

FORM 540		EnergySolutions, LLC		5. SHIPPER -- NAME AND FACILITY Cabrera Services, Inc. for US Army, JMC DHS-NUSTL 201 Varick St New York, NY 10014				SHIPPER I.D. NUMBER DHS/NUSTL-001 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		7. FORM 540 AND 540A PAGE 1 OF 3 PAGE(S) FORM 541 AND 541A 6 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8. MANIFEST NUMBER (Use this number on all continuation pages) <p style="text-align: center;">3136-01-0001</p>								
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER				Utah Generator Site Access Permit No. 0209001622		SHIPMENT NUMBER 		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		9. CONSIGNEE - Name and Facility EnergySolutions, LLC Clive Disposal Site (Bulk Waste Facility) Interstate 80, Exit 49 Clive, UT 84029			CONTACT Transportation Compliance								
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 800-424-9300				CONTACT Wade Fillingame		TELEPHONE NUMBER (Include Area Code) 865-300-5789		TELEPHONE NUMBER (Include Area Code) 865-300-5789					TELEPHONE (Include Area Code) (435)884-0155		DATE						
ORGANIZATION Chemtrex, Cabrera contract #CCN3584				6. CARRIER -- Name and Address SJ Transportation Co., Inc. 1176 U.S. Route 40 Woodstown, NJ 08098		EPA I.D. NUMBER NJD071629976		SHIPPING DATE 12/03/2011		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.			SIGNATURE -- <i>Authorized consignee acknowledging waste receipt</i>								
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST <p style="text-align: center;">16</p>		CONTACT John Lightfoot		TELEPHONE (Include Area Code) (856) 769-2741		DATE					AUTHORIZED SIGNATURE		TITLE		DATE				
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		EPA MANIFEST NUMBER		SIGNATURE -- <i>Authorized carrier acknowledging waste receipt</i>		DATE		AUTHORIZED SIGNATURE		TITLE		DATE							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)				12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon				NA		na		Solid Oxides		Cs-134 Cs-137 Eu-154 H-3 Np-237 Pb-211 Pb-212 Pu-236 Pu-238 Pu-239 Pu-240 Ra-226 Sb-125 Sr-90 Th-229 Th-230 Th-232 Th-234 Tl-208 U-232 U-233 U-234 U-235 U-238				1.7021E+00 4.6003E-02		NA		1820 LBS; 96 FT3		001	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon				NA		na		Solid Oxides		Co-60 Cs-137 U-233 U-234 U-235 U-236 U-238				8.0985E-01 2.1888E-02		NA		2200 LBS; 96 FT3		002	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon				NA		na		Solid Oxides		Ac-228 Cs-137 Ra-226 Th-232 U-233 U-234 U-235 U-236 U-238				9.9744E-01 2.6958E-02		NA		1810 LBS; 96 FT3		003	
FOR CONSIGNEE USE ONLY				<input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input type="checkbox"/> No Violations Detected on this Shipment		20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material ___ is (or) <input checked="" type="checkbox"/> is not a hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by EnergySolutions, LLC, and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer from Generator and be vested in EnergySolutions, LLC C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and EnergySolutions LLC's facility license. D. INDEMNIFICATION: Generator agrees to indemnify EnergySolutions, LLC, its officers, employees and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST,) or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.															

FORM 540A

EnergySolutions, LLC

**UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST
SHIPPING PAPER (CONTINUATION)**

8. MANIFEST NUMBER
(Use this number on all continuation pages)
3136-01-0001

Page 2 of 3

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Ac-228	Cs-137	Th-232	7.0337E-02	1.9010E-03	NA	2150 LBS; 96 FT3	004	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Cs-137 Sr-90	Pu-238 U-233	Pu-239 U-234	3.5131E+00	9.4949E-02	NA	2650 LBS; 96 FT3	005	
				U-236	U-238							
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Cs-137 Sr-90	Pu-238 U-233	Pu-239 U-234	3.5131E+00	9.4950E-02	NA	2650 LBS; 96 FT3	006	
				U-236	U-238							
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Cs-137			3.5853E-02	9.6900E-04	NA	1510 LBS; 96 FT3	007	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Cs-137			1.0101E-02	2.7300E-04	NA	2640 LBS; 96 FT3	008	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Am-241 U-235	Cs-137 U-236	U-233 U-238	1.2716E-01	3.4368E-03	NA	1230 LBS; 96 FT3	009	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Cs-137 U-236	U-233 U-238	U-234	1.0907E-01	2.9478E-03	NA	1580 LBS; 96 FT3	010	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Ac-228 U-234	Cs-137 U-235	Th-232 U-236	1.9832E-01	5.3600E-03	NA	2140 LBS; 96 FT3	011	
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	Ac-228 U-233	Cs-137 U-234	Ra-226 U-235	4.4342E-01	1.1984E-02	NA	3620 LBS; 96 FT3	012	
				U-238								
Material not regulated as HAZMAT by the US-DOT - Remediation waste from laboratory decon	NA	na	Solid Oxides	U-233 U-238	U-234	U-235 U-236	1.5072E-01	4.0736E-03	NA	2720 LBS; 96 FT3	013	

