

TABLES C-1 AND C-2 FROM THE WIPP RESOURCE CONSERVATION AND RECOVERY ACT PERMIT APPLICATION

The attached tables were included in the WIPP RCRA Permit Application. These tables provided a cross correlation between the various waste designations in existence at the time. Each has been assigned to a Summary Category Group. The relevant text from the permit application is as follows:

There are various identifiers used for waste streams, all developed for specific purposes. **Table C-1** is a cross correlation table that shows the interrelation between all of these identifiers.

The Summary Category Group (Matrix Parameter Summary Category) description is the broadest grouping. The Summary Category Groups are assigned to each waste stream identified by generators to facilitate RCRA waste characterization and reflect the physical form of the waste.

The Waste Matrix Codes (or Matrix Parameter Categories) were developed by the DOE, in response to the Federal Facilities Compliance Act, as a methodology to aid in classifying mixed waste streams within the DOE system. These codes represent different physical and chemical matrices. The Waste Matrix Code Group (or Final Waste Form) is a grouping of the Waste Matrix Codes that have similar physical and chemical properties.

A Waste Stream WIPP Identifier (ID) is assigned to each specific waste stream at a specific generator site. Similarities in the IDs do not necessarily correlate to similarities between waste streams. The Waste Stream Name is linked to the ID.

Waste stream descriptions may also be associated with TRUPACT-II content (TRUCON) codes. TRUCON content codes were originally developed as a type of shorthand representation of the chemical content and physical waste form of generator waste streams for use in the TRUPACT-II transportation safety analysis. Each waste stream was reviewed and a TRUCON code was assigned. Newly identified waste streams eligible for WIPP disposal will be assigned TRUCON codes, which will be approved by the NRC prior to shipment of the waste streams.

The Item Description Code is a site-specific numerical code applied to individual waste streams to identify their source. These codes represent the local identifiers, used by the generator sites to specify the waste stream type and/or generation area of TRU and TRU mixed waste, and are used at most DOE facilities that generate TRU and TRU mixed waste.

The Waste Type is a numerical designator ranging from one to four that indicates if the waste is a solidified inorganic, solid inorganic, solid organic, or solidified organic. This description is used in the shipment of the waste.

Waste Categories are included in **Table C-1** for the purposes of linking this information to the compatibility study presented in Appendix C1.

Waste stream information has been provided by the generator/storage sites and is documented in the WIPP Transuranic Waste Baseline Inventory Report (WTWBIR) (see **Table C-2**). The information provided by the generator/storage sites in the WTWBIR is not the result of waste characterization. It is an estimate of waste stream constituents. Therefore, one WTWBIR waste stream may relate to numerous waste streams for the purpose of waste characterization. The WTWBIR information was compiled in order to estimate waste volumes and properties for long-term performance assessment. All waste characterization activities must still be conducted and each waste stream submitted to the WIPP facility on a Waste Stream Profile Form for approval. Waste stream descriptions will be finalized over the course of waste characterization at the sites. Changes that have been made to the WTWBIR in recent revisions to this document do not affect this permit application.

This information is made available to assist the sites in making waste stream assignments for the purpose of filling out the Waste Stream Profile Form.

**TABLE C-1
WASTE IDENTIFIERS CROSS-CORRELATION**

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
Homogeneous Solids—S3000	Solidified Inorganics	1000	AL-W005	Solidified Aqueous Liquids/Slurries				
	Solidified Inorganics	3150	IN-W157	Solidified Process Residues	ID 213	004	4	Solidified Liquid
	Solidified Inorganics	3150	IN-W166	Solidified Process Residues	ID 114	114	1	Inorganic Process Solids and Soils
	Solidified Inorganics	3150	IN-W177	Solidified Process Residues		835		
	Solidified Inorganics	3150	IN-W179	Solidified Process Residues	MD 111A	836	1	
	Solidified Inorganics	3150	IN-W181	Solidified Process Residues	ID 211A	978	1	Inorganic Waste Water Treatment Sludge
	Solidified Inorganics	3150	IN-W188	Solidified Process Residues	ID 211A	976	1	Inorganic Waste Water Treatment Sludge
	Solidified Inorganics	3150	IN-W216	Solidified Process Residues	ID 211A	001	1	Inorganic Waste Water Treatment Sludge
	Solidified Inorganics	3150	IN-W220	Solidified Process Residues	ID 111	111	1	Inorganic Waste Water Treatment Sludge
	Solidified Inorganics	3113	IN-W221	Absorbed Aqueous Liquids	ID 113	113	4	Solidified Liquid
	Solidified Inorganics	3150	IN-W222	Solidified Process Residues	ID NYD	292		
	Solidified Inorganics	3121	IN-W228	Solidified Wastewater Treatment Sludges	ID 211A	002	1	Inorganic Waste Water Treatment Sludge

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Solidified Inorganics	3150	IN-W332	Solidified Process Residues		204		
	Solidified Inorganics	3113	IN-W347	Absorbed Aqueous Liquids		102		
Homogeneous Solids—S3000	Solidified Inorganics	---	LA-W002	Solidified Aqueous Waste	LA 111A; 211A	002	1	Inorganic Waste Water Treatment Sludge
	Solidified Inorganics	---	LA-W003	Dewatered Sludge	LA 111B; 211B	003	1	Inorganic Waste Water Treatment Sludge
	Solidified Inorganics	---	LA-W006	Cemented Process Residues	LA 114A	006	1	Inorganic Process Solids and Soil
	Solidified Inorganics	---	LL-W019	Solidified Waste	LL 111	002	1	Inorganic Waste Water Treatment Sludge
	Solidified Inorganics	3150	MD-W002	Absorbed Aqueous Liquids				
	Solidified Inorganics	3120	OR-W042	Inactive Storage Tank Contents—MTRU Sludge				
	Solidified Inorganics	1220	PA-W014	Solidified TRU Waste Liquids				
	Solidified Inorganics	3129	PA-W015	TRU Solid				
	Solidified Inorganics	1190	PA-W015A	TRU and Technetium Waste				
	Solidified Inorganics	3150	RF-M001	Solidified Process/TRM	RF 114	806	1	Inorganic Process Solids and Soils
	Solidified Inorganics	3150	RF-W010	Solidified Aqueous Sludge/TRM	RF 111	800 803 807	1	Inorganic Waste Water Treatment Sludge

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Solidified Inorganics	3121	RF-W038	Solidified Laboratory Waste/TRM	RF 113	802	4	Solidified Liquid
Homogeneous Solids—S3000	Solidified Inorganics	3111	RF-W040	Incinerator Ash/TRM		419 420 421 425 428		
	Solidified Inorganics	3119	RF-W059	Sand, Slag, and Crucible/TRM		387 392 390 393 395 394 396 399 391		
	Solidified Inorganics	1190	RF-W063	Miscellaneous TRM		070 503 400 508 401 527 500 541		
	Solidified Inorganics	6290	RF-W065	Calcium Metal/TRM		333		
	Solidified Inorganics	3129	RF-W068	Particulate Sludge/TRM		292 299 372 823		
	Solidified Inorganics	3119	RF-W076	Process Residues/TRM		289 372 292 422 299 423 340		

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Solidified Inorganics	---	RL-M005	TRU Mixed Homogeneous Solids with Mercury				
	Solidified Inorganics	---	RL-M032	TRU Mixed Inorganic Homogeneous Solids				
Homogeneous Solids—S3000	Solidified Inorganics	3111	SR-W053	Ash				
	Solidified Inorganics	3129	IN-W146	Uncategorized Inorganic Sludges				
	Solidified Inorganics	3000	OR-W046	Solidified Liquid Low Level Waste Tanks - Sludge				
	Solidified Organics	3150	IN-W167	Solidified Process Residues	ID 112	112	4	Organic Liquid and Sludge
	Solidified Organics	3113	IN-W174	Absorbed Aqueous Liquids		834		
	Solidified Organics	3114	IN-W309	Organic Setups	ID 212	003	4	Organic Liquid and Sludge
	Solidified Organics	3222	RF-W013	Solidified Organics/TRM	RF 112	801	4	Organic Liquid and Sludge
	Solidified Organics	3212	RF-W069	Organic Resins/TRM	RF 126	430 431 809	3	Cation and Anion Exchange Resins
	Solidified Organics	---	RL-M017	TRU Mixed Organic Labpacks				
	Solidified Organics	---	RL-M018	TRU Mixed Organic Labpacks (State only)				

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Solidified Organics	---	RL-M024	TRU Mixed Organic Labpacks with polychlorinated biphenyls (PCB)				
	Solidified Organics	2000	SR-W006	Organic TRU				
	Salt Waste	3140	IN-W311	Salt Waste		409		
	Salt Waste	3140	IN-W312	Salt Waste	ID 124	124	2	Pyrochemical Salt
	Salt Waste	3140	IN-W314	Salt Waste		409		
Homogeneous Solids—S3000	Salt Waste	3141	RF-W058	Miscellaneous Pu Recovery By-products/TRM	RF 124	365 414 404 415 405 418 406 427 407 429 408 433 409 434 410 435 411 473 412 654 413	2	Pyrochemical Salt
	Salt Waste	---	IN-M001	Electrorefiner Stripped Salts—Barium (Ba) & Cadmium (Cd)				
	Soils	4200	IN-W263	Contaminated Soils/Debris	MD 111B	842	1	

Soils/Gravel—S4000

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Soils	---	RL-M007	TRU Mixed Soils without Mercury				
Debris Waste—S5000	Combustible	5310	IN-W198	Plastic/Rubber Debris	ID 216C	337	3	Combustibles
	Combustible	5320	IN-W202	Wood Debris	ID 216A	970	3	Combustibles
	Combustible	5300	IN-W205	Combustible Debris	ID 216B	900	3	Combustibles
	Combustible	5311	IN-W250	Leaded Gloves/Aprons Debris	ID 123	123	3	Leaded Rubber
	Combustible	5311	IN-W252	Leaded Gloves/Aprons Debris	ID 123; 223A	339	3	Leaded Rubber
	Combustible	5311	IN-W254	Leaded Gloves/Aprons Debris	ID 223A	463	3	Leaded Rubber
	Combustible	5311	IN-W256	Leaded Gloves/Aprons Debris		802		
Debris Waste—S5000	Combustible	5300	IN-W325	Unknown Solids		815		
	Combustible	5300	IN-W327	Combustible Debris		847		
	Combustible	5310	IN-W330	Plastic/Rubber Debris		801		
	Combustible	5300	IN-W336	Combustible Debris		202		
	Combustible	---	LA-W004	Combustible Waste	LA 116A	004	3	
	Combustible	---	LL-M001	Research and Development Glovebox Waste	LL 116	001	3	

