PNL0047

0058217

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

FACSIMILE TRANSMITTAL

DATE: 8-14-02

To: JOAN KESSNER
Company: BHI
City/State: Richland, WA.
Facsimile #: 1-425-969-4823
Telephone #:

From: Steve Bivins
PNNL
Facsimile #: 372-1484
Telephone #: 376-3158

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

COMMENTS :

RECEIVED
NOV 12 2002
EDMC

RECEIVED
AUG 2002
EA-1950-231 (4/98)

(b01.055)
(sdq pnl0047)
emailed to dave/dean

13 AUG 2002 15:48

ID=NI-63 LS6500-2
COMMENT:SN7069514

USER: 4

RESET TIME :	2.00						
DATA CALC :	SL DPM	H#	:YES	SAMPLE REPEATS:	1	PRINTER	:EDIT
COUNT BLANK :	NO	ICW	: 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	

Run 3690
& 8/13/02

ISOTOPE 1: NI-63 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 33
WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 67

BECHTEL

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Ni-63 smears
100 B/C

Quench Limits Low:69.120 High:342.31

SAM NO	POS	TIME MIN	H#	NI-63 CPM	NI-63 %ERROR	WIDE CPM	WIDE %ERROR	NI-63 DPM	NI-63 EFF-1	LUMEX %	ELAPSED TIME	
	BLANK											
1	19-1	2.00	59.0	3.26	260.28	0.00	1.E+06	4.30	75.74	8.75	2.48	
		WARNING: QUENCH VALUE IS OUTSIDE QUENCH LIMIT										
2	19-2	2.00	116.1	0.00	1.E+06	0.00	1.E+06	0.00	68.10	2.96	5.03	J00301
3	19-3	2.00	123.2	0.00	1.E+06	0.00	1.E+06	0.00	67.04	7.89	7.59	302
4	19-4	2.00	134.2	12.76	74.76	14.36	88.63	19.53	65.33	16.71	10.17	303
5	19-5	2.00	194.4	0.00	1.E+06	0.00	1.E+06	0.00	54.34	3.90	12.75	304
6	19-6	2.00	156.8	1.26	654.46	1.86	629.28	2.05	61.52	15.02	15.32	305
7	19-7	2.00	196.2	0.00	1.E+06	0.00	1.E+06	0.00	53.95	5.63	17.89	306
8	19-8	2.00	111.7	0.00	1.E+06	0.00	1.E+06	0.00	68.72	2.92	20.45	307
9	19-9	2.00	128.2	0.00	1.E+06	0.00	1.E+06	0.00	66.27	4.20	23.02	308
10	19-10	2.00	126.5	20.76	49.83	19.36	67.74	31.20	66.54	35.36	25.63	309
11	19-11	2.00	115.5	0.00	1.E+06	5.36	223.88	0.00	68.20	6.52	28.20	310
12	19-12	2.00	92.5	0.00	1.E+06	0.86	1351.0	0.00	71.43	1.81	30.77	311
13	2-1	2.00	150.9	3.26	260.28	0.00	1.E+06	5.21	62.55	28.50	33.48	312
14	2-2	2.00	128.8	0.00	1.E+06	0.00	1.E+06	0.00	66.19	13.61	36.06	313
15	2-3	2.00	147.8	0.00	1.E+06	0.00	1.E+06	0.00	63.09	3.57	38.65	314
16	2-4	2.00	135.0	0.00	1.E+06	0.00	1.E+06	0.00	65.21	2.76	41.22	315
17	2-5	2.00	165.1	16.76	59.37	18.36	71.02	27.92	60.04	27.57	43.83	316
18	2-6	2.00	128.0	0.00	1.E+06	0.00	1.E+06	0.00	66.30	8.88	46.40	317
19	2-7	2.00	160.8	5.26	165.74	0.00	1.E+06	8.65	60.81	7.73	48.97	318
20	2-8	2.00	154.9	0.00	1.E+06	0.00	1.E+06	0.00	61.85	1.65	51.52	319

