Field Name	Description
NOTE: ***Bolded*** *field names use value drop lists*	Ensure that value drop lists are used accordingly. Values used, which are not found in the drop lists, will not be accepted.

Waste Streams worksheet

Acceptance Comments	Any pertinent comments (if applicable) about how this waste stream plans to meet any unmet requirements of Waste Isolation Pilot Plant (WIPP) Waste Acceptance Criteria (WAC) and New Mexico Environment Department (NMED) WIPP Hazard Waste Facility Permit (HWFP), among other regulatory requirements. This includes identification of the absorbents and/or solidification products the site used on each applicable waste stream. (limit 4000 chars)
Accessibility Comments	Any pertinent description (if applicable) of how accessible (retrievable) the waste currently is (see Accessibility Level). (limit 4000 chars)
Accessibility Level	Suggested Guidelines: **Easy**: Readily retrievable (i.e. above ground) **Moderate**: Currently buried, but packaged in WIPP-approved containers **Difficult:** Currently buried, and/or not packaged in WIPP-approved containers, requiring further processing.
AK Report(s)	Acceptable Knowledge (AK), AK Sufficiency Report number(s), or Process Knowledge (PK) that include this waste stream. If you know that a report status is draft, list it as such. (limit 100 chars)
Assay Year	The most recent year in which the containers in a waste stream were assayed. If the radionuclides have been decay-corrected, indicate the corrected year. For waste streams reporting only projected waste, use the initial projected generation year. This year should be representative of the radionuclide activities reported.
Cements Used for Solidification	State(s) of cements used for solidification of liquid / sludge waste **unreacted** (dry, powder form) **reacted** (solidified) **both** (partially solidified or layered) **none** If present, make sure that cement is listed on the Waste Material Parameters worksheet.
Classified Present?	Is classified waste anticipated to be present in the waste stream? (**Yes/No/Unknown**)
Current Form Container Dose Rate (mrem/hr)	The average surface dose rate in mrem/hr of the containers in the waste stream as currently packaged. Value must be greater than or equal to 0 (zero). Contact handled (CH) <200 mrem/hr. Remote handled (RH) ≥200 mrem/hr. Only use 199 for CH and 201 for RH, if unknown.

Field Name	Description
Defense Determination	**Defense-Related:** A Defense Determination has been made. **Pending Determination:** A Defense Determination has been initiated but not yet made. **Unknown: Unknown**
Final Form Container Dose Rate (mrem/hr)	The average surface dose rate in mrem/hr of the containers in the waste stream as they will be packaged when shipped to WIPP. Value must be greater than or equal to 0 (zero). Contact handled (CH) <200 mrem/hr. Remote handled (RH) ≥200 mrem/hr. Only use 199 for CH and 201 for RH, if unknown. **Note:** Must conform to "Final Form Handling" definition as stated below.
Final Form Handling	The handling designation of the waste stream when it will be shipped to WIPP. Contact handled (**CH**) or Remote handled (**RH**) **Notes**: 1) Must conform to "Final Form Container Dose Rate" field, and 2) When using the shielded container for RH, the final form surface dose will be recorded as less than 200 mrem/hr, but the final form handling will be RH.
Hazardous Material Comments	Any pertinent comments (if applicable) about the hazardous materials present in the waste stream. (limit 4000 chars)
Historical Packaging Comments	Any pertinent description (if applicable) about how the waste was historically packaged, if different from the current packaging configuration. (limit 4000 chars)
Management Comments	Any pertinent description (if applicable) of how the waste is being managed. List any issues and drivers that impact the management of the waste stream. (limit 4000 chars)
PCB Concentration	If polychlorinated biphenyls (PCB's) are present, the concentration level at which they exist, in parts per million (ppm). **<500**, **>=500**, or **Unknown**
PCB's Present?	Are PCB's present in the waste stream? (**Yes/No/Unknown**)
Percent Volume < 100 nCi/g	Estimated percentage of the waste stream's current form payload volume that is expected to be <100 nCi/g. Round the percent to a whole percent number (e.g., report 98% instead of 97.72359%).
Percent Volume Above Ground	The percentage of the waste stream's volume which is above ground (not buried). Round the percent to a whole percent number (e.g., report 98% instead of 97.72359%).
Percent Volume Dose Rate Between 100 and 1000 rem/hr	The percentage of the waste stream's total volume (in its final packaging configuration) that will have a surface dose rate between 100 and 1000 **rem/hr**. Round the percent to a whole percent number (e.g., report 98% instead of 97.72359%).
Percent Volume Generated Pre-1970	The percentage of existing (stored) waste stream volume that was generated prior to 1970. Round the percent to a whole percent number (e.g., report 98% instead of 97.72359%).

Field Name	Description
Radionuclide Comments	Any pertinent comments (if applicable) about the radionuclide inventory for the waste stream (e.g., If you report an isotope but not its daughter, explain why the daughter is not reported, same for an isotope in secular equilibrium). (limit 4000 chars)
Radionuclide Confidence	Confidence level of the radionuclide inventory measurements. **High**; performed under a WIPP certified program with WIPP certified equipment **Medium**; performed under a Non-WIPP certified program that used WIPP-approved methods/equipment **Low**; performed by Non-WIPP approved equipment, or process knowledge
Site	The site which currently stores or will generate the waste stream.
Source Category	General category of the processes that originally generated the waste.
Source Description	Any pertinent description (if applicable) of the processes that originally generated the waste. (limit 4000 chars)
Status	**WIPP-bound** = Waste Stream that appears to meet the requirements for emplacement into the WIPP as of the cutoff date. **Potential** = As of the cutoff date, waste stream that is not slated for emplacement into the WIPP due to: • TRU Determination is undetermined • Defense Determination is unknown • Exceeds regulatory restrictions • Incomplete data • Directed by DOE to move to potential
Storage Facility Comments	Any pertinent description (if applicable) of the facilities where the waste is currently stored. (limit 4000 chars)
Summary Category Group	Enter the Summary Category Group which describes the waste stream in its final form packaging configuration. **Note:** L1000, L2000, S9000, or X7000 are prohibited Summary Category Groups for disposal at WIPP and, if chosen, the waste stream will be a potential waste stream.
Treatment Required?	Will the waste stream have to undergo any further treatment process(es) prior to shipment to WIPP? (**Yes/No/Unknown**) • If Yes, complete Treatment Options worksheet.
TRU Waste Determination	**TRU** – The waste has been determined to be TRU. **Pending** TRU Determination – A TRU Determination has been initiated, but not yet made. **Undetermined** - Undetermined
VOC Comments	Any pertinent description (if applicable) about semi/volatile organic compounds (S/VOCs) in the waste stream. In particular, information about ignitable S/VOCs is requested. (limit 4000 chars)
VOC's Present?	Are S/VOCs present in the waste stream? (**Yes/No/Unknown**) **Note:** Identify applicable S/VOCs in the Hazardous Waste Numbers worksheet.