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Combustible	---	RL-M009	TRU Mixed Organic Debris with Corrosives				
	Combustible	---	RL-M010	TRU Mixed Organic Debris with Mercury				
	Combustible	---	RL-M011	TRU Mixed Organic Debris without Mercury				
	Combustible	---	RL-M012	TRU Mixed Organic Debris/ Contaminated without Organics				
	Combustible	---	RL-M013	TRU Mixed Organic Debris/ Contaminated with Organics				
	Combustible	---	RL-M014	TRU Mixed Leaded Gloves/ Aprons with Mercury				
	Combustible	---	RL-M015	TRU Mixed Leaded Gloves/ Aprons Metals without Mercury				
Debris Waste—S5000	Combustible	---	RL-M016	TRU Mixed Leaded Gloves/ Aprons Metals/Organics without Mercury				
	Combustible	---	RL-M022	TRU Mixed Leaded Gloves/ Aprons PCBs with Mercury				

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Combustible	---	RL-M023	TRU Mixed Resource Conservation and Recovery Act (RCRA) Organic Debris with PCBs				
	Filter	5410	IN-W214	Composite Filters		813		
	Filter	5410	RF-W066	Filters & Media/TRM	RF 119	328 376 331 490 335 491 342	3	Filters
	Filter	5410	RF-W067	Cemented Filters/TRM	RF 119	376 338	3	Filters
	Filter	5410	AW-M003	TRU Waste Used Pre-filters				
	Graphite	5000	IN-W272	Debris Waste	ID 115	312	2	Graphite
	Graphite	5000	IN-W275	Debris Waste		301		
	Graphite	5000	IN-W276	Debris Waste	ID 215A	300	2	Graphite
	Graphite	3119	RF-W060	Coarse Graphite/TRM	RF 115	303 312	2	Graphite
	Heterogeneous	5440	IN-W169	Predominantly Combustible Debris	ID 216C	330	3	Combustibles
Debris Waste—S5000	Heterogeneous	5440	IN-W170	Predominantly Combustible Debris	AE 116A AE 116B	120		Combustibles

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Heterogeneous	5440	IN-W171	Predominantly Combustible Debris	AE 116A AE 116B	110		Combustibles
	Heterogeneous	5440	IN-W172	Predominantly Combustible Debris		010		
	Heterogeneous	5440	IN-W186	Predominantly Combustible Debris	ID 116	116	3	Combustibles
	Heterogeneous	5440	IN-W189	Predominantly Combustible Debris	ID 221A	464	3	Benelex® and Plexiglas®
	Heterogeneous	5440	IN-W197	Predominantly Combustible Debris	ID 216A	336	3	Combustibles
	Heterogeneous	5440	IN-W203	Predominantly Combustible Debris		826		
	Heterogeneous	5440	IN-W204	Predominately Combustible Debris	MD 116A	827	3	
	Heterogeneous	5440	IN-W225	Predominantly Combustible Debris	ID 221A	302	3	Benelex® and Plexiglas®
	Heterogeneous	5400	IN-W259	Heterogeneous Debris		104		
	Heterogeneous	5430	IN-W265	Predominately Inorganic Nonmetal Debris	ID 121	374	3	Benelex® and Plexiglas®
	Heterogeneous	5000	IN-W269A	Debris Waste		150		
	Heterogeneous	3190	IN-W271	Uncategorized Inorganic Process Residues		814		

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
Debris Waste—S5000	Heterogeneous	5400	IN-W281	Heterogeneous Debris	MD 117A	824		
	Heterogeneous	5400	IN-W283	Heterogeneous Debris	ID 225A	241	3	Combustibles and Noncombustibles
	Heterogeneous	5400	IN-W285	Heterogeneous Debris		201		
	Heterogeneous	8200	IN-W289	Unknown Solids	AE 116A	121		
	Heterogeneous	5000	IN-W291	Debris Waste		100		
	Heterogeneous	8200	IN-W302	Unknown Solids		020		
	Heterogeneous	5400	IN-W329	Heterogeneous Debris		848		
	Heterogeneous	5000	IN-W334	Debris Waste		203		
	Heterogeneous	5000	IN-W345	Debris Waste		155		
	Heterogeneous	5000	IN-W351	Debris Waste		105		
	Heterogeneous	5490	NT-W001	Heterogeneous Debris, Uncategorized	NT 111; 116; 211; 225		1 & 3	
	Heterogeneous	5400	OR-W044	CH TRU Heterogeneous Debris	OR 125A; 125B		3	
	Heterogeneous	8000	OR-W045	CH TRU Uncategorized				
	Heterogeneous	5400	OR-W047	CH TRU Heterogeneous Debris				

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Heterogeneous	5330	RF-M002	Supercompacted Combustibles/TRM	RF 116C	2116	3	Combustibles
Debris Waste—S5000	Heterogeneous	5900	RF-W008	Soil & Cleanup Debris/TRM	RF 121	374	3	Benelex® and Plexiglas®
	Heterogeneous	5330	RF-W012	Combustibles/TRM	RF 116	330 831 336 832 337 833	3	Combustibles
	Heterogeneous	3119	RF-W036	Firebrick, Pulverized or Fines/TRM	RF 122	377 378	2	Firebrick and Ceramic Crucibles
	Heterogeneous	---	RL-M004	TRU Mixed Heterogeneous Debris (State only)				
	Heterogeneous	---	RL-M006	TRU Mixed Inorganic Homogeneous Solids without Mercury				
	Heterogeneous	---	RL-M031	TRU Mixed Heterogeneous Debris (State only)				
	Heterogeneous	8900	SA-W134	TRU Waste at Hot Cell Facility				
	Heterogeneous	5400	SR-W026	Heterogeneous Debris				
	Heterogeneous	5400	SR-W027	Heterogeneous Debris				
	Heterogeneous	5400	AW-W020	TRU-Cd-Hot Cell Waste				
	Heterogeneous	---	IN-M002	TRU-Cd-Hot Cell Waste				

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Heterogeneous	---	IN-W139	TRU Contaminated Lead Debris				
	Heterogeneous	---	IN-W269B	Debris Waste		150		
	Heterogeneous	5440	IN-W323	Predominantly Combustible Debris		153		
Debris Waste—S5000	Heterogeneous	5000	KA-W016	TRU Debris				
	Heterogeneous	5400	OR-W040	RH TRU Heterogeneous Debris				
	Heterogeneous	5400	RL-M201	Projected RH-MTRU Waste				
	Inorganic Nonmetal	5230	IN-W161	Ceramic/Brick Debris	ID 122; 222B	371	2	Firebrick and Ceramic Crucibles
	Inorganic Nonmetal	5200	IN-W230	Inorganic Nonmetal Debris	ID 122	122	2	Firebrick and Ceramic Crucibles
	Inorganic Nonmetal	5220	IN-W240	Glass Debris	ID 118	118	2	Glass
	Inorganic Nonmetal	5220	IN-W243	Glass Debris	ID 218B	440	2	Glass
	Inorganic Nonmetal	8900	IN-W245	Uncategorized Unknown	ID 225B	441	3	Combustibles and Noncombustibles
	Inorganic Nonmetal	8900	IN-W247	Uncategorized Unknown	ID 218A	442	2	Glass
	Inorganic Nonmetal	8900	IN-W249	Uncategorized Unknown		810		
	Inorganic Nonmetal	5250	MD-M001	Asbestos Debris				

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Inorganic Nonmetal	3114	RF-W026	Used Absorbents/TRM	RF 122	375	2	Firebrick and Ceramic Crucibles
	Inorganic Nonmetal	3119	RF-W032	Ground Glass/TRM	RF 118	444	2	Glass
	Inorganic Nonmetal	5122	RF-W052	Glass/TRM	RF 118	440 442 441 856	2	Glass
Debris Waste—S5000	Inorganic Nonmetal	5123	RF-W056	Magnesium (Mg) Oxide Crucibles/TRM	RF 118	370 368 655	2	Glass
	Inorganic Nonmetal	5129	RF-W057	Insulation/TRM	RF 122	438	2	Firebrick and Ceramic Crucibles
	Lead/Cadmium Metal Waste	5400	AW-M001	ALHC Upgrade Decon Debris				
	Lead/Cadmium Metal Waste	5311	AW-M002	Lead/Cadmium Metal Waste				
	Lead/Cadmium Metal Waste	---	ET-M001	Hot Laboratory & Pu Facility D&D				
	Lead/Cadmium Metal Waste	5311	RF-W029	Leaded Gloves/TRM	RF 123	339	3	Leaded Rubber
	Lead/Cadmium Metal Waste	5311	RF-W041	Leaded Gloves-Acid Contaminated/TRM		341		

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Lead/Cadmium Metal Waste	---	RL-M019	TRU Mixed Elemental Hazardous Metals with Mercury				
	Lead/Cadmium Metal Waste	---	RL-M020	TRU Mixed Elemental Hazardous Metals without Mercury				
	Lead/Cadmium Metal Waste	3190	AW-W016	Electrorefiner Stripped Cadmium				
	Lead/Cadmium Metal Waste	3150	AW-W022	Electrorefiner Insolubles with Cadmium				
Debris Waste—S5000	Lead/Cadmium Metal Waste	---	IN-M004	Electrorefiner Stripped Cadmium				
	Lead/Cadmium Metal Waste	---	IN-M005	Electrorefiner Insolubles with Cadmium				
	Uncategorized Metal	3100	IN-W260A	Inorganic Process Residues		040		
	Uncategorized Metal	5100	IN-W280	Metal Debris		803	1	
	Uncategorized Metal	5100	IN-W287	Metal Debris		101		
	Uncategorized Metal	5100	IN-W294	Metal Debris	ID 217C	481	2	Metal
	Uncategorized Metal	5100	IN-W296	Metal Debris	ID 217C	480	2	Metal
	Uncategorized Metal	5100	IN-W298	Metal Debris	ID 117	320	2	Metal
	Uncategorized Metal	5100	IN-W300	Metal Debris	ID 117	117	2	Metal

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Uncategorized Metal	---	LA-W001	Mixed Metal Scrap and Incidental Combustibles	LA 125A	001	3	
	Uncategorized Metal	---	LA-W005	Noncombustible Scrap	LA 117A; 118A	005 006	2	
	Uncategorized Metal	---	LA-W009	Metal Waste from Gloveboxes and Equipment				
	Uncategorized Metal	---	LL-W018	Combined Metal Scrap and Incidental Combustibles	LL 125	003	3	
	Uncategorized Metal	5112	RF-W011	Metal/TRM	RF 117	480 481	2	Metal
	Uncategorized Metal	5190	RF-W037	Heavy Metal (non-SS)/TRU	RF 117	320	2	Metal
Debris Waste—S5000	Uncategorized Metal	---	RL-M001	TRU Mixed Inorganic Debris with Mercury				
	Uncategorized Metal	---	RL-M002	TRU Mixed Inorganic Debris Metals without Mercury				
	Uncategorized Metal	---	RL-M003	TRU Mixed Inorganic Debris Metal with Corrosives				
	Uncategorized Metal	---	RL-M008	TRU Mixed Inorganic Debris Metals without Mercury				
	Uncategorized Metal	---	RL-M021	TRU Mixed Inorganic Debris PCBs with Mercury				
	Uncategorized Metal	6200	AW-W018	Sodium-TRU				

TABLE C-1 (Continued)
WASTE IDENTIFIERS CROSS-CORRELATION

Summary Category Group	Waste Matrix Code Group	Waste Matrix Code	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	IDC	Type	Waste Category
	Uncategorized Metal	6200	AW-W019	Sodium Potassium-(NaK)-TRU				
	Uncategorized Metal	5100	AW-W021	Metal Debris				
	Uncategorized Metal	---	IN-M003	Element Hardware FCF Waste				
	Uncategorized Metal	3100	IN-W260B	Inorganic Process Residues		040		
	Uncategorized Metal	5190	IN-W322	Sample Fuel		154		
	Uncategorized Metal	---	LA-WR01	Mixed Metal Scrap and Incidental Combustibles				
	Uncategorized Metal	---	LA-WR05	Noncombustible Scrap				

^a Waste stream unique identifications (ID) are taken from the U.S. Department of Energy (DOE), 1995, "Waste Isolation Pilot Plant Transuranic Waste Baseline Inventory Report," [CAO-94-1005](#), Rev. 1, U.S. Department of Energy, Albuquerque, New Mexico.