FORM 541 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste	EnergySolutions, LLC	1. MANIFEST TOTALS						2. MANIFEST NUMBER 3136-01-0001	
	NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)				3. PAGE 1 OF 6 PAGE(S)	
	16	43.4944	11802.4742	1.6790E-03	1.1327E-01	1.9001E-05	1.1497E-01		
	m3	1536.0000	kg	13.0100	12 Containers	12 Containers	3 Containers	4. SHIPPER NAME Cabrera Services, Inc. for US Army, JMC	
	ft3	13.0100	ton	12 Containers	12 Containers	3 Containers	SHIPMENT ID NUMBER DHS/NUSTL-001		
ACTIVITY			SOURCE (kg)			5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)			
ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129	(kg)			7.3975E-02	
MBq	1.3134E+01	2.9156E-05	NP	NP	NP	(kg)	8.1543E-05		
mCi	3.5497E-01	7.8800E-07	NP	NP	NP	(tons)	8.1543E-05		

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C																																																																											
5.	6.	7.	8.	9.	10.		11.			12.		13.		14.		15.																																																																												
					WASTE AND CONTAINER WEIGHT	SURFACE RADIATION LEVEL	SURFACE CONTAMINATION	WASTE DESCRIPTOR	APPROXIMATE WASTE VOLUME(S) IN CONTAINER	SOLIDIFICATION OR STABILIZATION MEDIA	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT																																																																															
CONTAINER DESCRIPTION	VOLUME	(m3)	(kg)	(mSv/hr)	(MBq/100 cm2)	(dpm/100cm2)	(See Note 2 & Note 2A)	(m3)	(FT3)	(See Note 3)	na	IF > 0.1%	RADIONUCLIDES																																																																															
(See Note 1 & Note 1A)	(ft3)	(ton)	(mrem/hr)	ALPHA	BETA-GAMMA	<0.0000	<1.0000E-01	<1.0000E+02	<1000.0000	39,59-SOLID-HJ	2.4919	100	100	Oxides/NA	na	Cs-134	Cs-137	Eu-154	H-3	Np-237	Pb-211	Pb-212	Pu-236	Pu-238	Pu-239	Pu-240	Ra-226	Sb-125	Sr-90	Th-229	Th-230	Th-232	Th-234	Tl-208	U-232	U-233	U-234	U-235	U-238	Subtotal	Total	5.37655E+00	1.11334E-01	1.36871E+01	1.44771E-03	5.45647E-01	7.89994E-02	1.00127E-02	6.09949E+01	5.25438E-01	1.55794E-01	1.55794E-01	6.90785E-02	6.00763E-01	1.00127E-01	[5.8571E-10 kg]	[8.6667E-11 kg]	[3.1909E-05 kg]	[4.2130E-14 kg]	5.78716E-02	7.67948E-03	[2.4949E-06 g]	4.44601E-02	[5.2273E-04 g]	[5.0294E-05 kg]	1.7021E+00	4.6003E-02	1.0828E-01	2.2422E-04	2.7565E-01	2.9156E-05	1.0989E-02	1.5910E-03	2.0165E-04	1.2284E+00	1.0582E-02	3.1376E-03	3.1376E-03	1.3912E-03	1.2099E-02	2.0165E-03	4.5510E-03	6.7340E-05	1.2987E-04	3.5853E-02	1.6555E-03	1.5466E-04	8.9540E-04	4.2550E-05	6.3270E-04	1.7021E+00	4.6003E-02
001/07-3081.01 DHS	2	2.7184	825.5382	<1.0000E-03	<1.6700E-06	<0.0000	<1.0000E-01	<1.0000E+02	<1000.0000	39,59-SOLID-HJ	2.4919	100	100	Oxides/NA	na	Cs-134	Cs-137	Eu-154	H-3	Np-237	Pb-211	Pb-212	Pu-236	Pu-238	Pu-239	Pu-240	Ra-226	Sb-125	Sr-90	Th-229	Th-230	Th-232	Th-234	Tl-208	U-232	U-233	U-234	U-235	U-238	Subtotal	Total	5.37655E+00	1.11334E-01	1.36871E+01	1.44771E-03	5.45647E-01	7.89994E-02	1.00127E-02	6.09949E+01	5.25438E-01	1.55794E-01	1.55794E-01	6.90785E-02	6.00763E-01	1.00127E-01	[5.8571E-10 kg]	[8.6667E-11 kg]	[3.1909E-05 kg]	[4.2130E-14 kg]	5.78716E-02	7.67948E-03	[2.4949E-06 g]	4.44601E-02	[5.2273E-04 g]	[5.0294E-05 kg]	1.7021E+00	4.6003E-02	1.0828E-01	2.2422E-04	2.7565E-01	2.9156E-05	1.0989E-02	1.5910E-03	2.0165E-04	1.2284E+00	1.0582E-02	3.1376E-03	3.1376E-03	1.3912E-03	1.2099E-02	2.0165E-03	4.5510E-03	6.7340E-05	1.2987E-04	3.5853E-02	1.6555E-03	1.5466E-04	8.9540E-04	4.2550E-05	6.3270E-04	1.7021E+00	4.6003E-02