PAGE: 1

13 AUG 2002 15:47

ID = DAILY SOURCE
COMMENT:LSC#2 USE UNQ C14 DIVIDEBY10
USER: 8

PRESET TIME :	0.10						
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	8-1	0.10	7.2	95610.00	2.05	96190.00	2.04	0.00	0.55

SOURCE ✓
S 8/13/02
RWN 3692

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B01-055-029	Page 1 of 1

Collector: ~~D.Shea~~ HPT	Company Contact: D.Shea	Telephone No.: 373-6425	Project Coordinator: KESSNER, JH
Price Code: Air Quality --	Data Turnaround: 48 Hours		
Project Designation: 100 B/C Area Effluent Pipeline & Proximity Site Remediatic	Sampling Location: 100 B/C, vehicle routines		SAF No.: B01-055
Ice Chest No.: N/A	Field Logbook No.: E-1548-1	COA: R100BC2500	Method of Shipment: Gov. vehicle
Shipped To: PNNL Building 326	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

Possibly radiologically contaminated

Special Handling and/or Storage

Preservation	None											
Type of Container	G											
No. of Container(s)	1											
Volume	30mL											
SAMPLE ANALYSIS	Low Energy Beta - Screen (Nickel-63)											

Sample No.	Matrix *	Sample Date	Sample Time										
J00301	OTHER SOLID	8/9/02	1230	✓									
J00302	OTHER SOLID			✓									
J00303	OTHER SOLID			✓									
J00304	OTHER SOLID			✓									
J00305	OTHER SOLID			✓									

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: D. Miller / [signature] — Date/Time: 8-9-02/1230	Received By/Stored In: [signature] — Date/Time: 8/9/02 1230	
Relinquished By/Removed From: [signature] — Date/Time: 8/9/02 1635	Received By/Stored In: Fridge 1A — Date/Time: 8/9/02 1635	
Relinquished By/Removed From: REF 1A — Date/Time: 81302 1430	Received By/Stored In: S J GALE [signature] — Date/Time: 1430 81302	
Relinquished By/Removed From: S J GALE [signature] — Date/Time: 8302 1440	Received By/Stored In: PNNL S.K. MARZIK [signature] — Date/Time: 8/13/02 1440	
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

Sample date & time reflect time of transfer from Eberline HPT to CHI. AFS personel

Matrix *
S=Soil
SE=Sediment
SD=Solid
SL=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liq. Ex
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 (03/01/2002)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B01-055-029	Page 2 of 4
Collector ~~D.Shea~~ HPT	Company Contact D.Shea; Telephone No. 373-6425	Project Coordinator KESSNER, JH	Price Code; Data Turnaround 48 Hours
Project Designation 100 B/C Area Effluent Pipeline & Proximity Site Remediatio	Sampling Location 100 B/C, vehicle routines	SAF No. B01-055	Air Quality ☐
Ice Chest No. N/A	Field Logbook No. EI-1548-1; COA R100BC2600	Method of Shipment Gov. vehicle	
Shipped To PNNL Building 326	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Possibly radiologically contaminated

Special Handling and/or Storage

Preservation	None										
Type of Container	G										
No. of Container(s)	1										
Volume	30mL										
SAMPLE ANALYSIS	Low Energy Beta - Screen (Nickel-63)										
Sample No	Matrix *	Sample Date	Sample Time								
J00306	OTHER SOLID	8/9/02	12/30	✓							
J00307	OTHER SOLID			✓							
J00308	OTHER SOLID			✓							
J00309	OTHER SOLID			✓							
J00310	OTHER SOLID			✓							

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: D.Miller/DebMiller 8-9-02/1230	Received By/Stored In: DWSchen DWSchen 8/9/02 1230	
Relinquished By/Removed From: DWSchen DWSchen 8/9/02 1635	Received By/Stored In: Fridge 1A 8/9/02 1635	
Relinquished By/Removed From: REF 1A 8/30/02 1430	Received By/Stored In: SJGALE 8/30/02 1430	
Relinquished By/Removed From: ERC SJGALE 8/30/02 1440	Received By/Stored In: PNNL S.K. MARSHK 8/30/02 1440	
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time	
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time	