Field Name	Description
Waste Matrix Code Group	A single waste matrix code group that describes the physical and chemical properties of the waste in its final form packaging configuration. This should agree with the Summary Category Group assigned. When reporting the Waste Matrix Code Group, note that if you report L1000, L2000, S9000, or X7000 for the Summary Category Group, then you should report "Prohibited Waste" for your Waste Matrix Code Group. -If you report S3000 for the Summary Category Group, you will need to report "Solidified Organics," "Solidified Inorganics," or "Salt Waste." **Note:** The WIPP Hazardous Waste Facility Permit identifies a homogeneous solid as solidified organic, solidified inorganic, or salt waste.
Waste Stream Description	Any pertinent description (if applicable) of the waste stream. (limit 4000 chars)
Waste Stream ID	The Waste Stream ID as it shall be identified in the Annual Transuranic Waste Inventory Report (must begin with 2-letter Site Code. (limit 25 chars)
Waste Stream Name	Descriptive name of the waste stream (not the Waste Stream ID). (limit 100 chars).

Local IDs worksheet

Local ID	The Waste Stream ID as it is identified by the site, if different from Waste Stream ID. Enter only a single Local ID per cell. (limit 25 chars)

Radionuclides worksheet

Activity (Ci)	The total activity of **each** radionuclide, in curies (Ci), **for all containers in the waste stream**. If some of the containers in a waste stream don't have assay data then you must estimate their activity based on assay data from the other containers in the waste stream. Enter activity for stored waste only; unless the waste stream is projected only, in which case enter the estimated projected activity.
Radionuclide	Individual radionuclide that is measured on the waste stream (refrain from using isotopic distribution codes or material type).

Radionuclide Measurement Methods worksheet

Radionuclide Measurement Method	Individual Radionuclide Measurement Method that was used for the radionuclide inventory on the waste stream.

Waste Material Parameters worksheet

Mass (kg)	The total mass of **each** waste material, in kilograms (kg), **for all containers in the waste stream**. If some of the containers in a waste stream don't have waste material data, then you must estimate their mass based on mass data from the other containers in the waste stream. Enter mass for stored waste only; unless the waste stream is projected only, in which case enter the estimated projected mass. Do not include packaging material unless it is to become waste in the shipping container.

Field Name	Description
Waste Material Parameter	Waste material present in the waste stream. **Note:** If present, include cement in this list and indicate the state of the cement in the Waste Streams worksheet. Do not include concrete as cement.

Transportation History worksheet

Comments	Any pertinent comments (if applicable) about the historical Site(s) as it pertains to the waste stream, specific locations, etc. (limit 4000 chars)
Order	Chronological order of where the waste stream originated and shipped to. Originating Site should be listed as 1, and every subsequent site as 2, 3, 4,... including the current host Site, which should be last chronologically.
Site	Site where the waste stream has existed in its history

EPA Hazardous Waste Numbers worksheet

Concentration	Concentration of the hazardous constituent in the waste stream, if known.
Concentration Unit	Unit of concentration used
Hazardous Waste Number	EPA / RCRA Hazardous Waste Number, including any prohibited numbers on WIPP-bound waste streams, that have been applied to the final form of the waste stream

TRUCON Codes worksheet

TRUCON Code	TRUCON Code which applies to the final form of the waste stream.

Chemical Constituents worksheet

Chemical Constituent	Chemical Constituent (oxyanion, complexing agent, or other) which is present in the waste stream.
Other Chemical	Complete only when "Other: <specify>" is selected under “Chemical Constituent” Column. (limit 50 chars).
Stored Mass (kg)	Total mass (in kg) of the chemical in the stored waste.
Projected Mass (kg)	Total mass (in kg) of the chemical in the projected waste.

Treatment Options worksheet

Cause	The reason for applying the treatment process to the waste. (limit 50 chars)
Option	A treatment process that is planned to be applied to existing waste prior to shipment to WIPP. If the option is "Other: (specify)", specify the treatment to be used in the "Cause" box along with the cause for treatment.

Current Form Containers worksheet

Container Comments	Any pertinent comments (if applicable) about the Container Type listed (limit 4000 chars)
Container Type	Type of container currently being used or will be used to contain waste in the waste stream. (limit 50 chars). Report the containers as they are in your database.
Currently Stored Count	Number of waste containers of the listed Container Type that currently exist (have already been generated, and are not yet shipped) in the waste stream.

