68022.WZS-570

0047804

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: J King
QC: CLP Del: CLP TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #
#/Type Container: Liquid / Solid
Volume: Liquid / Solid
Preservatives

ANALYSES REQUESTED →

ORGANIC: VOA, BNA, Pest/PCB, Herb, Radio Chem
INORG: Metal, CN

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

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	Radio Chem	Metal	CN
	B01GMZ			S	1/6/92		✓		9201L972-001
	Radiochem - Gross Alpha/Beta Co-60, SR-90 CS-137, U235/238								
	Run MS/MSD								

WESTON Analytics Use Only

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

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

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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't Y or N

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

Relinquished by	Received by	Date	Time
Maria Such	[illegible] FedX	2/26/92	6:30 pm
FED EX	[illegible]	2-27-92	12:00

Relinquished by	Received by	Date	Time

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

WESTON/WESTINGHOUSE/HANFORD TELEDYNE ISOTOPES

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

JUN 1992 RECEIVED OSM DMO

Date 06-15-92

TI #'s 68022 - 68024

WO # 4-0068

Comments:
The matrix spike and matrix spike duplicate analysis for gamma have been deleted according to instructions by Westinghouse Hanford Company.

Activity for Matrix Spike TI #68023 and Matrix Spike Duplicate TI #68024

Nuclide	Activity pCi/g	Acceptable Range
Gross Alpha	33.6	25. - 42.
Gross Beta	68.	58. - 78.
Strontium-90	4.0	3.4 - 4.6
Uranium-235	0.14	0.0 - 6.14
Uranium-238	3.09	0.0 - 9.09

Gross Alpha, Gross Beta:

Spiked soil samples analyzed for Alpha and Beta activity can give results which are outside the expected range because the counting situation is different from the self-absorption calibration method.

In calibration, the radioactive standard solutions are evaporated together with varying amounts of sodium carbonate and sodium nitrate salts. The counting results of these standards are used to construct a self-absorption curve which indicates the effective counting efficiency as a function of residue mass. Experiments have shown that this method gives good agreement with finely divided silt sediments which have been spiked with standard solutions.

When soil samples are coarse, or contain mineral grains, the spiking solution does not penetrate to the interior of the solid particles. This results in a more efficient counting situation, so that the results are higher than expected. The disagreement, therefore is caused by the character of the soil sample.

Contents:

Reports of Analysis		2	Pages
Gross Alpha	PRO-032-1	2	Pages
Gross Beta		-	Pages
Sr-90	PRO-032-38	3	Pages
Gamma	PRO-042-5	2	Pages
U-235-238	PRO-052-32	6	Pages
C-O-C		1	Pages
Other		-	Pages

TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 06/10/92

WORK ORDER NUMBER	CUSTOMER P.O. NUMBER	DATE RECEIVED	DELIVERY DATE	PAGE 1
4-0068	LL-0850-F4	02/27/92	03/31/92	

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

S O I L

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE START DATE	START TIME	STOP DATE	STOP TIME	NUCLIDE	ACTIVITY (PCI/GM DRY)	NUCL-UNIT-% U/M *	MID-COUNT TIME DATE	MID-COUNT TIME TIME	VOLUME - UNITS ASH-WGHT-% *	LAB.
68022	9201L972-001	B01GMZ	01/06				GP-A	6.4 +-4.8 E 00		03/14			3
							GR-B	3.3 +-0.3 E 01		03/14			3
							SR-90	1.1 +-0.4 E-01		03/26			3
							GR-A	L.T. 5. E 00		03/14			3
							GR-B	L.T. 5. E 00		03/14			3
							SR-90	L.T. 4. E-02		03/26			3
							BE-7	L.T. 2. E 00		06/05			4
							K-40	1.54+-0.15E 01		06/05			4
							MN-54	L.T. 4. E-02		06/05			4
							CO-58	L.T. 1. E-01		06/05			4
							FE-59	L.T. 7. E-01		06/05			4
							CO-60	L.T. 4. E-02		06/05			4
							ZN-65	L.T. 1. E-01		06/05			4
							ZR-95	L.T. 2. E-01		06/05			4
							RU-103	L.T. 4. E-01		06/05			4
							RU-106	L.T. 4. E-01		06/05			4
							I-131	L.T. 1. E 04		06/05			4
							CS-134	L.T. 4. E-02		06/05			4
							CS-137	L.T. 4. E-02		06/05			4
							BA-140	L.T. 1. E 02		06/05			4
							CE-141	L.T. 1. E 00		06/05			4
							CE-144	L.T. 3. E-01		06/05			4
							EU-152	L.T. 1. E-01		06/05			4
							EU-154	L.T. 1. E-01		06/05			4
							EU-155	L.T. 1. E-01		06/05			4
							RA-226	1.96+-0.55E 00		06/05			4
							TH-228	6.46+-0.65E-01		06/05			4
							TH-234	L.T. 8. E-01		06/05			4
							U-235	2.7 +-1.3 E-02		05/21			6
							U-238	5.2 +-0.6 E-01		05/21			6
							U-235	L.T. 4. E-03		05/21			6
							U-238	L.T. 4. E-03		05/21			6

TELEDYNE ISOTOPES

REPORT OF ANALYSIS

RUN DATE 06/10/92

WORK ORDER NUMBER	CUSTOMER P.O. NUMBER	DATE RECEIVED	DELIVERY DATE	PAGE 2
4-0068	LL-0850-F4	02/27/92	03/31/92	

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S O I L

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE START DATE	START TIME	STOP DATE	STOP TIME	NUCLIDE	ACTIVITY (PCI/GM DRY)	NUCL-UNIT-% U/M *	MID-COUNT TIME DATE	MID-COUNT TIME TIME	VOLUME - UNITS ASH-WGHT-% *	LAB.
68023	9201L972-001MS B01GMZ		01/06				GR-A	1.1 +-0.2 E 02		03/14			3
							GR-B	1.2 +-0.1 E 02		03/14			3
							SR-90	4.1 +-0.3 E 00		03/28			3
							GR-A	L.T. 5. E 00		03/14			3
							GR-B	L.T. 3. E 00		03/14			3
							SR-90	L.T. 6. E-02		03/28			3
							GAMMA	NOT ANALYZED					4
							U-235	1.5 +-0.3 E-01		05/21			6
							U-238	4.2 +-0.2 E 00		05/21			6
							U-235	L.T. 4. E-03		05/21			6
							U-238	L.T. 4. E-03		05/21			6
68024	9201L972-001MSDB01GMZ		01/06				GR-A	9.1 +-1.5 E 01		03/14			3
							GR-B	1.3 +-0.1 E 02		03/14			3
							SR-90	3.8 +-0.2 E 00		03/26			3
							GR-A	L.T. 5. E 00		03/14			3
							GR-B	L.T. 3. E 00		03/14			3
							SR-90	L.T. 4. E-02		03/26			3
							GAMMA	NOT ANALYZED					4
							U-235	1.4 +-0.3 E-01		05/21			6
							U-238	4.1 +-0.2 E 00		05/21			6
							U-235	L.T. 5. E-03		05/21			6
							U-238	L.T. 6. E-03		05/21			6

LAST PAGE OF REPORT

APPROVED BY J. GUENTHER 06/10/92

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.