START 9713539.1940 0046930 53432-WES-488

TELEDYNE ISOTOPES

WESTON/WESTINGHOUSE/HANFORD

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

Date 03-19-92

TI #'s 53432 - 53434

WO #'s 4-4053

Comments:

Activity for Matrix Spike TI #53433 and Matrix Spike Duplicate TI #53434

Nuclide	Activity pCi/l	Acceptable Range
Technicium-99	98.5	79. - 118.
Gross Alpha	22.6	17 - 28.
Gross Beta	45.2	40. - 50.
Strontium-90	40.	34. - 46.
Total Uranium	1.87	1.5 - 2.2
Cesium-137	75.	65. - 85..
Tritium	1.5 E 03	1.2 - 1.8 E 03
~~Uranium-238~~ Pu-239	1.09	0.9 - 1.3

12-1-92

Contents;

Reports of Analysis	3	Pages
Tc-99	3	Pages
Gross Alpha	1	Pages
Gross Beta	-	Pages
Sr-90	3	Pages
Total Uranium	1	Pages
Gamma	3	Pages
H-3	2	Pages
Pu-238-239	3	Pages
C-O-C	1	Pages
Other	-	Pages

MAR 1992 RECEIVED OSM DMO

CASE NARRATIVE CONTINUED

TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 03/19/92

WORK ORDER NUMBER	CUSTOMER P.O. NUMBER	DATE RECEIVED	DELIVERY DATE	PAGE 1
4-4053	LL-0850-E4	10/07/91	11/09/91	

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

W A T E R

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE START DATE	START TIME	STOP DATE	STOP TIME	NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% U/M *	MID-COUNT TIME DATE	MID-COUNT TIME TIME	VOLUME - UNITS ASH-WGHT-% *	LAB.
53432	9109L825-001	R00X85	09/25				TC-99	L.T. 2. E 00		10/18			3
							GR-A	L.T. 4. E-01		09/25			3
							GR-B	1.5 +-0.8 E 00		09/25			3
							SR-90	2.4 +-1.3 E-01		11/02			3
							TOTAL U	L.T. 5. E-02	UGM/LITER *	02/19			3
							BE-7	L.T. 4. E 02		02/16			4
							K-40	L.T. 2. E 02		02/16			4
							MN-54	L.T. 9. E 00		02/16			4
							CO-58	L.T. 3. E 01		02/16			4
							FE-59	L.T. 1. E 02		02/16			4
							CO-60	L.T. 7. E 00		02/16			4
							ZN-65	L.T. 2. E 01		02/16			4
							ZR-95	L.T. 3. E 01		02/16			4
							RU-103	L.T. 9. E 01		02/16			4
							RU-106	L.T. 9. E 01		02/16			4
							I-131	L.T. 2. E 06		02/16			4
							CS-134	L.T. 8. E 00		02/16			4
							CS-137	L.T. 8. E 00		02/16			4
							BA-140	L.T. 2. E 04		02/16			4
							CE-141	L.T. 2. E 02		02/16			4
							CE-144	L.T. 6. E 01		02/16			4
							RA-226	L.T. 1. E 02		02/16			4
							TH-228	L.T. 1. E 01		02/16			4
							H-3	L.T. 2. E 02		11/19			5
							PU-238	L.T. 8. E-02		02/28			6
							PU-239	L.T. 1. E-01		02/28			6
53433	9109L825-001MS	R00X85	09/25				TC-99	9.2 +-0.8 E 01		10/18			3
							GR-A	2.4 +-0.2 E 01		09/25			3
							GR-B	5.1 +-0.2 E 01		09/25			3
							SR-90	3.9 +-0.1 E 01		11/02			3
							TOTAL U	1.7 +-0.3 E 00	UGM/LITER *	02/19			3

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TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 03/19/92

