Sign/Print Name)	Date/Time	Received By/Stored At (Sign/Print Name)	Date/Time
R. Gelo R. Gelo	1050 11-19-03	PNNL S. Morrow S. Morrow	1050 11/19/03
Relinquished By/Removed From	Date/Time	Received By/Stored At	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored At	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored At	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored At	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored At	Date/Time

SPECIAL INSTRUCTIONS

Matrix*

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

BHI-EE-011 (03/01/2002)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		H02-064-17	Page 1 of 2
Collector: RCT/FATHLBERG	Customer Contact: Mike Stankovich	Telephone No.: [illegible]	Project Coordinator: KESSNER, JH	Price Code: Air Quality	Data Turnaround: 7 Days
Project Designation: 100 K Area - Other Solid (quick turn)	Sampling Location: 100K equipment		SAF No.: H02-064	
Ice Chest No.: ERC 97-079	Field Logbook No.: HLT-572	COA: RHKX2000	Method of Shipment: Government vehicle	
Shipped To: PNNL Building 325	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

Radioactive: Historical information < 2K pCi/g

Special Handling and/or Storage: None

Preservation	None										
Type of Container	G										
No. of Container(s)	1										
Volume	30g										
SAMPLE ANALYSIS	Note: Gross										

Sample No.	Matrix *	Sample Date	Sample Time								
J015H9	OTHER SOLID	11-10-03	1330	x					K1498.1		
J015J0	OTHER SOLID	11-10-03	1330	x					K1498.2		
J015J1	OTHER SOLID	11-10-03	1330	x					K1498.3		
J015J2	OTHER SOLID	11-10-03	1330	x					K1498.4		
J015J3	OTHER SOLID	11-10-03	1330	x					K1498.5		

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: ERC [illegible]	11-19-03 1450	PNNL [illegible]	11-19-03 1450
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
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

Matrix *: Soil, Sediment, Sludge, Water, Oil, Air, O-C, Asbestos, Dry Ice, Solid, Tissue, Wipe, Liquid, Vegetation, Other

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

BH-EE-011 (03/21/2002)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		802-004-17	Page 2 of 2
Collector: KOTSFA-ILLBERG	Company Contact: Mike Stratovich	Telephone No.: 551-7625	Project Coordinator: KESSLER, JH	Price Code: Air Quality	Data Turnaround: 7 Days
Project Designation: 100 X Area - Other Solid (specify)	Sampling Location: 100K equipment		SAF No.: EC2-004	
Ice Chest No.: ERC 97-079	Field Logbook No.: EL 1572	COA: KHKX12C0	Method of Shipment: Government vehicle	
Shipped To: PNNL Building 325	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

Radioactive

Historical information < 219 pCi/g

Special Handling and/or Storage

None

Preservation	None										
Type of Container	G										
No. of Container(s)	1										
Volume	250										
SAMPLE ANALYSIS	NAP - Soil										
Sample No.	Matrix*	Sample Date	Sample Time								
J015J4	OTHER SOLID	11-10-03	1330	X					K 1498-6		
J015J5	OTHER SOLID	11-10-03	1330	X					K 1498-7		
J015J6	OTHER SOLID	11-10-03	1330	X					K 1498-8		
J015J7	OTHER SOLID	11-10-03	1330	X					K 1498-9		
J015J8	OTHER SOLID	11-10-03	1330	X					K 1498-10		

CHAIN OF POSSESSION	Sign/Print Name	Date/Time
Relinquished By/Removed From	Received By/Stored In	
Relinquished By/Removed From	Received By/Stored In	
Relinquished By/Removed From	Received By/Stored In	
Relinquished By/Removed From	Received By/Stored In	
Relinquished By/Removed From	Received By/Stored In	

SPECIAL INSTRUCTIONS

Matrix*

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

BH-EE-011 (03/01/2002)