

[illegible]

### FORMAT

**ADCO SERVICES, INC.**

UNIFORM LOW-LEVEL RADIOACTIVE  
WASTE MANIFEST**CONTAINER AND WASTE DESCRIPTION**

### Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

### 1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)				Total
			U-233	U-235	Pu		
1	0.0188 m³	4.5388 kg	NP	NP	NP		NP
	0.7000 m³	10.0000 kg					
ACTIVITY							SOURCE (kg)
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129		
W8q	3.0229E+01	NP	NP	NP	NP	(kg)	NA
mCl	8.1700E-01	NP	NP	NP	NP	(lbs)	NA

## 2 MANIFEST NUMBER

140009 £

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME  
US GEOLOGICAL SURVEY

SHIPMENT ID NUMBER

3308

## DISPOSAL CONTAINER DESCRIPTION

## WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

[illegible]

**Note 1: Container Description Codes.** For containers not requiring disposal in approved structural overfills the numerical code must be followed by "CDE"

**Note 1A: Sarawell Specific Container Descriptions**  
**Codes: (Choose one code as may be applicable.)**

**NOTE 2:** Waste Descriptor Codes. (Choose up to three which predominate by volume.)

NOTE 2A: Barrow# Specific  
Waste Descriptor Codes.  
(Choose all applicable codes.)

**Notes: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "S" and the media vendor and brand name must also be identified in Item 13. Code 10=NONE REQUIRED.

**Note 3A: Barnwell Specific  
Solidification and  
Stabilization Media Codes,  
(Choose this code if  
applicable)**

Wooden Box or Crate	9. Demineralizer
Metal Box	10. Gas Cylinder
Pneumatic Drum or Pail	11. Bulk, Unpackaged Volume
Metal Drums or Pail	12. Unpackaged Components
Metal Tank or Liner	13. High Integrity Container
Concrete Tank or Liner	14. Other. Describe in Item 8, or additional page
Polyethylene Tank or Liner	
Fiberglass Tank or Liner	

A High Integrity Container - Poly  
B High Integrity Container - Poly with Steel Shell  
C High Integrity Drum Overpack - Poly  
D High Integrity Container - Stainless Steel  
E High Integrity Container - Fiberglass  
F Liner - Steel

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Oil-on Ion-exchange Media	39. Compatible Trash
22. Soil	31. Ion-on Ion-exchange Media	40. Non-compatible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcasses
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcasses)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Greases or Lubricants	44. Other. Describe in item 11, or additional ones
27. Mechanical Filter	36. Sealed Source Device	
28. EPA or State Hazardous	37. Paint or Plating	

G Dehydrated  
H Solid  
I Combustible  
J Non-combustible  
K Air Filtration Filters  
L Asbestos

90. Cement	94. Vinyl Ester Styrene
91. Concrete (encapsulation)	99. Other. Describe in Item 13, or additional page
92. Bitumen	100. None Required.
93. Vinyl Chloride	

M. Witz-Binder

394 541 00-030

FORM 542		ADCO SERVICES, INC.		1. WASTE COLLECTOR/PROCESSOR					2. MANIFEST NUMBER							
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST				NAME		SHIPPER USE ONLY			14-0009 L							
				US GEOLOGICAL SURVEY												
MANIFEST INDEX AND REGIONAL COMPACT TABULATION				IDENTIFICATION NUMBER		SHIPPING DATE			3. PAGE 1 OF 1 PAGE(S)							
List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators.				T-8003-M4												
4. SO TRANSPORT PERMIT NUMBER	5. GENERATOR NAME AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	7A. WASTE DESCRIPTION (NOMENCLATURE)	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME (m3) (l3)	8. MANIFEST NUMBER(S) UNDER WHICH WASTE (OR MATERIAL) RECEIVED AND DATE OF RECEIPT	9. WASTE CODE P = PROCESSED C = COLLECTED	10. ORIGINATING COMPACT REGION OR STATE	11. AS PROCESSED/COLLECTED TOTAL								
								A. SOURCE MATERIAL (kg) (lb)	B. SNM (g)	C. ACTIVITY (MBq) (mCi)	D. VOLUME (m3) (ft3)	E. WEIGHT (lb)	F. MAXIMUM PACKAGE RADIATION LEVEL (mrem/hr)			
3308 83	US GEOLOGICAL SURVEY 873-878-1886	FOR THE ACCT OF ADCO SERVICES 4200 MEN HAVEN ROAD COLUMBIA, MO 65201	INCINERABLE DRY WASTE		14-0009 L Received: 01/22/2014	C	MO	0.0000E+00	0.0000E+00	0.0000E+00	0.0228E+01	0.1700E+01	0.0188	0.7000	10	0.0000E+00
TOTALS OF ALL PAGES (FORMS 542 AND 542A)								0.0000E+00	0.0000E+00	0.0000E+00	0.0228E+01	0.1700E+01	0.0188	0.7000	10.0000	N/A

FORM 542 (08-03)

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT**

**For Manifest # 14-0009 L  
ADCO SERVICES, INC.**

Isotope	Total Activity	
	(MBq)	(mCi)
Cd-109	0.0000E+00	0.0000E+00
Cs-134	0.0000E+00	0.0000E+00
I-125	0.0000E+00	0.0000E+00
Pb-210	3.0229E+01	8.1700E-01
Se-75	0.0000E+00	0.0000E+00



## Fax Cover Sheet

Date: 1-24-2014

Number of Pages (including this  
cover): 5

To: Dennis O'Dowd Organization: PRC Region 111  
Phone: 630-828-9573 Fax: 630-515-1078

From: Randal Clark Organization: USGS-CERC-Columbia, MO  
Phone: 573-876-1836 E-mail: rclark@usgs.gov

### Message:

Reduced size manifest of January 23, 2014  
shipment. Related to requested amendment  
of NRC license 24-12728-01 on 1-23-2014.

The USGS serves the Nation by providing reliable scientific information to describe and understand the Earth; minimize loss of life and property from natural disasters; manage water, biological, energy, and mineral resources; and enhance and protect our quality of life.

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U.S. Department of the Interior  
U.S. Geological Survey