WORK ORDER NUMBER	CUSTOMER P.O. NUMBER	DATE RECEIVED	DELIVERY DATE	PAGE 2
4-4053	LL-C850-F4	10/07/91	11/09/91	

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

W A T E R

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE START DATE	START TIME	STOP DATE	STOP TIME	NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% U/M *	MID-COUNT TIME DATE	TIME	VOLUME - UNITS ASH-WGHT-% *	LAB.
53433	9109L825-001MS B00X85		09/25				BE-7	L.T. 9. E 02		03/01			4
							K-40	L.T. 5. E 02		03/01			4
							MN-54	L.T. 2. E 01		03/01			4
							CO-58	L.T. 6. E 01		03/01			4
							FE-59	L.T. 3. E 02		03/01			4
							CO-60	L.T. 1. E 01		03/01			4
							ZN-65	L.T. 5. E 01		03/01			4
							ZR-95	L.T. 7. E 01		03/01			4
							RU-103	L.T. 2. E 02		03/01			4
							RU-106	L.T. 2. E 02		03/01			4
							CS-134	L.T. 2. E 01		03/01			4
							CS-137	2.57+-1.73E 01		03/01			4
							BA-140	L.T. 7. E 04		03/01			4
							CE-141	L.T. 5. E 02		03/01			4
							CE-144	L.T. 1. E 02		03/01			4
							RA-226	L.T. 3. E 02		03/01			4
							TH-228	L.T. 3. E 01		03/01			4
							H-3	1.6 +-0.1 E 03		02/24			5
							PU-238	L.T. 5. E-02		02/28			6
							PU-239	1.0 +-0.2 E 00		02/28			6
53434	9109L825-001MSD800X85		09/25				TC-99	8.1 +-0.8 E 01		10/18			3
							GR-A	2.4 +-0.2 E 01		09/25			3
							GR-B	5.2 +-0.2 E 01		09/25			3
							SR-90	3.9 +-0.1 E 01		11/02			3
							TOTAL U	1.7 +-0.3 E 00	UGM/LITER *	02/19			3
							BE-7	L.T. 8. E 02		03/02			4
							K-40	L.T. 2. E 02		03/02			4
							MN-54	L.T. 2. E 01		03/02			4
							CO-58	L.T. 5. E 01		03/02			4
							FE-59	L.T. 3. E 02		03/02			4
							CO-60	L.T. 1. E 01		03/02			4

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TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 03/18/92

WORK ORDER NUMBER	CUSTOMER P.O. NUMBER	DATE RECEIVED	DELIVERY DATE	PAGE 3
4-4053	LL-C850-54	10/07/91	11/22/91	

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

W A T E R

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE START DATE	START TIME	STOP DATE	STOP TIME	NUCLIDE	ACTIVITY (PCI/LITER)	NUCL-UNIT-% +/-	MID-COUNT TIME DATE	MID-COUNT TIME TIME	VOLUME - UNITS ASH-WGHT-%	LAB.
53434	9109LP25-C01MSDRCCXRS		09/25				ZN-65	L.T. 3. E 01		03/02			4
							ZR-95	L.T. 7. E 01		03/02			4
							RU-103	L.T. 2. E 02		03/02			4
							RU-106	L.T. 1. E 02		03/02			4
							I-131	L.T. 1. E 02		03/02			4
							CS-134	L.T. 2. E 01		[illegible]			4
							CS-137	7.[illegible] +-1.[illegible] E 01		[illegible]			4
							CE-144	L.T. 7. E 02		[illegible]			4
							CE-141	L.T. 5. E 02		[illegible]			4
							CE-144	L.T. 1. E [illegible]		[illegible]			4
							[illegible]	L.T. 2. E [illegible]		[illegible]			4
							TH-228	L.T. 3. E 01		[illegible]			4
							H-3	1.6 +-0.1 E 03		02/24			5
							PU-238	L.T. 3. E-02		02/25			6
							PU-239	1.0 +-0.2 E 00		02/28			6

LAST PAGE OF REPORT

APPROVED BY J. GUENTHER 03/18/92

SEND 1 COPIES TO WE884S 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.

9713539.1943

WESTON Analytics Use Only

Custody Transfer Record/Lab Work Request

WESTON

Page ____ of ____

Client: Weston
Est. Final Proj. Sampling Date:
Work Order #: 61168-02-01
Project Contact/Phone #:
AD Project Manager: King
QC: CLP Del: CLP TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #:
#/Type Container: Liquid / Solid
Volume: Liquid / Solid
Preservatives:
ANALYSES REQUESTED →

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	ORGANIC VOA	BNA	Pest/PCB	Herb	Radio Chem		INORG Metal	CN					
							WESTON Analytics Use Only												
	B00X85			W	9/25/91						✓	✓		4109282S-001					
	Radiochem Total/Alpha/Beta, Gamma Scan, JC-99, GR-90, CS-137, CO-60, PO238, PO239/240, RU106, Total Uranium, Thorium																		

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

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
[illegible]	[illegible]	10/2/91	6:30pm		Shelley [illegible]	10/7	1200

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# _____ 381-596a

9713539.1944