Field Name	Description
End Generation Year	The last year of projected waste generation, up to the end of 2050.
Internal Volume (m3)	Best estimate of the volume, in cubic meters, of actual waste within the container. If not known, then report the internal volume of the container in the Container Type category listed. In the case of an overpack use the innermost container volume (e.g., SWB with 4 55-gallon drums, the innermost container volume is 0.840 m3.)
Payload Volume (m3)	Internal volume of the outermost container, in cubic meters, of a single container in the Container Type category listed.
Percent Containers Needing Repacked	The percentage of existing containers of the listed Container Type on this waste stream that need to be repacked prior to shipment to WIPP (if >0%, also complete the Repack Causes worksheet). **Note:** All overpacks are considered repacks. Make sure the sum of "Percent Containers Needing Repack" and "Percent Containers Readily Shippable" is ≤ 100%. Round the percent to a whole percent number (e.g., report 98% instead of 97.72359%).
Percent Containers Readily Shippable	The percentage of existing containers of the listed Container Type on this waste stream that are **WIPP-certified** and **ready to be shipped** to WIPP. Round the percent to a whole percent number (e.g., report 98% instead of 97.72359%).
Projected Generation Count	Number of waste containers of the listed Container Type where the waste has not yet been generated, but is projected to be generated in the future (up to the end of 2050). This waste does not exist at the site in any form at the time of inventory collection except decontamination and decommissioning (D&D) waste that is not currently containerized. See the current TRU Waste Inventory Update Guidance and Instructions letter for additional information regarding D&D waste.
Repack Required?	Do any of the existing containers of this Container Type require repacking (or overpacking) prior to shipment to WIPP? (**Yes/No/Unknown**). Answer "Yes" if waste isn't in the final form container that will be shipped to WIPP. -If Yes, identify Percent Containers Needing Repacked and complete the Repack Causes worksheet.

Repack Causes worksheet

Cause	The reason for repacking (or overpacking) the waste. Use Repack Cause list on the worksheet for guidance on repack causes. (limit 50 chars)
Comment	Any pertinent comments (if applicable) about the repacking cause for the listed Container Type and waste stream. (limit 4000 chars)
Repacked Container Type	The type of container in which the waste will ultimately be shipped to WIPP (must be a WIPP approved container)

Field Name	Description
Waste Stream ID / Container Type	Container type currently being used to contain waste in the waste stream. (Should correspond to a Container Type listed in the "Current Form Containers" worksheet, where "Repack Required" is answered "Yes"). Repeat this value for every repack cause.

Final Form Containers worksheet

Container Comments	Any pertinent comments (if applicable) about the Container Type listed. Include any reduction/expansion factors that are used to determine the FF Currently Stored Count. (limit 4000 chars)
Container Type	Type of WIPP-approved container that will be used to contain waste for the waste stream at the time it is shipped to WIPP.
Currently Stored Count	Number of final form containers expected from currently stored waste.
End Generation Year	The last year of projected waste generation, up to the end of 2050.
Fill Factor	The average percentage of the waste container occupied by waste. See the current TRU Waste Inventory Update Guidance and Instructions letter for additional information and examples for calculating Fill Factor.
Projected Generation Count	Number of final form containers expected from projected waste (up to the end of 2050). Do not include projected waste beyond 2050 in this column. This waste does not exist at the site in any form at the time of inventory collection except D&D waste that is not currently containerized. See the current TRU Waste Inventory Update Guidance and Instructions letter for additional information regarding D&D waste.

Final Form Container Projected Generation worksheet

Comments	Any pertinent comments (if applicable) about the projected generation. (limit 100 chars)
Projected Count	Number of Final Form Containers expected to be generated in the year listed for the waste stream.
Waste Stream ID / Container Type	Container type for the waste stream that will be used to ship waste. (Should correspond to a Container Type listed in the "Final Form Containers" worksheet, where projected generation is reported). Repeat this value for every projected generation year.
Year	Future year in which waste generation is projected to occur (include years up to and beyond 2050, if available)

Traceability worksheet

Last Collection Waste Stream ID	A Waste Stream ID from the previous collection year that traces to a current Waste Stream ID. If a waste stream is split into two or more waste streams, the "parent" Waste Stream ID will be listed in the Last Collection Waste Stream ID and the "daughter" waste streams will be listed in the Current Waste Stream ID, as well as the "parent" waste stream, if applicable. If you received waste from another site, use the other site's Waste Stream ID in this field.

Field Name	Description
Deletions & Comments worksheet	
Comments	Any pertinent comments (if applicable) about why a waste stream has been deleted: **Note:** -If a waste stream has been shipped to WIPP, provide the waste stream ID that it was shipped under. -If the waste stream was determined to be non-TRU, state that the waste stream is non-TRU. -If the waste was moved to another waste stream, provide the waste stream ID(s) to which the waste was moved. (Ensure this occurrence is tracked in the traceability worksheet.) -Add to the Major Changes Worksheet, if applicable. (limit 255 chars)
Deleted Waste Stream ID	A Waste Stream ID that is no longer valid and should be deleted from the Comprehensive Inventory Database. This includes waste streams which have been rolled into other waste streams, no longer TRU, shipped, etc.
Major Changes worksheet	
Cause for the change	Brief pertinent description of why the change occurred
Major change	Explanation of the major change that affected the waste stream(s).
Waste Stream(s) affected	Waste stream(s) that were affected by the change.

	A	B	C	D	E	F
1	**Status**	**Site**	**Waste Stream ID**	**AK Report(s)**	**Waste Stream Name**	**Waste Stream Description**
3	WIPP-bound	SA: Sandia National Laboratories	SA-W134	CCP-AK-INL-021, Rev 3	CH TRU Project Generated Waste (PGW)	CH PGW TRU waste from repackaging RH
4	WIPP-bound	SA: Sandia National Laboratories	SA-W135	CCP-AK-SNL-500, Rev. 8	TRU Waste from SNL/NM - Remote Handled	Heterogeneous RH fuel pieces from accident scenarios R&D and
5	WIPP-bound	SA: Sandia National Laboratories	SA-W136	Not at this time	CH TRU Debris waste from Z-machine	CH debris waste from the Z-machine, Pu ICE experiments. Waste generated at
6	WIPP-bound	SA: Sandia National Laboratories	SA-W137	Not at this time	CH TRU solidified waste	Solidified PuNO3 sample used for instrumental analysis, Pu sources, and
7	WIPP-bound	SA: Sandia National Laboratories	SA-W138M	Not at this time	CH TRU sealed source	Sealed sources from instrumentation and on circuit boards.
8	WIPP-bound	SA: Sandia National Laboratories	SA-W139	Not at this time	D&D from AHCF	Filter and associated PGW from AHCF