^b TRUCON = TRUPACT-II Content

**TABLE C-2
 TRU MIXED WASTE CHARACTERIZATION INFORMATION
 CONTACT-HANDLED TRANSURANIC WASTE**

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	AL-W005	Solidified Aqueous Liquids/Slurries ^c		This waste stream will be generated during the remediation of a glovebox that has been used for plutonium (Pu) and other transuranic research. The glovebox continues to be used for transuranic research. Some of the contents of the glovebox will become mixed transuranic (MTRU) waste. It has not yet been determined what volume will be MTRU and what will be TRU. Isotopes that are known to be in the glovebox are: Pu-239, Pu-240, Pu-242, Np-237, Pa-233, U-235, U-236, and U-238. Concentrations of the TRU components range from 1 part per million (ppm) to 2,300 ppm in various concentrations of nitric acid. Uranium concentrations range from 0.1 ppb to 407,770 ppm. Note: This stream may contain Toxic Substance Control Act (TSCA) waste at unknown levels.	d D004 D005 D006 D007 D008 D010 D011
	Solidified Inorganics	IN-W157	Solidified Process Residues	ID 213	This waste comes from the Rocky Flats Plant (RFP). It contains alcohols and organic acids such as ethylene diamine tetra acetic acid (Versenes) set in portland and magnesia cements.	d D006 D008 F001 F002 F003
	Solidified Inorganics	IN-W166	Solidified Process Residues	ID 114	Solid inorganic process solution waste consists of cemented inorganic particulates of sludge-like (not chemically precipitated) wastes from Pu recovery operations.	D008 F001 F002 F003
	Solidified Inorganics	IN-W177	Solidified Process Residues		This waste comes from Mound Laboratory. It consists of caustic waste and neutralized waste liquids, adsorbed onto a clay called Florco [®] .	d

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	IN-W179	Solidified Process Residues		This waste comes from Mound Laboratory. The waste consists of shower water, decontamination water, cooling water, and some acids and caustics that have been solidified in portland cement.	d D006 D007 D008 D009 D010 D011 F001 F003 P015
	Solidified Inorganics	IN-W181	Solidified Process Residues	ID 211A	This waste is from RFP. The waste consists of sludge from laundry operations that have been cemented in portland. The cement is described as a poor grade.	d D006 D007 D008 D009 F001 F002 F003 P015
	Solidified Inorganics	IN-W188	Solidified Process Residues	ID 211A	This waste is from RFP. The waste consists of sludge from floor drains in a Pu process facility that have been cemented in portland cement, described as poor grade.	d D006 D007 D008 D009 D022 D028 F001 F002 F003 P015

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	IN-W216	Solidified Process Residues	ID 211A	The waste stream generated at RFP, consists of first- and second-stage sludges. Sludges were combined starting in 1979 to reduce the radiation levels of first stage sludge. Portland cement was added to absorb free liquids.	d D005 D006 D007 D008 D009 D011 D022 D028 F001 F002 F003 P015
	Solidified Inorganics	IN-W220	Solidified Process Residues	ID 111	This waste includes waste generated at Argonne National Laboratory-East (ANL-E) and solid wet sludge from RFP. The ANL-E waste is derived from research activities performed in a laboratory environment. The waste includes concrete and laboratory apparatus. The RFP solid wet sludge is cemented or dewatered sludge precipitated from aqueous waste treatment processes. Soils that are not contaminated with or by chemicals are also included.	d D004 D005 D006 D007 D008 D009 F001 F002 F003 P015
	Solidified Inorganics	IN-W221	Absorbed Aqueous Liquids	ID 113	Solid laboratory waste consists of cemented or absorbed neutralized aqueous laboratory waste.	d F003

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	IN-W222	Solidified Process Residues	ID NYD	This waste stream, generated at RFP, consists of sludge from the incinerator off-gas system, recovery building filter plenums, pumps, etc. Portland cement is added to absorb free liquids. The sludge may contain a limited number of surgical gloves.	d D006 D008 F001 F002 F003
	Solidified Inorganics	IN-W228	Solidified Wastewater Treatment Sludges	ID 211A	This waste stream, generated at RFP, consists of wet sludge from treatment of all other plant radioactive and/or chemical contaminated wastes and further treatment of the first stage effluent. Some pre-1973 wastes may include non-sludge wastes such as electric motors, mercury and lithium batteries, bottles of liquid chemicals, and small amounts of mercury in pint bottles. Portland cement was added to absorb the residual liquids.	d D005 D006 D007 D008 D009 D011 D022 D028 F001 F002 F003 P015
	Solidified Inorganics	IN-W332	Solidified Process Residues		This waste comes from the Battelle Columbus Laboratories. It is a turco soap decontamination solution (used to decontaminate glove boxes from a Pu laboratory) that is solidified in a plaster-of-paris.	e

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	IN-W347	Absorbed Aqueous Liquids		This waste comes from ANL-E. It consists of liquids adjusted to pH 10 using NaOH, which are then absorbed in vermiculite.	e
	Solidified Inorganics	LA-W002	Solidified Aqueous Waste,	LA 111A; 211A	Solidified aqueous waste, cemented sludge.	d
	Solidified Inorganics	LA-W003	Dewatered Sludge.	LA 111B; 211B	Dewatered sludge from Pu recovery operations.	D004
	Solidified Inorganics	LA-W006	Cemented Process Residues	LA 114A	Cemented process residues derived from decontamination activities.	D007
	Solidified Inorganics	LL-W019	Solidified Waste	LL 111	50 to 90% of this waste matrix consists of liquids solidified in 1- to 5-gallon (gal) plastic containers using portland cement or Aquaset [®] for the water-based liquids and Envirostone [®] or Petroset [®] for the oil-based liquids. The remainder consists of glovebox waste.	D040 F002
	Solidified Inorganics	MD-W002	Absorbed Aqueous Liquids ^c		TRU waste from PP-113, R-140, R-149. Note: This stream may contain TSCA waste at unknown levels.	e
	Solidified Inorganics	OR-W042	Inactive Storage Tank Contents—MTRU Sludge ^c		The waste stream is comprised of MTRU sludge that has settled and separated from wastewater that has been stored in large underground storage tanks. The waste is a product of past operations at Oak Ridge National Laboratories (ORNL) involving various nuclear research and radioisotope fabrication processes. Note: This stream may contain TSCA waste at unknown levels.	D006 D007 D008 D009
	Solidified Inorganics	PA-W014	Solidified TRU Waste Liquids		Aqueous Slurries—Basic. This stream is generated from the shutdown of the neptunium/technetium recovery system.	d

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	PA-W015	TRU Solid		Other inorganic sludges generated from the shutdown of the neptunium/technetium recovery system	D007
	Solidified Inorganics	PA-W015A	TRU and Technetium Waste		Other wastewaters. This stream is generated from the shutdown of the neptunium/technetium recovery system.	e
	Solidified Inorganics	RF-M001	Solidified Process/TRM	RF 114	This waste stream represents the solidified final form of all particulate and sludge-type materials. Particulates and sludge-type materials are immobilized with portland cement. The cemented wastes are cast into 1-gal molds and allowed to cure prior to packaging. This is the final waste form for Firebrick, Pulverized or Fines/TRM, Incinerator Ash/TRM, Particulate Sludge/TRM, and Sand, Slag, and Crucible/TRM.	d D004 D005 D006 D007 D008 D009 D010 D011 D018 D019 D035 D040 F001 F002 F003 F005

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	RF-W010	Solidified Aqueous Sludge/TRM	RF 111	This waste stream consists of aqueous sludge from wastewater treatment mixed with 30% portland cement. The waste is generated as a result of process wastewater treatment in Building 374 and 774. Aqueous sludge is produced by vacuum filtration of precipitated solids from pretreated aqueous waste slurry. Untrapped solids are skimmed off the surface of the filter medium of the rotating drum as wet sludge. The precipitated solids are chiefly hydroxides with pH of 10 to 12. The final waste form is obtained by mixing the wet sludge with approximately 30% portland cement. RFP has several drums of aqueous sludge that were returned by Idaho National Engineering Laboratory (INEL). These old drums were packaged by alternating the layers of cement and wet sludge or by adding cement to the top and bottom of a drum containing wet sludge.	D006 D008 F001 F002 F005
	Solidified Inorganics	RF-W038	Solidified Laboratory Waste/TRM	RF 113	This waste stream is liquid waste solidified with portland cement. This waste consists of waste liquids from the analytical laboratories, research and development laboratories, and maintenance shops that are packaged and sent to Building 774 for immobilization with portland cement and absorbent cement. These are wastes which are incompatible with the process collection system and the liquid waste treatment plant. Acidic wastes are neutralized before immobilization. Immobilization is done in 55-gal drums. Approximately 21 gal of waste are added to each drum prior to storage.	D007