Note 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in Item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

Note 1A: Bulk Packaging Description Codes. (Choose one code as may be applicable.)

A Gondola
B Intermodal
C End-Dump
D Roll-off
E Seavan

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

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

NOTE 2A: Specific Waste Descriptions (Choose all applicable codes.)

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

Note3: 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 100=NONE REQUIRED.

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

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION <small>(See Note 1 & Note 1A)</small>	7. VOLUME <small>(m3) (ft3)</small>	8. WASTE AND CONTAINER WEIGHT <small>(kg) (ton)</small>	9. SURFACE RADIATION LEVEL <small>(mSv/hr) (mrem/hr)</small>	10. SURFACE CONTAMINATION <small>(MBq/100 cm2) (dpm/100cm2)</small>		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR <small>(See Note 2 & Note 2A)</small>	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER <small>(m3) (FT3)</small>	13. SOLIDIFICATION OR STABILIZATION MEDIA <small>(See Note 3)</small>	CHEMICAL FORM/CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
											RADIONUCLIDES	pCi/gm	MBq		mCi		
002/07-3081.01 DHS	2	2.7184	997.9033	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	SNM [5.2704E-04 g] Source [8.2204E-05 kg]					AU
		96.0000	1.1000	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				Co-60 [3.3299E-05 g] Cs-137 [4.50694E-01] U-233 [4.50694E-01] U-234 [8.99993E-03] U-235 [2.9318E-03 g] U-236 [8.99993E-03] U-238 [9.5000E-04 kg]	1.47906E-01 2.90230E+01 4.50694E-01 4.50694E-01 8.99993E-03 2.3865E-04	3.9220E-03 7.6960E-01 1.1951E-02 1.1951E-02 2.3865E-04	1.0600E-04 2.0800E-02 3.2300E-04 3.2300E-04 6.4500E-06 6.4500E-04 3.2300E-04		
												Subtotal [9.5000E-04 kg]	4.50694E-01	8.0985E-01	2.1888E-02		
												Total		8.0985E-01	2.1888E-02		
003/07-3081.01 DHS	2	2.7184	821.0022	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	SNM [2.9651E-03 g] Source [9.5000E-04 kg]					AU
		96.0000	0.9050	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				Ac-228 [9.6364E-03 kg] Cs-137 [4.8351E-04 g] Ra-226 [8.68885E+00] Th-232 [4.8351E-04 g] U-233 [8.68885E+00] U-234 [1.7353E-01] U-235 [4.2682E-02 g] U-236 [1.73962E-01] U-238 [1.73962E-01] U-238 [1.3794E-02 kg]	1.96379E+00 1.36724E+01 5.92843E+00 1.96379E+00 8.68885E+00 1.7353E-01 1.73962E-01 3.4743E-03 1.73962E-01 3.4743E-03 8.68885E+00	3.9220E-02 2.7306E-01 1.1840E-01 3.9220E-02 1.7353E-01 1.7353E-01 3.4743E-03 3.4743E-03 1.7353E-01	1.0600E-03 7.3800E-03 3.2000E-03 1.0600E-03 4.6900E-03 4.6900E-03 9.3900E-05 9.3900E-05 4.6900E-03		
												Subtotal		9.9744E-01	2.6958E-02		
												Total		9.9744E-01	2.6958E-02		
004/07-3081.01 DHS	2	2.7184	975.2237	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	SNM [4.3165E-02 g] Source [2.3430E-02 kg]					AU
		96.0000	1.0750	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				Ac-228 [6.4909E-03 kg] Cs-137 [1.02883E+00] Th-232 [6.4909E-03 kg] Subtotal [6.4909E-03 kg]	1.02883E+00 6.81563E-01 1.02883E+00 7.0337E-02	2.6418E-02 1.7501E-02 2.6418E-02 7.0337E-02	7.1400E-04 4.7300E-04 7.1400E-04 1.9010E-03		
												Total		7.0337E-02	1.9010E-03		
												Source [6.4909E-03 kg]					