	C	G	H	I	J	K	L
1	**Waste Stream ID**	**Current Form Container Dose Rate (mrem/hr)**	**Final Form Container Dose Rate (mrem/hr)**	**Final Form Handling**	**Summary Category Group**	**Waste Matrix Code Group**	**Source Category**
3	SA-W134	50	50	CH	S5000	Heterogeneous Debris Waste	R&D/R&D Laboratory Waste
4	SA-W135	18558	107	RH	S5000	Heterogeneous Debris Waste	R&D/R&D Laboratory Waste
5	SA-W136	0.1	0.1	CH	S5000	Uncategorized Metal Waste	R&D/R&D Laboratory Waste
6	SA-W137	0.3	0.3	CH	S3000	Solidified Inorganics	R&D/R&D Laboratory Waste
7	SA-W138M	0.13	0.13	CH	S5000	Heterogeneous Debris Waste	R&D/R&D Laboratory Waste
8	SA-W139	250	190	RH	S5000	Composite Filter Waste	Remediation/D&D Waste

	C	M	N	O	P	Q
1	**Waste Stream ID**	**Source Description**	**Defense Determination**	**TRU Waste Determination**	**Management Comments**	**Accessibility Level**
3	SA-W134	CH TRU generated during repackaging of RH	Defense-Related	TRU	Drums of CH TRU PGW waste, thought to be RH, but upon survey, were CH TRU. Requires	Easy
4	SA-W135	Waste consists of fuel pieces experimental vessels, and PGW waste	Defense-Related	TRU	Additional containers added to SA-W135 which are PGW waste. RH TRU waste from accident	Easy
5	SA-W136	Waste consists of manufactured containment vessels used to conduct experiments simulating	Defense-Related	TRU	This waste stream has been characterized by documented process knowledge in the form of a	Easy
6	SA-W137	Waste is from generators conducting research.	Defense-Related	TRU	Waste is stored in covered storage facilities in a property protected area.	Easy
7	SA-W138M	Wastes are Am-241 and Pu sealed sources	Defense-Related	TRU	Sources no longer needed with no pedigree. The TRU concentration is less than 100 nCi/g	Easy
8	SA-W139	Filter in the Auxiliary Hot Cell Facility. Is still in the hot cell, will be replaced in the future	Defense-Related	TRU	Future Newly Generated waste when filter is changed out at the AHCF	Easy

	C	R	S	T	U
1	**Waste Stream ID**	**Percent Volume Above Ground**	**Accessibility Comments**	**Storage Facility Comments**	**Percent Volume Generated Pre-1970**
3	SA-W134	100.0%		Currently stored at TA-III and TA-V	0.0%
4	SA-W135	100.0%		Currently stored at TA-V in a limited area, limited access building.	0.0%
5	SA-W136	100.0%		Waste is stored in bunkers in secure, limited access area.	0.0%
6	SA-W137	100.0%		Waste stored at TA III	0.0%
7	SA-W138M	100.0%		Stored at TA-III in a permitted facility	0.0%
8	SA-W139	100.0%		Still in use, not generated yet	0.0%

	C	V	W	X	Y	Z	AA
1	**Waste Stream ID**	**Historical Packaging Comments**	**Treatment Required?**	**Radionuclide Comments**	**Radionuclide Confidence**	**Assay Year**	**Classified Present?**
3	SA-W134	Packaged in 30-gallon drums inside 55-gallon drums and 744 box	No	Data from Dose-to-Curie measurements and gamma spectroscopy.	High	2015	No
4	SA-W135	Waste was not packaged compliantly, in FD casks, in shielded containers, and in experimental	No	Data from Dose-to-Curie measurements	High	2015	No
5	SA-W136	Waste is packaged with no layers of confinement.	No	Confidence level is low. The radiological characteristics were determined by	Low	2014	No
6	SA-W137	Waste has been neutralized and solidified under video/audio repackaging procedure, Pu source,	No	1.2 mCi of Pu nitrate, Pu sources, plus Am-241 sources	Low	2011	No
7	SA-W138M	Packaged in bags, 1, 5 and 20 gallon pails	No	Am-241 and Pu sources	Low	2011	No
8	SA-W139	Still in use, not packaged yet	No	Will have the same radionuclides as SA-W135, but will be lower Ci. However, this item is still in	Low	2017	No

	C	AB	AC	AD	AE	AF	AG	AH
1	**Waste Stream ID**	**Cements Used for Solidification**	**Percent Volume < 100 nCi/g**	**Percent Volume Dose Rate Between 100 and 1000 rem/hr**	**Hazardous Material Comments**	**PCB's Present?**	**PCB Concentration**	**VOC's Present?**
3	SA-W134	None	0.0%	0.0%	Waste stream is assigned HWN's per the AK Summary Report	No		Yes
4	SA-W135	None	0.0%	0.0%	Waste stream is assigned HWN's per the AK Summary Report	No		Yes
5	SA-W136	None	0.0%	0.0%	None	No		No
6	SA-W137	Both	0.0%	0.0%	None	No		No
7	SA-W138M	None	25.0%	0.0%	Possible silver backing and some lead	No		No
8	SA-W139	None	0.0%	0.0%	Unknown, no AK	No		No