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	RF-W040	Incinerator Ash/TRM		This waste stream was previously named "fluidized bed incinerator ash (TRU)-mixed." Ash is generated from operation of a fluidized bed incinerator in Building 776 or an incinerator in RFP Building 771. The incinerator was used to burn office trash, combustible waste generated in process areas, combustible oils from refrigeration units, diesel fuel, and crank case oils. The oil had been accumulated as a low-level mixed waste. Fluid bed incinerator ash was packaged in 55-gal drums lined with a rigid polyethylene liner and one bag liner. It is a portion of the waste stream entitled "fluidized bed incinerator ash/LLW mixed" in the inventory report. The ash normally assays as low-level waste (LLW) but this portion was found to be TRU.	D004 D005 D006 D007 D008 D009 D010 D011 F001 F002 F005
	Solidified Inorganics	RF-W059	Sand, Slag, and Crucible/TRM		This waste includes unpulverized slag, unpulverized sand and crucible, unpulverized sand, slag and crucible, sand slag and crucible heel, sand from button breakout, pulverized sand slag and crucible, and pulverized slag and crucible. This waste is generated during the reduction of Pu tetrafluoride to Pu metal. Its composition includes magnesium oxide sand, crucible, calcium metal, and stainless steel (SS).	d D007
	Solidified Inorganics	RF-W063	Miscellaneous TRM		As result of the shutdown of Pu operations at RFP in November 1989, several hundred plastic bottles and several tanks of process liquids remained in storage in Buildings 371, 559, 771, and 779.	d D007
	Solidified Inorganics	RF-W065	Calcium Metal/TRM		This material is elemental calcium used in Pu reduction operations. Calcium metal pellets are mixed with Pu tetrafluoride during the reduction process as a pyrotechnic initiator.	d

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	RF-W068	Particulate Sludge/TRM		This waste stream was previously named "Particulate-Sludge/TRU Mixed (2)." This waste was generated from Pu recovery operations in RFP Building 771. The waste consists of incineration sludge, miscellaneous sludge, sludge from size reduction area, grit, and cemented miscellaneous sludge. Spent ion exchange resin waste is not included in this data. The waste is packaged in 55-gal drums with multiple bag liners. This waste consists of a variety of organically contaminated sludges with particulate fines of heavy metals that are TRU contaminated.	d D006 D007 D008 F001 F002 F005
	Solidified Inorganics	RF-W076	Process Residues/TRM		This waste stream was previously named "Particulate-Sludge/TRU Mixed (2)." This waste was generated from Pu recovery operations in RFP Building 771. The waste consists of low-purity oxide heel, incineration sludge, miscellaneous sludge, sludge from size reduction area, grit, soot, and soot heel. The waste is packaged in 55-gal drums with multiple bag liners.	d D006 D007 D008 F001 F002 F005
	Solidified Inorganics	RL-M005	TRU Mixed Homogeneous Solids with Mercury ^c		This waste stream consists primarily of homogeneous solids. Some of the containers contain organic debris (plastic, cellulose). Note: This stream may contain TSCA waste at unknown levels.	d D009
	Solidified Inorganics	RL-M032	TRU Mixed Inorganic Homogeneous Solids		This waste stream consists primarily of inorganic homogeneous solids (absorbents).	d D007 F003

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Solidified Inorganics	SR-W053	Ash		Ash from the RFP incinerator was sent to the Savannah River Site (SRS) for Pu recovery research purposes. It is stored in a satellite area in 235-F. The sample material was sent to SRS to investigate possible flow sheets for the recovery of Pu. The ash was classified as waste by the Colorado Court System, and the flow-sheet experiments were cancelled.	D004 D005 D006 D007 D008 D009 D010 D011 F001 F002 F005
Homogeneous Solids—S3000	Solidified Organics	IN-W167	Solidified Process Residues	ID 112	TRU solid organic waste consisting of cemented or absorbed organic liquids from production or laboratory processes.	D022 F001 F003
	Solidified Organics	IN-W174	Absorbed Aqueous Liquids		This waste comes from Mound Laboratory. It consists of acid liquids, mainly nitric, absorbed onto a clay called Florco [®] .	d
	Solidified Organics	IN-W309	Organic Setups ^c	ID 212	This waste stream contains liquid organic wastes generated at RFP. About 47% of the organic waste stream is lathe coolant, which is 60% Texaco Regal oil and 40% carbon tetrachloride. About 10% of the organic waste stream is trichloroethane. The remainder is other organic wastes. These liquid wastes were mixed with calcium silicate to form a grease or paste-like material. Note: This stream may contain TSCA waste at unknown levels.	D005 D011 F001 F002 F004 P015
	Solidified Organics	RF-W013	Solidified Organics/TRM	RF 112	This waste stream includes waste TRU organic fluids that are transferred to RFP Building 774 for cementation from Buildings 707, 776, and 777. The liquids are mixed with gypsum cement within 55-gal drums. The drum is lined with one or two bag liners with a rigid polyethylene liner. This waste stream includes cemented solids and organic sludges/particulates.	F001 F002

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Solidified Organics	RF-W069	Organic Resins/TRM	RF 126	This waste stream was previously named "Particulate-Sludge/TRU Mixed (2)." This waste was generated from Pu recovery operations in Building 771. It consists of unleached resin and leached resin. The waste is packaged in 5-gal drums with multiple bag liners. Final waste form for this waste stream is cemented resin.	d D006 D007 D008 F001 F002 F005
	Solidified Organics	RL-M017	TRU Mixed Organic Labpacks		This waste stream consists primarily of organic labpacks. Some of the containers contain inorganic debris (metals), organic debris (plastic, cellulose).	d F003
	Solidified Organics	RL-M018	TRU Mixed Organic Labpacks (State only)		This waste stream consists primarily of organic labpacks. Some of the containers contain organic debris (plastic, cellulose).	e
Homogeneous Solids—S3000	Solidified Organics	RL-M024	TRU Mixed Organic Labpacks with polychlorinated biphenyls (PCB) ^c		This waste stream consists primarily of organic labpacks. Some of the containers contain organic debris (plastic, rubber, cellulose), and PCBs.	d
	Solidified Organics	SR-W006	Organic TRU		Laboratory waste from Pu extractions generated in the Savannah River Technology Center (SRTC) 773-A Facility. Homogeneous, liquid, flammable, xylene-based chelating agent. TTA - Thenoyl trifluoroacetone.	d
	Salt Waste	IN-W311	Salt Waste		This waste was generated at the RFP.	D028 F001
	Salt Waste	IN-W312	Salt Waste	ID 124	Pyrochemical salt consists of used chloride salts from pyrochemical processes such as electrorefining, molten salt extraction or direct oxide reduction.	d
	Salt Waste	IN-W314	Salt Waste		This waste, generated at the RFP, consists of chunks of salt and ceramic.	F001

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Salt Waste	RF-W058	Miscellaneous Pu Recovery By-products/TRM	RF 124	This waste is generated during Pu recovery operations such as direct oxide reduction molten salt extraction, electrorefining, and salt scrub. Its composition includes mixed salts, a probable presence of magnesium, sodium and potassium metals and chromium. This waste consists of reactive molten and electrorefining (ER) salt residues from Pu purification and direct oxide reduction.	d D007

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Soils/Gravel—S4000	Soils	IN-W263	Contaminated Soils/Debris		This waste, generated at Mound Laboratory, consists of soils, including small rocks and pebbles, generated from cleanup of a leak. All soil waste was dry when packaged. A few waste boxes also include picks, shovels, metal cans, rubber gloves, booties, respirators, plastic, and possibly an air hammer and chisel.	d D006 D007 D008 D009 D010 D011
	Soils	RL-M007	TRU Mixed Soils without Mercury		This waste stream consist primarily of soils. Some of the containers contain organic debris (rubber, cellulosics, plastic) and inorganic debris (metal).	D007 D010
Debris Waste - S5000	Combustible	IN-W198	Plastic/Rubber Debris	ID 216C	The waste stream is from the RFP and consists of various types of plastics such as polyethylene (PE), polyvinyl chloride (PVC), teflon (TFE), and nonleaded rubber items. The waste may be bags, vials, bottles, sheeting, and surgical gloves. Some other combustible wastes such as respirator facemasks and paper may be included. Some small amounts of noncombustible wastes may also be present.	D008 D022 D029 F001 F002 F003 F005
	Combustible	IN-W202	Wood Debris	ID 216A	This waste stream is from the RFP and primarily consists of wood in the form of lumber, plywood, filter frames, and possibly ladders. Some of the items such as plastic sheeting, Kimwipes [®] , and other combustibles are also present. Plastic sheeting may have some paint coatings. Limited noncombustibles such as nails and sheetrock may also be included.	D008 F001 F002 F003
	Combustible	IN-W205	Combustible Debris	ID 216B	This waste stream from the RFP primarily consists of line- and nonline-generated combustible materials such as plastics, paper, empty PE bottles, booties, paper, plastic sheeting, and surgical gloves. The waste may be dry or damp. Limited amounts of noncombustibles may also be present.	D008 F001 F002 F003

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Combustible	IN-W250	Leaded Gloves/Aprons Debris	ID 123	Discarded leaded glovebox gloves and leaded aprons.	D008
Debris Waste - S5000	Combustible	IN-W252	Leaded Gloves/Aprons Debris	ID 123; 223A	This waste comes from RFP. It consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present.	D008 D022 D028 D029 F001 F002 F003 F005
	Combustible	IN-W254	Leaded Gloves/Aprons Debris	ID 223A	This waste comes from RFP. It consists of leaded rubber gloves and aprons. A limited amount of unleaded gloves, lead bricks, and lead sheeting may also be present.	D008 F001 F002
	Combustible	IN-W256	Leaded Gloves/Aprons Debris		This waste stream is generated at the Mound Laboratory. The waste consists of neoprene dry box (glovebox) gloves, neoprene, O-rings, and lead-lined gloves.	D008
	Combustible	IN-W325	Unknown Solids ^c		This waste stream was generated at Mound Laboratory and consists of classified parts.	e
	Combustible	IN-W327	Combustible Debris		This waste stream is from Mound Laboratory and consists of nonline generated combustible wastes such as plastic sheeting, paper, reagents, gloves (rubber and cloth), plastic bottles, wood, paper suits, and shoe covers. About 75% of the waste is compacted. The waste may be either dry or damp.	e