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 (02/01/2002)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B01-055-029	Page 3 of 4
Collector ~~D.Shea~~ HPT	Company Contact D.Shea	Telephone No. 373-6425	Project Coordinator KESSNER, JH	Price Code Air Quality
Project Designation 100 B/C Area Effluent Pipeline & Proximity Site Remediatio	Sampling Location 100 B/C, vehicle routines		SAF No. B01-055	Data Turnaround 48 Hours
Ice Chest No. N/A	Field Logbook No. EI-1548-1	COA R100BC2600	Method of Shipment Gov. vehicle	
Shipped To PNNL Building 326	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Possibly radiologically contaminated

Special Handling and/or Storage

Preservation	None										
Type of Container	G										
No. of Container(s)	1										
Volume	30mL										
SAMPLE ANALYSIS	Low Energy Beta - Screen (Nickel-63)										

Sample No.	Matrix *	Sample Date	Sample Time										
J00311	OTHER SOLID	8/9/02	1230	✓									
J00312	OTHER SOLID			✓									
J00313	OTHER SOLID			✓									
J00314	OTHER SOLID			✓									
J00315	OTHER SOLID			✓									

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: D.Miller / D.Miller 8-9-02/1230	Received By/Stored In: DWShea DWShea 8/9/02 1230	
Relinquished By/Removed From: DWShea DWShea 8/9/02 1635	Received By/Stored In: Fridge 1A 8/9/02 1635	
Relinquished By/Removed From: REF 1A 81302 1430	Received By/Stored In: SJ GALE 81302 1430	
Relinquished By/Removed From: ERC SJ GALE 81302 1440	Received By/Stored In: PNNL S.K. MARUK 8/13/02 1440	
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time	
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time	

Matrix *
S=Soil
SE=Sediment
SD=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 (03/01/2002)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B01-055-029	Page 1 of 1
Collector: ~~D.Shea~~ DWS HPT	Company Contact: D.Shea; Telephone No.: 373-6425	Project Coordinator: KESSNER, JH	Price Code: Air Quality; Data Turnaround: 48 Hours
Project Designation: 100 B/C Area Effluent Pipeline & Proximity Site Remediatio	Sampling Location: 100 B/C, vehicle routines	SAF No.: B01-055	
Ice Chest No.: N/A	Field Logbook No.: EI-1548-1; COA: R10CBC2600	Method of Shipment: Gov vehicle	
Shipped To: PNNL Building 326	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Possibly radiologically contaminated

Special Handling and/or Storage

Preservation	None										
Type of Container	G										
No. of Container(s)	1										
Volume	50mL										
SAMPLE ANALYSIS	Low Energy Beta - Screen (Nickel-63)										
Sample No	Matrix *	Sample Date	Sample Time								
J00316	OTHER SOLID	8/9/02	1230	✓							
J00317	OTHER SOLID			✓							
J00318	OTHER SOLID			✓							
J00319	OTHER SOLID			✓							
~~J00320~~ DWS 8/9/02	~~OTHER SOLID~~										

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: D. Miller / Deb Hale, Date/Time: 8-9-02/1230	Received By/Stored In: DWS Shea DWS Shea, Date/Time: 8/9/02 1230	
Relinquished By/Removed From: DWS Shea DWS Shea, Date/Time: 8/9/02 1635	Received By/Stored In: Fridge 1A, Date/Time: 8/9/02 1635	
Relinquished By/Removed From: REF 1A, Date/Time: 8/30/02 1430	Received By/Stored In: SJ GALE, Date/Time: 8/30/02 1430	
Relinquished By/Removed From: ERC SJ GALE, Date/Time: 8/30/02 1440	Received By/Stored In: PNNL S.K. MARZIK, Date/Time: 8/13/02 1440	
Relinquished By/Removed From:	Received By/Stored In:	
Relinquished By/Removed From:	Received By/Stored In:	

Matrix *: S=Soil; SE=Sediment; SD=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 (03/01/2002)