	C	AI	AJ
1	**Waste Stream ID**	**VOC Comments**	**Acceptance Comments**
3	SA-W134		Drums are packaged compliantly and meet the WIPP WAC, 744 box will need repackaging.
4	SA-W135		Repackaged in 2014 and 2015 and meets the WIPP WAC
5	SA-W136	N/A	This waste stream meets the WIPP WAC
6	SA-W137	N/A	This waste was an aqueous standard, which has been neutralized and solidified per the packaging
7	SA-W138M	N/A	Will need repackaging into 55-gallon drum.
8	SA-W139	Not generated yet, No AK	Will be packaged during the replacement campaign

	A	B
1	**Waste Stream ID**	**Local ID**

	A	B	C
1	**Waste Stream ID**	**Radionuclide**	**Activity (Ci)**
3	SA-W134	Am-241	2.69E-02
4	SA-W134	Ba-136m	3.16E-01
5	SA-W134	Co-60	8.95E-05
6	SA-W134	Cs-137	3.57E-01
7	SA-W134	Eu-154	1.63E-04
8	SA-W134	K-40	2.16E-04
9	SA-W134	Pu-238	1.21E-02
10	SA-W134	Pu-239	5.82E-02
11	SA-W134	Pu-240	3.28E-02
12	SA-W134	Pu-241	3.19E-01
13	SA-W134	Pu-242	8.45E-06
14	SA-W134	Ra-228	2.42E-05
15	SA-W134	Sr-90	1.60E-02
16	SA-W134	Th-228	2.42E-05
17	SA-W134	Th-232	2.42E-05
18	SA-W134	Th-234	1.11E-07
19	SA-W134	U-233	3.12E-09
20	SA-W134	U-234	1.50E-04
21	SA-W134	U-235	5.05E-06
22	SA-W134	U-238	1.84E-06
23	SA-W134	Y-90	2.39E-01
24	SA-W135	Am-241	1.35E+01
25	SA-W135	Ba-137m	1.56E+02
26	SA-W135	Cs-137	1.64E+02
27	SA-W135	Pu-238	7.10E+00
28	SA-W135	Pu-239	1.88E+01
29	SA-W135	Pu-240	1.20E+01
30	SA-W135	Pu-241	1.64E+02
31	SA-W135	Pu-242	5.63E-03
32	SA-W135	Sr-90	1.23E+02
33	SA-W135	U-233	1.10E-06
34	SA-W135	U-234	6.61E-02
35	SA-W135	U-235	2.13E-03
36	SA-W135	U-238	7.12E-04
37	SA-W135	Y-90	1.23E+02
38	SA-W136	Am-241	1.23E+02
39	SA-W136	Pu-238	3.80E-02
40	SA-W136	Pu-239	1.26E+00
41	SA-W136	Pu-240	3.28E-01
42	SA-W136	Pu-241	2.22E+00
43	SA-W136	Pu-242	3.83E-05
44	SA-W137	Am-241	3.06E-01
45	SA-W137	Cd-109	2.28E-05
46	SA-W137	Ce-139	2.50E-11
47	SA-W137	Co-57	9.28E-10
48	SA-W137	Co-60	6.81E-08
49	SA-W137	Cs-137	7.43E-03
50	SA-W137	Eu-152	1.01E-05
51	SA-W137	Eu-154	4.92E-05
52	SA-W137	Hg-203	6.46E-18
53	SA-W137	Pb-210	2.15E-06
54	SA-W137	Po-210	2.15E-06
55	SA-W137	Pu-238	1.82E-01
56	SA-W137	Pu-239	4.91E-01
57	SA-W137	Pu-240	2.17E-01
58	SA-W137	Pu-241	2.07E+00
59	SA-W137	Pu-242	2.02E-04
60	SA-W137	Sn-113	9.44E-12
61	SA-W137	Th-234	9.12E-06
62	SA-W137	U-234	9.22E-06
63	SA-W137	U-235	4.23E-07
64	SA-W137	U-238	9.11E-06
65	SA-W137	Y-88	6.93E-12

	A	B	C
1	**Waste Stream ID**	**Radionuclide**	**Activity (Ci)**
66	SA-W138M	Am-241	1.41E-03
67	SA-W138M	Cd-109	2.69E-06
68	SA-W138M	Ce-139	6.81E-08
69	SA-W138M	Co-57	7.74E-08
70	SA-W138M	Co-60	3.72E-07
71	SA-W138M	Cr-51	1.43E-06
72	SA-W138M	Cs-137	2.00E-07
73	SA-W138M	Hg-203	1.55E-07
74	SA-W138M	K-40	4.98E-10
75	SA-W138M	Np-237	1.63E-10
76	SA-W138M	Pa-233	1.63E-10
77	SA-W138M	Pb-210	1.48E-06
78	SA-W138M	Pu-238	8.61E-08
79	SA-W138M	Pu-239	1.58E-05
80	SA-W138M	Sn-113	2.23E-07
81	SA-W138M	Sr-85	1.71E-07
82	SA-W138M	Te-123m	2.64E-08
83	SA-W139	Am-241	1.35E+01
84	SA-W139	Ba-137m	1.56E+02
85	SA-W139	Cs-137	1.64E+02
86	SA-W139	Pu-238	7.10E+00
87	SA-W139	Pu-239	1.88E+01
88	SA-W139	Pu-240	1.20E+01
89	SA-W139	Pu-241	1.64E+02
90	SA-W139	Pu-242	5.63E-03
91	SA-W139	Sr-90	1.23E+02
92	SA-W139	U-233	1.10E-06
93	SA-W139	U-234	6.61E-02
94	SA-W139	U-235	2.13E-03
95	SA-W139	U-238	7.12E-04
96	SA-W139	Y-90	1.23E+02

	A	B
1	**Waste Stream ID**	**Radionuclide Measurement Method**
3	SA-W134	Dose-to-Curie
4	SA-W134	Gamma Spectroscopy
5	SA-W135	Dose-to-Curie
6	SA-W136	Radio Chemistry / Wet Chemistry
7	SA-W137	Gamma Spectroscopy
8	SA-W138M	Gamma Spectroscopy
9	SA-W139	Process Knowledge