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Combustible	IN-W330	Plastic/Rubber Debris		This waste stream, generated at Mound Laboratory, consists of various types of plastics (PVC, PE, Tygon®, etc.) in the form of tubing, piping, sample vials, gaskets, manipulator boots, etc. Limited amounts of other combustible wastes may also be included. One drum contains liquid mercury. The wastes are primarily from decommissioning and decontamination (D&D) activities at the Pu processing and research buildings. Limited amounts of waste may be damp.	e
Debris Waste - S5000	Combustible	IN-W336	Combustible Debris		This waste stream, generated at Battelle Columbus Laboratories, contains such combustible items as wood, plastic suits, nylon reinforced plastic tent structures, shoe covers, rubber gloves, and air hose. The waste is from decontamination and deactivation of the Pu laboratory.	e
	Combustible	LA-W004	Combustible Waste	LA 116A	Combustible waste - paper, rags, plastic, rubber, etc.	D005
	Combustible	LL-M001	Research and Development Glovebox Waste	LL 116	The waste consists mostly of untreated dry solids such as tissues, paper, assorted plastics, glassware, ceramics, and metals. Portland cement or Aquaset® is used to solidify small amounts of water-based liquids; Envirostone® or Petroset® is used to solidify small amounts of solvents and oil-based liquids. The composition varies considerably, but it is predominantly organics (> 90% by weight).	d D006 D008 D009 D040
	Combustible	RL-M009	TRU Mixed Organic Debris with Corrosives		This waste stream consists primarily of organic debris. Some of the containers contain inorganic debris (metals) and soils.	d
	Combustible	RL-M010	TRU Mixed Organic Debris with Mercury		This waste stream consists primarily of organic debris. Some of the containers contain inorganic debris (metals, including mercury) and soils.	d D006 D009
	Combustible	RL-M011	TRU Mixed Organic Debris without Mercury		This waste stream consists primarily of organic debris. Some of the containers contain inorganic debris (metals) and soils.	d D007 D008

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Combustible	RL-M012	TRU Mixed Organic Debris/ Contaminated without Organics		This waste stream consists primarily of organic debris. Some of the containers contain inorganic debris (metals) and soils.	D019

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Combustible	RL-M013	TRU Mixed Organic Debris/ Contaminated with Organics		This waste stream consists primarily of organic debris. Some of the containers with organics contain inorganic debris (metals) and soils.	D019 F001 F002 F003 F004 F005
Debris Waste - S5000	Combustible	RL-M014	TRU Mixed Leaded Gloves/ Aprons with Mercury		This waste stream consists primarily of leaded gloves/aprons. Some of the containers contain inorganic debris (metals, including mercury), organic debris (plastic, rubber, cellulose), and soils.	d D005 D006 D007 D008 D009
	Combustible	RL-M015	TRU Mixed Leaded Gloves/ Aprons Metals without Mercury		This waste stream consists primarily of leaded gloves/aprons. Some of containers contain inorganic debris metals, without mercury), organic debris plastic, rubber, cellulose), and soils.	d D005 D006 D007 D008
	Combustible	RL-M016	TRU Mixed Leaded Gloves/ Aprons Metals/Organics without Mercury		This waste stream consists primarily of leaded gloves/aprons. Some of the containers contain inorganic debris metals), organic debris (plastic, rubber, cellulose), and soils.	D007 D008 D019
	Combustible	RL-M022	TRU Mixed Leaded Gloves/ Aprons PCBs with Mercury ^c		This waste stream consists primarily of leaded gloves/aprons. Some of the containers contain inorganic debris (metal), organic debris (plastic) and hazardous constituents including PCBs and mercury. Note: This waste stream may contain TSCA waste at unknown levels.	D006 D008 D009
	Combustible	RL-M023	TRU Mixed Resource Conservation and Recovery Act (RCRA) Organic Debris with PCBs ^c		This waste stream consists primarily of organic debris contaminated with PCBs. Note: This waste may contain TSCA waste at unknown levels.	d

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Filter	IN-W214	Composite Filters		This waste stream, generated at the Mound Laboratory, consists primarily of spun glass filters and fiberglass glovebox prefilters. The waste may include limited amounts of other noncombustibles.	d D009
Debris Waste - S5000	Filter	RF-W066	Filters & Media/TRM	RF 119	This waste stream was previously named "Filter Waste/TRU." Filter waste is generated from process operations throughout the RFP site. This waste consists of Ful-flo filters from the Building 771 incinerator, Ful-flo filters from nonincineration operations, absolute glovebox filters from nonacid contaminated operations, acid contaminated absolute glovebox filters, acid contaminated high-efficiency particulate air (HEPA) filters, nonacid contaminated HEPA filters, plenum prefilters, filter media, and processed filter media. Processed filter media is material which has been treated using portland cement to absorb moisture and neutralize acid contamination. Filter waste is packaged in 55-gal drums and metal standard waste boxes.	d D004 D006 D007 D008 D009 D010 D011 F001 F002 F005
	Filter	RF-W067	Cemented Filters/TRM	RF 119	This waste stream was previously named "Filter Waste/TRU." Filter waste is generated from process operations throughout the RFP site. Processed filter media is material that has been treated using portland cement to absorb moisture and neutralize acid contamination. Filter waste is packaged in 55-gal drums and metal standard waste boxes. Hazardous constituents originate in liquid and gaseous effluents from processing operations.	d D005 D006 D007 D008 D009 F001 F002 F003
	Graphite	IN-W272	Debris Waste	ID 115	Coarse graphite chunks.	F001 F002

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Graphite	IN-W275	Debris Waste		This waste stream, generated at the RFP, is similar to graphite molds. A graphite core is part of the shaped graphite mold to cast Pu metal. The graphite has broken into pieces, and some of the graphite has been scarfed or wire brushed to remove any above-discard deposits of Pu.	F001
Debris Waste - S5000	Graphite	IN-W276	Debris Waste	ID 215A	This waste stream, generated at the RFP, consists of graphite molds used in casting Pu metal. The waste may also include small amounts of surgical gloves. The graphite is in the form of broken mold pieces. Some of the graphite has been scarfed or wire-brushed to remove above-discard deposits of Pu.	D022 D028 F001 F002 F003 F005
	Graphite	RF-W060	Coarse Graphite/TRM	RF 115	This waste form includes scarfed graphite chunks and coarse graphite. This waste is a result of broken graphite molds from the classified weapons shape casting process.	D006
	Heterogeneous	IN-W169	Predominantly Combustible Debris	ID 216C	The waste stream is from RFP and primarily consists of line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, cloth overalls and booties, cardboard, wood, wood filters frames, and laundry lint. Some combustibles may be damp or moist. Limited amounts of noncombustibles such as glass, concrete, cement, lead glovebox gloves, batteries, and metal scrap may also be present.	D008 D022 D029 F001 F002 F003 F005
	Heterogeneous	IN-W170	Predominantly Combustible Debris		This waste is generated at ANL-E. The waste is derived from decontamination and disposal of facilities and ancillary systems (e.g., gloveboxes).	D004 D006 D008 F003

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
	Heterogeneous	IN-W171	Predominantly Combustible Debris		This waste is generated at ANL-E. The waste is derived from research activities performed in a research environment. The waste includes soft plastics, cardboard, rags, paper, and cloth from various processes. The waste is packaged in 55-gal drums or in standard waste boxes.	D004 D006 D008 F003

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	IN-W172	Predominantly Combustible Debris		This waste stream, generated at Bettis Atomic Power Laboratory, consists primarily of rags, gloves, plastic, paper, carbo-wax, filters, oil-contaminated absorbent (diatomaceous earth), and rubber. The waste stream may also contain noncombustible items.	F001 F002
	Heterogeneous	IN-W186	Predominantly Combustible Debris	ID 116	Combustible waste consists of cellulosic, plastic or cloth waste from various processes.	D008 F001 F002
	Heterogeneous	IN-W189	Predominantly Combustible Debris	ID 221A	This waste, generated at RFP, contains mainly Benelex [®] which is a dense, laminated, lignocellulose hardboard made from wood chips and particles. Benelex [®] is generally 2 inches (in.) thick. Some of the Benelex [®] has lead shielding attached to it. Metal hinges and angle iron strongbacks are also present. Plexiglas [™] is the other major constituent in the waste. The Plexiglas [™] thickness ranges from 2 to 4 in. Both the Benelex [®] and the Plexiglas [™] are combustible.	D008 F001
	Heterogeneous	IN-W197	Predominantly Combustible Debris	ID 216A	The waste stream is from the RFP and primarily consists of damp or wet line- and nonline-generated dry combustible materials such as paper, rags, plastics, surgical gloves, canvas, cardboard, wood, and rubber. Some combustibles may be damp or moist. Moisture content may range from damp to wet, and may include water, soaps, nitric acid, or caustic solutions. Limited amounts of noncombustibles such as glass, concrete, cement, leaded glovebox gloves, and metal scrap may also be present. These wastes are mostly from decontamination and cleanup work, and may be from any Pu area.	d D008 D022 F001 F002 F003 F005

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	IN-W203	Predominantly Combustible Debris		This waste stream, generated at Mound Laboratory, includes two different types waste depending on when the waste was generated. Prior to 1980 waste consisted of glovebox floor sweepings and rust. After 1980, waste may consist of large combustible waste such as plastic tanks, Plexiglas™ shielding and windows, wood, and fiberglass conveyor glovebox sections. Limited amounts of small combustibles such as shoe covers and surgical gloves are also included.	D009
	Heterogeneous	IN-W204	Predominately Combustible Debris		This waste stream is smaller combustible items from Mound Laboratory that fit into drums.	D008 D009
	Heterogeneous	IN-W225	Predominantly Combustible Debris	ID 221A	The waste, generated at RFP, contains mainly Benelex® which is a dense, laminated, lignocellulose hardboard made from wood chips and particles. Benelex® is generally 2 in. thick. Some of the Benelex® has lead shielding attached to it. Metal hinges, and angle iron strongbacks are also present. Plexiglas™ is the other major constituent in the waste. The Plexiglas™ thickness ranges from 2 to 4 in. Both the Benelex® and the Plexiglas™ are combustible.	D008 F001
	Heterogeneous	IN-W259	Heterogeneous Debris		This waste stream, generated at ANL-E, contains alpha hot cell waste. Noncombustible and combustible waste are segregated. Combustible wastes include: paper, plastic and PVC containers, rubber O-rings and gloves, rags, and Q-tips. Noncombustible wastes include: laboratory equipment, tools, fixtures, glassware, pipe, tubing, fitting, fasteners, firebrick, ferrous and nonferrous metal scraps and parts, and small electric motors. Sodium in the waste is reacted with ethyl alcohol, mixed with pelletized clay, and dried. Nitrates and oxidizing agents are neutralized or reduced, mixed with pelletized clay.	D008