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION <small>(See Note 1 & Note 1A)</small>	7. VOLUME <small>(m3) (ft3)</small>	8. WASTE AND CONTAINER WEIGHT <small>(kg) (ton)</small>	9. SURFACE RADIATION LEVEL <small>(mSv/hr) (mrem/hr)</small>	10. SURFACE CONTAMINATION <small>(MBq/100 cm2) (dpm/100cm2)</small>		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION				
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR <small>(See Note 2 & Note 2A)</small>	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER <small>(m3) (FT3)</small>	13. SOLIDIFICATION OR STABILIZATION MEDIA <small>(See Note 3)</small>	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
							RADIONUCLIDES		pCi/gm	MBq	mCi					
005/07-3081.01 DHS	2	2.7184	1202.0199	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID,59-ASB ESTOS-HJL	2.4919	100 100	Oxides/NA	na	Cs-137	7.15692E-01	2.4383E-02	6.5900E-04	AU
		96.0000	1.3250	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				Pu-238 [1.8353E-06 g]	3.38840E+01	1.1544E+00	3.1200E-02	
												Pu-239 [5.3226E-06 g]	3.58389E-01	1.2210E-02	3.3000E-04	
												Pu-240 [1.4348E-06 g]	3.58389E-01	1.2210E-02	3.3000E-04	
												Sr-90	6.11433E+01	2.0831E+00	5.6300E-02	
												U-233 [3.0206E-04 g]	3.18206E+00	1.0841E-01	2.9300E-03	
												U-234	3.18206E+00	1.0841E-01	2.9300E-03	
												U-235 [9.0909E-03 g]	2.17205E-02	7.4000E-04	2.0000E-05	
												U-236	2.17205E-02	7.4000E-04	2.0000E-05	
												U-238 [6.7647E-04 kg]	2.49786E-01	8.5100E-03	2.3000E-04	
												Subtotal	3.5131E+00	9.4949E-02	9.4949E-02	
												Total	3.5131E+00	9.4949E-02	9.4949E-02	
												SNM [9.4016E-03 g]				
												Source [6.7647E-04 kg]				
006/07-3081.01 DHS	2	2.7184	1202.0199	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Cs-137	7.15699E-01	2.4383E-02	6.5901E-04	AU
		96.0000	1.3250	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				Pu-238 [1.8353E-06 g]	3.38844E+01	1.1544E+00	3.1200E-02	
												Pu-239 [5.3226E-06 g]	3.58393E-01	1.2210E-02	3.3000E-04	
												Pu-240 [1.4348E-06 g]	3.58393E-01	1.2210E-02	3.3000E-04	
												Sr-90	6.11439E+01	2.0831E+00	5.6301E-02	
												U-233 [3.0206E-04 g]	3.18209E+00	1.0841E-01	2.9300E-03	
												U-234	3.18209E+00	1.0841E-01	2.9300E-03	
												U-235 [9.0909E-03 g]	2.17208E-02	7.4000E-04	2.0000E-05	
												U-236	2.17208E-02	7.4000E-04	2.0000E-05	
												U-238 [6.7647E-04 kg]	2.49789E-01	8.5100E-03	2.3000E-04	
												Subtotal	3.5131E+00	9.4950E-02	9.4950E-02	
												Total	3.5131E+00	9.4950E-02	9.4950E-02	
												SNM [9.4016E-03 g]				
												Source [6.7647E-04 kg]				
007/07-3081.01 DHS	2	2.7184	684.9245	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Cs-137	2.40033E+00	3.5853E-02	9.6900E-04	AU
		96.0000	0.7550	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				Subtotal	3.5853E-02	9.6900E-04		
												Total	3.5853E-02	9.6900E-04	9.6900E-04	