	A	B	C
1	**Waste Stream ID**	**Waste Material Parameter**	**Mass (kg)**
3	SA-W134	Aluminum-based Metal/Alloys	4.71E+01
4	SA-W134	Cellulose	7.40E+00
5	SA-W134	Iron-based Metal/Alloys	2.08E+02
6	SA-W134	Other Inorganic Materials	1.03E+01
7	SA-W134	Other Metal/Alloys	9.40E+00
8	SA-W134	Plastic	1.31E+01
9	SA-W134	Rubber	2.50E+00
10	SA-W135	Aluminum-based Metal/Alloys	1.02E+02
11	SA-W135	Cellulose	3.42E+01
12	SA-W135	Iron-based Metal/Alloys	7.13E+02
13	SA-W135	Other Inorganic Materials	4.72E+01
14	SA-W135	Other Metal/Alloys	4.32E+01
15	SA-W135	Plastic	5.12E+01
16	SA-W135	Rubber	9.00E+00
17	SA-W136	Aluminum-based Metal/Alloys	3.05E+01
18	SA-W136	Iron-based Metal/Alloys	3.47E+03
19	SA-W136	Other Inorganic Materials	1.12E-01
20	SA-W136	Other Metal/Alloys	2.70E+01
21	SA-W136	Plastic	2.99E+00
22	SA-W136	Rubber	4.88E+00
23	SA-W136	Solidified Organic Material	5.18E+00
24	SA-W137	Cement	5.00E-03
25	SA-W137	Other Inorganic Materials	1.25E+01
26	SA-W137	Other Metal/Alloys	1.05E+01
27	SA-W137	Solidified Inorganic Material	5.80E+00
28	SA-W138M	Aluminum-based Metal/Alloys	2.50E-01
29	SA-W138M	Other Inorganic Materials	1.65E+01
30	SA-W138M	Other Metal/Alloys	1.03E+00
31	SA-W139	Aluminum-based Metal/Alloys	9.50E+00
32	SA-W139	Iron-based Metal/Alloys	4.00E+01
33	SA-W139	Other Inorganic Materials	4.00E-01
34	SA-W139	Solidified Organic Material	1.00E-01

	A	B	C	D
1	**Waste Stream ID**	**Order**	**Site**	**Comments**
3	SA-W134	1	SA: Sandia National Laboratories	Newly Generated
4	SA-W135	1	SA: Sandia National Laboratories	Newly Generated
5	SA-W136	1	SA: Sandia National Laboratories	Newly Generated
6	SA-W137	1	SA: Sandia National Laboratories	Newly Generated
7	SA-W138M	1	SA: Sandia National Laboratories	Newly Generated
8	SA-W139	1	SA: Sandia National Laboratories	Newly Generated

	A	B	C	D
1	**Waste Stream ID**	**Hazardous Waste Number**	**Concentration**	**Concentration Unit**
3	SA-W134	D004	5	ppm mg/l
4	SA-W134	D005	100	ppm mg/l
5	SA-W134	D006	1	ppm mg/l
6	SA-W134	D007	5	ppm mg/l
7	SA-W134	D008	5	ppm mg/l
8	SA-W134	D009	0.2	ppm mg/l
9	SA-W134	D011	5	ppm mg/l
10	SA-W134	D019	0.5	ppm mg/l
11	SA-W134	D022	6	ppm mg/l
12	SA-W134	D028	0.5	ppm mg/l
13	SA-W134	F002	0	
14	SA-W134	F005	0	
15	SA-W135	D004	5	ppm mg/l
16	SA-W135	D005	100	ppm mg/l
17	SA-W135	D006	1	ppm mg/l
18	SA-W135	D007	5	ppm mg/l
19	SA-W135	D008	5	ppm mg/l
20	SA-W135	D009	0.2	ppm mg/l
21	SA-W135	D011	5	ppm mg/l
22	SA-W135	D019	0.5	ppm mg/l
23	SA-W135	D022	6	ppm mg/l
24	SA-W135	D028	0.5	ppm mg/l
25	SA-W135	F002	0	
26	SA-W135	F005	0	
27	SA-W138M	D006	5	ppm mg/l
28	SA-W138M	D007	5	ppm mg/l
29	SA-W138M	D008	5	ppm mg/l
30	SA-W138M	D009	1	ppm mg/l
31	SA-W138M	D011	5	ppm mg/l

	A	B
1	**Waste Stream ID**	**TRUCON Code**
3	SA-W134	125/225
4	SA-W135	321
5	SA-W136	125/225
6	SA-W137	125/225
7	SA-W138M	125/225
8	SA-W139	321

	A	B	C	D	E
1	**Waste Stream ID**	**Chemical Constituent**	**Other Chemical**	**Stored Mass (kg)**	**Projected Mass (kg)**
3	SA-W134	Oxyanion: Nitrate	N/A	1.00E-09	0.00E+00
4	SA-W134	Complexing Agent: Acetic Acid	N/A	1.00E-09	0.00E+00
5	SA-W134	Complexing Agent: Citric Acid	N/A	1.00E-09	0.00E+00
6	SA-W134	Other: Beryllium Oxide	N/A	1.00E-09	0.00E+00
7	SA-W134	Other: Carbon/Graphite	N/A	1.00E-09	0.00E+00
8	SA-W135	Oxyanion: Nitrate	N/A	1.00E-09	0.00E+00
9	SA-W135	Complexing Agent: Acetic Acid	N/A	1.00E-09	0.00E+00
10	SA-W135	Complexing Agent: Citric Acid	N/A	1.00E-09	0.00E+00
11	SA-W135	Other: Beryllium Oxide	N/A	1.00E-09	0.00E+00
12	SA-W135	Other: Carbon/Graphite	N/A	1.00E-09	0.00E+00
13	SA-W137	Oxyanion: Nitrate	N/A	1.00E-06	0.00E+00