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	IN-W265	Predominately Inorganic Nonmetal Debris	ID 121	This waste contains blacktop, concrete, reinforced concrete, cinder blocks, bricks, dirt and sand. Limited amounts of waste may be damp. A limited amount may contain combustibles such as coveralls and gloves. The waste is generated from cleanup of spills and leaks, process changes, maintenance, and D&D operations. Portland cement is added to containers that contain wet or damp waste.	F001 F002 F003 F004
	Heterogeneous	IN-W269A	Debris Waste		This waste stream, generated at INEL, contains laboratory waste from ANL-W including fluxwire, fission counters, analytical samples dissolved and absorbed on Oil-Dri, glassware, vials, miscellaneous waste from gloveboxes, dissolved pellets absorbed on Oil-Dri, enriched and normal U308 pellets, aluminum foil and capsules, TREAT [®] waste capsules, chlorinated ion exchange resins, Pu sources. Laboratory waste includes Kimwipes [®] , trash, glassware, dissolved samples absorbed in Oil-Dri, analytical samples, gloves, etc.	e
	Heterogeneous	IN-W271	Uncategorized Inorganic Process Residues ^e		This waste stream was generated at Mound Laboratory. The records at Mound Laboratory and at INEL do not agree on the content. The waste most likely is graphite crucibles and electrodes, with some containers of mercury.	D009
	Heterogeneous	IN-W281	Heterogeneous Debris		This waste stream, generated at the Mound Laboratory, consists of large, noncombustible wastes such as tanks (SS and tantalum), piping, ducts, conduit, electric motors, pumps, metallurgical presses, lathes, dissolvers, evaporators, furnaces, ladders, vacuum sweepers, 24- x 24- x 12-in. HEPA filters, fume hoods, gloveboxes, Plexiglas [™] glovebox windows, and floor tile. Limited amounts of combustible wastes (plastic tanks, fiberglass gloveboxes, plastic contamination control tents, etc.) are also included.	D005 D006 D007 D008 D009 D010 D011

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	IN-W283	Heterogeneous Debris	ID 225A	This waste stream, generated at the RFP, consists of piping, flanges, valves, tools, equipment, PVC piping, glassware (flasks, broken ion exchange columns, etc.), glass filters, leaded glovebox gloves, paper, and plastics. Wastes from renovations of the americium recovery line were shipped only in 1972 and 1973. Some of the containers are lead-lined.	d D008 F002 F003
	Heterogeneous	IN-W285	Heterogeneous Debris		This waste stream, generated at Battelle Columbus Laboratories, contains noncombustible items such as tools, crucibles, piping, valves, pieces of equipment, lead bricks, Plexiglas™, and filters.	D008
	Heterogeneous	IN-W289	Unknown Solids ^e		This waste is generated at ANL-E and RFP. The waste is derived from decontamination and disposal of facilities and ancillary systems.	D004 D005 D006 D007 D008 D009 F001 F002 P015
	Heterogeneous	IN-W291	Debris Waste		This waste stream, generated at ANL-E, contains combustible and noncombustible items such as paper, rags, rubber gloves, plastic bottles, glassware, small tools, balances, and empty metal cans. The waste is usually separated into combustible and noncombustible streams.	d F003

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	IN-W302	Unknown Solids ^c		This waste stream, generated at Bettis Atomic Power Laboratory, contains noncompressible and noncombustible items such as absolute filters, solidified chemical waste, contaminated metal equipment, furnace brick, and highly contaminated glovebox equipment. Metal scrap could include bars, sheet, fixtures, small equipment tools, etc. made of carbon steel, SS, inconnel, aluminum, copper, brass and zirconium. Chemical wastes include spent chemical solutions and associated solids from the isotope and isotopic dilution analysis of nuclear fuel specimens. The residues were neutralized before being either mixed with absorbent material solidified.	d F001 F002
	Heterogeneous	IN-W329	Heterogeneous Debris		This waste stream, generated at Mound Laboratory, consists of nonline generated noncombustible wastes such as tools, pipe, equipment, metal, glass, concrete, plaster, bricks, and dirt. Limited amounts of combustible wastes such as paper, rags, etc. are also included.	e
	Heterogeneous	IN-W334	Debris Waste		This waste stream, generated at Battelle Columbus Laboratories, contains a mixture of combustible and noncombustible items in roughly equal proportions. Combustible items include paper and paper products. Noncombustibles are primarily metal and some glass.	e
	Heterogeneous	IN-W345	Debris Waste		This waste stream, generated at INEL, consists of a plastic glovebox, a hydraulic pump containing oil, vacuum pump, centrifuges, tools, and experimental fuel capsules. The presence of hazardous materials is not known, but some absorbed oil is likely.	e

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	IN-W351	Debris Waste		This waste stream, generated at ANL-E, consists of glass bottles used to transport liquid wastes.	e
	Heterogeneous	NT-W001	Heterogeneous Debris, Uncategorized	NT 111; 116; 211;225	This waste stream consists of glovebox parts, laboratory trash, contaminated equipment, and solidified sludges. Real-time radiography has been performed on the waste to verify there are no free liquids present, with the exception of liquid in aerosol cans. Most of the waste is contact handled (CH) TRU waste; one and 3 drums are remote-handled (RH). The waste stream was generated at Lawrence Livermore National Laboratory, Livermore, CA (LLNL) and shipped to the Nevada Test Site (NTS) from 1974 until 1990. The waste was declared as potentially mixed TRU waste by the generator in April 1991.	d D006 D007 D008 D011 F001 F002 F003 P015
	Heterogeneous	OR-W044	CH TRU Heterogeneous Debris ^c	OR 125A; 125B	This waste stream consists of CH TRU waste which is classified as contaminated equipment, decontamination debris or dry solids. The physical form is solid. These wastes do not contain free or containerized liquids. Note: This stream may contain TSCA waste at unknown levels.	D006 D008 D009 D011
	Heterogeneous	OR-W045	CH TRU Uncategorized ^{c,e}		This waste stream consists of CH TRU waste which is not classified. The physical form is either solid, liquid, mixed (both solid and liquid), or unknown. Note: This stream may contain TSCA waste at unknown levels.	D006 D008 D009 D011
	Heterogeneous	OR-W047	CH TRU Heterogeneous Debris ^c		This waste stream consists of CH TRU waste which is classified as contamination equipment, decontaminated debris, or dry solids. The physical form is solid. Note: This stream may contain TSCA waste at unknown levels.	D006 D008 D009 D011
	Heterogeneous	RF-M002	Supercompacted Combustibles/TRM		RF-116C	This waste consists of cloth and paper products from cleanup of gloveboxes and spills, which has been supercompacted for volume reduction.

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	RF-W008	Soil & Cleanup Debris/TRM	RF 121	This waste stream is construction rubble generated during D&D activities. The waste consists of blacktop/concrete/dirt/sand. The waste is generated from construction/demolition within the Pu process buildings. The waste is usually packed in 55-gal drums with multiple bag liners, a fiberboard liner, and a rigid polyethylene liner. Also, the waste can be packaged in DOT 7A, Type A metal boxes which are lined with a fiberboard and PVC liner. Metals are considered to be potentially present in the rubble from demolition and cleanup activities. Solvents are potentially present from the materials used during decontamination.	D006 D007 D008 F001 F002 F005
	Heterogeneous	RF-W012	Combustibles/TRM	RF 116	The waste consists mainly of cloth and paper products from cleanup of gloveboxes and spills, involving hazardous solvents. The bulk of these wastes are packaged in 55-gal drums with one rigid polyethylene liner and several bag liners. In addition the waste may be repackaged into DOT 7A, Type A metal boxes which are lined with a fiberboard and PVC liner.	F001 F002 F005
	Heterogeneous	RF-W036	Firebrick, Pulverized or Fines/TRM	RF 122	This waste stream was previously named "Firebrick - Pulverized or Fines." This waste is generated from replacement of fire brick in the Pu recovery incinerator in RFP Building 771. The fire brick must be replaced periodically because of the Pu buildup. The fire brick is pulverized to facilitate Pu recovery. Material which assays below the economic discard limit is discarded as pulverized fire brick waste. The waste is packaged in 55-gal drums lined with a rigid polyethylene liner.	D004 D006 D007 D008 F001 F002 F005
	Heterogeneous	RL-M004	TRU Mixed Heterogeneous Debris (State only)		This waste stream consists primarily of heterogeneous debris (filters). Some of the containers contain organic debris (plastic).	e
	Heterogeneous	RL-M006	TRU Mixed Inorganic Homogeneous Solids without Mercury		This waste stream consists primarily of inorganic homogeneous solids. Some of the containers contain organic debris (rubber, cellulose).	d D019 F003

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	RL-M031	TRU Mixed Heterogeneous Debris (State only)		This waste stream consists primarily of heterogeneous debris. The waste is hazardous by state regulation.	e
	Heterogeneous	SA-W134	TRU Waste at Hot Cell Facility		Predominantly metal laboratory trash including saw blades, copper and brass fittings. Balance of waste is combustible laboratory trash including rubber gloves and Tygon [®] tubing. There are no liquids.	e
	Heterogeneous	SR-W026	Heterogeneous Debris		200 Areas (F and H Separations Facilities). This waste is primarily solids consisting of mainly booties, laboratory coats, floor sweepings, rags, labware, and other job control wastes. This waste is generated primarily through separation activities in the course of Pu production, includes small amounts of TRU waste from on-site laboratories.	d D004 D006 D007 D008 D009 D011 D018 D019 D022 D023 D024 D025 D026 P015

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	SR-W027	Heterogeneous Debris		200 Areas (F and H Separations Facilities). This waste is generated primarily through separation activities in the course of Pu production and includes small amounts of TRU waste from on-site laboratories. This waste stream is primarily solids consisting of booties, laboratory coats, floor sweepings, labware, rags, and other job control waste.	d D004 D006 D007 D008 D009 D011 D018 D019 D022 D023 D024 D025 D026 F001 F002 F003 F005 P015
	Inorganic Nonmetal	IN-W161	Ceramic/Brick Debris	ID 122; 222B	This waste contains whole and broken pieces of construction bricks, cinderblocks, and firebrick. Waste generated in the 1971 to 1973 period includes firebrick from the Pu recovery incinerator and related refractory development and from four boilers; cinderblocks and other brick from routine maintenance and from following the RFP fire. Waste generated since 1973 is mostly firebrick from Pu recovery operations. The firebrick generated since 1973 is a high-alumina, high-strength brick manufactured by Plibrico (Plicast 40 [®]). Some of the incinerator firebrick is scarfed to remove surface contamination and then leached with nitric acid to recover Pu.	F001 F002

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Inorganic Nonmetal	IN-W230	Inorganic Nonmetal Debris	ID 122	Insulation, firebrick, and concrete.	F001 F002
	Inorganic Nonmetal	IN-W240	Glass Debris	ID 118	Glass waste consists of discarded labware, windows, containers or raschig rings from various processes.	D008 D009 F001
	Inorganic Nonmetal	IN-W243	Glass Debris	ID 218B	This waste stream, generated at the RFP, consists of glass sample vials, bottles, lead-taped sample vials, ion exchange columns, dissolver pyrex laboratory glassware such as Pyrex™ flasks and beakers, glovebox windows (glass, Plexiglas™, leaded glass), and crushed and ground glass. The waste includes limited amounts of other noncombustibles such as metals, and limited amounts of combustible wastes. No sludges should be present although some glass vials may contain limited amounts of residual liquids.	D008 D029 F001 F002 F003 F005
	Inorganic Nonmetal	IN-W245	Uncategorized Unknown ^f	ID 225B	This waste stream, generated at the RFP, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Unleached rashig rings was used from 1971–79 as a separate stream and then combined with leached rashig rings. The rings are about 1.75 in. high and 1.5 in. in diameter, with a 0.25 in. wall thickness. The rings are heat and chemical resistant borosilicate glass. Some of the rings, which had above-discard amounts of Pu, were leached with nitric acid to recover the Pu and then rinsed with water, and dried. Some of the rings may be contaminated with small amounts of oil.	d D008 F001