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C									
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION <small>(See Note 1 & Note 1A)</small>	7. VOLUME <small>(m3) (ft3)</small>	8. WASTE AND CONTAINER WEIGHT <small>(kg) (ton)</small>	9. SURFACE RADIATION LEVEL <small>(mSv/hr) (mrem/hr)</small>	10. SURFACE CONTAMINATION <small>(MBq/100 cm2) (dpm/100cm2)</small>		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION											
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR <small>(See Note 2 & Note 2A)</small>	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER <small>(m3) (FT3)</small>	13. SOLIDIFICATION OR STABILIZATION MEDIA <small>(See Note 3)</small>	CHEMICAL FORM/CHELATING AGENT	WEIGHT % CHELATING AGENT <small>IF > 0.1%</small>	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT											
											RADIONUCLIDES		pCi/gm		MBq	mCi							
008/07-3081.01 DHS	2	2.7184	1197.4839	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Cs-137 Subtotal Total				2.97953E-01	1.0101E-02	1.0101E-02	2.7300E-04	2.7300E-04	AU		
		96.0000	1.3200	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000															
009/07-3081.01 DHS	2	2.7184	557.9187	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Am-241 Cs-137 U-233 [5.8763E-05 g] U-234 U-235 [5.1818E-03 g] U-236 U-238 [1.6765E-03 kg] Subtotal Total				4.98753E+00	5.1060E-02	1.3800E-03	3.2400E-04	5.7000E-04	5.7000E-04	1.1400E-05	AU
		96.0000	0.6150	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000															
010/07-3081.01 DHS	2	2.7184	716.6760	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Cs-137 U-233 [8.4742E-05 g] U-234 U-235 [7.4546E-03 g] U-236 U-238 [2.4177E-03 kg] Subtotal Total				1.03113E+00	1.6613E-02	4.4900E-04	8.2200E-04	8.2200E-04	1.6400E-05	1.6400E-05	AU
		96.0000	0.7900	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000															
011/07-3081.01 DHS	2	2.7184	970.6877	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Ac-228 Cs-137 Th-232 [1.0636E-02 kg] U-233 [5.7835E-05 g] U-234 U-235 [5.0909E-03 g] U-236 U-238 [1.6500E-03 kg] Subtotal				1.69845E+00	4.3327E-02	1.1710E-03	1.3111E-03	1.1710E-03	5.6148E-04	5.6148E-04	AU
		96.0000	1.0700	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000															

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION <small>(See Note 1 & Note 1A)</small>	7. VOLUME <small>(m3) (ft3)</small>	8. WASTE AND CONTAINER WEIGHT <small>(kg) (ton)</small>	9. SURFACE RADIATION LEVEL <small>(mSv/hr) (mrem/hr)</small>	10. SURFACE CONTAMINATION <small>(MBq/100 cm2) (dpm/100cm2)</small>		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR <small>(See Note 2 & Note 2A)</small>	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER <small>(m3) (FT3)</small>	13. SOLIDIFICATION OR STABILIZATION MEDIA <small>(See Note 3)</small>	CHEMICAL FORM/CHELATING AGENT	WEIGHT % CHELATING AGENT <small>IF > 0.1%</small>	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
											RADIONUCLIDES	pCi/gm	MBq		mCi		
												Total		1.9832E-01	5.3600E-03		
												SNM					
												Source					
012/07-3081.01 DHS	2	2.7184	1642.0045	<1.0000E-03	<1.6700E-06	<0.0000	39.59-SOLID,59-ASB ESTOS-HJL	2.4919	100 100	Oxides/NA	na	Ac-228 Cs-137 Ra-226 Th-232 U-233	[5.1487E-03 g] [1.2286E-02 kg]	1.22725E+00 2.43245E-01 3.69644E+00 1.22725E+00 7.93668E-01	6.1790E-02 1.2247E-02 1.8611E-01 6.1790E-02 3.9960E-02	1.6700E-03 3.3100E-04 5.0300E-03 1.6700E-03 1.0800E-03	AU
		96.0000	1.8100	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				U-234 U-235 U-236 U-238	[1.5182E-02 kg] [1.1134E-04 g]	7.93668E-01 1.58734E-02 1.58734E-02 7.93668E-01	3.9960E-02 7.9920E-04 7.9920E-04 3.9960E-02	1.0800E-03 2.1600E-05 2.1600E-05 1.0800E-03	
												Subtotal			4.4342E-01	1.1984E-02	
												Total			4.4342E-01	1.1984E-02	
												SNM					
												Source					
013/07-3081.01 DHS	2	2.7184	1233.7713	<1.0000E-03	<1.6700E-06	<0.0000	39.59-SOLID,59-ASB ESTOS-HJL	2.4919	100 100	Oxides/NA	na	U-233 U-234 U-235 U-236 U-238	[1.3814E-04 g]	1.40677E+00 1.40677E+00 2.81353E-02 2.81353E-02 1.40677E+00	4.9580E-02 4.9580E-02 9.9160E-04 9.9160E-04 4.9580E-02	1.3400E-03 1.3400E-03 2.6800E-05 2.6800E-05 1.3400E-03	AU
		96.0000	1.3600	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				U-238	[3.9412E-03 kg]	4.9580E-02	1.3400E-03		
												Subtotal			1.5072E-01	4.0736E-03	
												Total			1.5072E-01	4.0736E-03	
												SNM					
												Source					
014/07-3081.01 DHS	2	2.7184	1233.7713	<1.0000E-03	<1.6700E-06	<0.0000	39.59-SOLID,59-ASB ESTOS-HJL	2.4919	100 100	Oxides/NA	na	Cs-137 U-233 U-234 U-235 U-236 U-238	[5.6907E-05 g]	1.14431E+01 5.79504E-01 5.79504E-01 1.15481E-02 1.15481E-02 5.79504E-01	4.0330E-01 2.0424E-02 2.0424E-02 4.0700E-04 4.0700E-04 2.0424E-02	1.0900E-02 5.5200E-04 5.5200E-04 1.1000E-05 1.1000E-05 5.5200E-04	AU
		96.0000	1.3600	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000				U-238	[1.6235E-03 kg]	4.0700E-04	1.1000E-05		
												Subtotal			4.6539E-01	1.2578E-02	
												Total			4.6539E-01	1.2578E-02	
												SNM					
												Source					
												Source					

**UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST**

EnergySolutions, LLC

2. MANIFEST NUMBER

3136-01-0001

3. PAGE 6 OF 6 PAGE(S)

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (ton)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION					
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
							RADIONUCLIDES		pCi/gm	MBq	mCi						
015/07-3081.01 DHS	2	2.7184	1133.9810	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Cs-137 U-233 [4.7835E-05 g] U-234 U-235 [4.2227E-03 g] U-236 U-238 [1.3647E-03 kg] Subtotal Total SNM [4.2706E-03 g] Source [1.3647E-03 kg]	1.57139E+01	4.9580E-01	1.3400E-02	AU	
		96.0000	1.2500	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000					5.44122E-01	1.7168E-02	4.6400E-04		5.44122E-01
016/07-3081.01 DHS	2	2.7184	907.1848	<1.0000E-03	<1.6700E-06	<0.0000	39,59-SOLID-HJ	2.4919	100 100	Oxides/NA	na	Co-60 Cs-137 Subtotal Total SNM [1.1497E-01 g] Source [7.3975E-02 kg]	7.81207E-01	1.8093E-02	4.8900E-04	AU	
		96.0000	1.0000	<1.0000E-01	<1.0000E+02	<1000.0000		88.0000					1.82122E+01	4.2180E-01	1.1400E-02		
														4.3989E-01	1.1889E-02		
														4.3989E-01	1.1889E-02		
Shipment Totals		43.4944	16302.1109											1.3134E+01	3.5497E-01		
		1536.0000	17.9700														

Exclusive Use and Emergency Instructions

EXCLUSIVE USE SHIPMENT

- Any loading and unloading must be performed by personnel with radiological training and resources appropriate for safe handling of the consignment.
- Do not change configuration of the load.
- Must be loaded by consignor and unloaded by consignee from the conveyance or freight container in which originally loaded.
- Must be braced so as to prevent shifting of lading under condition normally incident to transportation..
- Do not load other packages on originating vehicle.
- Deliver directly to consignee.

Emergency Instructions

1. Do not move packages unless necessary for personnel safety
2. Keep unnecessary persons away from the accident area. Keep all personnel who were in the vicinity of the accident or could have been contaminated in a segregated area until qualified radiation safety personnel arrive.
3. Identify and isolate the accident area. Avoid contact with immediate area of packages and areas downwind.
4. Call state and/or local police.
5. Direct traffic and personnel away from the accident area.
6. Emergency Notifications:
Chemtrek 800 424 9300
Wade Fillingame 865-300-5789