	A	B	C
1	**Waste Stream ID**	**Option**	**Cause**

	A	B	C	D	E	F	G	H
1	**Waste Stream ID**	**Container Type**	**Currently Stored Count**	**Projected Generation Count**	**Payload Volume**	**Internal Volume**	**End Generation Year**	**Container Comments**
3	SA-W134	55-gal Drum Dir Ld w/o Liner	6	0	0.208	0.113		Packaged compliantly
4	SA-W134	Box - 744 metal	1	0	3.170	0.208		Requires repackaging
5	SA-W135	55-gal Drum Dir Ld w/o Liner	14	0	0.208	0.113		Requires repackaging in RH Canisters
6	SA-W135	RH Lead Shielded Cntr w/ 1 - 30 g	11	0	0.208	0.100		Packaged compliantly
7	SA-W136	Box - 544 metal	3	0	2.260	1.890		Requires repackaging
8	SA-W136	SWB Dir Ld w/o Liner	5	15	1.890	0.756	2022	Packaged compliantly
9	SA-W136	Box - 544 metal	1	0	2.260	1.890		Requires repackaging
10	SA-W137	0.5-gal Pail	2	0	0.002	0.002		Requires repackaging
11	SA-W137	1-gal Pail	1	0	0.004	0.004		Requires repackaging
12	SA-W137	2.5-gal Pail	1	0	0.009	0.007		Requires repackaging
13	SA-W137	20-gal Pail	1	0	0.076	0.075		Required to repackage in a 55-gallon drum
14	SA-W137	3.5-gal Pail	1	0	0.013	0.013		Requires repackaging
15	SA-W137	30-gal Drum	3	0	0.113	0.113		Requires repackaging
16	SA-W137	doubled bagged	2	0	0.004	0.004		Requires repackaging
17	SA-W137	3-gal pail	1	0	0.012	0.012		Requires repackaging
18	SA-W138M	0.5-gal Pail	1	0	0.002	0.002		Requires repackaging
19	SA-W138M	1-gal Pail	2	0	0.004	0.004		Requires repackaging
20	SA-W138M	20-gal Pail	1	0	0.076	0.007		Requires repackaging
21	SA-W138M	5-gal Pail	3	0	0.019	0.002		Requires repackaging
22	SA-W138M	doubled bagged	2	0	0.004	0.004		Requires repackaging
23	SA-W138M	2.5-gal Pail	1	0	0.009	0.007		Requires repackaging
24	SA-W139	Uncontained	0	5	0.208	0.113	2030	Requires packaging when generated

	A	B	I	J	K
1	**Waste Stream ID**	**Container Type**	**Percent Containers Readily Shippable**	**Repack Required?**	**Percent Containers Needing Repacked**
3	SA-W134	55-gal Drum Dir Ld w/o Liner	100.0%	No	0.0%
4	SA-W134	Box - 744 metal	0.0%	Yes	100.0%
5	SA-W135	55-gal Drum Dir Ld w/o Liner	0.0%	Yes	100.0%
6	SA-W135	RH Lead Shielded Cntr w/ 1 - 30 g	100.0%	No	0.0%
7	SA-W136	Box - 544 metal	0.0%	Yes	100.0%
8	SA-W136	SWB Dir Ld w/o Liner	100.0%	No	0.0%
9	SA-W136	Box - 544 metal	0.0%	Yes	100.0%
10	SA-W137	0.5-gal Pail	0.0%	Yes	100.0%
11	SA-W137	1-gal Pail	0.0%	Yes	100.0%
12	SA-W137	2.5-gal Pail	0.0%	Yes	100.0%
13	SA-W137	20-gal Pail	0.0%	Yes	100.0%
14	SA-W137	3.5-gal Pail	0.0%	Yes	100.0%
15	SA-W137	30-gal Drum	0.0%	Yes	100.0%
16	SA-W137	doubled bagged	0.0%	Yes	100.0%
17	SA-W137	3-gal pail	0.0%	Yes	100.0%
18	SA-W138M	0.5-gal Pail	0.0%	Yes	100.0%
19	SA-W138M	1-gal Pail	0.0%	Yes	100.0%
20	SA-W138M	20-gal Pail	0.0%	Yes	100.0%
21	SA-W138M	5-gal Pail	0.0%	Yes	100.0%
22	SA-W138M	doubled bagged	0.0%	Yes	100.0%
23	SA-W138M	2.5-gal Pail	0.0%	Yes	100.0%
24	SA-W139	Uncontained	0.0%	Yes	100.0%

	A	B	C
1	**Waste Stream ID / Container Type**	**Cause**	**Repacked Container Type**
3	SA-W134: Box - 744 metal (3.17 m3 Pyld, 0.208 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
4	SA-W135: 55-gal Drum Dir Ld w/o Liner (0.208 m3 Pyld, 0.113 m	Other, requires repackaging in RH canister	RH Can w/ Remov Lid w/ 3 - 55-gal w/o Liner
5	SA-W135: 55-gal Drum Dir Ld w/o Liner (0.208 m3 Pyld, 0.113 m	Other: will repackage in a shielded container	RH Lead Shielded Cntr w/ 1 - 30 gal w/o Liner
6	SA-W136: Box - 544 metal (2.26 m3 Pyld, 1.89 m3 Int)	Non-Approved Container Type	SWB Dir Ld w/o Liner
7	SA-W136: Box - 544 metal (2.26 m3 Pyld, 1.89 m3 Int)	Non-Approved Container Type	SWB Dir Ld w/o Liner
8	SA-W137: 0.5-gal Pail (0.002 m3 Pyld, 0.002 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
9	SA-W137: 1-gal Pail (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
10	SA-W137: 2.5-gal Pail (0.009 m3 Pyld, 0.007 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
11	SA-W137: 20-gal Pail (0.076 m3 Pyld, 0.075 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
12	SA-W137: 3.5-gal Pail (0.013 m3 Pyld, 0.013 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
13	SA-W137: 30-gal Drum (0.113 m3 Pyld, 0.113 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
14	SA-W137: 3-gal pail (0.012 m3 Pyld, 0.012 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
15	SA-W137: doubled bagged (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
16	SA-W138M: 0.5-gal Pail (0.002 m3 Pyld, 0.002 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
17	SA-W138M: 1-gal Pail (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
18	SA-W138M: 2.5-gal Pail (0.009 m3 Pyld, 0.007 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
19	SA-W138M: 20-gal Pail (0.076 m3 Pyld, 0.007 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
20	SA-W138M: 5-gal Pail (0.019 m3 Pyld, 0.002 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
21	SA-W138M: doubled bagged (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	55-gal Drum Dir Ld w/o Liner
22	SA-W139: Uncontained (0.208 m3 Pyld, 0.113 m3 Int)	Other, will require packaging when generated	RH Lead Shielded Cntr w/ 1 - 30 gal w/o Liner