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Inorganic Nonmetal	IN-W247	Uncategorized Unknown ^f	ID 218A	This waste stream, generated at the RFP, consists of boronated glass rings used to minimize neutron multiplication in liquid storage tanks. Unleached rashig rings was used from 1971–79 as a separate stream and then combined leached rashig rings. The rings are about 1.75 in. high and 1.5 in. in diameter, with a 0.25 in. wall thickness. The rings are heat and chemical resistant borosilicate glass. Some of the rings, which had above-discard amounts of Pu, were leached with nitric acid to recover the Pu and then rinsed with water, and dried. Some of the rings may be contaminated with small amounts of oil.	d D008 D028 D029 F001 F002 F003 F005
	Inorganic Nonmetal	IN-W249	Uncategorized Unknown ^f		This waste stream, generated at Mound Laboratory, consists mostly of whole and broken glassware and glass sample vials. The majority of the glass is Pyrex TM . Limited amounts of other noncombustibles may be present.	D009
	Inorganic Nonmetal	MD-M001	Asbestos Debris ^c		(24) Asbestos filters, (1) glass filter. Note: This waste may contain TSCA waste at unknown levels.	e
	Inorganic Nonmetal	RF-W026	Used Absorbents/TRM	RF 122	This waste stream was previously named "Spent Absorbent/TRU (Oil Dry)". This waste stream was not specifically identified in the Storage and Inventory Report prepared by RFP in fulfillment of Federal Facility Compliance Act requirements. This waste is the TRU fraction of the waste titled "Oil Dry/LLW Mixed" in the Inventory Report. Normally it is low-level waste (LLW) but occasionally some assays as TRU. Absorbents, usually vermiculite materials, which are used in the absorption, or absorption of any liquids as needed. One of the most commonly used absorbents is Oil Dr [®] . Spent absorbents are assumed to be radiologically contaminated. The waste is packaged in 55-gal drums lined with two polyethylene bags.	F001

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Inorganic Nonmetal	RF-W032	Ground Glass/TRM	RF 118	This waste stream is crushed fluorescent lights with some leached glass. Glass waste consists of crushed fluorescent lamps that come from the fluorescent lights used throughout the Pu and uranium processing areas, as well as ground leaded glass. Small amounts of leached glass may be mixed with the crushed fluorescent lamp waste. This glass waste is packaged in 55-gal drums that are lined with one fiberboard liner and two polyethylene bags.	D008
	Inorganic Nonmetal	RF-W052	Glass/TRM	RF 118	This waste stream is glass from D&D, labs, etc. This waste stream is made up of glass from analytical laboratories, recovery processes, ceramics, and glovebox windows. This waste stream was previously named "glass." This waste form has been characterized by toxicity characteristic leaching procedure (TCLP) analytical data and process knowledge. Ground glass is characterized by process knowledge and limited analytical data.	D005 D008 F001 F002
	Inorganic Nonmetal	RF-W056	Magnesium (Mg) Oxide Crucibles/TRM	RF 118	This waste stream includes any type or size of ceramic crucibles or liners including LECO crucibles. This waste consists of magnesium oxide crucible, magnesium oxide crucible fragments with reactive salts of calcium, magnesium, sodium, and/or potassium adhering to the surface and containing Pu residue. This waste stream was generated during Pu recovery using pyrochemical and electro-chemical processing. Waste is placed in 4-liter poly bottles and double plastic bagged or placed in 1 gal or 1 quart paint cans, then placed into 55-gal drums.	d D006
	Inorganic Nonmetal	RF-W057	Insulation/TRM	RF 122	This waste stream is contaminated insulation. The insulation is generated from construction and demolition on site. This waste was characterized using process knowledge for manifesting purposes in 1987 and 1989 to determine if any reportable quantities per 49 CFR 172 were present. These are spent solvents from degreasing of Pu or other metals.	F001 F002

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Lead/Cadmium Metal Waste	AW-M001	ALHC Upgrade Decon Debris		Waste packaged for WIPP containing: radioactive cadmium debris from CH-ANL-242T, solidified to meet WIPP-WAC requirement for particulate immobilization, and bags of lead-lined gloves were placed in the solidified drums to fill the void space.	D006 D007 D008
	Lead/Cadmium Metal Waste	AW-M002	Lead/Cadmium Metal Waste		This waste is typically lead lined gloves replaced at the Experimental Fuel Laboratory glovebox.	D008
	Lead/Cadmium Metal Waste	ET-M001	Hot Laboratory & Pu Facility D&D		1 lead shielding brick plus additional hot material.	D008
	Lead/Cadmium Metal Waste	RF-W029	Leaded Gloves/TRM	RF 123	This waste stream consists of leaded rubber gloves that are used on gloveboxes to reduce radiation exposure to personnel. Gloves that are damaged or that do not meet safety inspection requirements are replaced with new gloves and discarded as waste. The gloves are packaged in 55-gal drums lined with a rigid polyethylene liner and one bag liner.	D008
	Lead/Cadmium Metal Waste	RF-W041	Leaded Gloves-Acid Contaminated/TRM		This waste stream consists of leaded rubber gloves used in the glovebox system for Pu recovery operations in RFP Buildings 771 and 371. These gloves are contaminated with nitric acid and other acids when replaced and discarded as waste. The gloves are packaged in 55-gal drums lined with a rigid polyethylene liner and a bag liner. Leaded gloves as waste are currently characterized by process knowledge and sample analysis using the Extraction Procedure (EP) Toxicity Test.	D008

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Lead/Cadmium Metal Waste	RL-M019	TRU Mixed Elemental Hazardous Metals with Mercury		This waste stream consists primarily of elemental hazardous metals. Some of the containers contain inorganic debris (metals, including mercury), organic debris (plastic, rubber, cellulose), and soils.	d D005 D006 D007 D008 D009
	Lead/Cadmium Metal Waste	RL-M020	TRU Mixed Elemental Hazardous Metals without Mercury		This waste stream consists primarily of elemental hazardous metals. Some of the containers contain inorganic debris (metals without mercury), organic debris (plastic, rubber, cellulose), and soils.	D007 D008
	Uncategorized Metal	IN-W260A	Inorganic Process Residues		This waste stream, generated at Bettis Atomic Power Laboratory, contains solid binary scrap as powder, pellets, or rods. The material is made of ceramic based UO ₂ and ThO ₂ . Some kilorods or fuel rods constructed of fuel pellets within hollow zirconium tubes are also included.	e
	Uncategorized Metal	IN-W280	Metal Debris		This waste comes from Mound Laboratory. It consists of SS, carbon steel, and small amounts of aluminum-metal wastes in the form of valves, piping, wrenches, nuts, bolts, SS tubing, spatulas, pans, hotplates, ringstands, etc. Limited amounts of combustible and noncombustible waste also present from. Most of the waste is metal waste that is primarily from D&D operations. Some of the metals were leached with nitric acid, ultrasonically cleaned and dried to remove above-discard amounts of Pu.	D009
	Uncategorized Metal	IN-W287	Metal Debris		This waste stream, generated at ANL-E, contains glovebox sections and associated equipment from decontamination and decommissioning operations. The waste is predominantly noncombustible.	D008

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Uncategorized Metal	IN-W294	Metal Debris	ID 217C	This waste comes from RFP. It consists of the smaller pieces of the waste that have been washed with water to recover Pu.	D008 D022 F001 F002 F005
	Uncategorized Metal	IN-W296	Metal Debris	ID 217C	The waste comes from RFP. It consists of nonline- and line-generated wastes. The waste may be in the form of gloveboxes, glovebox windows, furnaces, lathes, drill presses, ducting, piping, angle iron, tanks, downdraft tables, part carriers, respirator filters, ultrasonic cleaners, control panels, electronic instrumentation, vacuum sweepers, pumps, motors, railing stairs, metal racks and trays, hotplates, empty metal produce and paint cans, carts, power tools (saws, drills, etc.), hand tools (wrenches, hammers, saws, chisels, gauges, etc.), chairs, desks, tables, typewriters, filing cabinets, crushed 55-gal drums, etc. The waste may also include limited amounts of combustible waste.	D008 D028 D029 F001 F002 F003 F005
	Uncategorized Metal	IN-W298	Metal Debris	ID 117	This waste comes from the RFP. It consists of used tantalum crucibles, funnels, funnel inserts, and pour rods.	D008 F001 F002
	Uncategorized Metal	IN-W300	Metal Debris	ID 117	Discarded metal.	D008 F001 F002 P015
	Uncategorized Metal	LA-W001	Mixed Metal Scrap and Incidental Combustibles	LA 125A	Mixed metal scrap and incidental combustibles.	d

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Uncategorized Metal	LA-W005	Noncombustible Scrap	LA 117A; 118A	Noncombustible scrap—small tools, cans, small equipment items, broken glass, etc.	D006
	Uncategorized Metal	LA-W009	Metal Waste from Gloveboxes and Equipment		Metal waste from gloveboxes and equipment	F001 F002 F005
	Uncategorized Metal	LL-W018	Combined Metal Scrap & Incidental Combustibles	LL 125	The waste consists mostly of metal scrap such as decommissioned gloveboxes, hoods, and other large equipment as well as laboratory trash. Typically, it will contain metal components, glassware, ceramics, plastics, paper, and wood. It will be mostly inorganic material but can vary widely.	D008
	Uncategorized Metal	RF-W011	Metal/TRM	RF 117	This waste includes items such as gloveboxes and machinery and empty containers. Items that are difficult to reduce to a size that would fit in a 55-gal drum are placed in DOT 7A, Type A metal boxes. These drums are lined with a rigid polyethylene liner, fiberboard liner and several bag liners. The boxes are lined with a fiberboard and PVC liner.	D008 F001 F002
	Uncategorized Metal	RF-W037	Heavy Metal (non-SS)/TRU	RF 117	Heavy (non-SS) metal waste is generated at various locations throughout the RFP. Heavy scrap metal is defined at RFP as metal elements above copper (Cu) on the periodic chart. Typically, these scrap metals consist of crucibles, funnels, rods and fixturing from several processes and production operations. Tantalum, tungsten, and platinum are examples of scrap metals at the RFP.	D008
	Uncategorized Metal	RL-M001	TRU Mixed Inorganic Debris with Mercury		This waste stream consists primarily of with mercury inorganic debris. Some of the containers contain organic debris (plastic and cellulose).	D006 D009
	Uncategorized Metal	RL-M002	TRU Mixed Inorganic Debris Metals without Mercury		This waste stream consists primarily of inorganic metal debris. Some of the containers contain organic debris (plastic, rubber, cellulose).	D008