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

For Manifest # 3136-01-0001
EnergySolutions, LLC

<u>Isotope</u>	<u>Total Activity</u>	
	<u>(MBq)</u>	<u>(mCi)</u>
Ac-228	1.7076E-01	4.6150E-03
Am-241	5.1060E-02	1.3800E-03
Co-60	2.2015E-02	5.9500E-04
Cs-134	1.0828E-01	2.9265E-03
Cs-137	2.5654E+00	6.9334E-02
Eu-154	2.7565E-01	7.4500E-03
H-3	2.9156E-05	7.8800E-07
Np-237	1.0989E-02	2.9700E-04
Pb-211	1.5910E-03	4.3000E-05
Pb-212	2.0165E-04	5.4500E-06
Pu-236	1.2284E+00	3.3200E-02
Pu-238	2.3194E+00	6.2686E-02
Pu-239	2.7558E-02	7.4480E-04
Pu-240	2.7558E-02	7.4480E-04
Ra-226	3.0590E-01	8.2676E-03
Sb-125	1.2099E-02	3.2700E-04
Sr-90	4.1682E+00	1.1266E-01
Th-229	4.5510E-03	1.2300E-04
Th-230	6.7340E-05	1.8200E-06
Th-232	1.7089E-01	4.6185E-03
Th-234	3.5853E-02	9.6900E-04
Tl-208	1.1655E-03	3.1500E-05
U-232	1.5466E-04	4.1800E-06
U-233	6.0261E-01	1.6287E-02
U-234	6.0261E-01	1.6287E-02
U-235	9.2204E-03	2.4920E-04
U-236	9.1778E-03	2.4805E-04
U-238	4.0254E-01	1.0880E-02

NRC FORM 540 (8-2010) U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY Cabrera Services, Inc. for US Army, JMC DHS-NUSTL 201 Varick St New York, NY 10014				SHIPPER I.D. NUMBER DHS/NUSTL-1 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE <i>(Specify)</i> G		7. NRC FORM 540 AND 540A PAGE 1 OF 2 PAGE(S) NRC FORM 541 AND 541A 3 PAGE(S) NRC FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) DHS/NUSTL-1							
1. EMERGENCY TELEPHONE NUMBER <i>(Include Area Code)</i> NA		USER PERMIT NUMBER NA		SHIPMENT NUMBER WWF-DHS/NUSTL1		9. CONSIGNEE - Name and Facility Address TOXCO c/o Chase Environmental Gp 109 Flint Rd Oak Ridge, TN 37830		CONTACT Janet Baker TELEPHONE NUMBER <i>(Include Area Code)</i> 865-481-8801									
ORGANIZATION NA		CONTACT Wade Fillingame		TELEPHONE NUMBER <i>(Include Area Code)</i> 865-300-5789		SIGNATURE -- Authorized consignee acknowledging waste receipt		DATE 865-481-8801									
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====> 3		6. CARRIER - Name and Address Chase Environmental Group 109 Flint Rd Oak Ridge, TN 37830		EPA I.D. NUMBER na		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the applicable requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.									
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER		CONTACT Janet Baker		TELEPHONE NUMBER <i>(Include Area Code)</i> 865-481-8801		AUTHORIZED SIGNATURE		TITLE		DATE					
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION <i>(Including proper shipping name, hazard class, UN ID number, and any additional information)</i>		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY (MBq)		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME <i>(Use appropriate units)</i>		19. IDENTIFICATION NUMBER OF PACKAGE	
UN 2910, Radioactive material, excepted package-limited quantity of material, 7 - Contaminated Lead for decon and recycle		NA		na		Solid Oxides		Ac-228 Am-241 Ba-133 Bi-207 Cm-243 Cm-244 Cm-248 Co-60 Cs-134 Cs-137 Eu-154 H-3 Np-237 Pb-211 Pb-212 Pu-236 Pu-238 Pu-239 Pu-240 Ra-226 Sb-125 Sr-90 Th-229 Th-230 Th-232 Th-234 Tl-208 U-232 U-233 U-234 U-235 U-236 U-238		5.4684E-02		NA		1160 LBS; 7.5 FT3		Drum 2	
UN 2910, Radioactive material, excepted package-limited quantity of material, 7 - Contaminated Lead for decon and recycle		NA		na		Solid Oxides		Ac-228 Am-241 Ba-133 Bi-207 Cm-243 Cm-244 Cm-248 Co-60 Cs-134 Cs-137 Eu-154 H-3 Np-237 Pb-211 Pb-212 Pu-236 Pu-238 Pu-239 Pu-240 Ra-226 Sb-125 Sr-90 Th-229 Th-230 Th-232 Th-234 Tl-208 U-232 U-233 U-234 U-235 U-236 U-238		5.4684E-02		NA		1160 LBS; 7.5 FT3		Drum 3	
FOR CONSIGNEE USE ONLY																	

**UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST
CONTAINER AND WASTE DESCRIPTION (CONTINUATION)**

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER						16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C		
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL		10. SURFACE CONTAMINATION (MBq/100 cm²)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION			15. RADIOLOGICAL DESCRIPTION	
				<input checked="" type="checkbox"/> (µSv/hr) (mSv/hr)		ALPHA	BETA-GAMMA	11. WASTE DESCRIPTION (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m³)	13. SORBENT SOLIDIFICATION STABILIZATION, MEDIA (See Note 3)	CHEMICAL FORM/CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT	
														U-235 1.1026E-06 [1.3546E-05 g] U-236 1.1026E-06 U-238 1.6391E-05 [1.3029E-06 kg]	
														Total 5.4684E-02 MBq	
Drum 3/07-3081.01 DHS	4	0.2124	526.1672	<1.0000E+00		<1.6700E-06	<0.0000	59-SOLID	0.2124	100 100	Oxides/NA	na	Ac-228 5.8090E-05 Am-241 1.0952E-04 Ba-133 1.6206E-04 Bi-207 2.4901E-05 Cm-243 3.9960E-03 Cm-244 3.9960E-03 Cm-248 7.2520E-06 Co-60 8.1030E-06 Cs-134 2.7972E-03 Cs-137 5.8090E-06 Eu-154 7.1410E-03 H-3 7.5480E-07 Np-237 2.8379E-04 Pb-211 4.1070E-05 Pb-212 5.2170E-06 Pu-236 3.1746E-02 [1.6189E-09 g] Pu-238 2.7343E-04 [4.3471E-10 g] Pu-239 8.1030E-05 [3.5323E-08 g] Pu-240 8.1030E-05 [9.5217E-09 g] Ra-226 3.5927E-05 Sb-125 2.6270E-03 Sr-90 5.2170E-05 Th-229 1.1766E-04 [1.5143E-11 kg] Th-230 1.7390E-06 [2.2381E-12 kg] Th-232 3.3596E-06 [8.2546E-07 kg] Th-234 9.2870E-04 [1.0913E-15 kg] Tl-208 3.0118E-05 U-232 3.9960E-06 U-233 2.3125E-05 [6.4433E-08 g] U-234 2.3125E-05 U-235 1.1026E-06 [1.3546E-05 g] U-236 1.1026E-06 U-238 1.6391E-05 [1.3029E-06 kg]	AU	

APPROVED BY OMB: NO. 3150-0164
EXPIRES: 06/31/2013

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 FES), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to infocollect@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 540 (8-2010)		U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY Cabrera Services, Inc. for US Army, JMC DHS-NUSTL 201 Varick St New York, NY 10014		SHIPPER I.D. NUMBER WWF-20120419 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		7. NRC FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) NRC FORM 541 AND 541A PAGE 2 PAGE(S) NRC FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) DHS/NUSTL2							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 800-424-9300				USER PERMIT NUMBER na		SHIPMENT NUMBER na		9. CONSIGNEE - Name and Facility Address Toxco, Inc 109 FLINT RD OAK RIDGE, TN 37830		CONTACT Rick Law TELEPHONE NUMBER (Include Area Code) 865-482-5532							
ORGANIZATION Chemtrek contract CCN3554				CONTACT Wade Fillingame		TELEPHONE NUMBER (Include Area Code) 865-300-6789		SIGNATURE <i>[Signature]</i> DATE 4-30-12		DATE 4-30-12							
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST ===== 2		6. CARRIER - Name and Address Chase Env - SJ Transportation Co., Inc. 1116 U.S. Route 49 Woodstown, NJ 08098		EPA I.D. NUMBER NJ0071629976		SHIPPING DATE 04/19/2012		This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the applicable requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.							
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER		CONTACT <i>John Lightfoot</i>		TELEPHONE NUMBER (Include Area Code) (855) 769-2741		DATE 4-19-12		AUTHORIZED <i>[Signature]</i> TITLE DATE							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY (MBq)		17. LSASCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
UN 2910, Radioactive material, excepted package-limited quantity of material, 7 sample bottles and DAW		NA		na		Solid Oxides		Am-241 Co-60 Cs-134 Cs-137 Eu-152 Eu-155 K-40 Mn-54 Pa-234m Pb-210 Pu-238 Pu-239 Pu-240 Ra-226 Ra-228 Sn-125 Sr-90 Th-228 Th-230 Th-232 Th-234 U-234 U-235 U-238 U-nat		8.6806E-01		NA		16 LBS; 1.5 FT3		DHS-Drum 4 DHS/NUSTL 3	
UN 2910, Radioactive material, excepted package-limited quantity of material, 7 Contaminated Lead Brick		NA		na		Solid Oxides		Ra-226 U-235 U-238		6.4743E-03		NA		26 LBS; 0.68 FT3		DHS-Drum 5 DHS/NUSTL 4	
FOR CONSIGNEE USE ONLY												A1218					

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