



WESTON/WESTINGHOUSE/HANFORD

Case Narrative/Cover Sheet for Reports of Analysis and Lab Data

Date 01-03-92

TI #'s 48503 - 48516

9108L473

WO # 4-3247

Comments:

Sr-90: Analysis was not performed at customers request. (TI #48503 - 48516)

Gross Beta: A spike sample analyzed during the same time period was reported due to a spike error on TI #48512.

Radium-226: Spike activity for TI #48512 8.0pCi/l acceptable range 6.8 - 9.2

Gross Alpha: Spike activity for TI # 48512 22.5pCi/l acceptable range 17. - 27.

Gross Beta: Spike activity for TI #48512 22.6 +-5 pCi/l acceptable range 17. - 27

Radium-228: Spike activity for TI # 48512 23.3pCi/l acceptable range 16.3 - 30.3

Tritium: Spike activity for TI # 48512 4.5 E 04pCi/l acceptable range 3.6 - 5.4

Contents;

Reports of Analysis	<u>3</u>	Pages
Gross Alpha	<u>5</u>	Pages
Gross Beta	<u>-</u>	Pages
Ra-226	<u>13</u>	Pages
Ra-228	<u>10</u>	Pages
Total Radium	<u>4</u>	Pages
H-3	<u>1</u>	Pages
C-O-C	<u>1</u>	Pages
Other	<u>-</u>	Pages

TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 12/17/91

	WORK ORDER NUMBER	CUSTOMER P.O. NUMBER	DATE RECEIVED	DELIVERY DATE	PAGE 1
MS JOSIE KING WESTON/WESTINGHOUSE/HANFORD 208 WELSH POOL ROAD PICKERING CREEK INDUSTRIAL PARK LIONVILLE PA 19341-1313	4-3247	LL-0850-F4	08/20/91	09/22/91	

W A T E R

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE		NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% U/M *	MID-COUNT TIME		VOLUME - UNITS ASH-WGHT-% *	LAB.
			START DATE	STOP DATE				DATE	TIME		
48503	B010W3	91008L473-001	08/13		RA-226	L.T. 3. E-01		09/05		2	
					GR-A	L.T. 2. E 00		09/24		3	
					GR-B	7.3 +-1.3 E 00		09/24		3	
					SR-90	NOT ANALYZED				3	
					RA-228	L.T. 2. E 00		09/06		3	
					H-3	L.T. 2. E 02		09/29		5	
48504	9010V9	91008L473-002	08/13		RA-226	L.T. 2. E-01		09/05		2	
					GR-A	L.T. 2. E 00		09/27		3	
					GR-B	7.1 +-0.4 E 01		09/24		3	
					SR-90	NOT ANALYZED				3	
					RA-228	L.T. 1. E 00		09/06		3	
					H-3	L.T. 1. E 02		09/29		5	
48505	R010V5	91008L473-003	08/13		RA-226	L.T. 2. E-01		09/05		2	
					GR-A	L.T. 2. E 00		09/24		3	
					GR-B	9.2 +-1.5 E 00		09/24		3	
					SR-90	NOT ANALYZED				3	
					RA-228	L.T. 2. E 00		09/09		3	
					H-3	L.T. 1. E 02		09/29		5	
48506	B010X1	91008L473-004	08/13		RA-226	4.8 +-1.9 E-01		09/05		2	
					GR-A	L.T. 5. E-01		09/24		3	
					GR-B	L.T. 1. E 00		09/24		3	
					SR-90	NOT ANALYZED				3	
					RA-228	L.T. 2. E 00		09/09		3	
					H-3	1.5 +-1.0 E 02		09/29		5	

TELEDYNE ISOTOPIES

REPORT OF ANALYSIS

RUN DATE 12/17/91

WORK ORDER NUMBER

CUSTOMER P.O. NUMBER

DATE RECEIVED

DELIVERY DATE

PAGE 2

MS JOSIE KING
 WFSTON/WESTINGHOUSE/HANFORD
 208 WELSH POOL ROAD
 PICKERING CREEK INDUSTRIAL PARK
 LIONVILLE PA 19341-1313

4-3247

LL-0850-F4

09/20/91

09/22/91

W A T E R

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE		NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% U/M *	MID-COUNT TIME		VOLUME - UNITS ASH-WGHT-% *	LAB.
			START DATE	STOP DATE				DATE	TIME		
48507	B010X9	91008L473-005	08/13		GR-A	L.T. 2. E 00		09/24		3	
					GR-B	2.0 +-0.2 E 01		09/24	3		
					TOT RA	L.T. 2. E 00		08/26	3		
48508	B010W7	91008L473-006	08/13		RA-226	6.5 +-1.1 E-01		09/05		2	
					GR-A	L.T. 2. E 00		09/24	3		
					GR-B	1.0 +-0.2 E 01		09/24	3		
					SR-90	NOT ANALYZED			3		
					RA-228	L.T. 2. E 00		09/09	3		
					H-3	L.T. 1. E 02		09/29	5		
48509	B010Y3	91008L473-007	08/14		RA-226	L.T. 3. E-01		09/05		2	
					GR-A	L.T. 1. E 00		09/26	3		
					GR-B	2.4 +-1.0 E 00		09/26	3		
					SR-90	NOT ANALYZED			3		
					RA-228	L.T. 1. E 00		09/11	3		
					H-3	1.5 +-1.0 E 02		09/29	5		
48510	B010Y7	91009L473-008	08/14		RA-226	L.T. 4. E-01		09/05		2	
					GR-A	L.T. 1. E 00		09/26	3		
					GR-B	2.2 +-0.9 E 00		09/26	3		
					SR-90	NOT ANALYZED			3		
					RA-228	L.T. 2. E 00		09/26	3		
					H-3	L.T. 1. E 02		09/29	5		
48511	BLANK	/			RA-226	L.T. 9. E-01		09/27		2	
					GR-A	L.T. 7. E-01		09/26	3		
					GR-B	L.T. 1. E 00		09/26	3		
					SR-90	NOT ANALYZED			3		
					RA-228	L.T. 2. E 00		09/16	3		
					H-3	L.T. 1. E 02		09/29	5		

TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 12/17/91

	WORK ORDER NUMBER	CUSTOMER P.O. NUMBER	DATE RECEIVED	DELIVERY DATE	PAGE 3
MS JOSIE KING WESTON/WESTINGHOUSE/HANFORD 208 WELSH POOL ROAD PICKERING CREEK INDUSTRIAL PARK LIONVILLE PA 19341-1313	4-3247	LL-0950-F4	09/20/91	09/22/91	

W A T E R

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE		NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% U/M *	MIN-COUNT TIME		VOLUME - UNITS ASH-WGHT-% *	LAB.
			START DATE	STOP DATE				DATE	TIME		
48512	SPIKE		/		RA-226	8.0 +-0.3 E 00		09/09			2
					GP-A	2.1 0.2 E 01		09/26			3
					GP-B	2.3 0.2 E 01		11/27			3
					SR-90	NOT ANALYZED					3
					RA-228	1.9 +-0.1 E 01		12/16			3
					H-3	4.6 +-0.2 E 04		09/29			5
48513	DUP	91008L473-008	08/14		RA-226	L.T. 3. E-01		09/09			2
					GP-A	L.T. 1. E 00		09/26			3
					GP-B	1.8 +-1.2 E 00		12/16			3
					SR-90	NOT ANALYZED					3
					RA-228	L.T. 2. E 00		09/16			3
					H-3	L.T. 1. E 02		09/29			5
48514	B010X6	91008L473-009	08/14		RA-226	L.T. 2. E-01		09/09			2
					GP-A	L.T. 1. E 00		09/27			3
					GP-B	1.9 +-0.2 E 01		09/24			3
					SR-90	NOT ANALYZED					3
					TOT RA	3.6 +-2.2 E 00		08/26			3
48515	B010X4	91008L473-010	08/14		RA-226	4.3 +-0.9 E-01		09/09			2
					GP-A	L.T. 2. E 00		09/27			3
					GP-B	1.8 +-0.2 E 01		09/24			3
					SR-90	NOT ANALYZED					3
					TOT RA	L.T. 2. E 00		08/26			3
48516	B010Y0	91008L473-011	08/14		RA-226	9.5 +-1.5 E-01		09/09			2
					GP-A	7.3 +-4.2 E 00		12/12			3
					GP-B	3.0 +-0.3 E 01		09/26			3
					SR-90	NOT ANALYZED					3
					TOT RA	L.T. 2. E 00		08/26			3

LAST PAGE OF REPORT

J. Guenther
APPROVED BY J. GUENTHER 12/17/91

SEND 1 COPIES TO WE894S MS JOSIE KING

2 - GAS LAB. 3 - RADIO CHEMISTRY LAB. 4 - GE(LI) GAMMA SPEC LAB. 5 - TRITIUM GAS/L.S. LAB. 6 - ALPHA SPEC LAB.

WESTON

Client Wichita
Work Order 6168-02-01-0000
Date Rec'd. _____ Date Due _____
RFW Contact Deane Thomas / Julie King
Client Contact/Phone _____

Refrigerator#									
#/Type Container	29	16		29					
Volume	4L	200ml		4L					
Preservative	H2O2	N/K		H2SO4					
ANALYSES REQUESTED	▶ <i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>					

WESTON Analytics
Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

**3 Received Broken/
Leaking (Improperly
Sealed)**

Y N

NOTES:

4 Properly Preserved

Y N

NOTES:

5 Received Within Holding Times

Y N

NOTES:

COC Tape Was:

1 Present on Outer Package	Y	N
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2 Unbroken on Outer
Package Y N

3 Present on Sample

4 Unbroken on Sample
NOTES: Y

COC Record Was:

1 Present Upon Receipt
of Samples Y N

Discrepancies Between
Sample Labels and COC
Record? Y N

NOTES:

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected					
	B010W3	W	8-13-91	/	/			REF 91081473-001
	B010V9			/	/			-002
	B010V5			/	/			-003
	B010X1			/	/			-004
	B010X8						✓	-005
	B010W7			/	/			-006
	B010Y3		8-14-91	/	/			-007
	B010Y7			/	/			-008
	B010X6						✓	-009
	B010X4						✓	-010
	B010Y0 WFF						✓	-011
Radio Chem #1 = Alpha/Beta, Sr-90, / Ra-226/28								
Radio Chem #2 = Gross Alpha/Beta, Calcium								

Matrix:	W - Water	DS - Drum Solids	X - Other
S - Soil	O - Oil	DL - Drum Liquids	
SE - Sediment	A - Air	F - Fish	
SO - Solid	WI - Wipe	L - EP/TCLP Leachate	

Special Instructions:

[illegible]