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
CONTACT-HANDLED TRANSURANIC WASTE

CH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste—S5000	Uncategorized Metal	RL-M003	TRU Mixed Inorganic Debris Metal with Corrosives		This waste stream consists primarily of inorganic debris. Some of the containers contain organic debris (plastic, cellulose, rubber).	d
	Uncategorized Metal	RL-M008	TRU Mixed Inorganic Debris Metals without Mercury		This waste stream consist primarily of inorganic debris metals. Some of the containers contain organic debris (plastic, rubber, cellulose), and soils.	d D006 D007 D008
	Uncategorized Metal	RL-M021	TRU Mixed Inorganic Debris PCBs with Mercury ^c		This waste stream consists primarily of inorganic debris. Some of the containers contain organic debris (plastic, cellulose). The hazardous constituents include PCBs and mercury. Note: This waste may contain TSCA waste at unknown levels.	D006 D008 D009

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
REMOTE-HANDLED TRANSURANIC WASTE

RH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Homogeneous Solids—S3000	Solidified Inorganics	IN-W146	Uncategorized Inorganic Sludges		Ten drums of TRU mixed waste sludge was generated from cleaning of four catch tanks. Concentrations of radionuclides and hazardous waste vary from drum to drum.	D006 D007 D008 D009 D011
	Solidified Inorganics	OR-W046	Solidified Liquid Low Level Waste Tanks - Sludge ^c		This waste stream is comprised of liquid low-level waste (LLLW) that has been concentrated by evaporation and subsequently stored in large underground storage tanks. The waste is generated as relative dilute low level waste in various nuclear research and radioisotope fabrication processes. These streams are collected centrally and the volumes reduced in an evaporation facility. After the waste has been stored, it separates into phases. The resulting solids (sludge phase) is fairly homogeneous chemically and radiochemically. Because the sludge is a product of solids concentration, it has been classified as a TRU waste. Note: This stream may contain TSCA waste at unknown levels.	D006 D007 D008 D009
	Salt Waste	IN-M001	Electrorefiner Stripped Salts—Barium (Ba) & Cadmium (Cd)		Chloride salts containing residual amounts of Cd and Ba.	e

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
REMOTE-HANDLED TRANSURANIC WASTE

RH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Filter	AW-M003	TRU Waste Used Pre-filters		The waste consists of metal or wood framed pre-filters. Prefilters are 2 x 2 x 0.5 feet (ft). HEPA filters are 2 x 2 x 1 ft. Both types of filters have screen mesh covering high-efficiency filtering media. The concentrations of radioisotopes and RCRA toxic metals vary in each filter. These filters were generated from the decontamination of the analytical hot cell in 1993.	e
	Heterogeneous	AW-W020	TRU-Cd-Hot Cell Waste		This waste stream consists of metallic cadmium, soils, and associated cleanup materials (paper towels and cloth rags). The waste is contaminated with activation and fission products as well as with Pu. This waste stream is generated for Fuel Cycle Facility demonstration support experiments.	D006
	Heterogeneous	IN-M002	TRU-Cd-Hot Cell Waste		Metallic cadmium, salts, and cleanup material such as paper towels and rags.	e
	Heterogeneous	IN-W139	TRU Contaminated Lead Debris		This waste is lead contaminated lead debris from various sources. This debris includes lead pieces, galvanized sheet metal, copper/bronzeware, silicon, impregnated fiberglass, paper, HEPA filters, duct, etc.	D008
	Heterogeneous	IN-W269B	Debris Waste		This waste stream, generated at Idaho National Engineering Laboratory, contains laboratory waste from ANL-W including fluxwire, fission counters, HEDL samples, analytical samples dissolved and absorbed on Oil-Dri, glassware, vials, miscellaneous waste from gloveboxes, dissolved pellets absorbed on Oil-Dri, enriched and normal U-308 pellets, aluminum foil and capsules, TREAT [®] waste capsules, chlorinated ion exchange resins, Pu sources. Laboratory waste includes Kimwipes [®] , trash, glassware, dissolved samples absorbed in Oil-Dri, analytical samples, gloves, etc.	e

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
REMOTE-HANDLED TRANSURANIC WASTE

RH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Heterogeneous	IN-W323	Predominantly Combustible Debris		This waste stream was generated at ANL-W and at INEL. Most of the waste is organic and combustible materials including paper, wood, PVC and plastic containers and items, rubber gaskets and gloves, leather, rags, towels, Q-tips, tubing, filter media, abrasive media and metal pieces. Small residuals of moderators and fuel are trapped on the filters. Drums of CH waste are stored at the TRU Storage Area (TSA). Drums of RH waste are stored at the Intermediate Level TRU Storage Facility (ILTSF).	D008
	Heterogeneous	OR-W040	RH TRU Heterogeneous Debris ^c		This waste stream consists of RH TRU waste which is classified as contaminated equipment, decontamination debris or dry solids. The physical form is solid. Note: This stream may contain TSCA waste at unknown levels.	D006 D008 D009 D011
Debris Waste - S5000	Heterogeneous	RL-M201	Projected RH-MTRU Waste		The waste includes failed and obsolete equipment or material, including tanks, pumps, agitators, ovens, heaters, hoods, jumpers, and accessories. Some waste will contain wood, plastics, paper, rubber, and soils.	e
	Lead/Cadmium Metal Waste	AW-W016	Electrorefiner Stripped Cadmium		This waste stream consists of cadmium dispersed in a copper alloy matrix. This waste stream will be generated from the electrorefiner station in the ANL-Fuel Cycle Facility.	D006
	Lead/Cadmium Metal Waste	AW-W022	Electro Refiner Insolubles with Cadmium		This waste stream consists of cadmium metal with other heavy metals and "mable" metals (that is, they are not reactive in the FCF electrorefining process). This waste stream will be generated from the electrorefiner station in the ANL-W Fuel Cycle Facility Integral Fast Reactor demonstration. This waste stream includes inorganic sludges/particulates.	D006
	Lead/Cadmium Metal Waste	IN-M004	Electrorefiner Stripped Cadmium		Encapsulated waste cadmium metal.	e

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
REMOTE-HANDLED TRANSURANIC WASTE

RH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Lead/Cadmium Metal Waste	IN-M005	Electrorefiner Insolubles with Cadmium		Cadmium and other heavy metals.	e
	Uncategorized Metal	AW-W018	Sodium - TRU		Sodium is used as a primary and secondary coolant for the EBR-II Reactor. Waste sodium metal is a hazardous constituent of the TRU waste stored at the ANL-W Radioactive Scrap and Waste Facility (RSWF). Waste at RSWF is RH. This waste is generated during maintenance and operational activities. The sodium typically coats waste metal equipment, experiments and components removed during reactor operations and maintenance activities.	d
	Uncategorized Metal	AW-W019	Sodium Potassium-(NaK) - TRU		Sodium potassium alloy is used as a coolant for some components of the EBR-II reactor. Waste NaK metal is stored at the ANL-W RSWF. The RH NaK waste at the RSWF is contained in SS capsules or tubing and placed inside carbon steel waste cans which are then placed in SS outer cans. The entire package is then stored in RSWF storage liners (carbon steel soil storage vaults). The NaK is generated during maintenance and operational activities. NaK waste is in canisters with TRU waste metal pieces and rods from reactor experiments.	d
	Uncategorized Metal	AW-W021	Metal Debris		This waste stream consists of metal, and of EER N fuel elements. This waste stream will be generated from the "Element Chopper" station in the ANL-W Fuel Cycle Facility demonstration.	D005 D006
Debris Waste - S5000	Uncategorized Metal	IN-M003	Element Hardware FCF Waste		Small pieces of SS from nuclear fuel.	e
	Uncategorized Metal	IN-W260B	Inorganic Process Residues		This waste stream, generated at Bettis Atomic Power Laboratory, contains solid binary scrap as powder, pellets, or rods. The material is made of ceramic based UO ₂ and ThO ₂ . Some kilorods or fuel rods constructed of fuel pellets within hollow zirconium tubes are also included.	e

TABLE C-2 (CONTINUED)
TRU MIXED WASTE CHARACTERIZATION INFORMATION
REMOTE-HANDLED TRANSURANIC WASTE

RH TRU Waste Summary Category Group Description	Waste Matrix Code Group	Waste Stream Unique ID ^a	Waste Stream Name	TRUCON ^b Code	Waste Description (WTWBIR) ^a	EPA Code
Debris Waste - S5000	Uncategorized Metal	IN-W322	Sample Fuel		Waste consists of actinide neutron sources, a tadrum needle, small vials of fuel, and metal containers of experimental fuel capsules.	e
	Uncategorized Metal	LA-WR01	Mixed Metal Scrap and Incidental Combustibles		Mixed metal scrap and incidental combustibles.	e
	Uncategorized Metal	LA-WR05	Noncombustible Scrap		Noncombustible scrap—small tools, cans, equipment items, broken glass, etc.	e

^aWaste stream unique identifications (ID) and waste descriptions are taken from the U.S. Department of Energy (DOE), 1995, "Waste Isolation Pilot Plant Transuranic Waste Baseline Inventory Report," CAO-94-1005, Rev. 1, U.S. Department of Energy, Albuquerque, New Mexico. The WTWBIR contains the most complete description information available at this time. Hazardous contents listed for individual waste streams are subject to verification through the WIPP Generator/Storage Site Waste Screening and Acceptance Audit Program (Appendix C8).

^bTRUCON = TRUPACT-II Content

^cWaste streams with unknown levels of TSCA waste, PCBs, or asbestos will have to meet WAP acceptability criteria.

^dAlthough waste generators have previously indicated that some waste streams may have had the potential for reactivity, ignitability, or corrosivity (based on known waste generating processes), the final waste form accepted for disposal at the WIPP facility would not be permitted with these characteristics.

^eEPA hazardous waste codes have not been reported by the generators at this time. These wastes will be subjected to the characterization requirements of this WAP prior to acceptance. These may or may not actually be TRU mixed wastes but are retained in the table for completeness.

^fClassification of waste matrix code group is based on the waste stream being at least 50 percent of the indicated waste form (e.g., solidified inorganics). Therefore, a cement matrix containing trace quantities of F-listed solvents is classified as solidified inorganics.

NOTE: The use of trade names or brand names in this table does not constitute endorsement by the DOE or its contractors.