	A	B	D
1	**Waste Stream ID / Container Type**	**Cause**	**Comment**
3	SA-W134: Box - 744 metal (3.17 m3 Pyld, 0.208 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
4	SA-W135: 55-gal Drum Dir Ld w/o Liner (0.208 m3 Pyld, 0.113 m	Other, requires repackaging in RH canister	Non-Approved Container Type
5	SA-W135: 55-gal Drum Dir Ld w/o Liner (0.208 m3 Pyld, 0.113 m	Other: will repackage in a shielded container	Other: repackaging to be able to ship as CH
6	SA-W136: Box - 544 metal (2.26 m3 Pyld, 1.89 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
7	SA-W136: Box - 544 metal (2.26 m3 Pyld, 1.89 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
8	SA-W137: 0.5-gal Pail (0.002 m3 Pyld, 0.002 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
9	SA-W137: 1-gal Pail (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
10	SA-W137: 2.5-gal Pail (0.009 m3 Pyld, 0.007 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
11	SA-W137: 20-gal Pail (0.076 m3 Pyld, 0.075 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
12	SA-W137: 3.5-gal Pail (0.013 m3 Pyld, 0.013 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
13	SA-W137: 30-gal Drum (0.113 m3 Pyld, 0.113 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
14	SA-W137: 3-gal pail (0.012 m3 Pyld, 0.012 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
15	SA-W137: doubled bagged (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
16	SA-W138M: 0.5-gal Pail (0.002 m3 Pyld, 0.002 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
17	SA-W138M: 1-gal Pail (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
18	SA-W138M: 2.5-gal Pail (0.009 m3 Pyld, 0.007 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
19	SA-W138M: 20-gal Pail (0.076 m3 Pyld, 0.007 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
20	SA-W138M: 5-gal Pail (0.019 m3 Pyld, 0.002 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
21	SA-W138M: doubled bagged (0.004 m3 Pyld, 0.004 m3 Int)	Non-Approved Container Type	Non-Approved Container Type
22	SA-W139: Uncontained (0.208 m3 Pyld, 0.113 m3 Int)	Other, will require packaging when generated	Other, will require packaging when generated

	A	B	C	D	E	F	G
1	**Waste Stream ID**	**Container Type**	**Currently Stored Count**	**Projected Generation Count**	**Fill Factor**	**End Generation Year**	**Container Comments**
3	SA-W134	55-gal Drum Dir Ld w/o Liner	7	0	60.0%		PGW waste from RH repackaging.
4	SA-W135	RH Can w/ Remov Lid w/ 3 - 55-gal w/o Liner	5	0	51.0%		This waste is packaged in either a 30-gallon inside a 55-gallon drum, or in shield pots inside a 7-gallon, then placed inside a 30-gallon drum and then inside a 55-gallon drum.
5	SA-W135	RH Lead Shielded Cntr w/ 1 - 30 gal w/o Liner	11	0	93.0%		This waste has been packaged in SC-30G1 containers
6	SA-W136	SWB Dir Ld w/o Liner	8	15	44.0%	2022	This waste is packaged compliantly
7	SA-W137	55-gal Drum Dir Ld w/o Liner	4	0	55.0%		Waste will be repackaged in 55-gallon drums
8	SA-W138M	55-gal Drum Dir Ld w/o Liner	1	0	18.0%		sources are double bagged and will be repackaged into a 55-gallon drum
9	SA-W139	RH Lead Shielded Cntr w/ 1 - 30 gal w/o Liner	0	6	86.0%	2030	Will package when generated

	A	B	C	D
1	**Waste Stream ID / Container Type**	**Year**	**Projected Count**	**Comments**
3	SA-W136: SWB Dir Ld w/o Liner	2018	6	
4	SA-W136: SWB Dir Ld w/o Liner	2019	2	
5	SA-W136: SWB Dir Ld w/o Liner	2020	5	
6	SA-W136: SWB Dir Ld w/o Liner	2021	5	
7	SA-W136: SWB Dir Ld w/o Liner	2022	3	
8	SA-W139: RH Lead Shielded Cntr w/ 1 - 30 gal w/o L	2030	6	

	A	B
1	**Waste Stream ID**	**Last Collection Waste Stream ID**
3	SA-W134	SA-W134
4	SA-W135	SA-W135
5	SA-W136	SA-W136
6	SA-W137	SA-W137
7	SA-W138M	SA-W138M
8	SA-W139	SA-W139

	A	B
1	**Deleted Waste Stream ID**	**Comments**

	A	B	C
1	**Major Change**	**Cause for the Change**	**Waste Streams Affected**
3	iron-based metal/alloys increased by 400kg/882 lbs	This waste stream consists of large experimental vessels from the Z-machine at SNL. Each unit is between 850-900 lbs of iron-based metals. One vessel was generated in 2018, hence the addition of this large weight to the waste stream. The experimental vessel is almost entirely iron-based metal/alloy.	SA-W136